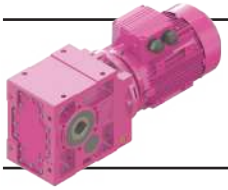
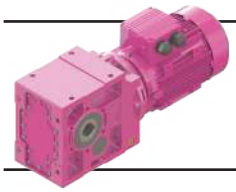


İçindekiler
Index
Inhaltsverzeichnis

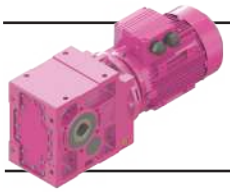
Genel Bilgiler *General Info.* Einführung	**Sembollerin Açıklaması**	*Key of Symbols*	Erklärung der Bezeichnungen	03
	Ürün Yelpazesi	*Production Range*	Produktpalette	04
	K Serisi Redüktörlerin Genel Özellikleri	*General Specifications of K Series Gearboxes*	Allgemeine Eigenschaften von K Serie Getrieben	06
	Teknik Tanımlamalar	*Technical Explanations*	Technische Erläuterungen	07
	Teknik Özellikler	*Technical Specifications*	Technische Informationen	07
	Aksesuarlar	*Accessories*	Zubehör	08
	Yüzey Koruması	*Surface Protection*	Oberflächenschutz	08
	Tip Tanımlaması	*Unit Designation*	Typenbezeichnungen	10
	Örnek Tip Tanımlamaları	*Sample Designations*	Typenbezeichnungsbeispiele	15
	Motor Büyüklüğüne Göre Geometrik Mümkün Çevrim Oranı Komb.	*Geomet. Possible Combinations of Ratios According to Motor Size*	Geomet. Mögliche Kombi. von Übersetz. nach Motorbaugröße	16
	Servis Faktörü	*Service Factor*	Betriebsfaktor	18
	Yük Sınıflandırması	*Load Classification*	Belastungsart	19
	Redüktör Dönüş Yönleri	*Direction of Rotation*	Getriebedrehrichtungen	20
	Radyal Yükler	*Overhung Loads*	Querkräfte	22
	Radyal Yüklerin Hesabı	*Calculation Of Overhung Loads*	Berechnung der Querkräfte	23
	Ekstruder Tiplerde Müsade Edilebilir Eksenel Yükler	*Permissible Axial Loads for Extruder Types*	Zulässige Axialkrüfte für Extrudertyp-Getrieben	24
	Eşdeğer Güç Hesabı	*Equivalent Power Calculation*	Äquivalente Leistung	26
	Eşdeğer Güç Hesabı Örneği	*Equivalent Power Cal. Example*	Beispiel für äquivalente Leistung	27
	Redüktör Seçimi	*Gearbox Selection*	Getriebeauswahl	28
	Redüktör Seçim Formu	*Gearbox Selection Form*	Formular für Getriebeauswahl	30
	Yağlama	*Lubrication*	Schmierung	33
	Genleşme Tankı	*Expansion Tank*	Ölausgleichsbehälter	34
	Yağ Tipleri	*Oil Types*	Schmierstoffe	35
	Montaj Pozisyonları	*Mounting Positions*	Bauformen	36
	Yağ Tapaları	*Oil plugs*	Ölverschlussschrauben	37
	Yağ Miktarları	*Oil Quantities*	Ölmengen-Tabellen	37
Motorlar *Motors* Motoren	**AC Motorlar**	*AC Motors*	Drehstrommotoren	41
	a- Genel Özellikler	*a- General Spec. of AC Motors*	a-Eigensc. des Drehstrommotors	41
	b- Çalışma Türleri	*b-Modes of Operation*	b-Betriebsarten	42
	c- Koruma Sınıfı	*c- Protection Class*	c- Schutzarten	43
	d- İzolasyon Sınıfı	*d- Insulation Class*	d- Isolationsklasse	43

K1002-0125



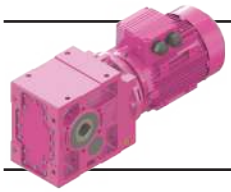
İçindekiler
Index
Inhaltsverzeichnis

	e- Verim Sınıfları	*e- Efficiency Classes*	e- Energieeffizienzklassen	43
Motorlar *Motors* Motoren	**f- AC Frekans İnvertörler**	*f- AC Frequency Inverters*	f- AC Frequenz Umrichter	44
	DC Motorlar	*DC Motors*	DC Motoren	45
	a- Genel Özellikler	*a- General Specif. of DC Motors*	a- Eigenschaften von DC Motoren	45
	b- DC Motorların Çalışma İlkeleri	*b- Operating principals of DC Motors*	b- Funktionsprinzip der DC Motoren	45
	c- DC Motor Çeşitleri	*c- Types of DC Motors*	c- Arten von DC Motoren	45
	d- DC Motorlarda Hız Kontr.	*d- Speed Control of DC motors*	d- Drehzahl Kontrolle DC Motoren	45
	Elektromanyetik Frenler	*Electromagnetic Brakes*	Elektromagnetische Bremsen	46
Frenler *Brakes* Bremsen	**Fren Çeşitleri**	*Brake Types*	Bremsenarten	47
	Fren Bağlantı Şekli	*Connection Types*	Schaltungsarten	48
	Fren Seçimi	*Brake Selection*	Bremswahl	48
	Frenin Termik Kapasitesi	*The Thermal Capacity of Brake*	Therm. Kapazität der Bremsen	49
Güç Devir Tabl. *Perform. Tables* Leistung- und Drehzahl-Tabellen	**Motorlu Güç Devir Tabloları**	*Geared Motors Performance Tables*	Leistung- und Drehzahl-Übersicht von Getriebemotoren	51
	Motorsuz Güç Devir Tabloları	*Gear Units Performance Tables*	Leistung- und Drehzahl-Übersicht von Getrieben	461
Ölçü Sayfaları *Dimension Pages* Abmessungstabellen	**KR serileri**	*KR series*	KR serie	99
	KN serileri	*KN series*	KN serie	220
	KV serileri	*KV series*	KV serie	340
	KT serileri	*KT series*	KT serie	473
	K....0E Ekstruder Boğazlı Redüktörler	K....0E *Extruder Type Gearboxes*	K....0E Extruder Getrieben von K Serie	594
	K Serisi Redüktörler için Montaj Önerileri	*Mounting Advices for K Serie Gearboxes*	Montagevorschläge Für K Serie Getrieben	600
Mil ve Kovan Ölçüleri *Shaft and Hollow Shaft Dimensions* Wellen- und Gehäusemaße	**K serisi Kovan Ölçüleri**	*K series Hollow Shaft Dimensions*	Gehäuseabmessungen von K Serie Getrieben	601
	K....0S Sıkma Bilezikli Redüktörler	K....0S *Gearboxes with Shrink Disk Connector*	K....0S Serie Hohwelle mit Schrumpfscheibe	602
	Moment Kollu Redüktörler	*Gearboxes with Torque Arm*	Drehmomentstütze Montagezeichnungen	585
	DIN 5480 Çoklu Kama Ölçüleri	*Dimensions of Splined Hollow Shaft to DIN 5480*	Abmessungen von Hohlwelle mit Vielkeilverzahnung nach DIN 5408	603
Karıştırıcı Redüktörleri *Drywell Gearboxes* Drywell Getriebe	**Opsiyonel Çıkış Flanş Ölçüleri**	*Optional Output Flange Dimensions*	Auswaehlbare Abtriebsflanschdimensionen	607
	Karıştırıcı Redüktörleri Ölçüleri	*Drywell Gearboxes Dimensions*	Drywell Getriebe Abmessungen	608
Motorlar *Motors* Motor	**Elektrik Motorlarının Performans Değerleri**	*Electric Motors Ratings and Performance*	Elektromotoren Leistungsdaten	611



Genel Bilgiler
General Information
Einführung

Sembollerin Açıklaması	*Key of Symbols*	Erklärung der Bezeichnungen
c_t : Anahtarın devreye girme zamanı katsayısı	c_t : *Coefficient of switch on time.*	c_t : Koeffizient der Betätigung von Schalter
f_s : Servis faktörü	f_s : *Service factor*	f_s : Betriebsfaktor
F_{ama} : Çıkış milinde müsaade edilen eksenel yükler [kN]	F_{ama} : *Permissible axial loads which can be applied to output shafts [kN]*	F_{ama} : Zulässige Axialkräfte auf Abtriebswelle [kN]
F_{ame} : Giriş milinde müsaade edilen eksenel yükler [kN]	F_{ame} : *Permissible axial loads which can be applied to input shafts [kN]*	F_{ame} : Zulässige Axialkräfte auf Antriebswelle [kN]
F_{qam} : Çıkış milinde izin verilen radyal yükler [N]	F_{qam} : *Permissible overhung loads which can be applied to output shafts [N]*	F_{qam} : Zulässige Querkräfte auf Abtriebswelle [N]
F_{qem} : Giriş milinde izin verilen radyal yükler [N]	F_{qem} : *Permissible overhung loads which can be applied to input shafts [N]*	F_{qem} : Zulässige Querkräfte auf Antriebswelle [N]
F_{qa} : Çıkış miline gelen radyal yükler [N]	F_{qa} : *Overhung loads applied to the output shaft [N]*	F_{qa} : Querkräfte auf Abtriebswelle [N]
F_{qe} : Giriş miline gelen radyal yükler [N]	F_{qe} : *Overhung loads applied to the input shafts [N]*	F_{qe} : Querkräfte auf Antriebswelle [N]
F_q : Radyal yönde çıkış miline gelen yükler [N]	F_q : *Overhung loads on output shaft [N]*	F_q : Querkräfte auf Abtriebswelle [N]
F_a : Eksenel yönde çıkış miline gelen yükler [N]	F_a : *Axial loads on output shaft [N]*	F_a : Axialkräfte auf Abtriebswelle [N]
i : Tahvil oranı	i : *Transmission ratio*	i : Übersetzungsverhältnis
J_{ext} : Motor miline indirgenmiş toplam dış atalet momenti [kgm^2]	J_{ext} : *Total outside moment of inertia reduced to the motor shaft [kgm^2]*	J_{ext} : Die Gesamtträgheit der rotierende Teile von der Aus gangsseite reduziert auf Motor welle [kgm^2]
M_2 : Çıkış momenti [Nm]	M_2 : *Output torque [N]*	M_2 : Ausgangsdrehmoment [N]
M_a : Anma momenti [Nm]	M_a : *Nominal torque [Nm]*	M_a : Nenndrehmoment [Nm]
n_1 : Redüktör giriş mili devri [d/dak]	n_1 : *Input speed of gearbox [rpm]*	n_1 : Antriebsdrehzahl [U/min]
n_2 : Redüktör çıkış mili devri [d/dak]	n_2 : *Output speed of gearbox [rpm]*	n_2 : Abtriebsdrehzahl [U/min]
P_{eq} : Eşdeğer güç [kW]	P_e : *Equivalent power [kW]*	P_e : Äquivalente Leistung [kW]
P_e : Nominal güç (Bak. Güç-Devir Tabloları) [kW]	P_N : *Nominal power (given on per formance tables) [kW]*	P_N : Getriebe Nennleistung (siehe Leistung- Drehzahltabellen) [kW]
P_M : Tahrik edilecek makina için gerekli güç (Değişken yükler için eşdeğer güç alınır) [kW]	P_M : *Power consumption of the driven machine (for alternating power, refer to equivalent power) [kW]*	P_M : Benötigte Leistung an der Ab- triebswelle (Zur Berechnung bei variabler Leistungen äqui- valente Leistung benutzen) [kW]
t : Zaman [s]	t : *Time [s]*	t : Zeit [s]
T_e : Eşdeğer moment [Nm]	T_e : *Equivalent torque [Nm]*	T_e : Minimales Drehmoment [Nm]



Genel Bilgiler
General Information
Einführung

Ürün Yelpazesi

Elinizdeki katalog sadece **K serisi** ürünleri içermektedir.

- M ve N Serisi
Helisel alın dişliye sahip, giriş ve çıkış milleri aynı düzlem üzerinde ve birbirine paralel uzanan, üzerlerinde bulunan ayak veya flanş ile makinaya sabitlenen redüktörlerdir. Dolu mil çıkışlıdır.

- D Serisi
Helisel alın dişliye sahip, giriş ve çıkış milleri aynı düzlem üzerinde, birbirine paralel ve belirli bir aralıkta yerleştirilmiş, iki yan yüzde bulunan bağlantı civataları, flanş veya tork kolu ile makinaya sabitlenen redüktörlerdir. Delik milli veya mil çıkışlı olabilir.

- E Serisi
Sonsuz vida ve çark dişlili, belirli bir aralıkta ve birbirine dik konumlandırılmış giriş ve çıkış millerine sahip, çepeçevre konumlandırılmış ayak bağlantıları, flanş veya tork kolu ile makinaya sabitlenebilen redüktörlerdir. Delik milli veya mil çıkışlı olabilir.

- K Serisi
Helisel alın dişli ve konik dişlilerden oluşan, birbirine dik ve belirli bir aralıkta konumlandırılmış giriş ve çıkış miline sahip, çepeçevre sunulan ayaklar, flanş veya tork kolu ile makinaya sabitlenen redüktörlerdir. E serisinden farklı olarak yüksek verime sahiptirler. Delik milli veya mil çıkışlı olabilir.

- H ve B Serisi
Helisel ve/veya konik dişliye sahip ağır hizmet tipi redüktörlerdir. Giriş ve çıkış milleri birbirine paralel veya dik olabilir. Her yönden bağlantı için ayak bağlantıları bulunur. Opsiyonel olarak flanş ile de bağlanabilir. Delik milli veya mil çıkışlı olabilir.

- T Serisi
T Serisi redüktörler helisel dişli iki kademe motorsuz delik milli redüktörlerdir. T Serisi redüktörler delik milli olması ve kompakt gövde yapısı sayesinde daha küçük hacimli alanlara montajı yapılabilmektedir.

- P ve R Serisi
P ve R Serisi redüktörler planet dişli redüktörlerdir. Endüstriyel ve mobil uygulamalarda kullanılırlar. Diğer redüktör tiplerine göre daha küçük hacimde daha büyük tork iletebilirler.

- V Serisi
V vinç redüktörleri M1 - M8 (1Dm - 5m) vinç sınıflarına uygun olarak, çift veya sabit devirli frenli motorlarla üretilebilmektedir.

Production Range

*This catalogue is containing **K series** of gearboxes only.*

- M and N Series
M and N series are helical geared gear units. The input and output shafts are parallel to each other and on the same plane. The gearbox can be connected to the machine by using the foot or flange on the gearbox. Has solid output shaft.

- D Series
D series are helical geared gearboxes with parallel input and output shafts. The shafts have a distance in between and located on the same plane. The gearbox can be assembled to the machine by using, the connection screws on the sides, flange or torque arm on the gearbox. Can have hollow or solid output shaft.

- E Series
E series gearboxes are with worm and wormwheel. The input and output shafts are perpendicular to each other and have a distance in between. It can be assembled to the driven machine by the use of the foot, flange or torque arm on the gearbox. Can have hollow or solid output shaft.

- K Series
These are gearboxes with helical and bevel gears. The input and output shafts are perpendicular to each other and have a distance in between. It can be assembled to the driven machine using the foot, flange or torque arm on the gearbox. They have high efficiency compared to E series. Can have hollow or solid output shaft.

- H and B Series
These gearboxes are helical or/and bevel geared industrial gearboxes . The input and output shafts can be arranged parallel or perpendicular to each other. The gearbox can be assembled by the use of the foot connections on each side. Flange connections are optional. They can have hollow or solid output shaft.

- T Series
T Series are gear units which are helical geared, two staged, hollow shaft mounted gear units and manufactured according to monoblock principal. T Series gearboxes have hollow shaft and compact housing so that T series can be mounted on smaller places.

- P and R Series
P and R Series gearboxes are planetary gearboxes. They are mostly used by industrial and mobile applications. Planetary gearboxes can transfer high torques in small volumes compared to other gearboxes.

- V Serie
V hoist drives are produced according to M1 - M8 (1Dm - 5m) crane classes.

Produktpalette

Dieses Katalog umfasst nur die **K Serie** Getriebe.

- M und N Serie
Diese Modelle sind Stirnradgetriebe mit parallelen Antriebs- und Abtriebswelle auf einer Ebene. Die Getriebe werden mit Fuß- oder Flanschverbindung an die angetriebene Maschine angekoppelt. Hat Vollwelle am Ausgang.

- D Serie
Diese Getriebe sind Stirnradgetriebe mit paralleler Antriebs- und Abtriebswelle, die auf einer Ebene liegen und einen Abstand zueinander haben. Diese Getriebe wird seitlich mit Gewindelöchern am Maschine oder mit einer Flansch verbindet. Kann Voll- und Hohlwelle am Ausgang haben.

-E Serie
Diese Getriebe bestehen aus Schnecke und Schneckenrad. Die Antriebs-und Abtriebswellen sind senkrecht zueinander und haben einen bestimmten Abstand. Das Getriebe wird mit Fußbefestigung,Flanschverbindung oder mit Drehmomentstütze an die angetriebene Maschine montiert. Kann Voll- und Hohlwelle am Ausgang haben.

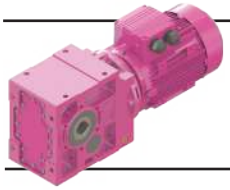
- K Serie
Diese Getrieben bestehen aus Stirnräder und Kegelräder. Die Antrieb und Abtriebswellen sind senkrecht und haben einen Abstand zueinander. Das Getriebe wird mit Fußbefestigung, Flanschverbindung oder Drehmomentstütze an die angetriebene Maschine montiert. Der Wirkungsgrad ist wesentlich höher als E Serie. Kann Voll- und Hohlwelle am Ausgang haben.

- H und B Serie
Diese Getriebe sind geeignet für industrielle Anwendungen und haben parallelen oder senkrechten Antrieb und Abtriebswelle auf einer Ebene. Das Getriebe kann mit Fußen, die auf jede Seite der Getriebe vorhanden sind, oder optional mit Flansch an die angetriebene Maschine montiert werden. Kann Voll- und Hohlwelle am Ausgang haben.

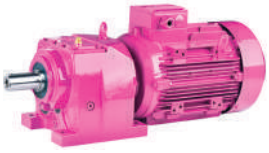
- T Serie
T Serien Getriebe sind zwei stufige, schrägverzahnte Hohlwellenflachgetriebe in Monoblockgehäuse. Die T Serie hat eine kompakte Gehäuse und ist serienmäßig mit Abgangshohlwelle hergestellt, so dass das Getriebe minimalen Platzbedarf hat.

- P und R Serie
P und R Serie sind Planetengetriebe, die vielseitig im Industrie und bei mobiler Anwendungen einsetzbar sind, mit Planetenzahnräder. Planetengetriebe können im Vergleich zu anderen Getrieben größere Drehmomente bei kleineren Bauvolumen übertragen.

- **V Serie**
V Krane und Hebezeuge werden geeignet zur Kranklasse M1 - M8 (1Dm - 5m) hergestellt.



Genel Bilgiler
General Information
Einführung



M ...

13 farklı büyüklükte;
Moment aralığı: 50 - 18.000 Nm
Devir aralığı: 0,1 - 500 d/dak
13 different sizes:
Torque range: 50 - 18.000 Nm
Speed range: 0,1 - 500 rpm
13 verschiedene Baugrößen:
Drehmomentbereich:50 - 18.000 Nm
Drehzahlbereich : 0,1 - 500 U/min

N ...

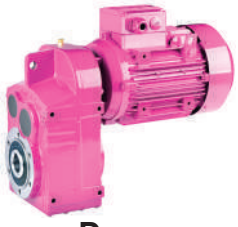
13 farklı büyüklükte;
Moment aralığı: 50 - 18.000 Nm
Devir aralığı: 0,1 - 500 d/dak
13 different sizes:
Torque range: 50 - 18.000 Nm
Speed range: 0,1 - 500 rpm
13 verschiedene Baugrößen:
Drehmomentbereich:50 - 18.000 Nm
Drehzahlbereich : 0,1 - 500 U/min

E ...

8 farklı büyüklükte;
Moment aralığı: 5 - 1.000 Nm
Devir aralığı: 0,1 - 400 d/dak
8 different sizes:
Torque range: 5 - 1.000 Nm
Speed range: 0,1 - 400 rpm
8 verschiedene Baugrößen:
Drehmomentbereich: 5-1.000 Nm
Drehzahlbereich : 0,1-400 U/min

K ...

13 farklı büyüklükte;
Moment aralığı: 200 - 20.000 Nm
Devir aralığı: 0,1 - 400 d/dak
13 different sizes:
Torque range: 200 - 20.000 Nm
Speed range: 0,1 - 400 rpm
13 verschiedene Baugrößen:
Drehmomentbereich:200 - 20.000 Nm
Drehzahlbereich : 0,1 - 400 U/min

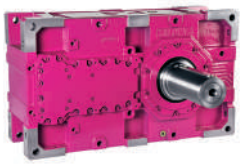


D...

11 farklı büyüklükte;
Moment aralığı: 150 - 18.000 Nm
Devir aralığı: 0,1 - 350 d/dak
11 different sizes:
Torque range: 150 - 18.000 Nm
Speed range: 0,1 - 350 rpm
11 verschiedene Baugrößen:
Drehmomentbereich: 150 - 18.000 Nm
Drehzahlbereich : 0,1 - 350 U/min

VR ...

VR vinç redüktörleri
M1 - M8 ,(1Dm - 5m) yük sınıfı
ISO 4301 / 1 ,(FEM 1.001 / III)
VR Hoist Drive Units
M1 - M8 ,(1Dm - 5m) load classification
ISO 4301 / 1 ,(FEM 1.001 / III)
VR Kran und Hebezeug Getriebe
M1 - M8 ,(1Dm - 5m) Belastungsart
ISO 4301 / 1 ,(FEM 1.001 / III)



H ...

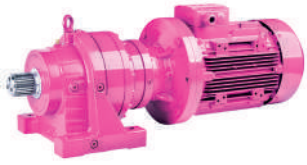
20 farklı büyüklükte;
Moment aralığı: 2.500 - 470.000 Nm
Devir aralığı: 0,1 - 250 d/dak
20 different sizes:
Torque range: 2.500 - 470.000 Nm
Speed range: 0,1 - 250 rpm
20 verschiedene Baugrößen:
Drehmomentber. :2.500 - 470.000 Nm
Drehzahlbereich : 0,1 - 250 U/min

B ...

20 farklı büyüklükte;
Moment aralığı: 5.000 - 470.000 Nm
Devir aralığı: 0,1 - 115 d/dak
20 different sizes:
Torque range: 5.000 - 470.000 Nm
Speed range: 0,1 - 115 rpm
20 verschiedene Baugrößen:
Drehmomentber. :5.000-470.000 Nm
Drehzahlbereich : 0,1-115 U/min

P ...

13 farklı büyüklükte;
Moment aralığı: 1.000 - 135.000 Nm
Tahvil oranları: 3,5 - 7500 arası
13 different sizes:
Torque range: 1.000 - 135.000 Nm
Transmission ratio: 3,5 - 7500
13 verschiedene Baugrößen:
Drehmomentber. : 1.000 - 135.000 Nm
Übersetzung: 3,5 - 7500

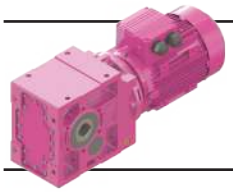


R ...

13 farklı büyüklükte;
Moment aralığı: 1.000 - 135.000 Nm
Tahvil oranları: 3,5 - 7500 arası
13 different sizes:
Torque range: 1.000 - 135.000 Nm
Transmission ratio: 3,5 - 7500
13 verschiedene Baugrößen:
Drehmomentber. : 1.000 - 135.000 Nm
Übersetzung: 3,5 - 7500

T ...

10 farklı büyüklükte;
Moment aralığı: 200 - 18.000 Nm
Devir aralığı: 46 - 280 d/dak
10 different sizes:
Torque range: 200-18.000 Nm
Speed range: 46-280 rpm
10 verschiedene Baugrößen:
Drehmomentber. :200-18.000 Nm
Drehzahlbereich : 46-280 U/min



Genel Bilgiler
General Information
Einführung

K Serisi Redüktörlerin Genel Özellikleri

K Serisi redüktörler, helisel konik dişli monoblok gövde yapısındaki redüktörlerdir. Giriş ve çıkış milleri 90º olması gereken durumlarda yüksek verim ve mukavemetin gerektirdiği yerler için dizayn edilmiştir.

K Serisi redüktörler E serisinin çok yönlü bağlantı opsiyonları ile M serisinin monoblok ve yüksek verim özellikleriyle birlikte yüksek momente sahip olarak üretilmektedir. Redüktörlerin giriş motor bağlantılarında IEC B5 veya B14, standart akuple veya motorsuz mil girişli gibi esnek montaj opsiyonları kullanılmaktadır.
K serisi redüktörler monoblok gövde içerisinde; küçük gövdeler 2 ve 3 kademe, büyük gövdeler 3 kademe olarak üretilebilmektedir. Yüksek redüksiyon gerektiren yerlerde 6 kademeye kadar akuple edilerek temin edilebilir.

YILMAZ REDÜKTÖR olarak tasarım prensibimiz;

-Yüksek teknoloji kullanmak
-Güvenilirlik,
-Yüksek güç yoğunluğu,
-Yüksek verim,
-Montaj uyumluluğu,
-Esnek çözümler
Dikkat Edilecek Hususlar !

- Bu katalogda verilen resimler görsel amaçlıdır ve şekilsel detaylar bağlayıcı değildir.

- YILMAZ REDÜKTÖR, ürünler ve kataloglar üzerinde, müşterileri bilgilendirmeksizin her türlü değişikliği yapma hakkına sahiptir.

- Ürünler teslim alındıktan sonra ürünle birlikte verilen kullanım kılavuzu okunmadan sistem devreye alınmamalıdır.
- Katalogda verilen yağ miktarları referans amaçlıdır. Gerçek yağ seviyesi için redüktör üzerinde bulunan yağ seviye tapası kullanılmalıdır. Yağ vizkozitesi için, redüktör etiketine bakınız.

- Sipariş anında montaj pozisyonu bildirilmeyen redüktörler **M1** montajına uygun sevk edilir. Etikette yazan montaj pozisyonundan farklı bağlanan redüktörler garanti kapsamından çıkar. Bu katalogda verilen redüktör ağırlıkları ortalama ağırlık değerleridir. Tahvil oranına ve üzerinde bağlı olan aksesuara göre ağırlıklar farklılık gösterebilir.

- Redüktörlerde oluşabilecek arızaları (mil kopması, dişli sıyırması vb.) dikkate alarak yaralanma ve hayati risk oluşumlarını önlemek için makine üreticisi veya kullanıcısı makine üzerinde veya redüktörün kullanılacağı yerde gerekli önlemleri almakta sorumludur.

General Specifications of K Series Gearboxes

K Series gearboxes are helical-bevel geared monoblock housing gearboxes. K Series are designed for higher efficiency and higher strenght required operations. Input and output shafts are perpendicular to each other.

K Series gearboxes have advantages of E Series mounting options, monoblock housing and higher efficiency advantages of M series with higher torque capabilities. K Series have flexible connection posibilities which is IEC B5 or B14 connection, directly mounted or solid input shaft options .
Small sizes of K series gearboxes can be 2 and 3 stages. Bigger sizes are manufactured only 3 stages in monoblock housing. K series supplied for high reduction operations up to 6 stages by using double housings.

As we are YILMAZ REDÜKTÖR,our design principals are;
-Using high technology
-Reliability
-High power density
-High efficiency
-Mounting compatible
-Flexible solutions
Attention to the following points !

- Drawings are examples only and the details on the drawings or illustrations are not strictly binding.
- YILMAZ REDÜKTÖR reserve the right to make all kinds of changes in products and cataloques without any notice.

- Prior to commissioning, the operating instructions provided with the gearbox must be observed.
- Oil quantities given are guide values only. The exact quantity of oil should be checked by using the provided oil level plugs according mounting positions. For correct oil viscosity refer to the nameplate.

- If the mounting position is not informed upon ordering, the gear unit is delivered according **M1** *mounting position. A different operation then the indicated mounting position on the name plate cancels the warranty. The weights given in this catalogue are mean values. Depending on the ratio and accessories the weights can differ.*

- The machine manufacturer or user is responsible for taking the necessary precautions on the machine or at the place where the gearbox will be used, in order to prevent injury and life-threatening risks by taking into account the shaft, gear failures etc. that may occur in the gearboxes.

Allgemeine Eigenschaften von K Serie Getrieben

K Serie Getriebe sind Kegelradgetriebe mit Monoblok-Gehäuse. Eingang- und Ausgangswelle sind senkrecht zueinander. Diese Getriebe sind für Einsatzgebiete geeignet bei denen ein hoherWirkungsgrad und eine hohe Festigkeit benötigt werden.
K Serie Getriebe haben umfangreiche Montagemöglichkeiten, wie E Serie, hohe Momenttragbarkeit mit hohem Wirkungsgrad und Monoblok-Gehäuse, wie M Serie, als Vorteil. Standart Motorverbindung (IEC B14 oder B5) oder Wellenantrieb ist möglich.

Kleine K-Serie Getriebe können mit zwei oder drei Stufen in einem Monoblock-Gehäuse hergelstellt werden, wobei große K Serie Getriebe nur mit drei Stufen ebenfalls in einem Monoblock-Gehäuse hergestellt werden. K serien Getriebe können für hohe Untersetzungen mit Hilfe eines zusätzlich gekoppelten Gehäuses bis zu sechs Stufen produziert werden.

Als YILMAZ REDÜKTÖR unsere Entwurfsprinzipien sind;
- Verwenden von hohen Fertigungstechnik
- Hohe Betriebssicherheit
- Leistungsdichte
- Hoher Wirkungsgrad
- Universale Montagemöglichkeit
- Sonderlösungen
Bitte folgende Punkte beachten !

- Die Abbildungen sind beispielhaft und nicht verbindlich.

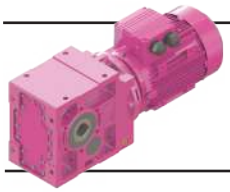
- Alle-Änderungen auf dem Katalog und an der Produkte bleiben vorbehalten und können ohne Kenntnisnahme erfolgen.

- Vor Inbetriebnahme ist die mit gelieferter Betriebsanleitung zu beachten.

-Angaben über Ölmengen sind unverbindlich. Maßgebend ist die Ölstandsschraube in der geeigneten Montageposition. Ölviskosität und Sorte muss den Angaben des Typenschildes entsprechen.

- Wenn die Bauform bei Bestellung nicht angegeben ist, erfolgt die Lieferung in der Bauform **M1.** Wenn die Getriebe anders als auf dem Typenschild benannte Bauform eingesetzt werden, verliert die Garantie ihre Gültigkeit. Die angegebenen Gewichte sind unverbindliche Mittelwerte ohne Zubehör; genauere Gewichte sind abhängig von Zubehör und Übersetzung.

- Der Maschinenhersteller oder Betreiber ist dafür verantwortlich, an der Maschine oder am Einsatzort des Getriebes die notwendigen Maßnahmen zu treffen, um Verletzungen und Lebensgefahr unter Berücksichtigung von möglichen Wellen-, Getriebeausfällen etc. in den Getrieben zu vermeiden.



Genel Bilgiler
General Information
Einführung

Teknik Tanımlamalar

- Çıkış Momenti (M_2): [Nm]
Motorun verdiği momentin tahvil oranı ve verimle ile çarpılarak elde edilen değerdir. Redüktörün çıkışından alınabilecek momenti gösterir.

- Anma Momenti (M_a): [Nm]
Redüktörün f_s=1 şartı için mekanik olarak taşıdığı moment değeridir.

- Nominal Güç (P_e): [kW]
Nominal güç, redüktörün f_s=1 şartı için mekanik olarak taşıyabileceği güç değeridir. Redüktörlerin nominal güçleri, güç devir tablolarında verilmiştir.

- Çevrim oranı (i):
Redüktörün giriş devrinin çıkış devrine oranıdır. Yılmaz Redüktör K serisi redüktörlerde 3,5-23500 arasında değişen çevrim oranları mevcuttur.

- Eşdeğer Güç ve Moment
P_{eq} [kW], T_e [Nm]
Sabit devir altında ancak değişken yük değerlerinde çalışan redüktörlerde, sabit yük altında çalışma şartlarına eşdeğer gelen moment ve güç değerleridir. Hesaplama yöntemi sayfa 23'de verilmiştir.

- İhtiyaç güç (P_M): [kW]
Redüktörlerin kullanılacağı uygulamanın istenilen şekilde çalışabilmesi için ihtiyaç duyduğu güç değeridir.

- İhtiyaç moment (T): [Nm]
Redüktörün kullanılacağı uygulamanın çalışabilmesi için ihtiyaç duyduğu moment değeridir. Seçilen redüktör için herzaman çıkış momentine eşit yada daha düşük olmalıdır.

- Müsade Edilen Eksenel ve Radyal Yükler Fqem, Fqam: [N]
Redüktörün giriş veya çıkış milinde müsade edilen eksenel ve radyal yüklerdir.

- Servis Faktörü (f_s):
Redüktörün çalıştığı şartlar ile uyumlu olması için gerekli olan emniyet katsayısıdır. f_s=1, düzgün ve sakin yüklerde, günlük sekiz saat, saatte 100 dur-kalk çalışmayı karşılar. Detaylar için redüktör seçim bölümüne bakınız.

Teknik Özellikler:

- Ses seviyesi:
Redüktörlerimizin ses seviyesi VDI 2159' da verilen redüktörler için müsade edilen ses seviyelerinin altındadır.

- Boya ve Korozyon Koruması:
Redüktörlerin standart rengi DIN1843'e göre RAL 7031 dir. İstek üzerine farklı renklerde boyanabilir. Nemli ve korozif bölgeler için istek üzerine farklı boya uygulanabilir.

Technical Explanations

- Output Torque (M_2): [Nm]
Multiplication of motor output torque with transmission ratio and efficiency gives the result of output torque at the output shaft of the gear unit.

- Nominal Torque (M_a): [Nm]
Nominal torque is the mechanical torque which the gearbox can resist under f_s=1 conditions.

- Nominal Power (P_e): [kW]
The nominal power is the power which gearbox can mechanicaly resist under f_s=1 condition. The nominal powers are given on the performance tables.

- Ratio (i):
Ratio between output shaft speed and input shaft speed. Available ratios of Yilmaz Redüktör K series are between 3,5 to 23500.

- Equivalent Power and Torque
P_{eq}: [kW], T_e [Nm]
For gearbox unit with constant speed but variable working conditions : This is the calculated power or torque which is equivalent to the values at working under constant working conditions.

***- Required Power (P_M):* [kW]**
Required power for the applications which is able to drive the system.

- Required Torque (T): [Nm]
Required torque for applications. Required torque always must be equal or smaller than output torque for selected gearbox.

- Permissible Axial and Overhung Loads: Fqem, Fqam [N]
Permissible axial and overhung load at the output or input shaft of gearboxes.

- Service Factor (f_s):
Service factor is a safety coefficient, which takes into account the different running conditions of the driven machine. f_s=1 is used for uniform loads 8 hours working per day and up to 100 cycle per hour.

Technical Specifications:

- Noise Level:
The noise level of our gearboxes is below the permitted values defined in VDI guidelines 2159 for gear units.

- Coating and Corrosion Protection:
The gearboxes are painted with RAL 7031 according DIN1843. Different colors are avaliable upon request. Paintings for high humidity or chemically aggressive environments are available upon request .

Technische Erläuterungen

- Ausgangsmoment (M_2): [Nm]
Multiplikation von Ausgangsmoment des Motors mit Übersetzung und Division das Ergebnis mit Wirkungsgrad ergibt den Betrag von Ausgangsmoment der Getriebe.
- Nennmoment (M_a): [Nm]
Mechanisches Belastungsmoment der Getriebe unter der Bedingung f_s=1.

- Nennleistung (P_e): [kW]
Die Nennleistung ist die mechanische Grenzfestigkeitsleistung für fs=1. Kann von der Leistung- Drehzahltabelle abgelesen werden.

- Übersetzung (i):
Wird aus dem Verhältnis von Ausgang- zu Eingangswinkelgeschwindigkeit bestimmt. Gängige Übersetzungen von Yilmaz K Serie Getrieben liegt zwischen 3,5 bis 23500.

-Äquivalente Leistung und Moment
P_{eq}: [kW], T_e [Nm]
Für mit konstanten Drehzahl aber unter veränderlichen Betriebsbedingungen arbeitende Getriebe berechnete Leistung und Moment äquivalent zu Werten beim Arbeiten unter konstanten Betriebsbedingungen.

- Notwendige Leistung (P_M): [kW]
Für das Getriebe notwendige Leistung, um Arbeiten von Getriebe bei der für das Getriebe gedachten Anwendung zu gewährleisten.

- Notwendige Moment (T): [Nm]
Notwendige Moment für Anwendungen. Für den ausgewählte Getriebe soll das notwendige Moment gleich dem Ausgangsmoment oder kleiner als diesem Moment sein.

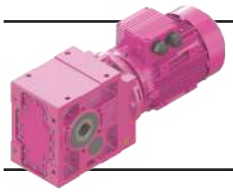
- Zulässige Axial- oder Querkräfte:
Fqem, Fqam [N]
Bei den Anwendungen während der Betrieb zulässige axiale oder radiale Eingangs- oder Ausgangsbelastungen.

- Betriebsfaktor (f_s):
Dieser Faktor f_s ist ein Sicherheitsfaktor, damit die Getriebe unter verschiedenen Bedingungen mit genügender Sicherheit arbeitet. f_s=1 gilt für gleichförmig Belastung, mit 8 Betriebsstunden pro Tag und bis zum 100 Schaltungen pro Stunde.

Technische Informationen:

- Geräuschpegel:
Geräuschstärken aller Getriebe bleiben unter die zulässigen Werte, die für die Getriebe in der VDI-Richtlinie 2159 festgelegt sind.

- Lackierung und Korrosionsschutz:
Die Getriebe werden mit der Farbe RAL 7031 nach DIN1843 lackiert. Auf Wunsch sind Sonderlackierungen möglich. Alle Getriebe können auf Wunsch auch in korrosionsgeschützter Ausführung für aggressive Umgebungen geliefert werden.



Genel Bilgiler
General Information
Einführung

- Yağlama:

K Serisi redüktörler yağlama tablolarında verilen yağlar ile doldurulmaktadır.Yağ detayları için yağlama bölümüne bakınız.

- Aksesuarlar:

K Serisi redüktörlerde aşağıdaki aksesuarlar kullanılabilir
- IEC B5 Motor bağlantı flanşları
- Çıkış Bağlantı Flanşları
- Sıkma bileziği
- Geri dönüş kilidi
- Özel keçe çözümleri,
- Şeffaf yağ seviye göstergesi
- Tork kolu
- Elektromanyetik frenler

Diğer özel aksesuarlar için lütfen,
YILMAZ REDÜKTÖR ile temasa geçiniz.

- Yüzey Koruması

Redüktörlerimiz aksi belirtilmedikçe boyalı olarak sevk edilmektedir. DIN EN ISO 12944-2 korozyon standardında belirtilen sınıflardan aşağıdaki tabloda belirtilen 4 kategori için yüzey koruması sağlanmaktadır. Standart boya sınıfımız C2 korozyon kategorisini karşılamaktadır. Farklı bir koruma sınıfı istenirse sipariş aşamasında belirtilmelidir.
Mil, flanş bağlantı yüzeyi gibi boyanmayan yüzeylere paslanmaya karşı koruma sağlamak için korozyon önleyici yağ sürülmektedir.

- Lubrication:

K series of gearboxes filled with oils which are indicated on lubrication tables. For lubrication details please refer to the lubrication section.

- Accessories:

The following accessories can be applied to K series gearboxes.
- IEC B5 Motor connection flange
- Output flanges
- Shrink Discs
- Backstops
- Special sealing solutions,
- Transparent oil level indicator,
- Torque arm,
- Electromagnetic brakes.

For other accessories please contact, YILMAZ REDÜKTÖR.

- Surface Protection

Our products are all painted unless otherwise stated. 4 corrosion categories which are mentioned below can be offered according to corrosion categories of DIN EN ISO 12944-2 standard. Our standard paint meets C2 corrosion category. If different category is requested, please inform before order.
Unpainted parts such as shaft, flange connection surface are coated with anti-corrosion paint before shipment against corrosion.

- Schmierung:

K Serie Getriebe werden mit Ölen entsprechend der Schmierungstabellen, falls nicht anders vereinbart, geliefert. Für weitere Schmierungsangaben siehe Kapitel Schmierung.

- Zubehör:

Folgendes Zubehör kann für Getriebe der K Serie geliefert werden.
- IEC B5 Motor Adapter,
- Abtriebsflansch,
- Schrumpfscheiben,
- Rücklaufsperren,
- Unterschiedliche Dichtungssysteme,
- Ölstandzeiger,
- Drehmomentstütze,
- Elektromagnetische Bremsen

Für weiteres Zubehör kontaktieren Sie bitte mit, YILMAZ REDÜKTÖR.

- Oberflächenschutz

Getriebe von Yılmaz Redüktör werden lackiert und so geliefert falls nicht anders vereinbart ist. Die 4 untenstehenden Korrosionskategorien können nach Korrosionsschutz-Basisnorm DIN EN ISO 12944-2 angeboten werden. Unsere Standard-Lackierung erfüllt C2-Korrosionkategorie. Wenn Sie eine andere Kategorie erwünschen, informieren Sie uns bitte darüber vor der Bestellung.
Nicht lackierte Teile (z.B. Welle, Oberfläche des Anschlussflanschs) werden mit einem Schutzmittel vor dem Versand geschmiert, um vor Korrosion und Rost zu schützen.

Korozyon Kategorisi *Corrosion Categories* Korrosivitätskategorie	**Çevre Şartları** *Ambient Conditions* Umgebungsbedingungen	**Boya Tipi** *Paint Type* Lackierung	**Boya Kalınlıkları** *Paint Thickness* Sollschichtdicke
C2 (Standard)	**İç ortam ve muhafazalı dış ortam** **Nem ve kirlilik oranı düşük çalışma ortamı** *Indoor installation and outdoor installation with protection roof* *Environments with low humidity and contamination* Innenaufstellung und Außenaufstellung mit Überdachung oder Schutzeinrichtung Atmosphäre mit niedriger Luftfeuchtigkeit und Verunreinigung	**Çift Komponent Astar** *Two-Component Primer Coat* Zwei-Komponenten-Grundierung **Akrilik Sonkat** *Acrylic Top Coat* Akryl-Decklack	60 µm 40 µm
C3	**İç ortam ve atmosfere açık dış ortam** **Orta seviyede nem ve kirlilik olan çalışma ortamı** *Indoor installation and outdoor installation subject to weathering* *Environments with mean humidity and contamination* Innenaufstellung und Außenaufstellung im Freien unter Bewitterung Atmosphäre mit mäßiger Luftfeuchtigkeit und Verunreinigung	**Epoksi Astar** *Epoxy Primer Coat* Epoxy-Grundierung **Akrilik Sonkat** *Acrylic Top Coat* Akryl-Decklack	80 µm 40 µm
C4	**İç ortam ve atmosfore açık dış ortam** **Genelde yüksek nem ve kimyasal madde olan çalışma ortamı** *Indoor installation and outdoor installation subject to weathering* *Environments with occasionally high humidity and chemical contamination* Innenaufstellung und Außenaufstellung im Freien unter Bewitterung Atmosphäre gelegentlich mit hoher Luftfeuchtigkeit und chemischer Verunreinigung	**Epoksi Astar** *Epoxy Primer Coat* Epoxy-Grundierung **Akrilik Sonkat** *Acrylic Top Coat* Akryl-Decklack	180 µm 40 µm
C5-I / C5-M	**İç ortam ve atmosfere açık dış ortam** **Sürekli yüksek nem ve kimyasal madde ile temizlik yapılan çalışma ortamı** *Indoor installation and outdoor installation subject to weathering* *Environments with permanent high humidity and chemical cleaning contamination* Innenaufstellung und Außenaufstellung im Freien unter Bewitterung Atmosphäre mit ständiger hoher Luftfeuchtigkeit und chemischer Verunreinigung (Nassreinigung mit Säuren/Laugen und auch mit chemischen Reinigungsmitteln).	**Çinko Yüklemeli Epoksi Astar** *Epoxy Zinc Primer Coat* Epoxy-Zink-Grundierung **Epoksi Astar Miox** *Epoxy Miox Primer Coat* Epoxy-Miox-Grundierung **Akrilik Sonkat** *Acrylic Top Coat* Akryl-Decklack	70 µm 150 µm 40 µm

YILMAZ REDÜKTÖR
YILMAZ
REDÜKTÖR

YILMAZ REDÜKTÖR
YILMAZ
REDÜKTÖR

Genel Bilgiler
General Information
Einführung

Tip Tanımlaması / *Unit Designation* **/** Typenbezeichnung

K R 3 7 3 . 02 R - 3 E90S / 4C - L05

Fren / *Brake* / Bremse

L-220V **Fanlı** / *With Fan* / Mit Lüfter
P-24V **Fanlı** / *With Fan* / Mit Lüfter
S-220 V **Fansız** / *Without Fan* / Ohne Lüfter
Z-24 V **Fansız** / *Without Fan* / Ohne Lüfter

00- 5 Nm **10-** 100 Nm
01- 10 Nm **20-** 200 Nm
02- 25 Nm **30-** 300 Nm
04- 40 Nm **40-** 400 Nm
05- 50 Nm **50-** 500 Nm

Kutup sayısı / *Number of Poles /* Anzahl der Polen

Motor Büyüklüğü / *Motor Size /* Motorbaugröße

KV Tipleri için / *For KV types* / Für Typen KV

E90 S / 4

- **Kutup Sayısı** / *Pole Number* / Anzahl der polen
- **Gövde uzunluğu** / *Frame Lenght* / Gehäuselänge
- **Motor büyüklüğü** / *Motor size* / Motorbaugröße
- **Motor tipi** / *Motor type* / Motortyp

KN tipleri için / *For KN Types /* Für Typen KN

A06 : 63 B5 **A10** : 100 B5 **A20** : 200 B5
B06 : 63 B14 **B10** : 100 B14 **A22** : 225 B5
A07 : 71 B5 **A11** : 112 B5 **A25** : 250 B5
A08 : 80 B5 **A13** : 132 B5 **A31** : 315 B5
B08 : 80 B14 **B13** : 132 B14
A09 : 90 B5 **A16** : 160 B5
B09 : 90 B14 **A18** : 180 B5

Motor verim sınıfı / *Motor efficiency class /* Motor-Effizienzklasse

Çıkış Mil - Flanş Yönü / Output Shaft - Flange Position **/** Ausgangswelle - Seite von dem Flansch

Çıkış Özelliği / *Output Specification /* Eigenschaft der Ausgang

00 :**Standart delik milli** / *Hollow output shaft /* Standarte Ausführung mit Hohlwelle
01 :**Mil Çıkışlı** / *Solid output shaft / Vollwelle*
02 :**Flanşlı ve mil çıkışlı** / *Solid output shaft and with Flange /* Mit Flansch und Abtriebsvollwelle
03 :**Flanşlı ve delik milli çıkışlı** / *Flanged and hollow output shaft /* Mit Flansch und Hohlausgangswelle
04 :**Çift çıkış milli** / *With double output shaft /* Mit doppelter Abtriebswelle
05 :**Çift flanşlı ve çift çıkış milli** / *Double flanged and double output shaft* / Mit doppeltem Flansch und doppelter Abtriebswelle
08 :**Çift flanşlı delik milli** */Double flanged and hollow output shaft* / Mit doppeltem Flansch und Aufsteckwelle
0K :**Delik milli çoklu kamalı (DIN 5480)** */ Splined hollow output shaft (DIN 5480) /* Hohlwelle mit Vielkeilverzahnung (DIN 5480)
1K : **Mil çıkışlı çoklu kamalı (DIN 5480)** */ Splined solid output shaft (DIN 5480) /* Vollwelle mit Vielkeilverzahnung (DIN 5480)
0S :**Sıkma Bilezikli** / *Shrink disk output /* Schrumpfscheibe
0E :**Ekstruder Çıkışlı** / *Extruder output* / Extruder-Ausgang
0A :**Karıştırıcı Redüktörü Delik Mil Çıkışlı /** *Drywell Gearbox with Hollow Output Shaft /* Drywell Getriebe mit Hohlwelle
1A :**Karıştırıcı Redüktörü Dolu Mil Çıkışlı /** *Drywell Gearbox with Solid Output Shaft /* Drywell Getriebe mit Vollwelle
SA :**Karıştırıcı Redüktörü Sıkma Bilezikli Çıkışlı /** *Drywell Gearbox with Shrink Disk Output /* Drywell Getriebe mit Schrumpfscheibe

Kademe Sayısı / *Stage /* Anzahl der Stufen

2 kademe / *2 Stages* / 2 Stufig
3 kademe / *3 Stages* / 3 Stufig
4 kademe / *4 Stages* / 4 Stufig
5 kademe / *5 Stages* / 5 Stufig
6 kademe / *6 Stages* / 6 Stufig

Revizyon Numarası / *Revision Number /* Änderungsnummer

Gövde Büyüklük / *Housing Size /* Größe von Gehäuse

0...9

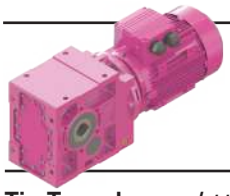
Giriş Tipi / *Input Type /* Eingangstyp

R :**Motorlu** / *With Motor* / Mit Motor
N :**Motorsuz ve IEC B5/B14 Flanş girişli** / *IEC B5 / B14 Flanged without Motor* / Ohne Motor und mit IEC B5/B14 Eingangsflansch
V :**Motorlu ve IEC B5/B14 Flanş girişli** / *IEC B5 / B14 Flanged with Motor* / Mit Motor und IEC B5/B14 Eingangsflansch
T :**Motorsuz** / *Without Motor* / Eingang mit Vollwelle ohne Motor

RB :**Motorlu Karıştırıcı Redüktörü** / Drywell Gearbox *With Motor* / Drywell Getriebe mit Motor
NB :**Motorsuz ve IEC B5/B14 Flanş Girişli Karıştırıcı Redüktörü** / *IEC B5 / B14 Flanged* Drywell Gearbox *without Motor* / Drywell Getriebe ohne Motor und mit IEC B5/B14 Eingangsflansch
VB :**Motorlu ve IEC B5/B14 Flanş Girişli Karıştırıcı Redüktörü** / *IEC B5 / B14 Flanged* Drywell Gearbox *with Motor* / Drywell Getriebe mit Motor und IEC B5/B14 Eingangsflansch
TB :**Motorsuz Karıştırıcı Redüktörü** / Drywell Gearbox *Without Motor* / Drywell Getriebe mit Eingangsvollwelle ohne Motor
RE :**Ekstrüder Tipi Motorlu Redüktör** / *Extruder type Gearbox With Motor* / Extruder Getriebe mit Motor
NE :**Ekstrüder Tipi Motorsuz ve IEC B5/B14 Flanş girişli Redüktör** / *IEC B5 / B14 Flanged Extruder Gearbox without Motor* / Extruder Getriebe ohne Motor und mit IEC B5/B14 Eingangsflansch
VE :**Ekstrüder Tipi Motorlu ve IEC B5/B14 Flanş girişli Redüktör** / *IEC B5 / B14 Flanged Extruder Gearbox with Motor* / Extruder Getriebe mit Motor und IEC B5/B14 Eingangsflansch
TE :**Ekstrüder Tipi Motorsuz Redüktör** / *Extruder type Gearbox Without Motor* / Extruder Getriebe mit Eingangsvollwelle ohne Motor

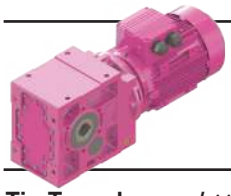
Redüktör Tipi / *Gearbox Type /* Getriebe

K Serisi / *K Serie* / K Serie



Tip Tanımlaması / *Unit Designation /* Typenbezeichnung

KR..00..	**Konik-Helisel tip redüktörler, motor bağlantılı, delik milli çıkış** / *Bevel-Helical type geared motors ,direct coupled motor, Hollow shaft output /* Kegelradgetriebe, Verbunden mit Motor, Ausgang mit Hohlwelle.
KR..01..	**Konik-Helisel tip redüktörler, motor bağlantılı, milli çıkış** / *Bevel-Helical type geared motors, direct motor coupled, solid output shaft* / Kegelradgetriebe, Verbunden mit Motor, Ausgang mit Vollwelle.
KR..02..	**Konik-Helisel tip redüktörler, motor bağlantılı, mil ve flanş çıkışlı** / *Bevel-Helical type geared motors, direct motor coupled, solid output shaft and output flange* / Kegelradgetriebe, Verbunden mit Motor, Ausgang mit Vollwelle und Flasch.
KR..03..	**Konik-Helisel tip redüktörler, motor bağlantılı delik milli ve flanş çıkışlı** / *Bevel-Helical type geared motors, direct motor coupled, hollow output shaft and output flange* / Kegelradgetriebe,Verbunden mit Motor, Ausgang mit Hohlwelle und Flansch.
KR..04..	**Konik-Helisel tip redüktörler,motor bağlantılı, çift çıkış milli /** *Bevel-Helical type gerboxes, direct motor coupled, double output shaft,* / Kegelradgetriebe, Verbunden mit Motor, mit doppelter Ausgangswelle
KR..05..	**Konik-Helisel tip redüktörler, motor bağlantılı çift milli ve çift flanş çıkışlı** / *Bevel-Helical type geared motors, direct motor coupled, double hollow output shaft and double flange output.* / Kegelradgetriebe,Verbunden mit Motor, Ausgang mit Hohlwelle und Flansch.
KR..08..	**Konik-Helisel tip redüktörler, motor bağlantılı delik milli ve çift flanş çıkışlı** / *Bevel-Helical type geared motors, direct motor coupled, double hollow output shaft and double flange output.* / Kegelradgetriebe,Verbunden mit Motor, Ausgang mit Hohlwelle und Flansch.
KR..0K..	**Konik-Helisel tip redüktörler, motor bağlantılı delik milli ve çoklu kamalı** / *Bevel-Helical type geared motors, direct motor coupled, splined hollow output shaft* / Kegelradgetriebe, Verbunden mit Motor, Hohlwelle mit Vielkeilverzahnung
KR..1K..	**Konik-Helisel tip redüktörler, motor bağlantılı mil çıkışlı ve çoklu kamalı /** *Bevel-Helical type geared motors, direct motor coupled, splined solid output shaft /* Kegelradgetriebe, Verbunden mit Motor, Vollwelle mit Vielkeilverzahnung
KR..0S..	**Konik-Helisel tip redüktörler, motor bağlantılı, sıkma bilezik çıkışlı/** *Bevel-Helical type geared motors direct motor coupled , Shrink disk output /* Kegelradgetriebe, Verbunden mit Motor, Ausgang mit Schrumpfscheibe
KRE..0E..	**Konik-Helisel tip motorlu redüktörler, motor bağlantılı, ekstruder çıkışlı /** *Bevel-Helical type geared motors direct motor coupled, extruder output /* Kegelradgetriebe, Verbunden mit Motor, Ausgang mit Extruder
KRB..0A..	**Konik-Helisel tip redüktörler, motor bağlantılı, drywell boğazlı ve delik milli** / *Bevel-Helical type geared motors, direct motor coupled, hollow output shaft with drywell flange* / Kegelradgetriebe, Verbunden mit Motor, Drywell Flansch mit Hohlwelle
KRB..1A..	**Konik-Helisel tip redüktörler, motor bağlantılı, drywell boğazlı ve mil çıkışlı** / *Bevel-Helical type geared motors, direct motor coupled, solid output shaft with drywell flange /* Kegelradgetriebe, Verbunden mit Motor, Drywell Flansch mit Vollwelle
KRB..SA.	**Konik-Helisel tip redüktörler, motor bağlantılı, drywell boğazlı ve sıkma bilezikli çıkışlı** / *Bevel-Helical type geared motors, direct motor coupled, shrink disc output with drywell flange /* Kegelradgetriebe, Verbunden mit Motor, Drywell Flansch mit Schrumpfscheibe
KN..00..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı motorsuz , delik milli çıkış** / *Bevel-Helical type gearboxes, IEC B5/B14 flanged input without motor, hollow output shaft* / Kegelradgetriebe, ohne Motor mit IEC B5/B14 Flansch , Ausgang mit Hohlwelle.
KN..01..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı motorsuz , mil çıkışlı** / Bevel-*Helical type gearboxes,IEC B5/B14 flanged input without motor, Solid output shaft* / Kegelradgetriebe, ohne Motor mit IEC B5/B14 Flansch, Ausgang mit Vollwelle.
KN..02..	**Konik-Helisel tipredüktörler, IEC B5/B14 flanşlı motorsuz, mil ve flanş çıkışlı** / *Bevel-Helical type gearboxes, IEC B5/B14 flanged input without motor, Solid output shaft and output flange* / Kegelradgetriebe, ohne Motor mit IEC B5/B14 Flansch, Ausgang mit Vollwelle und Flansch.
KN..03..	**Konik-Helisel redüktörler, IEC B5/B14 flanşlı motorsuz, delik milli ve flanş çıkışlı** /Bevel-Helical type *gearboxes, IEC B5/B14 flanged input without motor, Hollow output shaft and output flange* / Kegelradgetriebe, ohne Motor mit IEC B5/B14, Ausgang mit Hohlwelle und Flansch.
KN..04..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı motorsuz, çift çıkış milli /** *Bevel-Helical type gerboxes, IEC B5/B14 flanged without motor, double output shaft,* Kegelradgetriebe, ohne Motor mit IEC B5/B14, mit doppelter Ausgangswelle
KN..05.	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı motorsuz ,çift milli ve çift flanş çıkışlı** /*Bevel-Helical type geared motors, IEC B5/B14 flanged input without motor, double hollow output shaft and flange output.* / Kegelradgetriebemotor,ohne Motor mit IEC B5/B14 Flansch, Ausgang mit Hohlwelle und Flansch.
KN..08..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı motorsuz ,delik milli ve çift flanş çıkışlı** / *Bevel-Helical type geared motors, IEC B5/B14 flanged input without motor ,double hollow output shaft and double flange output.* / Kegelradgetriebemotor,ohne Motor mit IEC B5/B14 Flansch, Ausgang mit Hohlwelle und Flansch.
KN..0K..	**Konik-Helisel tip redüktörler, motor bağlantılı delik milli ve çoklu kamalı** / *Bevel-Helical type geared motors, IEC B5/B14 flanged input without motor , splined hollow output shaft* / Kegelradgetriebe, ohne Motor mit IEC B5/B14, Hohlwelle mit Vielkeilverzahnung
KN..1K..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı motorsuz, mil çıkışlı ve çoklu kamalı /** *Bevel-Helical type geared motors, IEC B5/B14 flanged input without motor , splined solid output shaft /* Kegelradgetriebe, ohne Motor mit IEC B5/B14, Vollwelle mit Vielkeilverzahnung
KN..0S..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı motorsuz, sıkma bilezik çıkışlı/** *Bevel-Helical type geared motors, IEC B5/B14 flanged input without motor , Shrink disk output /* Kegelradgetriebe, ohne Motor mit IEC B5/B14, Ausgang mit Schrumpfscheibe
KNE..0E..	**Konik-Helisel tip motorlu redüktörler, IEC B5/B14 flanşlı motorsuz, ekstruder çıkışlı /** *Bevel-Helical type geared motors IEC B5/B14 flanged input without motor , extruder output /* Kegelradgetriebe, ohne Motor mit IEC B5/B14, Ausgang mit Extruder
KNB..0A..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı motorsuz, drywell boğazlı ve delik milli** / *Bevel-Helical type geared motors, IEC B5/B14 flanged input without motor , hollow output shaft with drywell flange* / Kegelradgetriebe, ohne Motor mit IEC B5/B14, Drywell Flansch mit Hohlwelle
KNB..1A..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı motorsuz, drywell boğazlı ve mil çıkışlı** / *Bevel-Helical type geared motors, IEC B5/B14 flanged input without motor , solid output shaft with drywell flange /* Kegelradgetriebe, ohne Motor mit IEC B5/B14, Drywell Flansch mit Vollwelle
KNB..SA.	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı motorsuz, drywell boğazlı ve sıkma bilezikli çıkışlı** / *Bevel-Helical type geared motors, IEC B5/B14 flanged input without motor, shrink disc output with drywell flange /* Kegelradgetriebe, ohne Motor mit IEC B5/B14, Drywell Flansch mit Schrumpfscheibe
KV..00..	**Konik-Helisel tip helisel redüktörler, IEC B5/B14 flanşlı, motorlu, delik milli çıkış** / *Bevel-helical type gearboxes, IEC B5/B14 flanged input with coupled motor, hollow output shaft* / Kegelradgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, Ausgang mit Hohlwelle.
KV..01..	**Konik-Helisel tip helisel redüktörler, IEC B5/B14 flanşlı, motorlu, mil çıkışlı** / *Bevel-helical type gearboxes,IEC B5/B14 flanged input with coupled motor, solid output shaft* / Kegelradgetriebe,Verbunden mit IEC B5/B14 Motorverbindung, Ausgang mit Vollwelle.
KV..02..	**Konik-Helisel tip helisel redüktörler, IEC B5/B14 flanşlı, motorlu, mil ve flanş çıkışlı** / *Bevel-helical type gearboxes, IEC B5/B14 flanged input with coupled motor, with solid output shaft and output flange* / Kegelradgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, Ausgang mit Vollwelle und Flansch.
KV..03..	**Konik-Helisel tip helisel redüktörler, IEC B5/B14 flanşlı, motorlu, delik milli ve flanş çıkışlı** / *Bevel-helical type gearboxes, IEC B5/B14 flanged input with coupled motor, Hollow output shaft and output flange* / Kegelradgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, Ausgang mit Hohlwelle und Flasch.
KV..04..	**Konik-Helisel tip redüktörler,motor bağlantılı, çift çıkış milli /** *Bevel-Helical type gerboxes, IEC B5/B14 flanged input with coupled motor, double output shaft,* / Kegelradgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, mit doppelter Ausgangswelle
KV..05..	**Konik-Helisel tip helisel redüktörler, IEC B5/B14 flanşlı, motorlu, çift milli ve çift flanş çıkışlı** / *Bevel-helical type gearboxes, IEC B5/B14 flanged input with coupled motor, double output shaft and double output flange* / Kegelradgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, Ausgang mit Hohlwelle und Flansch.
KV..08..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı, motorlu, delik milli ve çift flanş çıkışlı** / *Bevel-Helical type geared motors, IEC B5/B14 flanged input with direct coupled motor, double hollow output shaft and double flange output.* / Kegelradgetriebemotor,Verbunden mit IEC B5/B14 Motorverbindung, Ausgang mit Hohlwelle und Flansch.

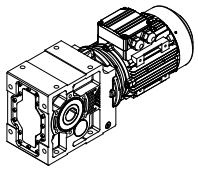
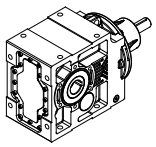
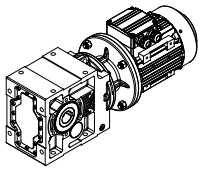
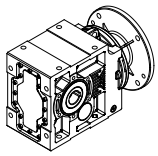
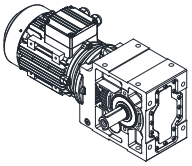
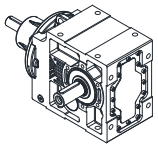
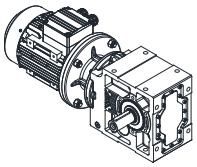
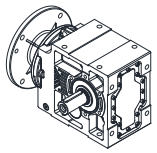
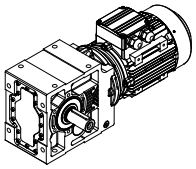
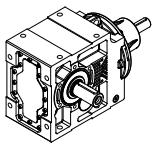
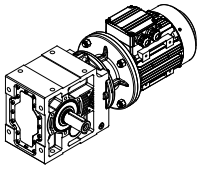
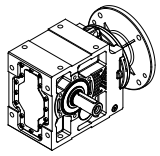
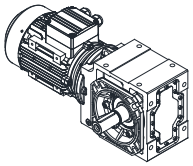
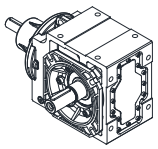
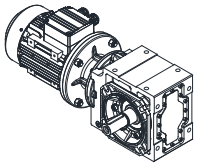
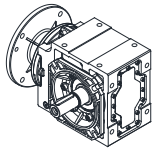
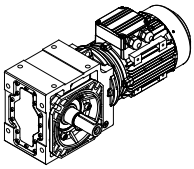
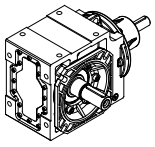
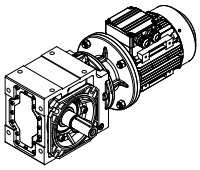
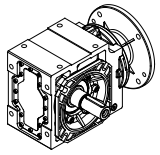
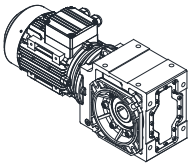
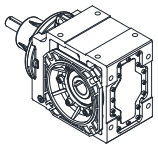
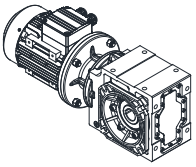
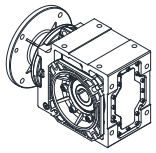
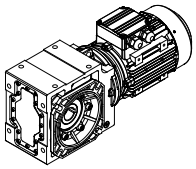
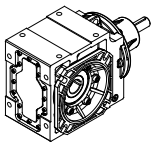
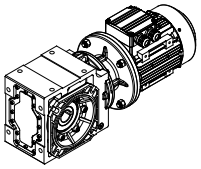
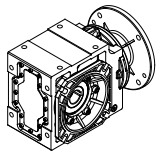
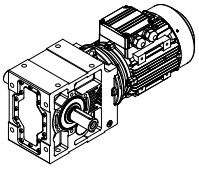
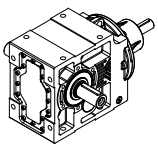
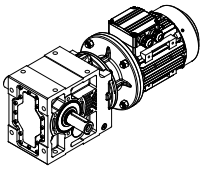
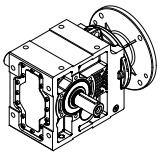
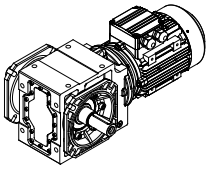
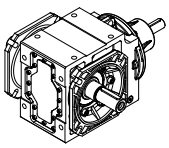
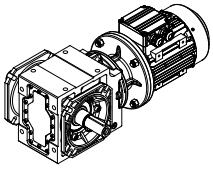
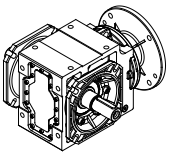
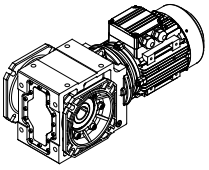
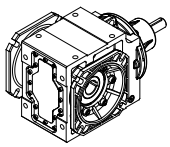
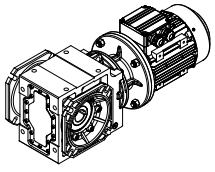
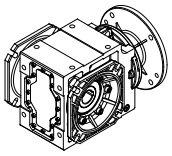


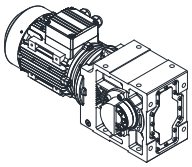
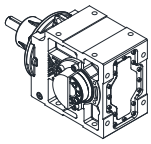
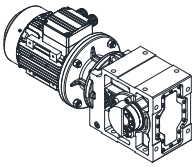
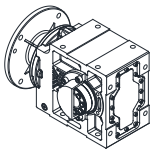
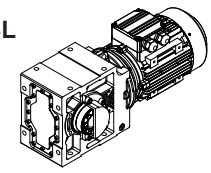
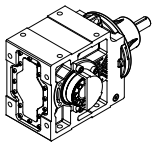
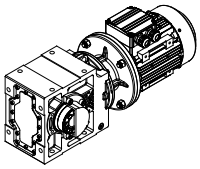
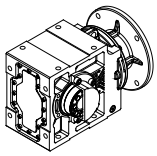
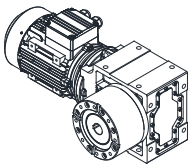
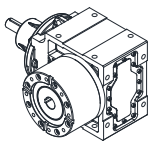
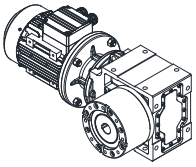
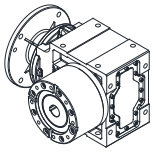
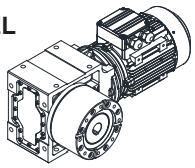
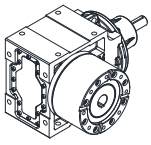
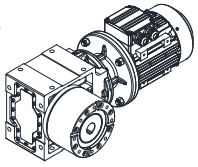
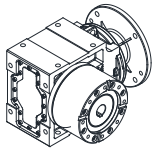
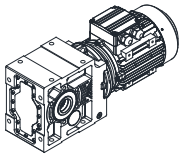
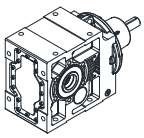
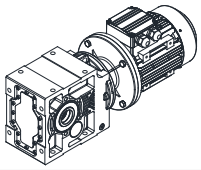
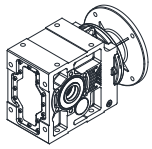
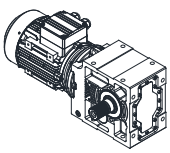
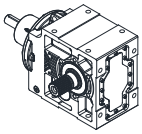
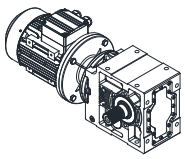
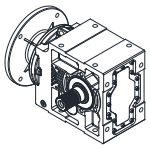
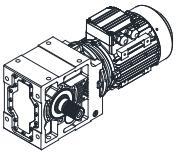
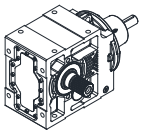
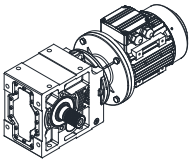
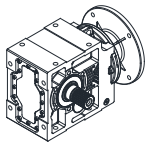
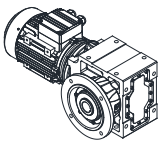
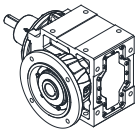
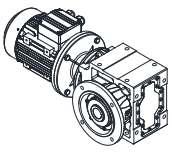
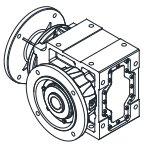
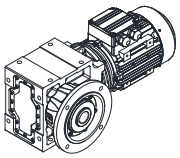
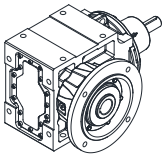
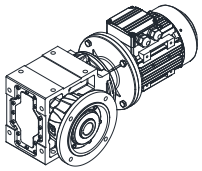
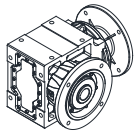
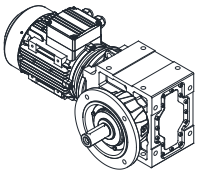
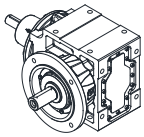
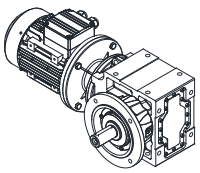
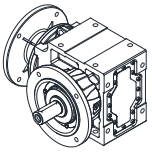
Genel Bilgiler
General Information
Einführung

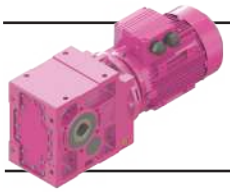
Tip Tanımlaması / *Unit Designation /* Typenbezeichnung

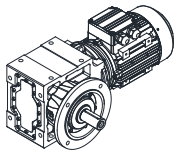
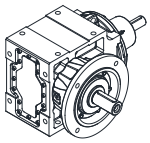
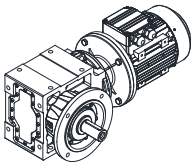
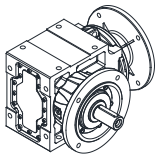
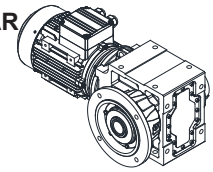
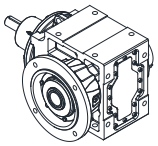
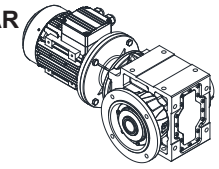
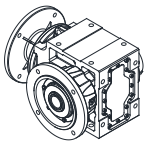
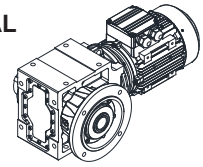
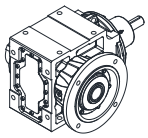
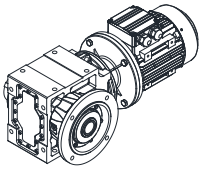
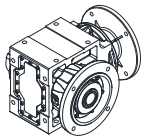
KV..0K..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı, motorlu, delik milli ve çoklu kamalı** / *Bevel-Helical type geared motors, IEC B5/B14 flanged input with coupled motor, splined hollow output shaft* / Kegelradgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, Hohlwelle mit Vielkeilverzahnung
KV..1K..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı, motorlu, mil çıkışlı ve çoklu kamalı /** *Bevel-Helical type geared motors, IEC B5/B14 flanged input with coupled motor, splined solid output shaft /* Kegelradgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, Vollwelle mit Vielkeilverzahnung
KV..0S..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı, motorlu, sıkma bilezik çıkışlı/** *Bevel-Helical type geared motors IEC B5/B14 flanged input with coupled motor, Shrink disk output /* Kegelradgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, Ausgang mit Schrumpfscheibe
KVE..0E..	**Konik-Helisel tip motorlu redüktörler, IEC B5/B14 flanşlı, motorlu, ekstruder çıkışlı /** *Bevel-Helical type geared motors IEC B5/B14 flanged input with coupled motor, extruder output /* Kegelradgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, Ausgang mit Extruder
KVB..0A..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı, motorlu, drywell boğazlı ve delik milli** / *Bevel-Helical type geared motors, IEC B5/B14 flanged input with coupled motor, hollow output shaft with drywell flange* / Kegelradgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, Drywell Flansch mit Hohlwelle
KVB..1A..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı, motorlu, drywell boğazlı ve mil çıkışlı** / *Bevel-Helical type geared motors, IEC B5/B14 flanged input with coupled motor, solid output shaft with drywell flange /* Kegelradgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, Drywell Flansch mit Vollwelle
KVB..SA..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı, motorlu, drywell boğazlı ve sıkma bilezikli çıkışlı** / *Bevel-Helical type geared motors, IEC B5/B14 flanged input with coupled motor, shrink disc output with drywell flange /* Kegelradgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, Drywell Flansch mit Schrumpfscheibe
KT..00..	**Konik-Helisel tip redüktörler, motorsuz ve mil girişli, delik milli çıkış** / *Bevel-Helical type geared motors , Solid input shaft without motor, Hollow shaft output /* Kegelradgetriebe, Eingang mit Vollwelle ohne Motor, Ausgang mit Hohlwelle.
KT..01..	**Konik-Helisel tip redüktörler, motorsuz ve mil girişli, milli çıkış** / *Bevel-Helical type geared motors, Solid input shaft without motor, solid output shaft* / Kegelradgetriebe, Eingang mit Vollwelle ohne Motor, Ausgang mit Vollwelle.
KT..02..	**Konik-Helisel tip redüktörler, motorsuz ve mil girişli, mil ve flanş çıkışlı** / *Bevel-Helical type geared motors, Solid input shaft without motor, Solid output shaft and output flange* / Kegelradgetriebe, Eingang mit Vollwelle ohne Motor, Ausgang mit Vollwelle und Flasch.
KT..03..	**Konik-Helisel tip redüktörler, motorsuz ve mil girişli, delik milli ve flanş çıkışlı** / *Bevel-Helical type geared motors, Solid input shaft without motor, Hollow output shaft and output flange* / Kegelradgetriebe,Eingang mit Vollwelle ohne Motor, Ausgang mit Hohlwelle und Flansch.
KT..04..	**Konik-Helisel tip redüktörler,motorsuz ve mil girişli, çift çıkış milli /** *Bevel-Helical type gerboxes, Solid input shaft without motor, double output shaft, /* Kegelradgetriebe, Eingang mit Vollwelle ohne Motor, mit doppelter Ausgangswelle
KT..05..	**Konik-Helisel tip redüktörler, motorsuz ve mil girişli, çift milli ve çift flanş çıkışlı** / *Bevel-Helical type geared motors, Solid input shaft without motor, double hollow output shaft and double flange output. /* Kegelradgetriebe,VEingang mit Vollwelle ohne Motor, Ausgang mit Hohlwelle und Flansch.
KT..08..	**Konik-Helisel tip redüktörler, motorsuz ve mil girişli, delik milli ve çift flanş çıkışlı** / *Bevel-Helical type geared motors, Solid input shaft without motor, double hollow output shaft and double flange output. /* Kegelradgetriebe,Eingang mit Vollwelle ohne Motor, Ausgang mit Hohlwelle und Flansch.
KT..0K..	**Konik-Helisel tip redüktörler, motorsuz ve mil girişli,delik milli ve çoklu kamalı** / *Bevel-Helical type geared motors, Solid input shaft without motor, splined hollow output shaft* / Kegelradgetriebe, Eingang mit Vollwelle ohne Motor, Hohlwelle mit Vielkeilverzahnung
KT..1K..	**Konik-Helisel tip redüktörler, motorsuz ve mil girişli, mil çıkışlı ve çoklu kamalı /** *Bevel-Helical type geared motors, Solid input shaft without motor, splined solid output shaft /* Kegelradgetriebe, Eingang mit Vollwelle ohne Motor,Vollwelle mit Vielkeilverzahnung
KT..0S..	**Konik-Helisel tip redüktörler, motorsuz ve mil girişli, sıkma bilezik çıkışlı/** *Bevel-Helical type geared motors Solid input shaft without motor,Shrink disk output /* Kegelradgetriebe, Eingang mit Vollwelle ohne Motor, Ausgang mit Schrumpfscheibe
KTE..0E..	**Konik-Helisel tip motorlu redüktörler, motorsuz ve mil girişli, ekstruder çıkışlı /** *Bevel-Helical type geared motors Solid input shaft without motor, extruder output /* Kegelradgetriebe, Eingang mit Vollwelle ohne Motor, Ausgang mit Extruder
KTB..0A..	**Konik-Helisel tip redüktörler, motorsuz ve mil girişli, drywell boğazlı ve delik milli** / *Bevel-Helical type geared motors, Solid input shaft without motor, hollow output shaft with drywell flange* / Kegelradgetriebe, Eingang mit Vollwelle ohne Motor,Drywell Flansch mit Hohlwelle
KTB..1A..	**Konik-Helisel tip redüktörler, motorsuz ve mil girişli, drywell boğazlı ve mil çıkışlı** / *Bevel-Helical type geared motors, Solid input shaft without motor, solid output shaft with drywell flange /* Kegelradgetriebe, Eingang mit Vollwelle ohne Motor, Drywell Flansch mit Vollwelle
KTB..SA..	**Konik-Helisel tip redüktörler, motorsuz ve mil girişli, drywell boğazlı ve sıkma bilezikli çıkışlı** / *Bevel-Helical type geared motors, Solid input shaft without motor, shrink disc output with drywell flange /* Kegelradgetriebe, Eingang mit Vollwelle ohne Motor, Drywell Flansch mit Schrumpfscheibe

Tip Tanımlaması / *Unit Designation /* Typenbezeichnungen

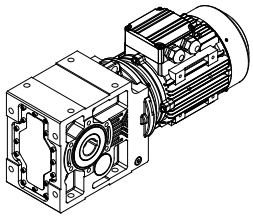
KR..00 	**KT..00** 	**KV..00** 	**KN..00** 
KR..01R 	**KT..01R** 	**KV..01R** 	**KN..01R** 
KR..01L 	**KT..01L** 	**KV..01L** 	**KN..01L** 
KR..02R 	**KT..02R** 	**KV..02R** 	**KN..02R** 
KR..02L 	**KT..02L** 	**KV..02L** 	**KN..02L** 
KR..03R 	**KT..03R** 	**KV..03R** 	**KN..03R** 
KR..03L 	**KT..03L** 	**KV..03L** 	**KN..03L** 
KR..04 	**KT..04** 	**KV..04** 	**KN..04** 
KR..05 	**KT..05** 	**KV..05** 	**KN..05** 
KR..08 	**KT..08** 	**KV..08** 	**KN..08** 

KR..0SR 	KT..0SR 	KV..0SR 	KN..0SR 
KR..0SL 	KT..0SL 	KV..0SL 	KN..0SL 
KRE..0ER 	KTE..0ER 	KVE..0ER 	KNE..0ER 
KRE..0EL 	KTE..0EL 	KVE..0EL 	KNE..0EL 
KR..0K 	KT..0K 	KV..0K 	KN..0K 
KR..1KR 	KT..1KR 	KV..1KR 	KN..1KR 
KR..1KL 	KT..1KL 	KV..1KL 	KN..1KL 
KRB..0AR 	KTB..0AR 	KVB..0AR 	KNB..0AR 
KRB..0AL 	KTB..0AL 	KVB..0AL 	KNB..0AL 
KRB..1AR 	KTB..1AR 	KVB..1AR 	KNB..1AR 



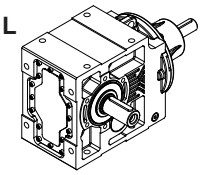
KRB..1AL 	**KTB..1AL** 	**KVB..1AL** 	**KNB..1AL** 
KRB..SAR 	**KTB..SAR** 	**KVB..SAR** 	**KNB..SAR** 
KRB..SAL 	**KTB..SAL** 	**KVB..SAL** 	**KNB..SAL** 

Örnek Tip Tanımlamaları
KR273.00-3E90S/4-L05



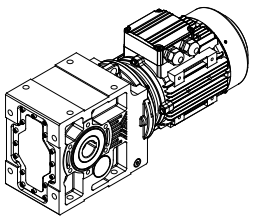
K.....: K serisi redüktör
R.....: Motor bağlantılı
2.....: Gövde büyüklük
7.....: Revizyon numarası
3.....: Kademe sayısı
00.....: Delik mil çıkışlı
3.....: Verim Sınıfı IE3
E.....: Motor tipi
90S/4.....: Motor büyüklüğü
L05.....: Fren Tipi

KT373.01L



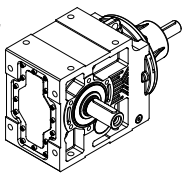
K.....: K serisi redüktör
T.....: Motorsuz giriş milli
3.....: Gövde büyüklüğü
7.....: Revizyon numarası
3.....: Kademe sayısı
01.....: Mil çıkışlı
L.....: Sol mil çıkışlı
R.....: Sağ mil çıkışlı

Sample Designations
KR273.00-3E90S/4-L05



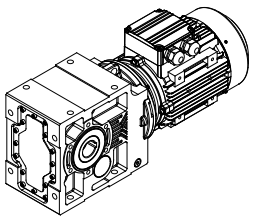
K.....: *K serie of gearbox*
R.....: *Direct motor coupled*
2.....: *Gear unit size*
7.....: *Revision number*
3.....: *Stage number*
00.....: *Hollow shaft output*
3.....: *Efficiency class IE3*
E.....: Motor type
90S/4.....: *Motor frame size*
L05.....: *Brake type*

KT373.01L



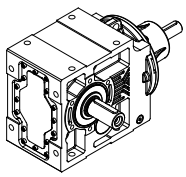
K.....: *K series of gearbox*
T.....: *Solid input shaft*
3.....: *Gear unit size*
7.....: *Revision number*
3.....: *Stage number*
01.....: *Solid output shaft*
L.....: *Left side output shaft*
R.....: *Right side output shaft*

Typenbezeichnungsbeispiele
KR273.00-3E90S/4-L05

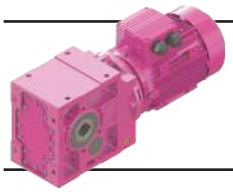


K.....: K Serie Getriebe
R.....: Motorverbindung
2.....: Größe von Gehäuse
7.....: Änderungsnummer
3.....: Stufenanzahl (2 stufig)
00.....: Hohlausgangswelle
3.....: Effizienzklasse IE3
E.....: Motortyp
90S/4.....: Motorbaugröße
L05.....: Bremse

KT373.01L



K.....: K Serie Getriebe
T.....: Vollwelleneingang ohne Motor
3.....: Größe der Gehäuse
7.....: Änderungsnummer
3.....: Stufenanzahl
01.....: Vollwelle
L.....: Ausgangswelle-links
R.....: Ausgangswelle-rechts

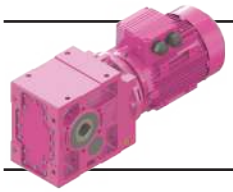


Motor Büyüklüğüne Göre Geometrik Mümkün Çevrim Oranları
Geometrically Possible Combinations of Ratios According to Motor Size
Geometrisch mögliche Kombinationen von Übersetzungen nach Motorbaugröße

		Motor Büyüklüğü / *Motor Size* / Motorbaugröße						
Tip Type Typ	**Kademe** *Stages* Stufen	**63**	**71**	**80**	**90**	**100**	**112**	**132**
KR002..	2	7,46-19,88	7,46-19,88	7,46-19,88	7,46-13,26	-	-	-
KR003..	3	23,79-120,91	23,79-120,91	23,79-29,95 45,41-57,16	23,79-29,95 45,41-57,15	-	-	-
KR102..	2	6,28-25,50	6,28-25,50	6,28-25,50	6,28-17,30	-	-	-
KR103..	3	20,03-129,27	20,03-129,27	20,03-76,13 116,34-129,27	20,03-76,13	-	-	-
KR173..	3	6,70-108,56	6,70-108,56	6,70-108,56	6,70-63,93	6,70-24,50; 32,10-56,45	6,70-7,77;13,93-16,15; 32,10-37,22	-
KR202..	2	6,38-23,79	6,38-23,79	6,38-23,79	6,38-23,79	6,38-15,26	6,38-10,57	-
KR203..	3	26,31-138,53	26,31-138,53	26,31-119,62	26,31-119,62	26,31-104,49	26,31-72,37	-
KR273..	3	6,94-113,65	6,94-113,65	6,94-113,65	6,94-83,48	6,94-72,92	6,94-50,51	6,94-9,92; 13,34-19,08; 25,55-36,55
KR275..	5	54,40-719,79	54,40-719,79	54,40-719,79	54,40-719,79	-	-	-
KR276..	6	735,5-1759,48	735,5-1759,48	735,42-1759,48	735,42-1759,48	-	-	-
KR283..	3	6,70-10,16; 14,12-21,42; 32,35-143,00	6,70-10,16; 14,12-21,42; 32,35-143,00	6,70-10,16; 14,12-21,42; 32,35-106,33	6,70-10,16; 14,12-21,42; 32,35-106,33	4,92-93,50	4,92-66,00	4,92-49,08
KR284..	4	122,22-353,22	122,22-353,22	122,22-353,22	122,22-353,22	-	-	-
KR285..	5	300,42-1052,64	300,42-1052,64	300,42-1052,64	300,42-1052,64	-	-	-
KR286..	6	820,35-3333,36	820,35-3333,36	820,35-3333,36	820,35-3333,36	-	-	-
KR373..	3	-	7,73-9,97 14,44-21,90 33,65-148,75	7,73-9,97 14,44-21,90 33,65-148,75	7,73-9,97 14,44-21,90 33,65-110,61	5,68-97,26	5,68-68,65	5,68-51,05
KR374..	4	127,14-367,43	127,14-367,43	127,14-367,43	127,14-367,43	-	-	-
KR375..	5	312,5-1094,97	312,5-1094,97	312,5-1094,97	312,5-1094,97	-	-	-
KR376..	6	853,34-3467,39	853,34-3467,39	853,34-3467,39	853,34-3467,39	-	-	-
KR473..	3	-	-	23,76-30,11 60,63-153,47	23,76-30,11 60,63-153,47	7,48-110,95	6,21-97,79	6,21-76,83
KR474..	4	-	160,79-472,63	160,79-472,63	160,79-472,63	160,75-207,41	160,79-181,88	-
KR475..	5	509,34-1767,9	509,34-1767,9	509,34-1767,9	509,34-1767,9	509,34-1142,99	509,34-844,06	-
KR476..	6	2183,54-5226,85	2183,54-5226,85	2183,54-5226,85	2183,54-5226,85	2183,54-3602,83	2183,54-3379,28	-
KR573..	3	-	-	-	22,77-25,78 ; 59,49-125,51	20,24-25,78 44,73-125,51	20,24-25,78 38,16-109,86	6,91-97,19
KR574..	4	-	117,96-469,74	117,96-469,74	117,96-469,74	117,96-328,56	117,96-158,64 246,42	117,96
KR575..	5	507,09-2236,28	507,09-2236,28	507,09-2236,28	507,09-2236,28	-	-	-
KR576..	6	2328,84-6611,61	2328,84-6611,61	2328,84-6611,61	2328,84-6611,61	-	-	-
KR673..	3	-	-	-	80,38-90,21 ; 127,16	80,38-127,16	80,38-127,16	8,31-14,49 18,74-127,16
KR674..	4	-	-	123,38-363,81	123,38-363,81	123,38-363,81	123,38-321,51	123,38
KR675..	5	-	531,08-1875,03	531,08-1875,03	531,08-1875,03	423,90-1875,03	423,90-809,27	423,90-724,08
KR676..	6	-	1884,33-12680,66	1884,33-12680,66	1884,33-12680,66	1884,33-5445,72	1884,33-3844,04	1884,33-2858,39
KR773..	3	-	-	-	88,57-99,00	111,63	88,57-111,63	11,44-12,89 23,52-26,52 45,36-111,63
KR774..	4	-	-	127,11-396,00	127,11-396,00	127,11-396,00	127,11-396,00	127,11-311,14
KR775..	5	-	547,17-2066,04	547,17-2066,04	547,17-2066,04	436,74-2066,04	436,74-833,78	436,74-655,11
KR776..	6	-	1941,39-15618,73	1941,39-15618,73	1941,39-15618,73	1941,39-5610,63	1941,39-3960,44	1941,39-2944,95
KR873..	3	-	-	-	92,80-103,24	92,80-115,87	92,80-115,87	49,75-115,87
KR874..	4	-	-	-	-	86,63-438,70	86,63-383,99	86,63-339,7
KR875..	5	-	463,83-1891,08	463,83-1891,08	463,83-1891,08	463,83-1891,08	463,83-1671,18	463,83-1313,07
KR876..	6	-	2074,42-12789,19	2074,42-12789,19	2074,42-12789,19	2074,42-11245,67	2074,42-7938,12	2074,42-5902,70
KR973..	3	-	-	-	-	-	-	-
KR974..	4	-	-	-	-	134,57-398,92	134,57-398,92	134,57-398,92
KR975..	5	-	-	715,34-1585,92	715,34-1585,92	460,51-1585,92	460,51-1585,92	361,44-1585,92
KR976..	6	-	-	1985,89-15680,79	1985,89-15680,79	1985,89-8652,97	1985,89-6741,12	1985,89-4189,63

Motor Büyüklüğüne Göre Geometrik Mümkün Çevrim Oranları
Geometrically Possible Combinations of Ratios According to Motor Size
Geometrisch mögliche Kombinationen von Übersetzungen nach Motorbaugröße

Tip Type Typ	Kademe *Stages* Stufen	**Motor Büyüklüğü** / *Motor Size* / Motorbaugröße 160	180	200	225	250	280	315
KR002..	2	-	-	-	-	-	-	
KR003..	3	-	-	-	-	-	-	
KR102..	2	-	-	-	-	-	-	
KR103..	3	-	-	-	-	-	-	
KR173..	3	-	-	-	-	-	-	-
KR202..	2	-	-	-	-	-	-	
KR203..	3	-	-	-	-	-	-	
KR273..	3	-	-	-	-	-	-	
KR275..	5	-	-	-	-	-	-	
KR276..	6	-	-	-	-	-	-	
KR283..	3	4,92-5,74; 10,37-12,10; 23,76-27,74	4,92-5,74; 10,37-12,10; 23,76-27,74	-	-	-	-	
KR284..	4	-	-	-	-	-	-	
KR285..	5	-	-	-	-	-	-	
KR286..	6	-	-	-	-	-	-	
KR373..	3	-	-	-	-	-	-	
KR374..	4	-	-	-	-	-	-	
KR375..	5	-	-	-	-	-	-	
KR376..	6	-	-	-	-	-	-	
KR473..	3	6,21-23,19 ; 25,15 39,11-59,19 ; 64,17	6,21-11,87 ;15,33-20,07 39,11-51,22	-	-	-	-	
KR474..	4	-	-	-	-	-	-	
KR475..	5	-	-	-	-	-	-	
KR476..	6	-	-	-	-	-	-	
KR573..	3	6,91-82,14	6,91-67,37	6,91-18,80 30,25-35,34	-	-	-	
KR574..	4	-	-	-	-	-	-	
KR575..	5	-	-	-	-	-	-	
KR576..	6	-	-	-	-	-	-	
KR673..	3	8,31-100,90	8,31-90,21	8,31-68,47	8,31-9,45 16,54-21,32 39,26-44,65	-	-	
KR674..	4	-	-	-	-	-	-	
KR675..	5	423,9-489,82	423,9	-	-	-	-	
KR676..	6	-	-	-	-	-	-	
KR773..	3	7,41-111,63	7,41-99,00	7,41-76,59	7,41-51,13	7,41-51,13	7,41-9,83 ; 15,25-20,23 ; 29,40-39,00	7,41-9,83 ; 15,25-20,23 ; 29,40-39,00
KR774..	4	-	-	-	-	-	-	
KR775..	5	-	-	-	-	-	-	
KR776..	6	-	-	-	-	-	-	
KR873..	3	11,05-13,93 19,26-24,28 34,28-115,87	11,05-13,93 19,26-24,28 34,28-103,24	9,63-81,06	9,63-55,53	9,63-55,53	9,63-43,22	
KR874..	4	86,63-235,47	86,63-235,47	-	-	-	-	
KR875..	5	-	-	-	-	-	-	
KR876..	6	-	-	-	-	-	-	
KR973..	3	14,65-18,73 24,73-31,63 42,86-146,20	14,65-18,73 24,73-31,63 42,86-130,38	11,69-103,87	11,69-71,60	11,69-71,60	11,69-54,80	11,69-54,80
KR974..	4	134,57-181,51	134,57-151,03	-	-	-	-	-
KR975..	5	361,44-715,34	361,44-586,70	-	-	-	-	-
KR976..	6	2348,01	-	-	-	-	-	-



Servis Faktörü

Servis faktörü (fs) redüktörün çalıştığı şartlar ile uyumlu olması için gerekli olan emniyet katsayısıdır. ‘‘fs =1’’ Düzgün ve sakin yüklerde, günlük sekiz saat ve saatte yüz start çalışmayı karşılar.

Aşağıdaki etkenlere bağlıdır:

- Günlük çalışma süresi
- Yük sınıfı
- Bir saatteki start sayısı
- Redüktör tahrik tipi
- Diğer gözlemler

Bu etkenleri göz önüne aldığımızda, gerekli servis faktörünü belirlemek için:
1. Makinanın günlük çalışma süresini tespit ediniz.
2. Makinanın ne türde yükler verdiğini tespit ediniz (Sayfa 17-18).

U - Düzgün ve sabit yükler
M - Orta darbeli yükler
H - Ağır darbeli yükler

Yük sınıfının daha teknik seçimi için rotora indirgenmiş toplam atalet momenti formülünden faydalanabilirsiniz (Sayfa 18).
3. Saatteki start sayısını tespit ediniz.
4.İlk üç maddeye bağlı servis faktörünü aşağıdaki tablodan seçiniz.

5. fs Redüktürümüzün tahrik tipine bağlı olarak “k” katsayısı ile çarpılarak arttırılır.

k=1 :Elektrik motoru veya hidromotor
k=1.25 :İçten yanmalı çok silindirli motor

k=1.5 :İçten yanmalı tek silindirli motor

Service Factor

Service Factor (fs) is a safety coefficient, which takes into account the different running conditions of the driven machine.'' fs=1'' is used for uniform loads 8 hours working per day and up to 100 starts per hour.

Service factor depends on:

- *Running time*
- *Nature of load*
- *Frequency of starting*
- *Driver type*
- *Other considerations*

For the right selection of the needed service factor for your machine;
1. Determine the running time of driven machine.

2. Select the nature of load of driven machine (Page 17-18).

U - Uniform loads
M - Moderate loads
H - Heavy shock loads

For a better selection, the nature of load can be calculated from the formulas given (page 18).

3. Determine frequency of starting.
4. After determining the above mentioned factors, the service factor can be easily selected from the table given bellow.
5. The selected service factor multiplied with the factor ''k'' according to the driver type;

k=1 :Electric motor or Hydrolicmotor
k=1.25 :Multicylinder internal combustion engine
k=1.5 :Single cylinder internal combustion engine

Betriebsfaktor

Der Betriebsfaktor (fs) ist ein Sicherheitsfaktor für die Getriebe, damit sie unter den Betriebsbedingungen sicher arbeiten. ‘‘fs =1’’ steht für gleichförmige Belastung, 8 Studen pro Tag und bis zu 100 Schaltungen pro Stunde.

Betriebsfaktor ist abhängig von:

- Betriebsdauer
- Belastungsart
- Schalthäufigkeit
- Antriebsart
- Andere Faktoren

Um die richtigen Betriebsfaktor festzulegen;

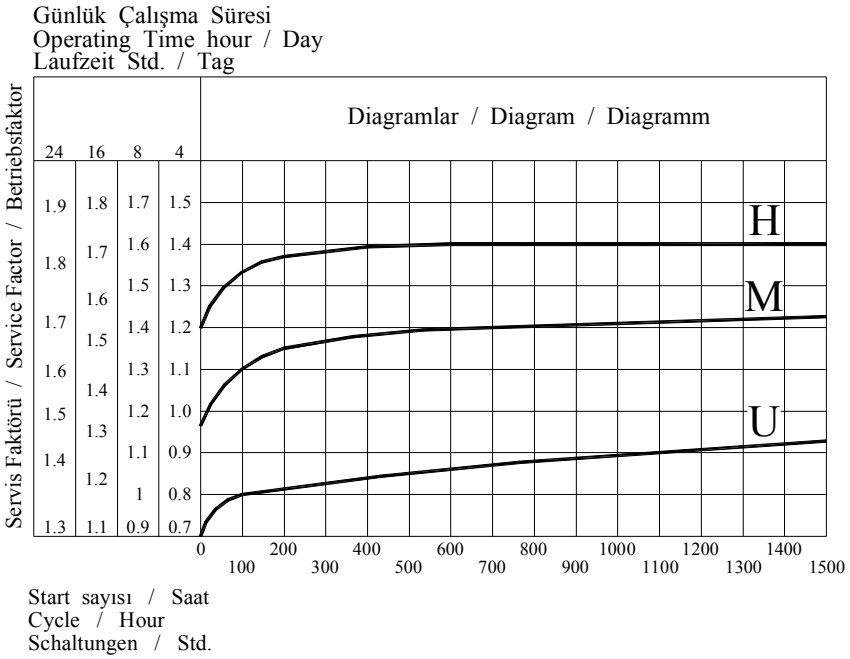
1. Betriebsdauer der angetriebenen Maschine bestimmen.
2. Belastungsart der angetriebenen Maschine auswählen.

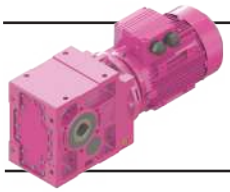
U - Gleichförmige Belastung
M - Ungleichförmige Belastung
H - Stark Ungleichförmige Belastung

Um eine bessere Auswahl zu treffen, können die Belastungsarten mit den angegebenen Formeln (Seite 18) errechnet werden.
3. Schalhäufigkeit bestimmen.
4. Nach Bestimmen der oben angegebenen Werte, können die Betriebsfaktoren von der unten stehenden Tabelle entnommen werden.
5. Der ausgewählte Betriebsfaktor muß mit dem Faktor ‘‘k’’ abhängig von der Antriebsart multipliziert werden

k=1 :Elektromotor oder Hydraulikmotor
k=1.25 :Vielzylindermotor

k=1.5 :Einzylindermotor





Yük Sınıflandırması

Krenler:

U - Kaldırma Dişlileri
- Palanga Dişlileri

M - Bomlu Vinç Dişlileri
- Yana Döndürme Dişlileri

H - Yürütme Dişlileri

Pompalar:

U - Santrifuj Pompalar (ince sıvı)
M - Santrifuj Pompalar (yarı sıvı)
H - Basınçlı Pompalar
- Dalgıç Pompalar

Taş ve Kil İşleme Makinaları:

H - Çekiçli Değirmenler
- Döner Fırınlar
- Dövücü Değirmenler
- Kırıcılar
- Küreli Değirmenler
- Tuğla Presi
- Tüp Değirmenler

Tekstil Makinaları:

M - Basma ve Boyama Makinaları
- Dokuma Tezgahları
- Hallac Makinaları
- Harman Makinaları
- Taneleme (Debegat)Tekneleri

Yağ Sanayi:

M - Besleme Pompaları
- Döner Delme Teçhizatları

Yiyecek Sanayi:

M - Kutu Bıçaklar
- Kutu Kaplama
- Mayalama Tekneleri

H - Kenar Açma

Çamaşır Yıkama Makinaları:

M - Döner Kurutucular
- Yıkama Makinaları

Hadde Makinaları:

M - Hız Ayarlı Silindirler
- Sabit Silindirler
- Sarma Makaraları
- Tel Çekme

H - Çubuk Kesme Makinaları
- Döner Tablalar (büyük)
- Kabuk Sıyırma Makinaları
- Plaka Haddeleme
- Silindir Haddeleme
- Soğuk Haddeleme

Load Classification

Cranes:

U - Hoist Gears
- *Lifting Gears*

M - Defrocking jib Gears
- *Slowing Gears*

H - Travelling Gears

Pumps:

U - Centrifugal Pumps (light liquids)
M - Centrifugal Pumps (semi liquid)
H - Pressure Pumps
- *Plunger Pumps*

Stone and Clay Working Machines:

H - Hammer Mills
- *Rotary Kilns*
- *Beater Mills*
- *Breakers*
- *Ball Mills*
- *Brick Presses*
- *Tup Mills*

Textile Machines:

M - Printing and Dyeing Machines
- *Looms*
- *Willow*
- *Batchers*
- *Tanning Vats*

Oil Industry:

M - Pipeline Pumps
- *Rotary Drilling Equipment*

Food Industry:

M - Cane Knives
- *Cane Crushers*
- *Mach Tubs*

H - Cane Mills

Laundries:

M - Tumblers
- *Washing Machines*

Metal Rolling Mills:

M - Roller Adjustment Drives
- *Roller Straightened*
- *Winding Machines*
- *Wire Drawing Benches*

H - Billet Shears
- *Rotary Tables (heavy)*
- *Descaling Machines,*
- *Sheet Mills*
- *Manipulators*
- *Cold Rolling Mills*

Belastungsart

Krananlagen:

U - Einziehwerke
- Hubwerke

M - Schwenkwerke
- Wippwerke

H - Fahrwerke

Pumpen:

U - Kreiselpumpen (leichte Flüssigkeit)
M - Kreiselpumpen (zahe Flüssigkeit)
H - Prebpumpen
- Plungerpumpen

Stein- und Erdebearbeitende Maschine

H - Hammermühler
- Drehofen
- Schlagmühlen
- Brecher
- Kugelmühlen
- Ziegelpressen
- Rohrmühlen

Textilmaschinen:

M - Drukerei
- Farbereimachinen
- Aufwickler
- Webstuhle
- Gerbfasser
- Reibwolfe

Erdölgewinnung:

M - Pipline Pumpen
- Rotative Bohranlagen

Nahrungsmittelmachinen:

M - Rohrschneiden
- Knetmaschinen
- Maichen

H - Rohrmühlen

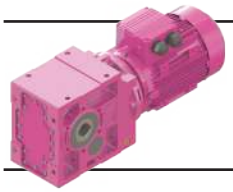
Waschereimaschinen:

M - Trommeltrockner
- Waschmaschinen

Wälzwerke:

M - Rollenrichtmaschinen
- Walzenantriebe
- Drahtzuge
- Haspeln

H - Blechscheren
- Rollgänge (schwer)
- Knüppelscheren
- Schöpfscheren
- Stranggubanlagen
- Kaltwälzwerke



Genel Bilgiler
General Information
Einführung

İnşaat Makinaları:

M - Beton Mikserleri
- Ağır Yük Asansörleri

Kağıt Makinaları:

H - Islak Presler
- Kağıt Hamur Makinaları
- Kurutma Silindirleri
- Perdahlama Silindirleri

Kauçuk Makinaları:

M - Kalenderler
- Mikserler

H - Extruderler
- Hamur Karma
- Silindirler

Kimya Sanayi:

M - Agidatörler (yarı sıvı)
- Kurutma Merdaneleri
- Mikserler ve Silindirleri

Konveyörler:

M - Bant Cepli Konveyörler
- Çelik Bantlı Konveyörler
- Dökme Yüklü Kayışlı Konv.

H - Yük Asansörleri
- Parça Yüklü Kayışlı Konv.

Building Machines:

M - Concreate Mixers
- *Hoist*

Paper Machines:

H - Wet Presses
- *Pulpers*
- *Drying Cylinders*
- *Glazing Cylinders*

Rubber Machinery:

M - Calenders
- *Mixers*

H - Extruders
- *Pug Mills*
- *Rolling Mills*

Chemical Ind.:

M - Aggidators (semi- liquit)
- *Drying Drums.*
- *Mixers and Rolling Mills*

Conveyors:

M - Band Pocket Conveyors
- *Steel Belt Conveyors*
- *Belt Conveyors*

H - Hoists
- *Bulk Belt Conveyors*

Baumaschinen:

M - Betonmischermaschinen
- Bauaufzüge

Papiermaschinen:

H - Naßpressen
- Gautschen
- Trockenzylinder
- Glattzylinder

Kunststoffmaschinen:

M - Kalender
- Mischer

H - Extruder
- Knetwerke
- Wälzwerke

Chemische İndustrie:

M - Rührwerke (leichte Flüssig.)
- Trockentrommeln
- Mischer und Wälzwerke

Förderanlagen:

M - Gurttaschenbecherwerke
- Stahlbandförderer
- Gurtbandförderer (Schüttgut)

H - Schrägaufzüge
- Gurtbandförderer(Stückgut)

U	**Uniform Yük** *Uniform Loads* Gleichförmige Last	$F_i < 0,25$
M	**Orta Darbeli Yük** *Moderate Loads* Ungleichförmige Last	$F_i < 3$
H	**Darbeli Yük** *Heavy Shock Loads* Stark Ungleichförmige Last	$F_i < 10$

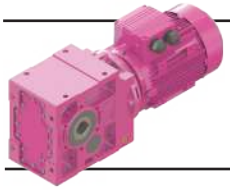
$$J'_{ext} = \frac{J_{ext}}{i^2}$$

$$F_i = \frac{J'_{ext}}{J_{rotor}}$$

J'_{ext} : **Motor miline indirgenmiş toplam dış atalet momenti**
External moments of inertia reduced to the motor shaft
Externe Massenträgheitsmomente reduziert auf Motorwelle

i : **Tahvil oranı**
Transmission ratio
Übersetzung

J_{rotor} : **Motorun atalet momenti**
Moments of inertia to the motor
Massenträgheitsmoment



Redüktör Dönüş Yönleri

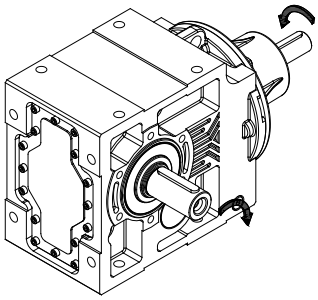
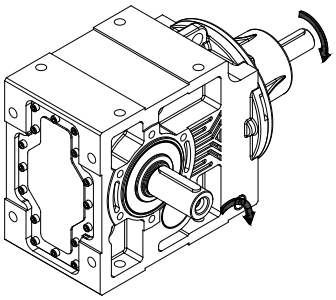
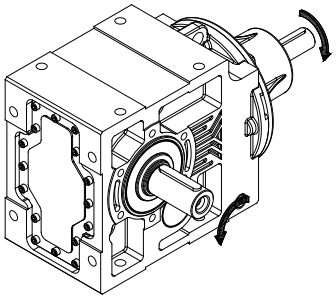
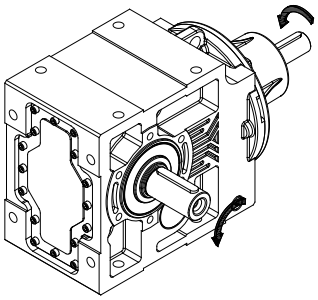
K Serisi ürünlerimiz için kullanılan yön tanımlaması aşağıdaki gibidir. Aşağıdaki tanımlama kilitli redüktörler için de geçerlidir.

Direction of Rotation

K Series direction of rotation of Yilmaz products are defined as follows. The definitions are also valid for gear units with backstop.

Getriebedrehrichtungen

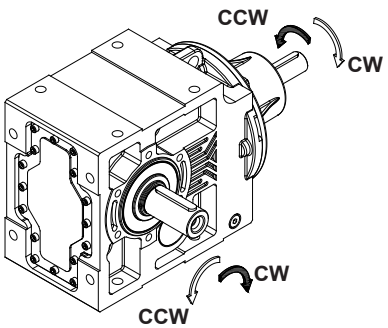
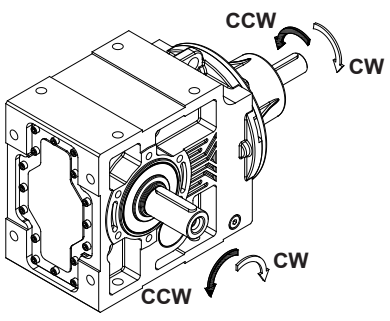
Die Drehrichtungen für K Serie Getriebe sind wie folgt definiert. Die Definition ist auch bei Getrieben mit Rücklaufsperre gültig.

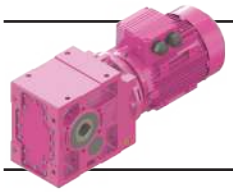
	3-5 Kademe / *3-5 Stages* / 3-5 Stufig	**2-4-6 Kademe** / *2-4-6 Stages* / 2-4-6 Stufig
Saat Yönünde *Clockwise* Rechtslauf **CW**		
Saat Tersi Yönünde Counter Clockwise Linkslauf **CCW**		

Giriş mili dönüş yönüne göre çıkış mili dönüş yönleri aşağıdaki gibidir.

Output shaft rotation directions according to the input shaft rotation directions are as follows.

Drehrichtungen der Abtriebswelle im Abhängigkeit von der Antriebswellen sind wie folgendes;

3-5 kademe / *3-5 Stages* / 3-5 Stufig	**2-4-6 Kademe** / *2-4-6 Stages* / 2-4-6 Stufig
	



Radyal Yükler

Çıkış miline gelebilecek radyal yükler yatak ömrüne göre belirlenmiş ve tablo halinde verilmiştir. Bu tabloda verilen F_{qam} güvenilir radyal yükü f_s=1 şartı ve yükün mil ortasını yüklediği durum için verilmiştir. Darbeli yüklerin olması durumunda daha önce verilmiş olan servis faktörü tablosundaki değerler dikkate alınmalıdır. Güvenilir aksiyal yük (F_{ama} veya F_{ame}) verilen güvenilir radyal yükün (F_{qam} veya F_{qem}) %25'i kadar alınır. Verilen radyal ve eksenel yükler kuvvetin en kötü açı şartında etkidiği durum için verilmiştir. Mil ortasına gelen kuvvetin açısına göre daha yüksek radyal yükler mümkündür (Firmamıza danışınız). Bağlantı şekline göre oluşan radyal yük Fq sayfa 21 de verilen formüller yardımı ile hesaplanır. Redüktör seçiminde ;

$$F_{qa} \le F_{qam}$$
$$F_{qe} \le F_{qem}$$

şartı göz önünde tutulmalı.Eğer etkiyen radyal kuvvet milin orta noktasında değil ise verilen güvenilir değerin aşağıda verilen formül ile düzeltilmesi gerekir.

$$F_{qam}' = F_{qam} \frac{t}{y+u}$$
$$F_{qem}' = F_{qem} \frac{t}{y+u}$$

"t", "y" Değerleri aşağıda verilmiştir. "u" Değeri görüldüğü gibi kuvvetin uygulama noktasıdır.

Overhung Loads

The permissible overhung loads are calculated by considering working life and is listed on the tables. The given permissible overhung loads F_{qam} are based on f_s=1 and are valid for forces which are applied to the midpoint of the shaft. For shock loading applications the service factor given on the table must take into consideration. The permissible axial load (F_{ama} or F_{ame}) is %25 x (F_{qam} or F_{qem}). The listed permissible overhung loads are based on the worst loading direction. Higher overhung loads can be applied for different loading directions (Please ask if requested). The effective overhung load at the gear box shaft Fq will be determined with the given formulas on page 21.
In Selection ;

$$F_{qa} \le F_{qam}$$
$$F_{qe} \le F_{qem}$$

these formulas must be taken into consideration. If the load is not applied at the midpoint of the shaft; the given permissible load must be corrected with the following formulas.

$$F_{qam}' = F_{qam} \frac{t}{y+u}$$
$$F_{qem}' = F_{qem} \frac{t}{y+u}$$

The values "t","y" can be taken from the below table. The value "u" is the lenght of the application point as shown below.

Querkräfte

Die in den nachfolgenden Tabellen angegebenen zulässigen Radialbelastungen F_{qam} gelten bei Kraftangriff auf die Mitte Wellenendes. Den Angaben liegt der Betriebsfaktor f_s=1 zu Grunde. Bei stoßartigen Belastungsfällen ist auch hier der entsprechende Betriebsfaktor zu berücksichtigen. Zulässige Axialkräfte F_{ama} oder F_{ame} können ohne weitere Nachrechnung bis zu einer Höhe von ca. 25% der zulässigen Radialbelastung F_{qam} oder F_{qem} aufgenommen werden. Bei der Ermittlung der zulässige Querkräfte sind höhere Werte möglich (Bitte Rückfragen). Die auftretende Querkraft Fq ab der Getriebewelle wird wie in der nachfolgenden Formel bestimmt.

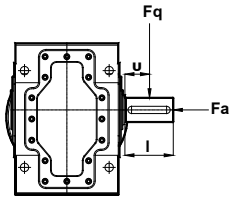
Bei dieser Auswahl;

$$F_{qa} \le F_{qam}$$
$$F_{qe} \le F_{qem}$$

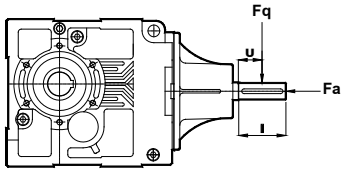
müßen die oben agegebenen Bedingungen berücksichtigt werden.Ist der Kraftangriff nicht auf Wellenmitte, so kann die zulässige Querkraft mit Hilfe der unten stehenden Formel auf jede beliebige Stelle umgerechnet werden.

$$F_{qam}' = F_{qam} \frac{t}{y+u}$$
$$F_{qem}' = F_{qem} \frac{t}{y+u}$$

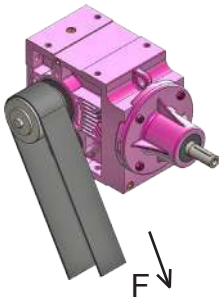
Die Werte "t" und "y" sind in den nacholgenden Tabellen angegeben. Der Wert "u" ist die Stelle des Kraftangriffs wie auf der nächsten Seite angegeben.



KR...01	Çıkış mili radyal kuvvet hesabı düzeltme katsayıları *Overhung Load correcting values on output shaft* Querkraft auf Ausgangswelle Korrigierungszahlen												
Tip *Type* Typ	**KR..002** **KR..003**	**KR..102** **KR..103**	**KR..173**	**KR..202** **KR..203**	**KR..273**	**KR..283**	**KR..373**	**KR..473**	**KR..573**	**KR..673**	**KR..773**	**KR..873**	**KR..973**
t	119	134	133.5	156	162	183	199	236	273	344	408	485	556
y	99	104	103.5	121	132	143	159	186	213	274	323	380	451
l	40	60	60	70	60	80	80	100	120	140	170	210	210



KT...	Giriş mili Radyal kuvvet hesabı düzeltme katsayıları *Overhung load correcting values on input shaft* Querkraft auf Eingangswelle korrigierungszahlen												
Tip *Type* Typ	**KT..002** **KT..003**	**KT..102** **KT..103**	**KT..173**	**KT..202** **KT..203**	**KT..273**	**KT..283**	**KT..373**	**KT..473**	**KT..573**	**KT..673**	**KT..773**	**KT..873**	**KT..973**
t	78	78	108.5	111	111	126	126	137	158	180	207	220	266.5
y	58	58	83.5	86	86	96	96	102	113	130	147	165	206.5
l	40	40	50	50	50	60	60	70	90	100	120	110	120



Radyal Yüklerin Hesabı

Radyal Yük Fq [N]'nun hesaplanmasında, gerekli tahrik momenti M [Nm], kasnak veya dişli çapı D [mm] olmak üzere aşağıdaki formüller kullanılır.

Calc. Of Overhung Loads

Radial Load Fq [N] is calculated with the following equations where required moment M [Nm] and hoop or gear diameter D [mm] is used.

Berechnung der Querkräfte

Der Fall der radialen Belastung Fq [N] kann mit den angegebenen Gleichungen berechnet werden. Antriebsmoment M [Nm] und Zahnrad- oder Riemenscheiben Durchmesser D [mm].

1

1. Elastik Kaplin
Çalışma sırasında oluşan sapmalar kaplinin güvenlik sınırları içinde ise kuvvetler ihmal edilebilir.

1. Elastic Coupling
If Elastic Coupling is working in its relaible working area, the overhung loads can be neglected.

1. Elastische Kupplung
Wenn die elastische Kupplung in ihrem zulässigen Arbeitsbereich arbeitet, können die radialen Belastungen vernachläßigt werden.

2

2. Düz Dişli
(20° kavrama açısı)

$$F_q = \frac{2100 \times M_2}{D}$$

2. For Spur Gear
(Pressure angle 20°)

$$F_q = \frac{2100 \times M_2}{D}$$

2. Stirnradgetriebe
(Angriffswinkel 20°)

$$F_q = \frac{2100 \times M_2}{D}$$

3

3. Küçük Hızlarda Zincir Dişli (z>17)

$$F_q = \frac{2100 \times M_2}{D}$$

3. For Chain Drive With Low Speed (z>17)

$$F_q = \frac{2100 \times M_2}{D}$$

3. Kettenantrieb mit niedriger Geschwindigkeit (z>17)

$$F_q = \frac{2100 \times M_2}{D}$$

4

4. Triger Kayış

$$F_q = \frac{2500 \times M_2}{D}$$

4. For Trigger Belt

$$F_q = \frac{2500 \times M_2}{D}$$

4. Zahnriemenantrieb

$$F_q = \frac{2500 \times M_2}{D}$$

5

5. V Kayış

$$F_q = \frac{5000 \times M_2}{D}$$

5. For V Belt

$$F_q = \frac{5000 \times M_2}{D}$$

5. Keilriemenantrieb

$$F_q = \frac{5000 \times M_2}{D}$$

6

6. Gerdirme Makaralı Kayış

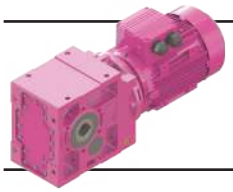
$$F_q = \frac{5000 \times M_2}{D}$$

6. Flat Belt With Spanning Pulley

$$F_q = \frac{5000 \times M_2}{D}$$

6. Flachriemenantrieb mit Spannungstrommel

$$F_q = \frac{5000 \times M_2}{D}$$



Ekstruder Tiplerde Müsade Edilebilir Eksenel Yükler
Permissible Axial Loads for Extruder Types
Zulässige Axialkräfte für Extruder Typ Getriebe

KRE273				
n_2	F_{ama} [kN]			
	Ömür / *Lifetime* / Lebensdauer **Lh [saat]** / *[hour]* / [Stunde]			
	40000	**20000**	**10000**	**5000**
20	27.0	33.3	41.0	50.5
30	23.9	29.5	36.3	44.7
40	22.0	27.0	33.3	41.0
50	20.5	25.3	31.1	38.4
65	19.0	23.4	28.8	35.5
80	17.8	22.0	27.0	33.3
100	16.7	20.5	25.3	31.1
120	15.8	19.4	23.9	29.5
140	15.1	18.6	22.9	28.2
160	14.5	17.8	22.0	27.0
180	14.0	17.2	21.2	26.1
200	13.5	16.7	20.5	25.3
220	13.2	16.2	20.0	24.6
240	12.8	15.8	19.4	23.9
260	12.5	15.4	19.0	23.4
280	12.2	15.1	18.6	22.9
300	12.0	14.8	18.2	22.4
320	11.8	14.5	17.8	22.0

n_2 : Çıkış Devri [d/dak]
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

KRE283				
n_2	F_{ama} [kN]			
	Ömür / *Lifetime* / Lebensdauer **Lh [saat]** / *[hour]* / [Stunde]			
	40000	**20000**	**10000**	**5000**
20	104.8	129.0	158.8	195.6
30	92.7	114.2	140.6	173.2
40	85.1	104.8	129.0	158.8
50	79.6	98.0	120.6	148.5
65	73.5	90.5	111.5	137.3
80	69.1	85.1	104.8	129.0
100	64.6	79.6	98.0	120.6
120	61.2	75.3	92.7	114.2
140	58.4	71.9	88.5	109.0
160	56.1	69.1	85.1	104.8
180	54.2	66.7	82.1	101.1
200	52.5	64.6	79.6	98.0
220	51.0	62.8	77.3	95.2
240	49.7	61.2	75.3	92.7
260	48.5	59.7	73.5	90.5
280	47.4	58.4	71.9	88.5
300	46.5	57.2	70.4	86.7
320	45.6	56.1	69.1	85.1

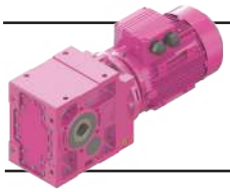
n_2 : Çıkış Devri [d/dak]
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

KRE373				
n_2	F_{ama} [kN]			
	Ömür / *Lifetime* / Lebensdauer **Lh [saat]** / *[hour]* / [Stunde]			
	40000	**20000**	**10000**	**5000**
20	104.8	129.0	158.8	195.6
30	92.7	114.2	140.6	173.2
40	85.1	104.8	129.0	158.8
50	79.6	98.0	120.6	148.5
65	73.5	90.5	111.5	137.3
80	69.1	85.1	104.8	129.0
100	64.6	79.6	98.0	120.6
120	61.2	75.3	92.7	114.2
140	58.4	71.9	88.5	109.0
160	56.1	69.1	85.1	104.8
180	54.2	66.7	82.1	101.1
200	52.5	64.6	79.6	98.0
220	51.0	62.8	77.3	95.2
240	49.7	61.2	75.3	92.7
260	48.5	59.7	73.5	90.5
280	47.4	58.4	71.9	88.5
300	46.5	57.2	70.4	86.7
320	45.6	56.1	69.1	85.1

n_2 : Çıkış Devri [d/dak]
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

KRE473				
n_2	F_{ama} [kN]			
	Ömür / *Lifetime* / Lebensdauer **Lh [saat]** / *[hour]* / [Stunde]			
	40000	**20000**	**10000**	**5000**
20	134.5	165.6	203.9	251.1
30	119.0	146.6	180.5	222.3
40	109.2	134.5	165.6	203.9
50	102.1	125.7	154.8	190.7
65	94.4	116.2	143.1	176.2
80	88.7	109.2	134.5	165.6
100	82.9	102.1	125.7	154.8
120	78.5	96.7	119.0	146.6
140	75.0	92.3	113.7	140.0
160	72.0	88.7	109.2	134.5
180	69.5	85.6	105.4	129.8
200	67.3	82.9	102.1	125.7
220	65.4	80.6	99.2	122.2
240	63.8	78.5	96.7	119.0
260	62.2	76.6	94.4	116.2
280	60.9	75.0	92.3	113.7
300	59.6	73.4	90.4	111.3
320	58.5	72.0	88.7	109.2

n_2 : Çıkış Devri [d/dak]
Output Speed [rpm]
Abtriebsdrehzahl [U/min]



Ekstruder Tiplerde Müsade Edilebilir Eksenel Yükler
Permissible Axial Loads for Extruder Types
Zulässige Axialkräfte für Extruder Typ Getrieben

KRE573				
n_2	F_{ama} [kN]			
	Ömür / *Lifetime* / Lebensdauer **Lh [saat]** / *[hour]* / [Stunde]			
	40000	**20000**	**10000**	**5000**
20	172.0	211.8	260.8	779.6
30	152.3	187.5	230.9	715.9
40	139.7	172.0	211.8	673.9
50	130.6	160.8	198.1	643.1
65	120.7	148.7	183.0	608.6
80	113.4	139.7	172.0	582.6
100	106.1	130.6	160.8	555.9
120	100.4	123.7	152.3	535.0
140	95.9	118.1	145.4	518.0
160	92.1	113.4	139.7	503.6
180	88.9	109.5	134.8	491.3
200	86.1	106.1	130.6	480.6
220	83.7	103.1	126.9	471.0
240	81.5	100.4	123.7	462.5
260	79.6	98.0	120.7	454.8
280	77.9	95.9	118.1	447.8
300	76.3	93.9	115.6	441.3
320	74.8	92.1	113.4	435.4

n_2 : Çıkış Devri [d/dak]
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

KRE673				
n_2	F_{ama} [kN]			
	Ömür / *Lifetime* / Lebensdauer **Lh [saat]** / *[hour]* / [Stunde]			
	40000	**20000**	**10000**	**5000**
20	209.5	258.0	317.7	391.2
30	185.5	228.4	281.3	346.4
40	170.1	209.5	258.0	317.7
50	159.1	195.9	241.3	297.1
65	147.1	181.1	223.0	274.6
80	138.2	170.1	209.5	258.0
100	129.2	159.1	195.9	241.3
120	122.3	150.6	185.5	228.4
140	116.8	143.8	177.1	218.1
160	112.2	138.2	170.1	209.5
180	108.3	133.4	164.2	202.2
200	104.9	129.2	159.1	195.9
220	102.0	125.6	154.6	190.4
240	99.3	122.3	150.6	185.5
260	97.0	119.4	147.1	181.1
280	94.8	116.8	143.8	177.1
300	92.9	114.4	140.9	173.5
320	91.1	112.2	138.2	170.1

n_2 : Çıkış Devri [d/dak]
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

KR773				
n_2	F_{ama} [kN]			
	Ömür / *Lifetime* / Lebensdauer **Lh [saat]** / *[hour]* / [Stunde]			
	40000	**20000**	**10000**	**5000**
20	350.2	431.3	531.1	653.9
30	310.1	381.8	470.2	579.0
40	284.4	350.2	431.3	531.1
50	266.0	327.5	403.3	496.6
65	245.8	302.7	372.8	459.0
80	231.0	284.4	350.2	431.3
100	216.0	266.0	327.5	403.3
120	204.5	251.8	310.1	381.8
140	195.2	240.4	296.0	364.5
160	187.6	231.0	284.4	350.2
180	181.0	222.9	274.5	338.0
200	175.4	216.0	266.0	327.5
220	170.5	209.9	258.5	318.3
240	166.1	204.5	251.8	310.1
260	162.1	199.6	245.8	302.7
280	158.5	195.2	240.4	296.0
300	155.3	191.2	235.5	290.0
320	152.3	187.6	231.0	284.4

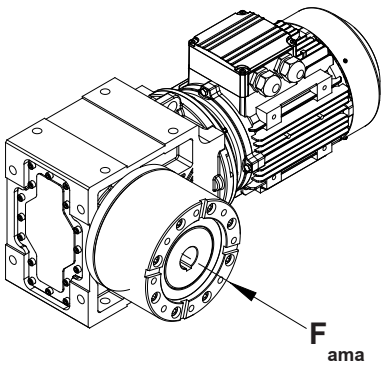
n_2 : Çıkış Devri [d/dak]
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

KRE873				
n_2	F_{ama} [kN]			
	Ömür / *Lifetime* / Lebensdauer **Lh [saat]** / *[hour]* / [Stunde]			
	40000	**20000**	**10000**	**5000**
20	403.4	496.7	611.7	753.2
30	357.1	439.8	541.5	666.9
40	327.6	403.4	496.7	611.7
50	306.3	377.2	464.5	572.0
65	283.1	348.7	429.3	528.7
80	266.0	327.6	403.4	496.7
100	248.8	306.3	377.2	464.5
120	235.5	290.0	357.1	439.8
140	224.9	276.9	341.0	419.9
160	216.0	266.0	327.6	403.4
180	208.5	256.8	316.2	389.4
200	202.0	248.8	306.3	377.2
220	196.3	241.8	297.7	366.6
240	191.3	235.5	290.0	357.1
260	186.7	229.9	283.1	348.7
280	182.6	224.9	276.9	341.0
300	178.9	220.3	271.2	334.0
320	175.4	216.0	266.0	327.6

n_2 : Çıkış Devri [d/dak]
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

KRE973				
n_2	F_{ama} [kN]			
	Ömür / *Lifetime* / Lebensdauer **Lh [saat]** / *[hour]* / [Stunde]			
	40000	**20000**	**10000**	**5000**
20	519.1	639.2	787.1	969.2
30	459.6	565.9	696.9	858.1
40	421.5	519.1	639.2	787.1
50	394.2	485.4	597.8	736.1
65	364.3	448.7	552.5	680.3
80	342.3	421.5	519.1	639.2
100	320.1	394.2	485.4	597.8
120	303.1	373.2	459.6	565.9
140	289.4	356.3	438.8	540.3
160	278.0	342.3	421.5	519.1
180	268.3	330.4	406.9	501.0
200	260.0	320.1	394.2	485.4
220	252.6	311.1	383.1	471.7
240	246.1	303.1	373.2	459.6
260	240.3	295.9	364.3	448.7
280	235.0	289.4	356.3	438.8
300	230.2	283.4	349.0	429.8
320	225.8	278.0	342.3	421.5

n_2 : Çıkış Devri [d/dak]
Output Speed [rpm]
Abtriebsdrehzahl [U/min]



Eşdeğer Güç Hesabı

Sabit devirde, ancak değişken momentlerde (güçlerde) çalışan redüktörler için eşdeğer tork altındaki, eşdeğer güç hesaplanabilir. Bu eşdeğer güç kullanılarak bilinen sabit güçteki redüktör seçim yöntemi kullanılarak seçim yapılabilir. Burada ağırlıklı torka göre eşdeğer anma torku belirlenmektedir. Hesaplanan bu güçte çalışan redüktör, teorik olarak, değişken yüklerde çalışan redüktör ile aynı emniyet değerine ve ömre sahiptir.

Bir çevrim boyunca oluşan değişken torklar, en yüksek torktan, en düşüğe doğru yatay zaman ekseni boyunca sıralanır (bakınız alttaki şekil). Bu şekile göre eşdeğer tork şu formül ile hesaplanır;

$$T_e = \left(\frac{\Delta t_1 \times T_1^{6.6} + ... + \Delta t_n \times T_n^{6.6}}{t}\right)^{\left(\frac{1}{6.6}\right)}$$

Eğer T_n değerleri (en düşük tork), T_e'nin 0,5 katının altında ise, bu tork dilimi yok sayılarak, işlem tekrarlanır;

Eğer $T_n < T_e \times 0.5$ ise

$$T_e = \left(\frac{\Delta t_1 \times T_1^{6.6} + ... + \Delta t_{n-1} \times T_{n-1}^{6.6}}{t - \Delta t_n}\right)^{\left(\frac{1}{6.6}\right)}$$

Tüm T_n değerleri T_e'nin 0,5 katının üzerinde ise, eşdeğer güç aşağıdaki gibi hesaplanır;

$$P_{eq} = P_N = \frac{T_e \times n}{9550}$$

Eşdeğer gücün bulunmasından sonra eşdeğer güç değeri kullanılarak, bu katalogda verilen redüktör seçimi bölümünde anlatılan adımlar uygulanarak redüktör seçimi tamamlanır.

Equivalent Power Rating Calculation

The equivalent power by an equivalent constant torque can be calculated for gearboxes working in constant speed but variable torques (or powers). Using this equivalent power it is possible to make a gearbox selection according the usual gearbox selection method with constant torques. The equivalent torque will be determined according the mean of dominating torques. The gearbox working in constant equivalent torque will theoretically have the same lifetime and safety compared to the variable torque one.
To calculate the equivalent torques, the variable torques in a cycle must be sorted from the maximal to the minimal on a horizontal time line (Check the graphic below). According to the graphic below the equivalent torque can be calculated with the following formula;

$$T_e = \left(\frac{\Delta t_1 \times T_1^{6.6} + ... + \Delta t_n \times T_n^{6.6}}{t}\right)^{\left(\frac{1}{6.6}\right)}$$

If T_n (the lowest torque) is lower than 50 % of T_e, this torque part must be taken out of the torque graph and the calculation must be repeated;

If $T_n < T_e \times 0.5$ then

$$T_e = \left(\frac{\Delta t_1 \times T_1^{6.6} + ... + \Delta t_{n-1} \times T_{n-1}^{6.6}}{t - \Delta t_n}\right)^{\left(\frac{1}{6.6}\right)}$$

If all T_n values are higher then 50% of T_e then the equivalent power can be calculated by the following formula;

$$P_{eq} = P_N = \frac{T_e \times n}{9550}$$

After the equivalent power is determined the selection of gearbox is made according to the selection procedures given on the gearbox selection part in this catalogue.

Berechnung äquivalenter Leistung

Die äquivalente Leistung bei äquivalenten Drehmoment kann für Getrieben mit konstanten Drehzahl und variablen Momente berechnet werden. Mit dieser Leistung kann das Getriebe ausgelegt werden, wie bei konstanten Leistung. Man bestimmt hiermit also die maßgebende Belastung. Das ausgelegte Getriebe erreicht theoretisch dem gleichen Lebensdauer und hat die gleiche Sicherheit.

Für die Berechnung der äquivalenten Drehmoment müssen die einzelnen Drehmomentanteile auf eine Zeitachse von größten bis zu kleinsten angeordnet werden (siehe unteres Bild). Das äquivalente Drehmoment wird nach folgender Formel berechnet;

$$T_e = \left(\frac{\Delta t_1 \times T_1^{6.6} + ... + \Delta t_n \times T_n^{6.6}}{t}\right)^{\left(\frac{1}{6.6}\right)}$$

Wenn T_n (niedrigstes Drehmoment) kleiner als 50% von T_e ist, muss dieser Anteil vernachlässigt werden und die Berechnung soll neu durchgeführt werden;

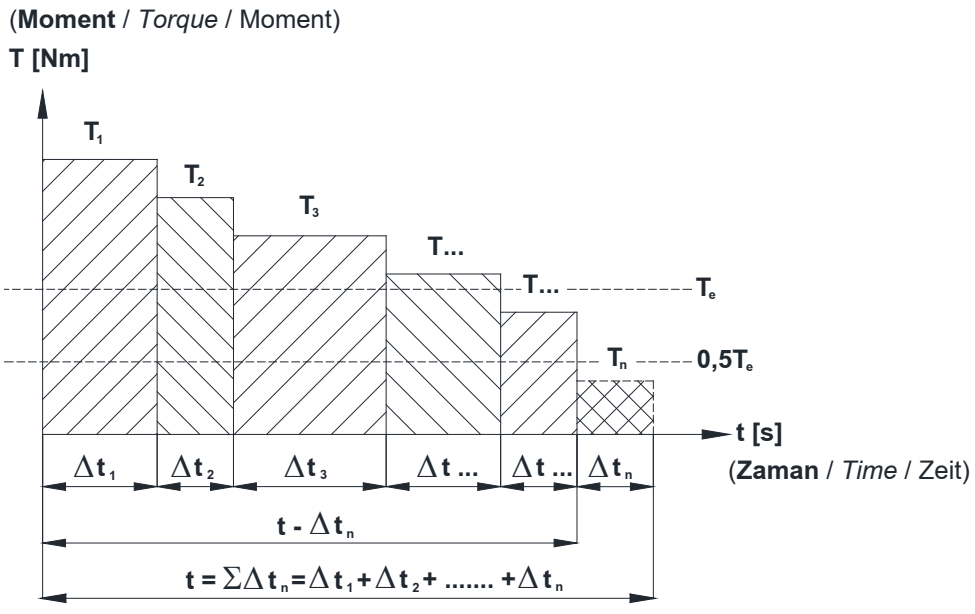
Wenn $T_n < T_e \times 0.5$ dann

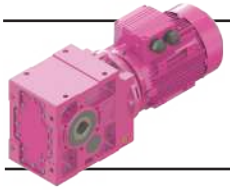
$$T_e = \left(\frac{\Delta t_1 \times T_1^{6.6} + ... + \Delta t_{n-1} \times T_{n-1}^{6.6}}{t - \Delta t_n}\right)^{\left(\frac{1}{6.6}\right)}$$

Wenn alle T_n Werte höher als 50% von T_e sind, dann wird die äquivalente Leistung nach folgender Formel berechnet;

$$P_{eq} = P_N = \frac{T_e \times n}{9550}$$

Nach Bestimmung der äquivalenter Leistung, erfolgt die Getriebeauslegung wie bei konstanter Leistung. Die Auswahlverfahren für konstante Leistung ist in diesem Katalog angegeben.





Eşdeğer Güç Hesabı Örneği

Çift yönlü çalışan ham demir haddesi için aşağıdaki çalışma koşulları belirlenmiş;

Veriler:
Toplam bir iş çevrimi: 2 dak.
1. Yük kademesi: 48 kNm, 30 sn
2. Yük Kademesi: 32 kNm, 22 sn
3. Yük Kademesi: 28 kNm, 15 sn
4. Yük Kademesi: 16 kNm, 10 sn
5. Yük Kademesi: 5 kNm, 43sn
Makina sabit devri: 50 d/dak
Redüktör seçimine esas olacak eşdeğer yük aranmaktadır.

Çözüm:
Bir çevrimin toplam zamanı;

$$t = t_1 + t_2 + t_3 + t_4 + t_5 = 120\ sn$$

Eşdeğer Tork;

$$T_e = \left(\frac{30 \times 48^{6,6} + \ ... \ + 43 \times 5^{6,6}}{120}\right)^{\left(\frac{1}{6,6}\right)}$$

=39,2 kNm

%50 eşdeğer tork;

$$0,5 \times T_e = 19,6 kNm$$

Her bir tork dilimi bu değerin üzerinde olmalı

$$T_{4,5} < 0,5 \times T_e$$

%50 torkun altındakileri çıkararak hesabı tekrarlayalım;

$$t' = t_1 - t_4 - t_5 = 120 - 43 - 10 = 67s$$

$$T_e = \left(\frac{30 \times 48^{6,6} + 22 \times 32^{6,6} + 15 \times 28^{6,6}}{67}\right)^{\frac{1}{6,6}}$$

=42,9 kNm

Moment ve devir değerlerini kullanarak eşdeğer gücümüzü hesaplayalım;

$$P_{eq} = \frac{T_e \times n}{9550} = \frac{42,9 \times 1000 \times 50}{9550} = 225kW$$

Yukarıdaki güç ve devir değeri kullanılarak bu katalogda anlatılan seçim prosedürü ile redüktör seçimi yapılabilir.

Equivalent Power Rating Sample

The following data is given for a reversing blooming mill;

Torque steps:
Total one cycle time: 2 min.
1st torque part: 48 kNm, 30 s
2nd torque part: 32 kNm, 22 s
3th torque part: 28 kNm, 15 s
4th torque part: 16 kNm, 10 s
5th torque part: 5 kNm, 43 s
Machine constant speed: 50 rpm
The equivalent power, which is required for gear unit selection, is to determine.

Solution:
Total time in a cycle;

$$t = t_1 + t_2 + t_3 + t_4 + t_5 = 120\ sn$$

Equivalent Torque;

$$T_e = \left(\frac{30 \times 48^{6,6} + \ ... \ + 43 \times 5^{6,6}}{120}\right)^{\left(\frac{1}{6,6}\right)}$$

=39,2 kNm

50% of Equivalent torque;

$$0,5 \times T_e = 19,6 kNm$$

Every torque part must be lower then this value;

$$T_{4,5} < 0,5 \times T_e$$

We are repeating the calculation by taking out the torque parts, which are below 50%;

$$t' = t_1 - t_4 - t_5 = 120 - 43 - 10 = 67s$$

$$T_e = \left(\frac{30 \times 48^{6,6} + 22 \times 32^{6,6} + 15 \times 28^{6,6}}{67}\right)^{\frac{1}{6,6}}$$

=42,9 kNm

By using the equivalent torque and constant speed we calculate the equivalent power;

$$P_{eq} = \frac{T_e \times n}{9550} = \frac{42,9 \times 1000 \times 50}{9550} = 225kW$$

Now by using the above calculated equivalent power and constant speed we camake the gear-box selection with the procedures described in this catalogue.

Beispiel für äquivalente Leistung

Die nachfolgenden Angaben sind für eine Blechreversierwalze;

Drehmoment stufen:
Gesamte Zeit für einem Arbeitszyklus: 2 min.
Drehmomentanteil 1: 48 kNm 30 s
Drehmomentanteil 2: 32 kNm 22 s
Drehmomentanteil 3: 28 kNm 15 s
Drehmomentanteil 4: 16 kNm 10 s
Drehmomentanteil 5: 5 kNm 43 s
Maschine hat konstante Drehzahl: 50 U/min
Gesucht ist die äquivalente Leistung, die für die Getriebeauslegung nötig ist.

Lösung:
Gesamte Zeit für einem Arbeitszyklus;

$$t = t_1 + t_2 + t_3 + t_4 + t_5 = 120\ sn$$

Äquivalentes Drehmoment;

$$T_e = \left(\frac{30 \times 48^{6,6} + \ ... \ + 43 \times 5^{6,6}}{120}\right)^{\left(\frac{1}{6,6}\right)}$$

=39,2 kNm

50% von äquivalenten Drehmoment;

$$0,5 \times T_e = 19,6 kNm$$

Drehmomentanteile müssen größer als dieser Wert sein;

$$T_{4,5} < 0,5 \times T_e$$

Wir wiederholen die Berechnung nochmals ohne die kleine Drehmomentanteile;

$$t' = t_1 - t_4 - t_5 = 120 - 43 - 10 = 67s$$

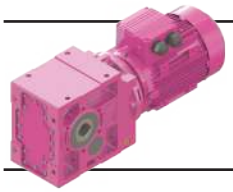
$$T_e = \left(\frac{30 \times 48^{6,6} + 22 \times 32^{6,6} + 15 \times 28^{6,6}}{67}\right)^{\frac{1}{6,6}}$$

=42,9 kNm

Mit Hilfe von äquivalenten Drehmoment und konstanter Drehzahl berechnet man die äquivalente Leistung;

$$P_{eq} = \frac{T_e \times n}{9550} = \frac{42,9 \times 1000 \times 50}{9550} = 225kW$$

Nach Bestimmung der äquivalente Leistung und konstanter Drehzahl, erfolgt die Getriebeauslegung dann wie die Getriebeauswahl gemäß dem in diesem Katalog beschriebenen Verfahren für konstante Leistung.



Redüktör Seçimi

Bir redüktör seçiminde aşağıdaki yol izlenmelidir.

1. Çalışma şartlarına bağlı olarak servis faktörünü (fs) belirleyiniz. (Servis Faktörü Sayfa 16).

2. Makinanız için gerekli olan momenti belirleyiniz M_2 (redüktör gerekli çıkış momenti).

3. Makinanızın devrini belirleyiniz n_2 (redüktör gerekli çıkış devri).

4. Makinanızın güç ihtiyacını (Redüktör çıkış gücünü) ''P_2'' hesaplayınız.

$$P_2 = \frac{M_2 \times n_2}{9550}$$

5. Redüktör ile makina arasında kullanılan bağlantı elemanına göre radyal yükü hesaplayınız. (Sayfa 20). Yukarıdaki verilere uygun olarak çıkış devri, değerlerine uyan servis faktörü ve radyal yükü bulduğunuzdan daha yüksek veya eşit olan redüktörü, güç-devir seçim tablolarından seçiniz. Helisel tip redüktörlerde verim yüksek olduğundan çıkış gücü verilmemiştir. Hesapladığınız güç değerini giriş gücü olarak kabul edip seçiminizi yapınız. Tablolarda verilen M_2 çıkış momentinin hesapladığınız M_2 den büyük olmasına dikkat ediniz. Eğer seçilen redüktörünki daha ufak ise bir üst motor gücüne geçiniz.

Örnek
1. Makina Cinsi:
Lastik bantlı konveyör , dökme yük taşıyor.

2. Makina için gerekli moment:
Makina için hesaplanan moment
M_2 = 470 Nm.

3. Makina gerekli çıkış devri:
n_2 = 50 dev/dak.

4. Günlük çalışma süresi:
16 saat.

5. Saatte start sayısı:
Saatte 1 start

6. Makina ile bağlantı şekli:
Zincir dişli (çap -130 mm)

- Yük sınıflandırma tablosundan yük sınıfı M olarak seçilir (sayfa 17-18)

- Günlük çalışma süresi 16 saat Saatte start sayısı 1 ve yük sınıfı M'ye tekabül eden servis faktörü tablosundan, servis faktörü için fs= 1.3 değeri bulunur.(sayfa 16)

- Makinanızın güç ihtiyacı (Redüktör Çıkış Gücü) :

$$P_2 = \frac{M_2 \times n_2}{9550} = \frac{470 \times 50}{9550} = 2,46\ kW$$

Gearbox Selection

For the correct selection of the appropriate gear units follow this steps.

1.Determine service factor (fs) on the basis of running conditions (Page 16).

2. Determine the required Torque M_2 (required output torque of gearbox) for the driven machine.
3. Determine required speed (output speed of gearbox) for the driven machine.

4. Calculate the required power for your machine(Calculate power ''P_2'' required at output side of gear reducer using the formula);

$$P_2 = \frac{M_2 \times n_2}{9550}$$

5. Calculate overhung load required at output shaft according to type of connection between gear unit and machine (Refer to directions and values given on page 20). After determining the above mentioned values, the gear reducer which corresponds to our requirements can be selected from the performance tables (the service factor and the permissible overhung load should be less than or equal to our requirement). For Helical gears the output power is not given on the performance tables because they have high efficiency and the output power can be taken as input power. The output torque should be checked if it meets to our requirements. If the output torque is low, search for a higher input power gearbox.

Example:
1. Machine Type:
Belt Conveyor (Bulk Load)

2. Required Torque:
Required Torque calculated for the driven machine is M_2=470 Nm.

3. Required speed:
n_2 = 50 rpm

4. Running time:
16 hours per day

5. Frequency of starting:
1 start per hour

6. Connection type between gear reducer
Chain drive (output dimension-130 mm)

- From the load classification table (on page 17-18), the load class M can be selected for the known application.
- The service factor can be selected as fs =1,3 from the service factor table (page 16) by taking into consideration 16 hours running time, one start per hour, and load class M.

-Required power for your machine(Power at output side of gear reducer) :

$$P_2 = \frac{M_2 \times n_2}{9550} = \frac{470 \times 50}{9550} = 2,46\ kW$$

Getriebeauswahl

Für die korrekte Auswahl des Antriebes;

1. Den Betriebsfaktor(fs) in Abhängigkeit von den Betriebsbedingungen bestimmen.(Bezug auf seite 16).

2. Die erforderte Drehmoment M_2 für die angetriebene Machine (Abtriebsdrehmoment für die Getriebe) bestimmen.
3. Erforderte Drehzahl bestimmen (Abtriebsdrehzahl für die Getriebe).

4. Berechnen der erforderte Leistung der angetriebene Maschine (Die an der Abtriebswelle erforderte Leistung''P_2'') mit der unten angegebenen Formel.

$$P_2 = \frac{M_2 \times n_2}{9550}$$

5. Die an der Getriebeabtriebswelle erforderte Querkraft in Abhängigkeit von Antriebselement bestimmen (Bezug auf Seite 20). Nach Bestimmen der oben angegebenen Werte, die passende Getriebe kann von den angegebenen Leistungstabellen entnommen werden. Dabei soll darauf geachtet werden, dass der Betriebsfaktor und Querkraft stets unterhalb von angegebenen Werten liegt. Weil Stirnradgetrieben einen hohen Wirkungsgrad haben, sind die Abtriebsleistungen für Stirnradgetrieben nicht angegeben. Bei dieser Getrieben die erforderte Leistung kann als Antriebsleistung benutzt werden. Achten sie darauf, dass der Abtriebsmoment größer als die erforderte Drehmoment ist.

Beispiel:
1. Maschinentyp:
Gurtbandförderer (Schüttgut)

2. Erforderte Drehmoment:
Für die Machine berechnete Drehmoment
M_2 = 470 Nm.

3. Erforderte Drehzahl:
n_2 = 50 upm

4. Betriebsdauer:
16 stunden pro Tag

5. Schalthäufigkeit:
1 Start pro Stunde

6. Antriebselement für verbindung
Getriebe-Machine:Kettentrieb(Durchmesser-130 mm)
- Von den Belastungsart Tabellen(Seite 17-18) nimmt man Belastungsart M

- Für den Schaltungzahl 1 und die Laufzeit16 und für den passenden Belastungsart erhält man Betriebsfaktor fs =1,3 von Tabelle auf seite 16.

- Erforderte Leistung der angetriebe Machine (Die an der Getriebeabtriebswelle erforderte Leistung)

$$P_2 = \frac{M_2 \times n_2}{9550} = \frac{470 \times 50}{9550} = 2,46\ kW$$

- Zincir dişli uygulaması için (Sayfa 21) Fq değeri;

$$F_q = \frac{2100 \times M_2}{D} = \frac{2100 \times 470}{130} = 7592\ N$$

- Ortaya çıkan redüktör ihtiyacı

$P_2 \geq$ 2,46 kW
$M_2 \geq$ 470 Nm
fs ≥ 1.3
$n_2 \approx$ 50 d/dak
Fq ≥ 7592 N

Güç ve devir sayfalarından,

KR373-3E100L/4D seçilir (Sayfa 77).

P_2=3kW > 2,46 kW
M_2= 537 Nm > 470 Nm
fs=1,5
n_2=50 d/dak
fq=14875 Nm > 7592 Nm
i=28,85

- For chain drive application the requested overhang load can be calculated from (page 21);

$$F_q = \frac{2100 \times M_2}{D} = \frac{2100 \times 470}{130} = 7592\ N$$

- The required gearbox is as follows:

$P_2 \geq$ 2,46 kW
$M_2 \geq$ 470 Nm
fs ≥ 1.3
$n_2 \approx$ 50 rpm
Fq ≥ 7592 N

From the performance table,

***KR373-3E100L/4D** selected (Page 77).*

P_2=3kW > 2,46 kW
M_2= 537 Nm > 470 Nm
fs=1,5
n_2=50 d/dak
fq=14875 Nm > 7592 Nm
i=28,85

- Für Kettentrieb die erforderte Querkraft (seite 21);

$$F_q = \frac{2100 \times M_2}{D} = \frac{2100 \times 470}{130} = 7592\ N$$

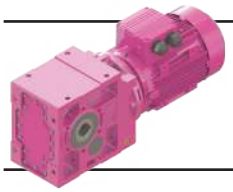
- Von den oben angegebenen Berechungen die erforderte Getriebe ist wie folgt;

$P_2 \geq$ 2,46 kW
$M_2 \geq$ 470 Nm
fs ≥ 1.3
$n_2 \approx$ 50 U/min
Fq ≥ 7592 N

Von der Leistung- DrahzahlTabelle ,

wurde **KR373-3E100L/4D** gewählt (Seite 77).

P_2=3kW > 2,46 kW
M_2= 537 Nm > 470 Nm
fs=1,5
n_2=50 d/dak
fq=14875 Nm > 7592 Nm
i=28,85



Redüktör Seçim Formu

Kullanıldığı Sektör.....
Kullanıldığı Yer.....
Gerekli Ortalama Devir.....d/dak

Makina ihtiyaç gücü:
-Normal..... kW
-En çok..... kW
-En az..... kW

Tahrik Şekli:
AC Motor [ ]
AC Motor + Invertör [ ]
DC Motor [ ]
Hidromotor [ ]
1-3 silindirli içten yanmalı [ ]
2-4 silindirli içten yanmalı [ ]

Motor Bağlantı Şekli (Elektrik Motorları):
IEC B5 Flanşlı [ ]
NEMA Flanşlı [ ]

IEC veya NEMA flanş kodu. .....

Motor Gücü:
-Nominal..... kW

Motor Devri:
-Normal..... d/dak
-En çok..... d/dak
-En az..... d/dak

Motor Torku:
-Normal..... Nm
-En çok..... Nm
-En az..... Nm

Dönüş şekli:
saat yönü [ ] saat yönüne ters [ ] değişken [ ]

Günlük çalışma süresi:
<4 [ ] 4-8 [ ] 8-16 [ ] >16 [ ]

Saatdeki start sayısı:
0-50 [ ] 50-100 [ ] 100-200 [ ]
200-300 [ ] 300-500 [ ] 500-700 [ ]
700-1000 [ ] >1000 [ ]

Motor Redüktör Arası Tahvil Oranı.....

Kalkış için gerekli moment.....Nm

Saatdeki pik moment adedi:
1-5 [ ] 6-30 [ ] 31-100 [ ] >100 [ ]

Bir çevrimde aktif çalışma oranı (ED):
%100 [ ] %80 [ ] %60 [ ] 40% [ ] %20[ ]

Deniz seviyesinden yükseklik:
<1000 [ ] <2000 [ ] <3000 [ ]
<4000 [ ] <5000 [ ]

Montaj yeri:
Küçük kapalı oda (w<1m/sn) [ ]
Kapalı oda (w<3m/sn) [ ]
Büyük oda ve holler (w>=3m/sn) [ ]
Tamamen açık ortam [ ]

Çevre Şartları:
Normal [ ] Tozlu [ ] Nemli [ ]
Korozif [ ] Kuru [ ]

Çevre Sıcaklığı:
Ortalama..... ^{0}C
En Yüksek..... ^{0}C
En Düşük..... ^{0}C

Kilit İhtiyacı:
Var [ ] Yok [ ]

Redüktör Giriş Opsiyonu:
R..[ ] V..[ ] N..[ ] T..[ ]

Redüktör Çıkış Opsiyonu:
00 [ ] 01 [ ] 02 [ ] 03 [ ] 04 [ ] 05 [ ] 08 [ ]
0S [ ] 0E [ ]

Montaj Pozisyonu:

M1 [ ] M2[ ] M3[ ] M4 [ ] M5 [ ] M6 [ ]

Giriş mili bağlantı şekli:
Elastik kaplin [ ]
Fıçı tipi kaplin [ ]
Rijit kaplin [ ]
Hidrolik Kaplin [ ]
Kayış kasnak [ ]
Zincir dişli [ ]
Pinyon dişli [ ]
Bağlantı elemanı çapı.....mm
Radyal yükü.....N
Radyal yük "u" mesafesi.....mm
Aksiyal yükü (mile doğru +).....N

Çıkış mili bağlantı şekli:
Elastik kaplin [ ]
Fıçı tipi kaplin [ ]
Rijit kaplin [ ]
Kayış kasnak [ ]
Zincir dişli [ ]
Pinyon dişli [ ]
Delik milli tork kollu [ ]
Sıkma bilezikli tork kollu [ ]
Bağlantı elemanı çapı.....mm
Radyal yükü.....N
Radyal yük "u" mesafesi.....mm
Aksiyal yükü (mile doğru +).....N

Çıkış Mili Özelliği:
Dolu Mil Kamalı [ ]
Dolu Mil Kamasız [ ]
Delik Milli Sıkma Bilezikli [ ]
Delik Milli [ ]
Özel Mil [ ]

Giriş Mili Özelliği:
Kamalı [ ]
Kamasız düz mil [ ]
Özel Mil [ ]
Tork kollu [ ] Var [ ] Yok

Elektrik Gerilimi:
AC-Monofaze [ ] AC-Trifaze [ ] DC [ ]
Voltaj.....Volt
Frekans.....Hz

Koruma Sınıfı:
IP55 [ ] IP65 [ ] Exproof [ ]
Diğer IP.....

Ekler:
Yük diyagramı [ ]
Proje [ ]
İstenen ana boyutlar [ ]
Teknik veriler [ ]

Diğer Notlar:

Gearbox Selection Form

Field of Industry.....
Application.....
Required Average Speed..... rpm

Required Power on Driven Machine:
-Normal..... kW
-Maximum..... kW
-Minimum..... kW

Driving Machine:
AC Motor [ ]
AC Motor + Inverter [ ]
DC Motor [ ]
Hydraulic Motor [ ]
Piston Engine with 1-3 cylinder [ ]
Piston Engine with 4-24 cylinder [ ]

Motor Connection Type (Electric Motors):
IEC B5 Flange [ ]
NEMA Flange [ ]

IEC or NEMA Flange Code.....

Motor Power:
-Nominal.....kW

Motor Speed:
-Normal.....rpm
-Maximum.....rpm
-Minimum.....rpm

Motor Torque:
-Normal.....Nm
-Maximum.....Nm
-Minimum.....Nm

Direction of Rotation:
cw [ ] ccw [ ] variable [ ]

Working hours per day:
<4 [ ] 4-8 [ ] 8-16 [ ] >16 [ ]

Startings per cycle:
0-50 [ ] 50-100 [ ] 100-200 [ ]
200-300 [ ] 300-500 [ ] 500-700 [ ]
700-1000 [ ] >1000 [ ]

Transmission ratio between motor and gear unit.....

Required Starting Torque.....Nm

Peak torques per hour:
1-5 [ ] 6-30 [ ] 31-100 [ ] >100 [ ]

Effective working time in a cycle (ED):
%100 [ ] %80 [ ] %60 [ ] 40% [ ]
20%[ ]

Altitude:
<1000 [ ] <2000 [ ] <3000 [ ]
<4000 [ ] <5000 [ ]

Mounting Place:
Small closed room (w<1m/sn) [ ]
Closed room (w<3m/sn) [ ]
Big rooms and halls (w>=3m/sn) [ ]
Outdoor [ ]

Ambient Conditions:
Normal [ ] Dusty [ ] Humid [ ]
Corrosive [ ] Dry [ ]

Ambient Temperature:
Average.....^{0}C
Maximum.....^{0}C
Minimum.....^{0}C

Backstop Required:
Yes [ ] No [ ]

Gearbox input options:
R..[ ] V..[ ] N..[ ] T..[ ]

Gearbox output options:
00 [ ] 01 [ ] 02 [ ] 03 [ ] 04 [ ] 05 [ ] 08 [ ]
0S [ ] 0E [ ]

Mounting Position:

M1 [ ] M2 [ ] M3 [ ] M4 [ ] M5 [ ] M6 [ ]

Input Shaft Connection Type:
Elastic Coupling [ ]
Barrel Type Coupling [ ]
Hydraulic Coupling [ ]
Rigid Flange Coupling [ ]
Pulley [ ]
Chain Sprocket [ ]
Pinion [ ]
Diameter of Connection element.....mm
Radial Load.....N
“u” Distance of Radial Load.....mm
Axial Load (Towards Shaft) .....N

Output Shaft Connection Type:
Elastic Coupling [ ]
Barrel Type Coupling [ ]
Rigid Flange Coupling [ ]
Pulley [ ]
Chain Sprocket [ ]
Pinion [ ]
Hollow Shaft with Torque Arm [ ]
Schrinc disc with Torque Arm [ ]
Diameter of Connection Element.....mm
Radial Load.....N
“u” Distance of Radial Load.....mm
Axial Load (Towards Shaft) .....N

Gearbox assembled by:
Foot [ ] Flange [ ] Torque Arm [ ]

Output Shaft Specification:
Solid Shaft with Keyway [ ]
Solid Shaft without Keyway [ ]
Hollow Shaft with Shrinc Disc [ ]
Hollow Shaft [ ]
Special Shaft [ ]

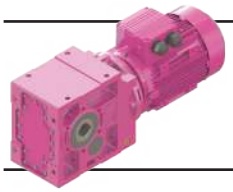
Input Shaft Specification:
Solid Shaft with Keyway [ ]
Solid Shaft without Keyway [ ]
Special Shaft [ ]
Torque arm required Yes[ ] No[ ]

Electrical Supply:
AC-1 Phase [ ] AC-3 Phase [ ] DC [ ]
Voltage.....Volt
Frequency..... Hz

Protection Class:
IP55 [ ] IP65 [ ] Exproof [ ]
Other IP.....

Attachments:
Load Diagram [ ]
Project [ ]
Required Dimensions [ ]
Technical Specifications [ ]

Notes:



Formular für Getriebeauswahl

Industriebereich.....
Anwendung.....
Erforderliche Drehzahl.....U/min

Erforderliche Leistung für die Maschine:
-Normal.....kW
-Minimal.....kW
-Maximal.....kW

Antriebsmaschine:
AC Motor [ ]
AC Motor mit Frequenzumrichter [ ]
DC Motor [ ]
Hydromotor [ ]
Kolbenmachinen mit 1-3 Zylinder [ ]
Kolbenmachinen mit 2-4 Zylinder [ ]

Motorverbindungsart (Elektromotoren):
IEC B5 Flansch [ ]
NEMA Flansch [ ]

IEC oder NEMA Flanschkode.....

Motorleistung:
-Nominal.....kW

Motordrehzahl:
-Normal.....U/min
-Maximal .....U/min
-Minimal.....U/min

Motordrehmoment:
-Normal.....Nm
-Maximal.....Nm
-Minimal.....Nm

Drehrichtung:
in Uhrzeigersinn [ ] gegen Uhrzeigersinn[ ]
veränderlich [ ]

Betriebsdauer in Stunden pro Tag:
<4 [ ] 4-8 [ ] 8-16 [ ] >16 [ ]

Anzahl der Anläufe pro Stunde:
0-50 [ ] 50-100 [ ] 100-200 [ ]
200-300 [ ] 300-500 [ ] 500-700 [ ]
700-1000 [ ] >1000 [ ]

Übersetzung zwischen Motor und Antriebswelle.....

Erforderliches Anlaufmoment.....Nm

Häufigkeit von Lastspitzen pro Stunde:
1-5 [ ] 6-30 [ ] 31-100 [ ] >100 [ ]

Einschaltdauer je Stunde (ED):
%100 [ ] %80 [ ] %60 [ ] 40% [ ] %20 [ ]

Höhenlage über Meeresspiegel (m):
<1000 [ ] <2000 [ ] <3000 [ ]
<4000 [ ] <5000 [ ]

Betriebsort:
Kleine geschlossene Räume (w<1m/sn) [ ]
Geschlossene Räume (w<3m/sn) [ ]
Große Räume und Hallen (w>=3m/sn) [ ]
im Freien [ ]

Umgebungsbedingungen:
Normal [ ] Staubig [ ] Feucht [ ]
Korrodierend [ ] Trocken [ ] Verklebend [ ]

Umgebungstemperatur:
Mittelwert ..... ^{0}C
Maximal.....^{0}C
Minimal.....^{0}C

Rücklaufsperre erforderlich:
Ja [ ] Nein [ ]

Getriebeeingangsvarianten:
R..[ ] V..[ ] N..[ ] T..[ ]

Getriebeausgangsvarianten:
00 [ ] 01 [ ] 02 [ ] 03 [ ] 04 [ ] 05 [ ] 08 [ ]
0S [ ] 0E [ ]

Montageposition:
M1 [ ] M2 [ ] M3 [ ] M4 [ ] M5 [ ] M6 [ ]

Antriebswellenanschluss:
Elastische Kupplung [ ]
Trommelkupplung [ ]
Hydrokupplung [ ]
Starre Flanschkupplung [ ]
Riementrieb [ ]
Kettenrad [ ]
Ritzel [ ]
Durchmesser von Anschlusselement.....mm
Querkraft.....N
“u” Abstand von der Wellenschulter.....mm
Axialkraft (in Richtung der Welle +) .....N

Abtriebswellenanschluss:
Elastische Kupplung [ ]
Trommelkupplung [ ]
Starre Flanschkupplung [ ]
Riementrieb [ ]
Kettenrad [ ]
Ritzel [ ]
Hohlwelle mit Drehmomentstütze [ ]
Schrumpfscheibe mit Drehmomentstütze [ ]
Durchmesser von Anschlusselement.....mm
Querkraft.....N
“u” Abstand von der Wellenschulter.....mm
Axialkraft (in Richtung der Welle +) .....N

Montage zur Getriebegehäuse mit:
Fuß [ ] Flansch [ ] Drehmomentstütze [ ]

Eigenschaften der Abtriebswelle:
Vollwelle mit Passfeder [ ]
Vollwelle ohne Passfeder [ ]
Hohlwelle mit Schrumpfscheibe [ ]
Hohlwelle [ ]
Sonderwelle

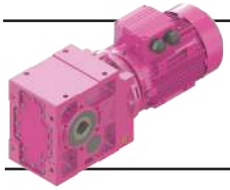
Eigenschaften der Antriebswelle:
Vollwelle mit Paßfeder [ ]
Vollwelle ohne Paßfeder [ ]
Sonderwelle [ ]
Drehmomentstütze erforderlich Ja[ ] Nein[ ]

Spannungsversorgung:
AC-1 phasig [ ] AC-3 phasig [ ] DC [ ]
Spannung.....Volt
Frequenz.....Hz

Schutzart:
IP55 [ ] IP65 [ ] Exproof [ ]
Andere IP.....

Anhang:
Lastdiagramm [ ]
Projekt [ ]
Erforderliche Abmessungen [ ]
Technische Spezifikationen [ ]

Andere Merkmale:



Yağlama

Redüktörlerin uzun ömürlü olması ve iyi performansla çalışabilmesi için, kullanılan yağın seçimi doğru olmalı ve belirtilen zamanlarda değişimleri yapılmalıdır.

Yağın seçiminde devir, çevre sıcaklığı, redüktör yağ sıcaklığı, çalışma koşulları ve yağ ömrü önem taşımaktadır. Redüktörler yağı doldurulmuş olarak sevkedilmektedir. Redüktörler uzun süre depolanacakları zaman veya çalışmaya başlanacağı zaman çalışma konumuna göre üstte kalan tapa sökülmeli ve redüktörün beraberinde verilen havalandırma tapası kullanılmalıdır. Bu redüktörün iç basıncından dolayı oluşacak yağ sızmalarını önleyecektir.

Redüktörlerde standart olarak kullanılan yağlar 33. sayfadaki tabloda verilmiştir. Miktarlar ve yağ tipi burada verilen değerlerden farklılık gösterebilir. Redüktörünüzde kullanılan yağın tipi ve miktarı için lütfen etiketine bakınız. Ayaklı redüktörler ve flanşlı redüktörler M1 pozisyonuna göre yağ ile doldurulmuştur. Bu pozisyonlar dışındaki çalışma durumlarında tablolarda verilen yağ miktarlarına göre ilave veya eksiltme yapılmalıdır. Özel çalışma koşullarında firmamıza danışmanız tavsiye edilir.

Mineral yağlar her 10.000 çalışma saatinde, sentetik yağlar ise her 20.000 çalışma saatinde değiştirilmelidir. Ağır çevre koşullarında (ani ısı değişiklikleri, yüksek nemlilik v.b) yağ değiştirme periyotlarının kısaltılması tavsiye edilir. Mineral yağlar ile sentetik yağlar birbirine kesinlikle karıştırılmamalıdır. Değiştirme işlemi bir çalışma periyodunun hemen peşinden ve yağ sıcakken yapılmalıdır. Bu şekilde bir değiştirme, redüktör içindeki partiküllerin yağa karışmış olarak bulunmasından dolayı iyi bir temizleme ve yağın rahat boşalması neticesini verecektir.

Lubrication

To work in perfect condition and to have long life for the gear box the lubricant must be chosen correctly and changed in time.

In selection of oil it is important to consider speed, ambient temparature, gear box oil temparature, working conditions and the life required from the lubricant. All units are filled with lubricant before shipping. Before the gearbox is stored for a long time or before starting up, the top plug (according to the working position) must be removed and the extra given vent plug must be replaced. This prevents excessive pressure which causes oil leakages.

The lubricant in the standard line is given for standard fillings on the table on page 33. Please look at your gear units label for filled oil type and quantity. The foot mounting type gear boxes and where the flange mounted gear boxes are filled for mounting position of M1. For other mounting positions please refer to the table given on the next pages. For special working conditions please contact us.

The mineral lubricant should be changed after every 10.000 service hours and the synthetic lubricant should be changed after every 20.000 working hours. If the operation conditions are very heavy (e.g. high temperature differences, high humidity) shorter intervals between changes are recommended. Mineral and synthetic oils must not be mixed up. By changing the lubricant complete cleaning is advised. The oil change should be done after a working period. Because oil is hot in this condition and impurities are mixed with it the changing of oil will be done in best result and the oil will drain easily.

Schmierung

Um eine lange Lebensdauer zu gewährleisten muss der Schmierstoff richtig ausgewählt werden.

Für die richtige Ölauswahl müssen Drehzahl, Umgebumgstemparatur, Belastungsart und Lebensdauer des Öls berücksichtigt werden. Die mitgelieferte Entlüftungsschraube ist vor Inbetriebnahme oder längeren Lagern gegen die Einfüllschraube auszutauchen, um einen Überdruck im Getriebe und damit eine Undichtigkeit des Getriebes zu vermeiden. Getriebe und Getriebemotoren sind bei Auslieferung betriebsfertig gefüllt.

Ohne besondere Bestellangaben werden die Getriebe grundsätzlich mit den auf der Seite 33 in der grau unterlegten Spalte angegebenen Schmierstoffen gefüllt. Bitte im Getriebe verwendetes Öl und menge von dem Namenschild ablesen. Die fußbefestigten Getriebe sind befüllt für Bauform und die flanschbefestigten Getriebe für Bauform M1. Für andere Bauformen sind die auf der nächsten Seite agegebenen Füllmengen zu beachten.

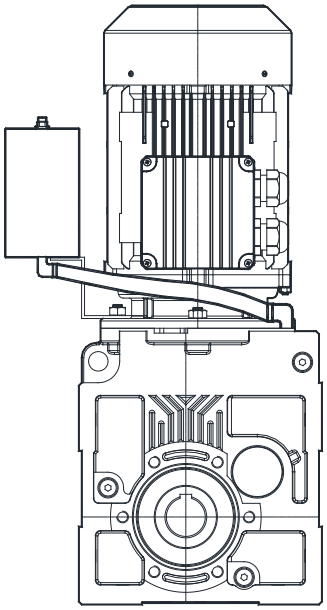
Ein Schmierstoffwechsel sollte alle 10.000 Betriebsstunden durchgeführt werden. Für synthetische Produkte verdoppeln sich diese Fristen. Bei extremen Betriebsbedingungen, z.B. hohe Luftfeuchtigkeit, aggresiver Umgebung und hohen Temparatur-schwankungen sind kürzere Schmierstoffintervalle vorteilhaft. Es ist enpfehlenswert, dem Schmierstoffwechsel mit einer gründlichen Reinigung des Getriebes zu verbinden. Synthetische und mineralische Schmierstoffe dürfen nicht miteinander vermischt werden. Das Ablassen des Öls soll unmittelbar nach dem stilsetzen erfolgen, solange das Öl noch warm ist. In dieser Zustand ist das Öl mit den Smutzpartickeln vermicht, so dass eine Entfernung des Altöls eine gute Reinigung garantiert.

M4 Montaj Pozisyonu için Genleşme Tankı / *Expansion Tank for M4 Mounting Position* / Ölausgleichsbehälter für M4 Bauform

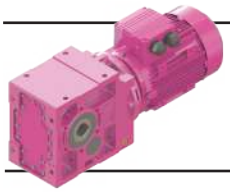
Aşağıdaki teknik resimde gösterildiği gibi montaj pozisyonları **M4** (montaj pozisyonları syf.34) olan redüktörlerde düzgün bir yağlama sağlanabilmesi için yağ seviyesinin redüktörün üst dişlilerinin yağlanabileceği seviyede olması gerekmektedir. Buda düşük çevrim oranlı redüktörlerde köpürme ve genleşme nedeniyle havalandırma tapasından yağ atılmasına neden olabilmektedir.
Yılmaz redüktör; bunun önlenebilmesi için çevrim oranı (i) < 20 ve K47'den daha büyük olan bütün gövdelerde **M4** montaj pozisyonunda genleşme tankı kullanılmasını kesinlikle önermektedir. Önerilen genleşme tankı ölçüleri aşağıdaki tabloda gösterilmiştir.
Çevrim oranı (i) < 20 olup giriş motor devri 1800 d/d dan büyük olan bütün redüktörlerde **M4** montaj pozisyonunda genleşme tankı kullanılması redüktör büyüklüğüne bakılmaksızın önerilmektedir.

*As you can see at the technical drawing below, for gear units with **M4** (mounting positions p. 34) mounting position, oil level is very high for proper lubrication of upper pinion gear and this leads to oil leakage from venting plug, because of foaming and expansion of oil at geared motors with ratios below 20.*
*We ; Yılmaz Redüktör, strongly recommend using expansion tank for **M4** mounting position for gear units K57, K67, K77,K87 and K97 with total ratios (i) below 20, to prevent this.*
You can find the recommended dimensions of expansion tanks below.
*If your gear units total ratio (i) is below 20 and input speed is higher then 1800 rpm we recommend using of expansion tank for all gear unit sizes for **M4** mounting position.*

Wie in der folgenden technischen Zeichnung dergestellt ist, sollte der Ölstand auf der gleichen Höhe der ersten Getriebestufe sein, um eine ausreichende Schmierung des oberen Zahnrads bei der **M4** Bauform (s. Seite 34) sicher zu stellen. Aufgrund dieeses höhen Ölstands bildet sich Ölschaum aus, welcher aus der Entlüftungsschraube austritt.
Um das verhindern zu müssen, empfiehlt Yılmaz Redüktör bei allen K-Serie Getrieben ab Getriebebaugröße K57 mit niedrigen Übersetzungen (i<20) einen Ölausgleichsbehälter bei der **M4** Bauform einzusetzen. Die empfehlenen Dimensionen des Ölausgleichsbehälters sind in der unteren Tabelle angegeben.
Bei Getrieben mit Übersetzungen (i<20) und bei Motor-Eingangsdrehzahlen >1800 min^{-1} empfiehlt Yılmaz Redüktör einen Ölausgleichsbehälter unabhängig von der Getriebebaugröße einzusetzen.



Gövde Büyüklüğü *Housing Size* **Gehäusegröße**	**Genleşme Tankı** *Expansion Tank* **Ölausgleichsbehälter**	**Genleşme Tankı Kapasitesi [lt]** *Expansion Tank Capacity [lt]* Ölausgleichbehältervolumen [l]	**Kodu** *Code* *Kode*
K57..	GT006	0,6	GT006
K67..	GT020	2,0	GT020
K77..			
K87..	GT050	5,0	GT050
K97..			

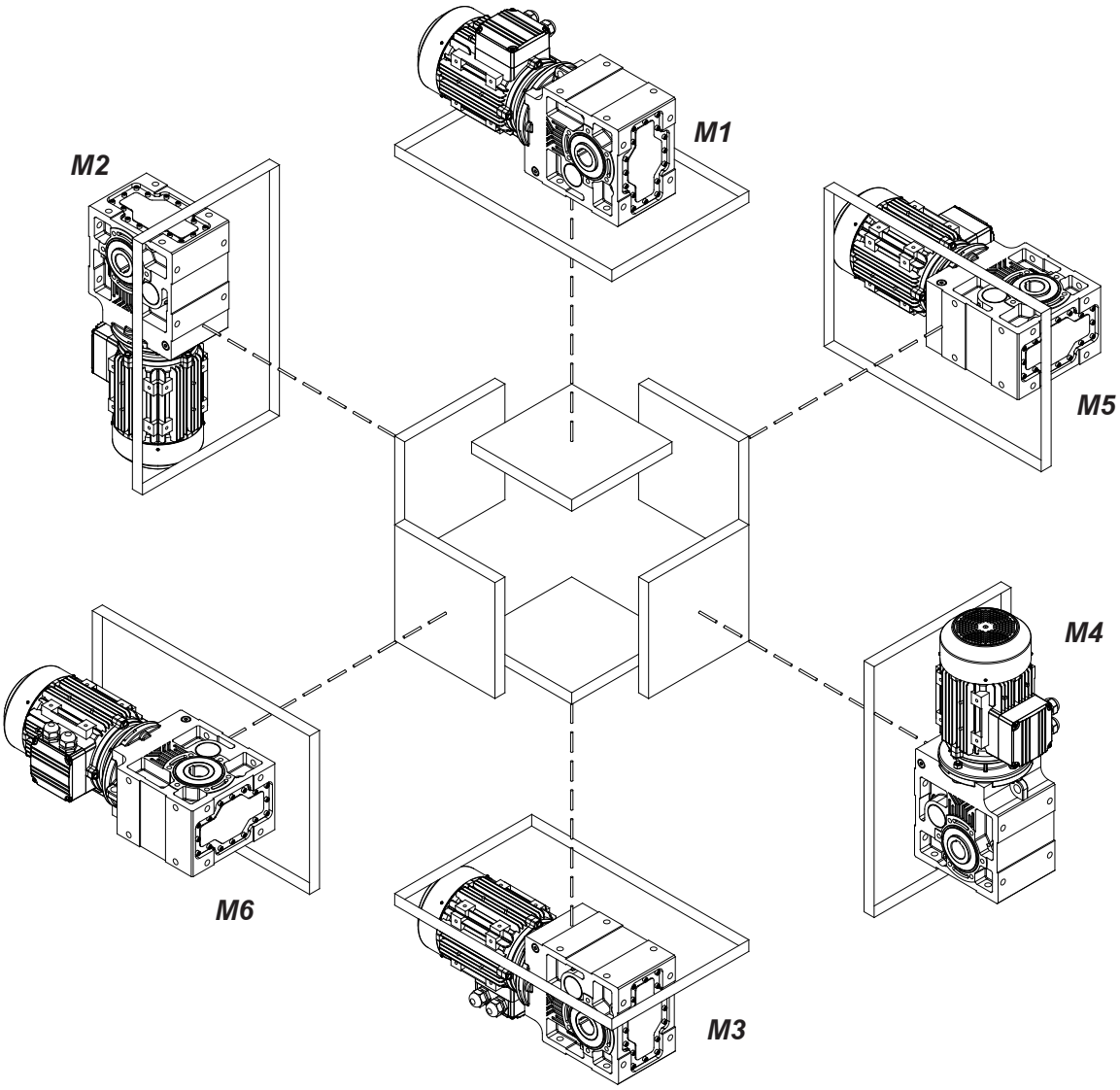


Yağ Tipleri / *Oil Types* / Schmierstoffe

Yağ Cinsi *Lubricant* Art des Schmierstoffes	DIN 51517-3	Çevre Sıcaklığı [°C] *Ambient Temp. [°C]* Umgebungstemp. [°C] / Daldırma Yağlama *Dip Lubrication* Tauchschmierung	ISO VG	Aral	Beyond Petroleum	Castrol	Klüber Lubrication	Mobil	Shell	Total
Mineral Yağlar *Mineral Oil* Mineralöl	CLP	0 ... +50	680	Degol BG 680	Energol GR-XP 680	Alpha SP 680	Klüberoil GEM 1-680 N	Mobilgear XMP 680	Omala S2 GX 680	Carter EP 680
		-5 ... +45	460	Degol BG 460	Energol GR-XP 460	Alpha SP 460	Klüberoil GEM 1-460 N	Mobilgear XMP 460	Omala S2 GX 460	Carter EP 460
		-10 ... +40	320	Degol BG 320	Energol GR-XP 320	Alpha SP 320	Klüberoil GEM 1-320 N	Mobilgear XMP 320	Omala S2 GX 320	Carter EP 320
		-15 ... +30	220	Degol BG 220	Energol GR-XP 220	Alpha SP 220	Klüberoil GEM 1-220 N	Mobilgear XMP 220	Omala S2 GX 220	Carter EP 220
		-20 ... +20	150	Degol BG 150	Energol GR-XP 150	Alpha SP 150	Klüberoil GEM 1-150 N	Mobilgear XMP 150	Omala S2 GX 150	Carter EP 150
		-25... +10	100	Degol BG 100	Energol GR-XP 100	Alpha SP 100	Klüberoil GEM 1-100 N	Mobilgear XMP 100	Omala S2 GX 100	Carter EP 100
Sentetik Yağlar *Synthetic Oil* Synthetisches Öl	CLP PG	-10 ... +60	680	Degol GS 680	Energsyn SG-XP 680	–	Klübersynth GH 6 -680	Mobil Glygoyle 680	Omala S4 WE 680	Carter SY 680
		-20 ... +50	460	Degol GS 460	Energsyn SG-XP 460	Alphasyn PG 460	Klübersynth GH 6 -460	Mobil Glygoyle 460	Omala S4 WE 460	Carter SY 460
		-25 ... +40	320	Degol GS 320	Energsyn SG-XP 320	Alphasyn PG 320	Klübersynth GH 6 -320	Mobil Glygoyle 320	Omala S4 WE 320	Carter SY 320
		-30 ...+30	220	Degol GS 220	Energsyn SG-XP 220	Alphasyn PG 220	Klübersynth GH 6 -220	Mobil Glygoyle 30	Omala S4 WE 220	Carter SY 220
		-35 ... +20	150	Degol GS 150	Energsyn SG-XP 150	Alphasyn PG 150	Klübersynth GH 6 -150	Mobil Glygoyle 22	Omala S4 WE 150	Carter SY 150
		-40 ... +10	100	–	–	–	Klübersynth GH 6 -100	Mobil Glygoyle 100	–	–
	CLP HC	-10 ... +60	680	–	–	–	Klübersynth GEM 4-680 N	Mobil SHC Gear 680	Omala S4 GXV 680	Carter SH 680
		-20 ... +50	460	Degol PAS 460	Enersyn EP-XF 460	Alphasyn T 460	Klübersynth GEM 4-460 N	Mobil SHC Gear 460	Omala S4 GXV 460	Carter SH 460
		-30 ... +40	320	Degol PAS 320	Enersyn EP-XF 320	Alphasyn T 320	Klübersynth GEM 4-320 N	Mobil SHC Gear 320	Omala S4 GXV 320	Carter SH 320
		-40 ... +40	220	Degol PAS 220	Enersyn EP-XF 220	Alphasyn T 220	Klübersynth GEM 4-220 N	Mobil SHC Gear 220	Omala S4 GXV 220	Carter SH 220
		-40 ... +40	150	Degol PAS 150	Enersyn EP-XF 150	Alphasyn T 150	Klübersynth GEM 4-150 N	–	Omala S4 GXV 150	Carter SH 150
		-40 ... +40	100	–	–	–	Klübersynth GEM 4-100 N	–	–	–
Gıda Uyumlu Yağ *Food Grade Oil* Lebensmittelöl	CLP NSF H1	-30 ... +25	220	–	–	Optileb GT 220	Klüberoil 4 UH1-220 N	Mobil SHC Cibus 220	–	Nevastane SL 220
Çevre Dostu Yağ *Biodegradable Oil* Biologisch abbaubares Öl	CLP E	-25 ... +40	320	–	–	Tribol BioTop 1418-320	Klübersynth GEM 2-320	–	–	Carter Bio 320

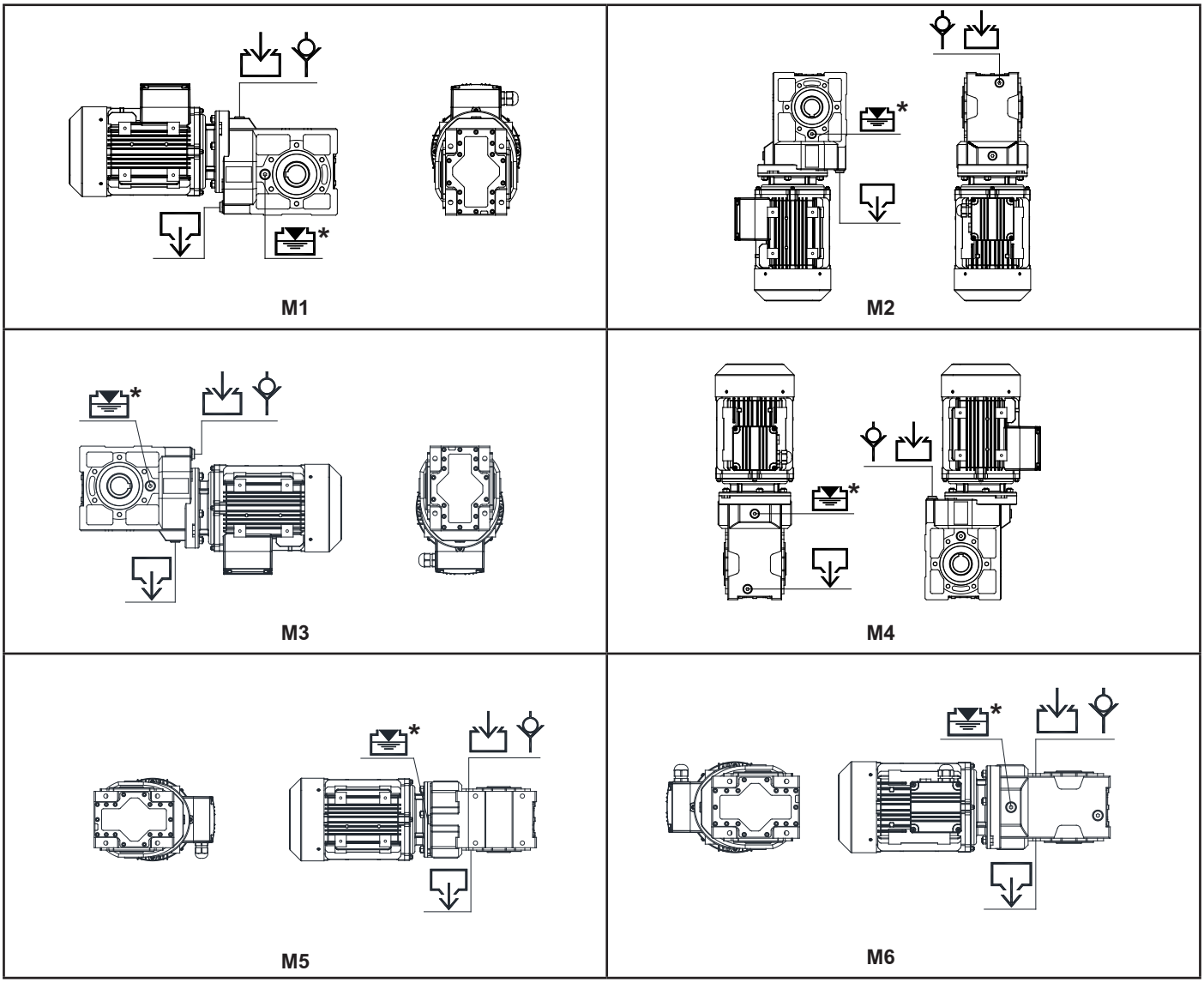
	Ürün Kodu *Product Code* Produktcode	Çalışma Sıcaklığı [°C] *Working Temp. [°C]* Betriebstemperatur [°C]	NLGI Sınıfı *NLGI Grade* NLGI-Klasse	Baz Yağı *Base Oil* Basis Öl	Renk *Colour* Farbe
Mineral Gresler *Mineral Grease* Mineral-Fett	Mobil XHP 223	-20 ... +140	NLGI 3	ISO VG220	Mavi *Blue* Blau
Sentetik Gresler *Synthetic Grease* Synthetisches Fett	Mobil SHC Grease 460 WT	-30 ... +150	NLGI 1.5	ISO VG460	Kırmızı *Red* Rot
	Mobilith SHC 100	-40 ... +150	NLGI 2	ISO VG100	
Gıda Uyumlu Gresler NSF H1 *Food Grade Grease NSF H1* Lebensmittelfett NSF H1	Mobil SHC Polyrex 222	-30 ... +170	NLGI 2	ISO VG220	Beyaz *White* Weiß
	Castrol Optileb™ GR 823-2	-30 ... +120	NLGI 2	ISO VG192	
Sıvı Gresler (Mineral) *Liquid Grease (Mineral)* Flüssiges Fett (Mineral)	Shell Gadus S2 V 220 00	-20 ... +100	NLGI 00	ISO VG220	Kahverengi *Brown* Braun

Montaj Pozisyonları / *Mounting Positions* / Bauformen



M1....M6 'ya kadar belirtilen montaj pozisyonları redüktörün duruş yönü referans alınarak belirlenmiştir. Montaj yüzeyleri bağlayıcı değildir.
Figured mounting positions of M1 to M6 are determined as reference of directional position of the gearbox. Mounting surfaces are not binding.
Dargestellte Montagepositionen M1 bis M6 wurden nach der Stehrichtung von Getriebe bestimmt. Montageoberflächen sind unverbindlich.

K.00. - K.20. İki - Üç Kademeli Helisel-Konik Dişli Redüktörler Yağ Seviye Tapaları
K.00. - K.20. Two - Three Stage Helical-Bevel Geared Gearboxes Oil Level Plugs
K.00. - K.20. Zwei-Dreistufig Stirn-Kegelradgetriebe Ölverschlußschrauben



*: **K002 ve K003'de bu tapa yoktur. Lütfen tablodaki yağ miktarına göre yağ koyunuz.**

*: *For K002 and K003 this plug doesn't exist. Please refer to oil quantities.*

*: Bei K002 und K003 existiert diese Ölstandschraube nicht. Bitte nach Ölmenge füllen.

Yağ Miktarları (lt) / *Oil Quantities (lt) / Ölmengen (Liter)*

Tip /*Type* / Typ	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**
K.002	0,3	0,6	0,5	0,8	0,65	0,65
K.003	0,3	0,6	0,5	0,8	0,65	0,65
K.102	0,55	0,8	0,85	1,1	0,8	0,8
K.103	0,5	0,7	0,8	1,0	0,8	0,8
K.202	1,0	1,35	1,5	1,7	1,4	1,4
K.203	0,9	1,25	1,4	1,4	1,6	1,3

Semboller :
Symbols :
Symbole :

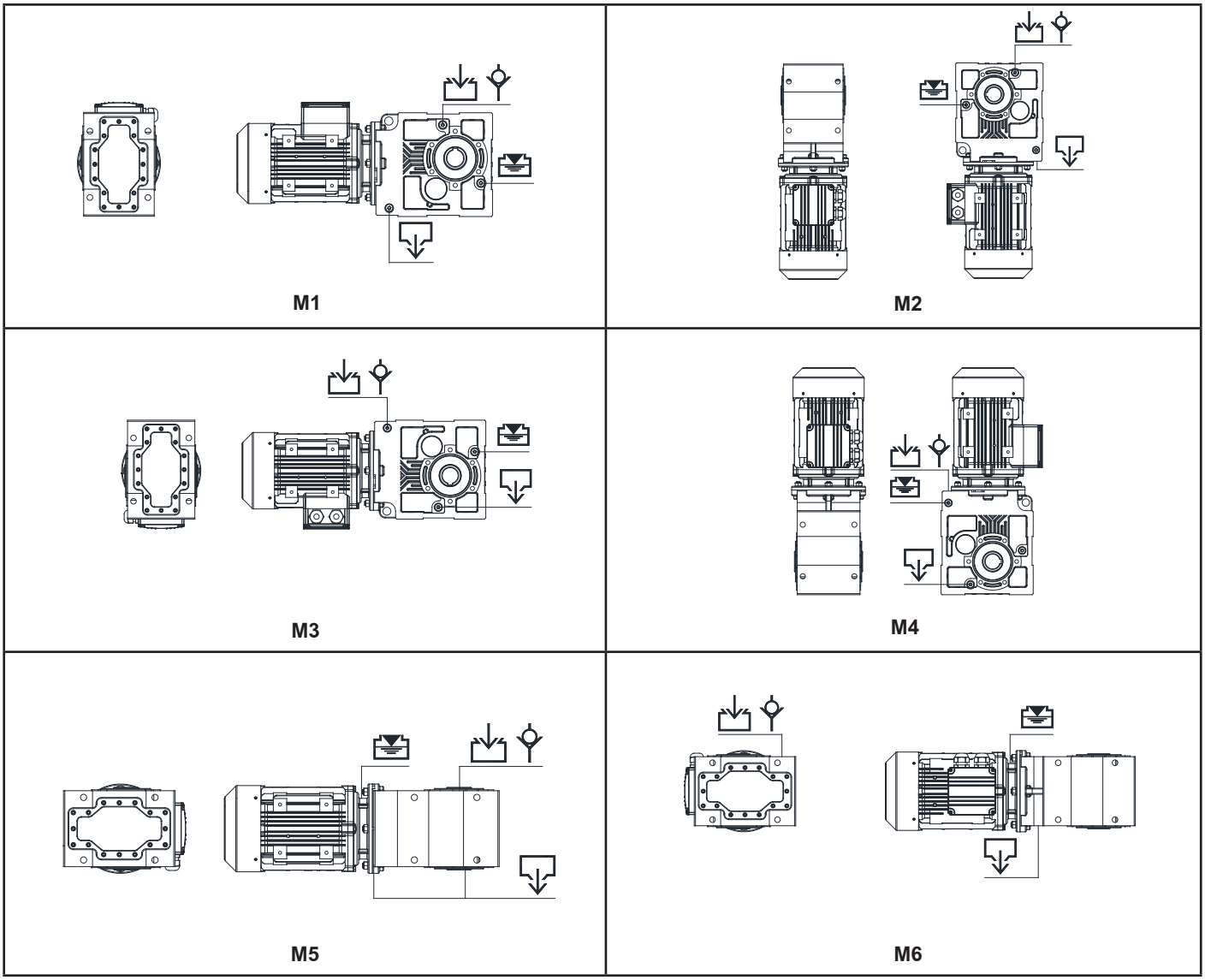
: Yağ boşaltma
: Drain plug
: Ölauslass

: Yağ doldurma
: Oil filling
: Ölfüllung

: Havalandırma
: Vent plug
: Entlüftungsschraube

: Yağ seviyesi
: Oil level
: Ölstand

K.273 - K.973 Üç Kademeli Helisel-Konik Dişli Redüktörler Yağ Seviye Tapaları
K.273 - K.973 Three Stage Helical-Bevel Geared Gearboxes Oil Level Plugs
K.273 - K.973 Dreistufig Stirn-Kegelradgetriebe Ölverschlußschrauben



Yağ Miktarları (lt) / *Oil Quantities (lt) / Ölmengen (Liter)*

Tip / *Type* / Typ	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**
K.173	0,5	0,95	1,0	1,2	0,6	0,6
K.273	0,8	1,8	2,2	2,3	1,4	1,5
K.283	1,2	2,4	2,5	2,9	1,9	1,7
K.373	1,4	3,3	3,4	4,0	1,9	2,2
K.473	2,7	5,9	6,5	7,8	4,0	4,5
K.573	4,1	9,0	9,7	11,5	5,5	6,6
K.673	8,7	16,3	18,0	22,5	11,7	13,2
K.773	13,0	28,0	30,0	35,0	18,0	20,0
K.873	28,0	49,0	46,0	63,0	30,0	36,0
K.973	47,0	85,0	84,0	117,0	77,0	64,0

Semboller :
Symbols :
Symbole :

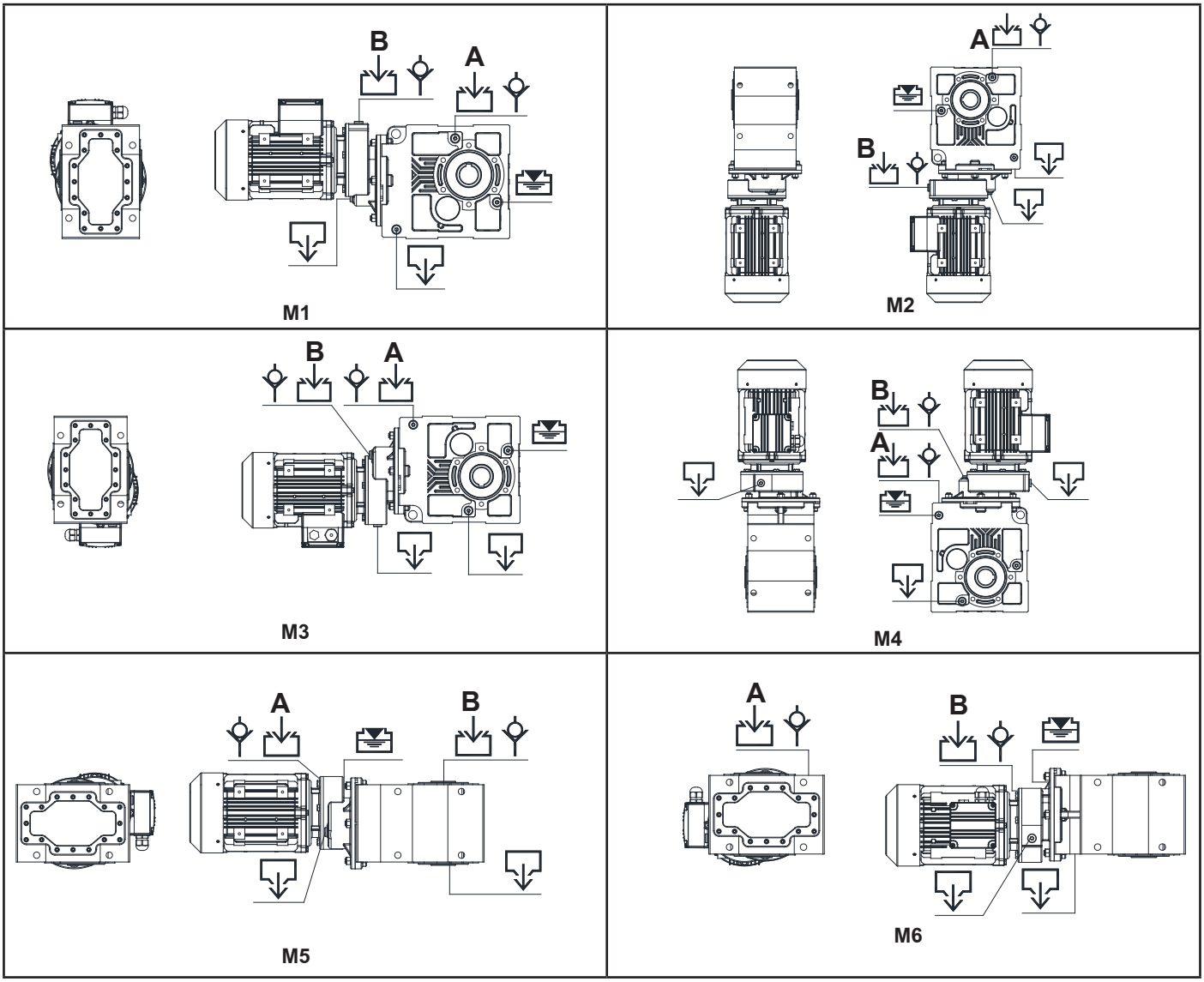
: Yağ boşaltma
: Drain plug
: Ölauslass

: Yağ doldurma
: Oil filling
: Ölfüllung

: Havalandırma
: Vent plug
: Entlüftungsschraube

: Yağ seviyesi
: Oil level
: Ölstand

K.284 - K.974 Dört Kademeli Helisel-Konik Dişli Redüktörler Yağ Seviye Tapaları
K.284 - K.974 Four Stage Reduction Helical-Bevel Geared Gearboxes Oil Level Plugs
K.284 - K.974 Vierstufig Stirn-Kegelradgetriebe Ölverschlußschrauben



Yağ Miktarları (lt) / *Oil Quantities (lt) / Ölmengen (Liter)*

Tip /*Type* / Typ	**M1** A / B	**M2** A / B	**M3** A / B	**M4** A / B	**M5** A / B	**M6** A / B
K.284	1,2 / 0.25	2,4 / 0,25	2,5 / 0,25	2,9 / 0,25	1,9 / 0,25	1,7 / 0,25
K.374	1,4 / 0,25	3,3 / 0,25	3,4 / 0,25	4,0 / 0,25	1,9 / 0,25	2,2 / 0,25
K.474	2,7 / 0,4	5,9 / 0,4	6,5 / 0,4	7,8 / 0,4	4,0 / 0,4	4,5 / 0,4
K.574	4,1 / 0,5	9,0 / 0,5	9,7 / 0,5	11,5 / 0,5	5,5 / 0,5	6,6 / 0,5
K.674	8,7 / 0,9	16,3 / 0,9	18,0 / 0,9	22,5 / 0,9	11,7 / 0,9	13,2 / 0,9
K.774	13,0 / 1,0	28,0 / 1,0	30,0 / 1,0	35,0 / 1,0	18,0 / 1,0	20,0 / 1,0
K.874	28,0 / 2,2	49,0/ 2,2	46,0 / 2,2	63,0 / 2,2	30,0 / 2,2	36,0 / 2,2
K.974	47,0 / 7,0	85,0 / 7,0	84,0 / 7,0	117,0 / 7,0	77,0 / 7,0	64,0 / 7,0

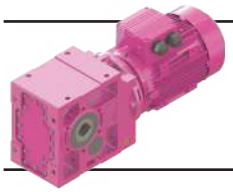
Semboller :
Symbols :
Symbole :

: Yağ boşaltma
: Drain plug
: Ölauslass

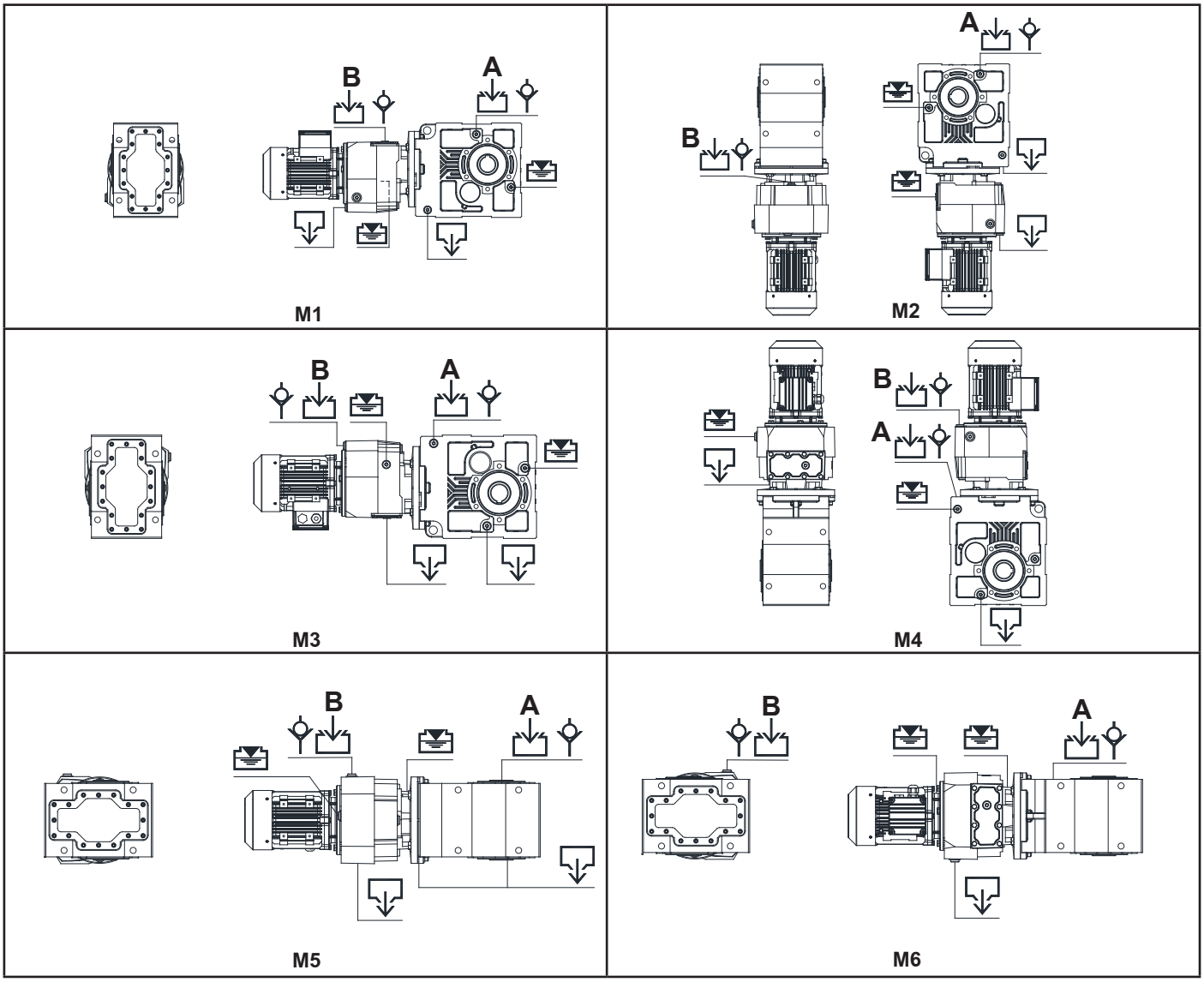
: Yağ doldurma
: Oil filling
: Ölfüllung

: Havalandırma
: Vent plug
: Entlüftungsschraube

: Yağ seviyesi
: Oil level
: Ölstand



K.27. - K.97. Beş-Altı Kademeli Helisel-Konik Dişli Redüktörler Yağ Seviye Tapaları
K.27. - K.97. Five-Six Stage Helical-Bevel Geared Gearboxes Oil Level Plugs
K.27. - K.97. Fünf-Sechsstufig Stirn-Kegelradgetriebe Ölverschlußschrauben



Yağ Miktarları (lt.) /*Oil Quantities. (lt)* / Ölmengen (Liter)

Tip / *Type* / Typ	**M1** A / B	**M2** A / B	**M3** A / B	**M4** A / B	**M5** A / B	**M6** A / B
K.275-276	0,8 / 0,4	1,8 / 0,6	2,2 / 0,5	2,3 / 0,6	1,4 / 0,5	1,5 / 0,5
K.285-286	1,2 / 0,54	2,4 / 0,8	2,5 / 0,6	2,9 / 0,8	1,9 / 0,6	1,7 / 0,6
K.375-376	1,4 / 0,65	3,3 / 0,95	3,4 / 0,7	4,0 / 0,95	1,9 / 0,7	2,2 / 0,7
K.475-476	2,7 / 1,2	5,9 / 2,1	6,5 / 2,0	7,8 / 2,1	4,0 / 1,4	4,5 / 1,4
K.575-576	4,1 / 1,2	9,0 / 2,1	9,7 / 2,0	11,5 / 2,1	5,5 / 1,4	6,6 / 1,4
K.675-676	8,7 / 2,0	16,3 / 3,4	18,0 / 3,1	22,5 / 3,4	11,7 / 2,8	13,2 / 2,8
K.775-776	13,0 / 2,0	28,0 / 3,4	30,0 / 3,1	35,0 / 3,4	18,0 / 2,8	20,0 / 2,8
K.875-876	28,0 / 2,0	49,0 / 3,4	46,0 / 3,1	63,0 / 3,4	30,0 / 2,8	36,0 / 2,8
K.975-976	47,0 / 4,0	85,0 / 7,6	84,0 / 7,0	117,0 / 7,6	77,0 / 5,0	64,0 / 5,0

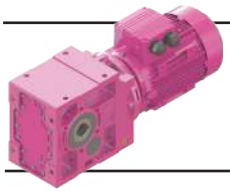
Semboller :
Symbols :
Symbole :

: Yağ boşaltma
: Drain plug
: Ölauslass

: Yağ doldurma
: Oil filling
: Ölfüllung

: Havalandırma
: Vent plug
: Entlüftungsschraube

: Yağ seviyesi
: Oil level
: Ölstand



MOTORLAR
AC Motorlar
a- Genel Özellikler:

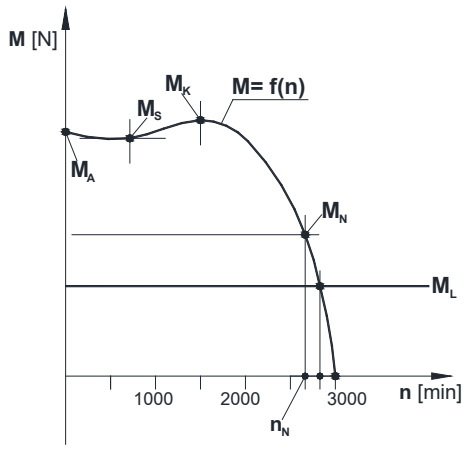
Basit konstrüksiyonlu, bakım gerektirmez, güvenirliği yüksek ve uygun fiyatlı olmaları nedeni ile trifaze asenkron motorlar en çok kullanılan motor cinsidir. Bu motorların çalışma karekteristikleri moment-hız eğrisi ile belirlenir. Aşağıda bu karekteristik eğrisine bir örnek verilmiştir.

MOTORS
AC Motors
a- General Specifications:

On account of its simple and maintenance free construction, good reliability and price, the three phase squirrel cage motor is one of the most frequently employed electric motors. The run up behavior of a three phase squirrel cage motor is described by the torque-speed characteristic curve. An example is shown below.

MOTOREN
Drehstrommotoren:
a- Allgemeine Eigenschaften

Wegen die wartungsarme und leichte Konstruktion, hohe Sicherheit bei Nutzung und günstige Preise werden die asynchrone Drehstrommotoren am meisten benutzt. Motoranlaufverhalten wird mit Moment-Drehzahl-Kurve charakterisiert. Ein Beispiel ist unten angegeben.



M_A: Start momenti / *Starting torgue* / Anlaufmoment

M_S: Demeraj momenti / *Pull-up torgue* / Anziehungsmoment

M_K: Frenleme momenti / *Pull -out torgue* / Bremsmoment

M_N: Motorun ilettiği moment / *Motor rated torque* / Treibmoment

M_L: Yük momenti / *Load torque* / Lastmoment

Motorun her start yapılmasında bu eğriye uygun hareket eder ve yük momenti M_L ile bu eğrinin çakıştığı nokta, motorun çalışma anındaki moment ve devirini verir.

Statorun manyetik alanı senkron hızla n_s döner. Kutuplar arasındaki faz kayması 3 fazlı motorlarda 120° *'dir.*

$$n_s = 120 \times \frac{f}{p_s}$$

f.....: şebeke frekansı [Hz]
p_s.....: statorun kutup sayısı

Rotorun değişken manyetik alanı rotorun statorun manyetik alanının dönüşü yönünde dönmeye başlamasını sağlar. Rotor bu hareketinde statorun manyetik alanını takip eder ama hiçbir zaman yakalayamaz. Rotor statorun manyetik alanının hızından yavaş döner. Rotorun bu hızına baz hız n_N denir. Yükün azalması rotorun hızının artmasını sağlar, aynı zamanda sapma azalmış olur. Sapma aşağıdaki gibi belirlenmiştir:

$$s = \frac{n_s - n_N}{n_s} \times 100$$

Sapmanın miktarına göre motorun nominal değerlerinde şu farklılıklar olabilir.
Sapma s .....:± 20%
Kalkış Akımı.....:± 20%
Kalkış Momenti.....:-15 /+25 %
Kütle Atalet Momenti.....:± 10%
Verim (37 kW'a kadar).....:-0,15 (1-η)

The motor follows this torque characteristics up to its stable operating point every time, when it is switched on. Operating point is that point, where the moment speed curve intersects with load torque M_L line.
The magnetic field in the stator rotates at a synchronous speed n_s. Phase shift of each pole is 120° at 3 phase motors.

$$n_s = 120 \times \frac{f}{p_s}$$

f.....: supply frequency [Hz]
p_s.....: number of stator poles

Because of the alternating magnetic field in the rotor, the rotor starts running in the same direction of the stator flux and tries to catch up with the rotating flux. The rotor never catches up the stator field. The rotor runs slower than the speed of the stator field. This speed is called the base speed n_N.
A decrease in load will cause the rotor to speed up or decrease slip. The slip is defined as follows:

$$s = \frac{n_s - n_N}{n_s} \times 100$$

According to the slip, the nominal values of the electric motor can alter as follows:
Slip s .....:± 20%
Starting current .....:± 20%
Starting torque .....:-15 /+25 %
Moment of inertia.....:± 10%
Efficiency (up to 37 kW).....:-0,15 (1-η)

Der Drehstrommotor läuft diese Kurve bei jedem Anlauf, bis dem stabilen Betriebspunkt erreicht wird. Betriebspunkt ist der Zustand, bei dem die Moment-Drehzahl-Kurve sich mit der Linie von erforderlichen Moment M_L schneidet.
Magnetisches Feld von Stator dreht sich mit synchroner Geschwindigkeit n_s. Phasenverschiebung von den Polen ist 120° bei 3 phasigen Drehstrommotoren.

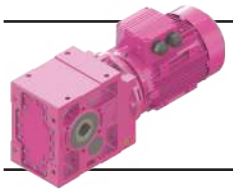
$$n_s = 120 \times \frac{f}{p_s}$$

f.....: Frequenz der Spannung [Hz]
p_s.....: Anzahl der Polen von Stator

Durch das magnetische Wechselfeld in den Rotor, beginnt der Rotor sich in der gleichen Richtung des Statorflusses zu drehen und versucht diese Bewegung aufzuholen. Der Rotor kann das Statorfeld nie aufholen. Die Rotorgeschwindigkeit nennt man Basisgeschwindigkeit n_N. Eine Abnahme der Belastung bewirkt, dass der Rotor sich beschleunigt und der Schlupf sich verringert. Der Schlupf wird wie folgt definiert:

$$s = \frac{n_s - n_N}{n_s} \times 100$$

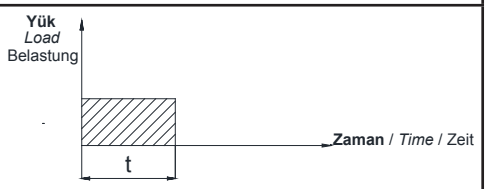
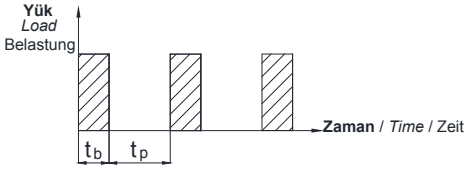
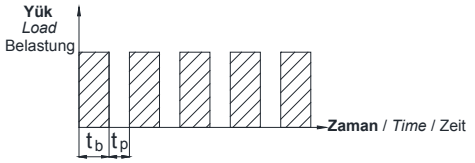
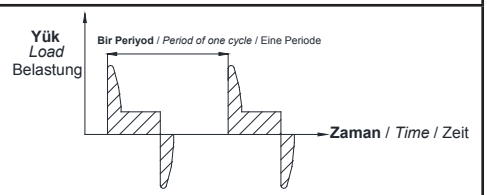
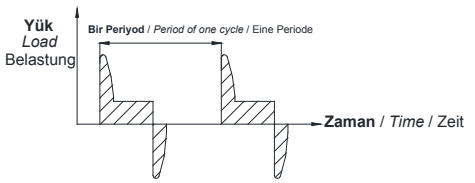
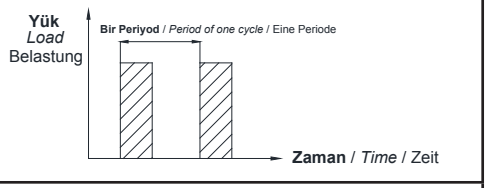
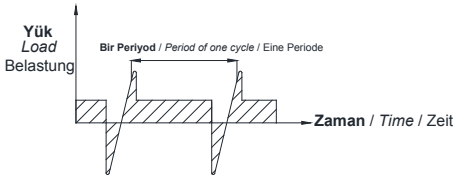
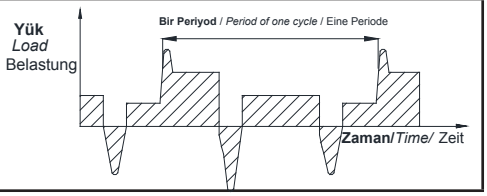
Für die nominale Werte der Drehstrommotoren sind folgende Abweichungen zulässig:
Schlumpf s .....:± 20%
Anzugsstrom .....:± 20%
Anzugsmoment .....:-15 /+25 %
Massenträgheitsmoment .....:± 10%
Wirkungsgrad (bis 37 kW).....:-0,15 (1-η)



b- Çalışma Türleri
Katalogta verilen tüm redüktörlerin motorları S1 çalışma türüne uygun verilmektedir. Diğer çalışma türleri aşağıdaki tabloda gösterilmiştir.

b-Modes of Operation
All motors of the catalogue have been laid out for duty S1 (continuous operation). Other duty types are given on the following table.

b-Betriebsarten
Die im Katalog angeführten Motoren sind für Betriebsart S1 (Dauerbetrieb) ausgelegt. Andere Betriebsarten sind unten angegeben.

Çalışma Türü *Operation* Betriebsarten	**Açıklama** *Explanation* Erläuterung	**Yük Grafiği** *Load Graphic* Lastverläufe
S1	**Sabit yükte sürekli çalışma** *Continuous operation under constant load* Dauerbetrieb mit konstanter Belastung	
S2	**Sabit yükte kısa süreli çalışma** *Short-time duty under constant load* Kurzbetrieb mit konstanter Belastung	
S3	**Yolvermede sıcaklık artımı olmadan periyodik çalışma** *Periperiodic duty without influence of start-up on temperature* Aussetzbetrieb ohne Einfluß des Anlaufens auf die Temparatur	
S4	**Yolvermede sıcaklık artımı olan periyodik çalışma** *Periodic duty with influence of start up on temperature* Aussetzbetrieb mit Einfluß des Anlaufes auf die Temparatur	
S5	**Yolvermede ve frenlemede sıcaklık artımlı periyodik çalışma** *Periodic duty with influence of startup and braking on temp.* Aussetzbetrieb mit Einfluß des Anlaufens / Bremsung auf die Temp.	
S6	**Sürekli orta darbeli çalışma** *Continuous operation with intermittent loading* Durchlaufbetrieb mit Ausetzungsbelastung	
S7	**Elektriksel frenlemeli sürekli orta darbeli çalışma** *Continuous operation with intermittent loading and breaking* Ununterbrochener Betrieb mit Anlauf und Bremsung	
S8	**Devir ve yük değişimli sürekli çalışma** *Continuous operation duty type with related load-speed changes* Ununterbrochener periodischer Betrieb mit Drehzahländerung	

c- Koruma Sınıfı:
Yılmaz Redüktörde standart olarak IP54 (IEC 34-5) koruma sınıflı motorlar kullanılmaktadır. Diğer koruma sınıfları istendiğinde firmamıza danışınız.

d- İzolasyon Sınıfı:
Yılmaz Redüktörde kullanılan standart izolasyon sınıfı F (IEC 317-8) dir. İstek üzerine H sınıfı yapılabilmektedir.

e- Verim Sınıfları:
Üç fazlı az gerilim asenkron motorların verim sınıfı ölçümü IEC 60034-2-1:2007 normu ile belirlenmiştir. Yeni IE verim sınıfı 0,75 kW'tan 375 kW'a kadar güç aralığında çalışan AC motorlar için geçerlidir. EFF verim sınıfından farklı olarak IE verim sınıfı 6 kutup sayılı motorlar içinde kullanılabilir. Aşağıda verim sınıfları sıralanmıştır. Bölgeler dışında verim sınıfı zorunlulukları ülkelere görede farklılık gösterebilir. Lütfen firmamıza danışınız. Başka ürünlere entegre olmuş ve bu nedenle motorun veriminin bağımsız belirlenemediği sistemlerde (redüktör pompa gibi) verim sınıflandırması geçerli değildir.

c- Protection Class:
Yilmaz Reduktor uses IP54 (IEC 34-5) protection class electric motors for standard products. If different kind of protection class is requested please contact us.

d- Insulation Class:
Yilmaz Reduktor uses F (IEC 317-8) insulation class electric motors for standard products. H insolation class is available upon request.

e- Efficiency Classes:
The method for measuring the efficiency of low voltage three-phase asynchronous motors was revised with the new IEC 60034-2-1:2007 standard. The new IE classes is valid for AC Motors in power range from 0,75 to 375 kW. Unlike the EFF classes IE classes can be used for 6-pole AC motors. Bellow is the table of efficiency classes. The instructions for efficiency classes can differ from country to country. Please contact with us for more information. For the motors, which are fully integrated into a product (for example gear, pump) so their energy efficiency can not be recognized independently, the requirements of efficiency are not valid in Europe.

c- Schutzarten:
Yilmaz Redüktor Getriebemotoren werden serienmäßig mit Schutzart IP54 (IEC34-5) ausgeführt. Für andere Schutzarten bitte rückfragen.

d- Isolationsklasse:
Yilmaz Reduktor Getriebemotoren werden serienmäßig in Wärmeklasse F (IEC317-8) ausgeführt. H Wärmeklasse ist möglich auf Kundenwunsch.

e- Energieeffizienzklassen:
Die Methode für Messung die Effizienz von drei phasigen gering Spannung Asynchronmotoren hat neu mit IEC 60034-2-1:2007 Norm festgestellt. Die neue IE-Klassen gelten für alle Drehstrommotoren im Leistungsbereich von 0,75 bis 375 kW. Anders als EFF-Klassen die IE-Klassen können auch für 6-polige Drehstrommotoren verwendet werden. Unten steht die Tabelle der Effizienzklassen. Die Richtlinien für Effizienzklassen können sich je nach dem Land unterscheiden. Bitte mit unserem Firma Kontakt aufnehmen. Für die Motoren, die vollständig in ein Produkt (zum Beispiel Getriebe, Pumpe) eingebaut sind und deren Energieeffizienz nicht unabhängig von diesem Produkt erfasst werden kann, gelten in Europa die Anforderungen der Effizienzklassen nicht.

Verim Sınıfları *Efficiency Classes* Energieeffizienzklassen			**4 Kutuplu Motor Verim Değeri Hesabı** *Calculating Efficiency Values of Motors with 4 Poles* Berechnung der Wirkungsgrade von Elektromotoren mit 4 Polen	
IE1	EFF 2	**Standart Verim** *Standart Efficiency* Standarte Energieeffizienz	A=0,5234 B=-5,0499 C=17,4180 D=74,3171	$\eta_{Mn} = A \times \left[\log_{10}(P_L)\right] + B \times \left[\log_{10}(P_L)\right]^2 + C \times \log_{10}(P_L) + D$ P_L :**Anma Yükü [kW]** / *Nominal Load [kW]* / Nennlast [kW] η_{Mn} :**Nominal verim** / *Nominal Efficiency [kW]* / Sollwirkungsgrad
IE2	EFF 1	**Yüksek Verim** *High Efficiency* Hohe Energieeffizienz	A=0,0278 B=-1,9247 C=10,4395 D=80,9761	
IE3	-	**Premium Verim** *Premium Efficiency* Premium Energieeffizienz	A=0,0773 B=-1,8951 C=9,2984 D=83,7025	
IE4	-	**Süper Premium Verim** *Super Premium Efficiency* Super Premium Energieeffizienz	A=0,2412 B=-2,3608 C=8,446 D=86,8321	

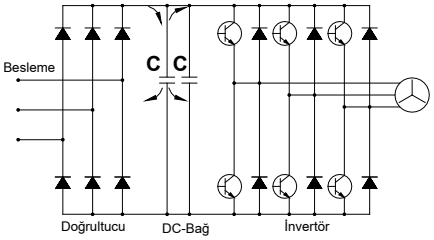
4 Kutuplu Motor Verim Değerleri
Efficiency Values of Motor with 4 poles
Sollwirkungsgrad des Motors mit 4 Polen

Anma Yükü [kW] *Nominal Load [kW]* Nennlast [kW]	**Verim Sınıfı** / *Efficiency Class* / Energieeffizienzklasse			**Anma Yükü [kW]** *Nominal Load [kW]* Nennlast [kW]	**Verim Sınıfı** / *Efficiency Class* / Energieeffizienzklasse	
	IE2	IE3	IE4		IE3	IE4
0,12	%59,1	%64,8	%69,8	11	%91,4	%93,3
0,18	%64,7	%69,9	%74,7	15	%92,1	%93,9
0,25	%68,5	%73,5	%77,9	18,5	%92,6	%94,2
0,37	%72,7	%77,3	%81,1	22	%93,0	%94,5
0,55	%77,1	%80,8	%83,9	30	%93,6	%94,9
0,75	%79,6	%82,5	%85,7	37	%93,9	%95,2
1,1	%81,4	%84,1	%87,2	45	%94,2	%95,4
1,5	%82,8	%85,3	%88,2	55	%94,6	%95,7
2,2	%84,3	%86,7	%89,5	75	%95,0	%96,0
3,0	%85,5	%87,7	%90,4	90	%95,2	%96,1
4,0	%86,6	%88,6	%91,1	110	%95,4	%96,3
5,5	%87,7	%89,6	%91,9	132	%95,6	%96,4
7,5	%88,7	%90,4	%92,6	160	%95,8	%96,6

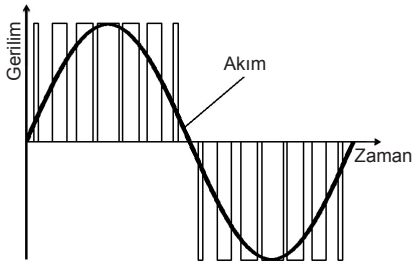
Motorlu redüktörlerimizde kullanılan motorların verimleri tabloda gri olarak belirtilmiştir. /*The efficiencies of the motors used in our geared motors have been indicated in gray in the table.* / Die Effizienz der Motoren, die in unseren Getriebemotoren verwendet werden, wurde in der Tabelle in Grau angegeben.

f- AC Frekans İnvertörler

Doğru Akımı (DC), alternatif akıma (AC) çeviren elektronik çeviricilere invertör denilmektedir. AC motorlar için elektronik hız kontrol cihazları genellikle AC giriş akımını doğrultucu diyotlarla DC akıma çevirir ve daha sonra çevirici diyotlar vasıtası ile bu akımı tekrar AC akıma çevirir. Doğrultucu diyotlar ile çevirici diyotlar arasındaki bağlantı DC-bağ olarak tanımlanmaktadır. DC kontrol cihazının (genellikle invertör olarak isimlendirilir) elektriksel blok şeması aşağıda verilmiştir.

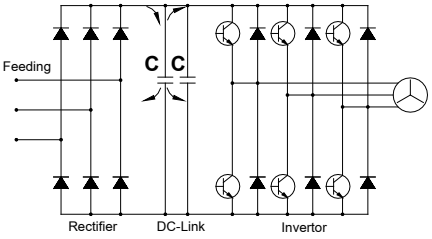


Tam dalga doğrultucuları besleyen üç faz besleme akımı DC-bağ kapasitörlerine iletilir. Kapasitörler voltajdaki dalgalanmaları azaltır ve kısa süreli ağdaki akım kesintilerinde enerji sağlar. Kapasitörlerdeki voltaj kontrolsüzdür ve gelen AC akımın pik akım değerlerine bağlıdır. DC akım tekrar AC akıma, Puls genişliği modulasyonu (PWM) kulanılarak çevrilir. İstenen dalga formu, sabit bir frekansta (Puls frekansında), çıkış transistörlerinin (İzole edilmiş geçit Bipolar transistörleri; IGBT 'ler) açılıp kapatılması ile oluşturulur. IGBT'lerin açma kapama zamanlarının değişimi ile istenen akım oluşturulabilir. Çıkış voltajı bir seri kare dalga pulslardır ve motor sargılarının indüktansı ile sinusodial bir motor akımı oluşur. Puls genişliği modulasyonu aşağıda gösterilmiştir.

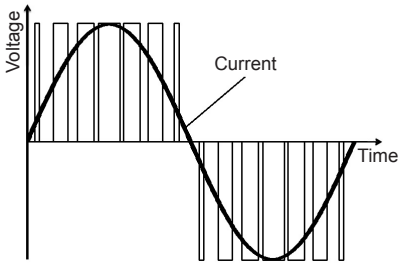


f- AC Frequency Inverters

An electronic converter is a device which converts Direct Current (DC) to Alternating Current (AC) is known as an inverter. Electronic speed controllers for AC motors usually convert the AC supply to DC using a rectifier, and then convert it back to a variable frequency, variable voltage AC supply using an inverter bridge. The connection between the rectifier and inverter is called the DC link. The block diagram of a speed controller (often called an inverter) is shown below.

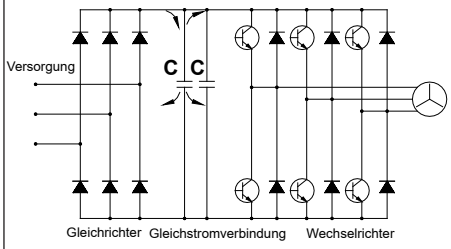


The three phase supply is fed into a full wave rectifier which supplies the DC link capacitors. The capacitors reduce the voltage ripple (especially on single supplies) and supply energy for short mains breaks. The voltage on the capacitors is uncontrolled and depends on the peak AC supply voltage. The DC voltage is converted back to AC using Pulse Width Modulation (PWM). The desired waveform is built up by switching the output transistors (Insulated Gate Bipolar Transistors; IGBTs) on and off at a fixed frequency (the switching frequency). By varying the on and off time of the IGBTs the desired current can be generated. The output voltage is still a series of square wave pulses and the inductance of the motor windings results in a sinusodial motor current. Pulse Width Modulation is shown in the figure below.

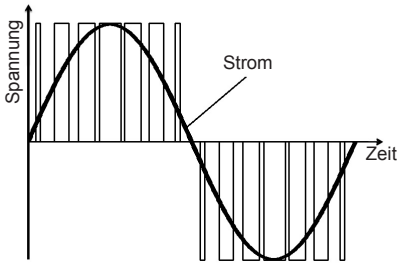


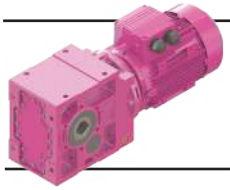
f- AC Frequenz Umrichter

Ein elektronischer Wandler, der den Gleichstrom (DC) in Wechselstrom (AC) umwandelt, wird als Umrichter bezeichnet. Ein Frequenzumrichter benutzt einen ungesteuerten Eingangsgleichrichter, um die Netzspannung in Gleichspannung umzuwandeln. Diese wird dann in den Zwischenkreiskondensatoren gespeichert. An diesem Gleichspannungszwischenkreis ist ein Wechselrichter angeschlossen. Dieser Wechselrichter erzeugt am Ausgang eine variable Frequenz und eine variable Spannung. Der Anschluss zwischen dem Gleichrichter und dem Wechselrichter nennt man Gleichstromverbindung. Das Blockschaltbild von diesem System wurde unten dargestellt:



Auch bei dreiphasiger Versorgung wird die gleichrichtete Netzspannung den Zwischenkreiskondensatoren zugeführt. Die Kondensatoren reduzieren die Oberwelligkeit der Spannung (was besonders bei einphasiger Versorgung entscheidend ist) und liefern Energie, die kurze Unterbrechungen der Netzstromversorgung ermöglicht. Die Spannung der Kondensatoren ist vom Spitzenwert der Wechselspannung abhängig. Die Gleichspannung wird im Wechselrichter durch Pulsweitenmodulation (PWM) in Wechselspannung umgewandelt. Die gewünschte Wellenform wird durch Ein- und Ausschalten der Ausgangstransistoren (IGBT's Isolierte Gate Bipolar Transistoren) mit einer festen Frequenz (der Pulsfrequenz) erzeugt. Der gewünschte Strom kann durch die Variation der Ein- und Ausschaltzeit der Ausgangstransistoren generiert werden. Die Ausgangsspannung ist dadurch eine Reihe von Spannungsimpulsen, die in Verbindung mit der Induktivität der Motorspulen zu einem sinusförmigen Motorstrom führt. Die Pulsweitenmodulation wird wie folgt dargestellt





DC MOTORLAR

a- Genel Özellikler

DC motorlar, elektronik parçalardaki gelişmeler nedeni ile yeni uygulama alanları bulmuştur. Daha önce çok pahalı olan ve ekonomik olmayan kontrol sistemlerinin yerini ucuz ve kompakt güç kontrol üniteleri almıştır. Yol vermenin kontrol altına alınabildiği, tork ve akım izlenebilirliği, aşırı yüklenmeye karşı elektronik koruma sağlanabilmesi ve daha birçok pahalı olmayan uygulamalar DC motorlarını cazip kılmaya başlamıştır.

b- DC Motorların Çalışma İlkeleri

DC motorlar için DC çıkış veren bir doğrultucuya ihtiyaç vardır. Motor armatür sargıları, alan sargıları,komutasyon sargıları ve kompanse sargılar olmak üzere rotorda ve statorda bulunan sargılardan oluşur. Rotora voltaj ve akım karbon fırçalar ve komutator sargılarla ulaştırılır. Bu karbon fırçalar aşındığından DC motorlar belirli periyotlarla bakıma alınmalıdır. İyi kontrol edilebilme özelliklerinden dolayı DC motorlar otomasyon teknolojisinde sıkça kullanılmaktadır.

c- DC Motor Çeşitleri

Temel olarak Şönt (Shunt) ve seri sargılı DC motorlar bulunmaktadır. Bu sargıların çeşidine göre moment eğrisi değişmektedir.

d- DC Motorlarda Hız Kontrolü

Bu motorlarda devir değişimi DC voltajın değiştirilmesi ile yapılır. Şönt sarımlı DC motorların sıfır yük ile maximum yük arasındaki davranışı AC motorlara benzer. Devir artan yükle beraber düşer. Bu devir farkı ufak güçlü motorlarda büyük, büyük güçlü motorlarda ise ufaktır. Fakat bu hız farkı DC doğrultucu cihazda armatür voltajı (I x R) ile oynanarak kompanse edilebilir. Hassas hız kontrol gereksinimi olduğunda, tako jeneratörler kullanılabilir. DC motorların gücü aşağıdaki formülden hesaplanır;

$$P_g = U \times I = \frac{P_c}{\eta}$$

P_g : Giriş gücü W
P_C : Çıkış gücü W
U : Armatür gerilimi V
I : Armatür akımı A
η : Motor verimi

DC MOTORS

a- General Specifications of DC Motors

DC drive systems have found new possible applications with the development of the electronic components sector. What was previously extremely expensive and in some cases not economically feasible is nowadays realized by miniaturised power converter technology. Additional functions such as guided startup after a predetermined time, torque and current monitoring with electronic protection against overloading, and many inexpensive special applications have made DC drive systems more attractive.

b- Operating principles of the DC Motors

The DC motor requires, a converter with DC output. The motor includes windings, such as armature, field, commutation and compensation windings, which are arranged in the stator as well as on rotor. Voltage and current are supplied to the rotor via the carbon brushes and the commutator. The carbon brushes are wearing parts therefore a DC motor requires maintenance at service intervals. While its good control properties, the DC motor is an essential item in automation technology.

c- Types of DC Motors

Depending on the wiring of the exciting winding or field winding, two basically different variants are regards torque speed characteristics may be distinguished.

d- Speed Control of DC motors

In DC motors the speed is adjusted by altering the DC voltage. DC shunt wounded motors behave similar to three phase induction motors between no load operation and maximum load. The speed drops with increasing loading of the motor. This difference is greater in small motors and smaller in larger motors. The speed difference can compensated in the DC converter device by adjusting (I x R). If great control accuracy is required, a speed control with measurement of the actual values by a tachogenerator can be used. The power of DC motor;

$$P_g = U \times I = \frac{P_c}{\eta}$$

P_g *: Input Power W*
P_C *: Output Power W*
U *: Armature Voltage V*
I *: Armature Current A*
η *: Motor efficiency*

DC MOTOREN

a- Eigenschaften von DC Motoren

Mit den Entwicklungen bei elektronischen Komponenten haben DC Motoren neue Anwendungsbereiche gefunden. Regelungssysteme, die früher sehr teuer und im manchen Anwendungsfällen ungünstig waren, sind jetzt kompakt und günstig. Bei den DC Motoren ist kontrolliertes Anlauf, Moment- und Stromüberwachung mit Überlastschutz möglich. Es gibt viele günstige Sonderanwendungen für diese Motoren. Wegen oben genannten Eigenschaften werden die DC Motoren immer mehr bei unterschiedlichen Anwendungen benutzt.

b- Funktionsprinzip der DC Motoren

Bei DC Motoren ist eine Kommutatorwicklung im Rotor angeordnet, während der magnetische Fluss vom Stator erzeugt wird. Dies kann wiederum mittels einer Erregerwicklung oder durch Permanentmagnete geschehen. Wie bei der Synchronmaschine wird durch das Erregerfeld in der Ankerwicklung eine Wechselspannung, die bei der Gleichstrommaschine jedoch durch den mechanischen Kommutator und die darauf schleifenden Bürsten in eine Gleichspannung umgeformt wird, induziert.

c- Arten von DC Motoren

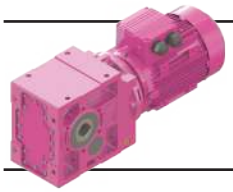
Es gibt zwei verschiedene Wicklungen, nämlich Shunt- und Serial-Wicklung. Das Drehmoment-Drehzahl-Verhältnis ist für beide Wicklungen unterschiedlich.

d- Drehzahl Kontrolle für DC Motoren

Drehzahl von DC Motoren kann man mit Steuerung der DC Spannung ändern. DC Motoren mit Shunt Wicklungen ist ähnlich zu drei phasen AC Motoren zwischen maximalen Last und ohne Last. Drehzahl wird mit der Last reduziert. Mit kleineren Motoren wird dieser Differenz höher mit großeren Motoren kleiner. Der Drehzahlunterschied kann geregelt werden mit (IxR) Veränderung. Wenn eine genaue Kontrolle gebraucht, soll ein Tachogenerator benutzt werden. Leistung des DC Motors;

$$P_g = U \times I = \frac{P_c}{\eta}$$

P_g : Eingangsleistung W
P_C : Ausgangsleistung W
U : Ankerspannung V
I : Ankerstrom A
η : Wirkungsgrad des Motors



Elektromanyetik Frenler

Bu tip frenlerin iki sürtünme yüzeyi vardır. Fren torku, voltaj uygulanmadığı zaman yayların kuvveti ile oluşturulur. Fren elektromanyetik alanın oluşumu ile serbest kalır. Bobinin beslenmesi ile mıknatıslanan balata baskı pulu, elektromıknatısa doğru çekilir. Bu hareket yayları baskı altına alır ve rotor mili üzerine takılan çoklu kama üzerinde aksiyal yönde serbest hareket edebilen balata serbest kalır. Akım kesildiğinde yayların baskısıyla, balata baskı pulu fren balatasına doğru itilir ve bu hareket rotoru frenler.

Fren Çeşitleri
a) Soğutmasız tip frenler
Motor fanı çıkarılıp motor kapağı arkasına akuple edilerek kullanılan frenler; genellikle sıkça açılıp kapanmayan ve kısa zaman aralıklarında çalışan sistemlerde tercih edilir.

b) Soğutmalı tip frenler
Motor fanı çıkarılıp motor kapağı arkasına akuple edilen ve motorun mili uzatılarak fren ve motorun arkasına alınan fan sayesinde daimi bir hava sirkülasyonu sağlanarak kullanılan frenlerdir. Genellikle uzun süreli çalışan ve kapalı mekanlarda kullanılan sistemlerde tercih edilirler.
c) Manuel kol sistemli frenler
Çalışma sistemi olarak her iki fren tipinde de kullanılabilir (soğutmalı veya soğutmasız). Özel durumlarda (elektrik kesilmesi; mekanik problemler) üzerinde bulunan bir kol vasıtası ile sistemi yay baskısından kurtararak serbest kalmasını sağlayan frenlerdir. Genellikle manuel olarak sistemin açılması gereken yerlerde (otomatik giriş kapıları, dış cepe boyama asansörleri v.b.) tercih edilir.

Fren çalışma voltajları
Elektromanyetik frenler 230V AC veya 400V AC beslemeli olarak sipariş edilebilir. Frenler DC fren olmaları nedeni ile besleme ile fren bobini arasında fren tipine bağlı olarak, yarım dalga, tam dalga doğrultucular veya trafolar kullanılır. Özel olarak belirtilmedikçe 230V beslemeli ve yarım dalga doğrultuculu frenler kullanılmaktadır. Özel durumlar için YILMAZ Redüktöre danışınız.

a) 230V AC ile beslenen frenler
Motor klemens kutusundan alınan 230V'luk AC besleme fren tipine bağlı olarak yarım dalga veya tam dalga doğrultucu ile fren bobininin voltajına düşürülür. Fren bobin DC voltajı etiketi üzerinde belirtilmiştir.
b) 400V AC ile beslenen DC frenler
Motor klemens kutusundan alınan 400V'luk AC besleme, yarım dalga doğrultucu ile fren bobininin voltajına düşürülür. Fren bobininin DC voltajı etiket üzerinde belirtilmiştir.
c) 24V DC Frenler
Kullanılan fren momentinin büyüklüğüne göre besleme transformatörü seçilir. Şebekeden veya motorun klemens kutusundan alınan besleme voltajı transformatörde 29 V'a çevrilen gerilim tam dalga doğrultuculardan geçerek 24V DC'ye çevrilir ve fren bobini beslenir.

Electromagnetic Brakes

This type of brakes has two friction surfaces. Brake torque is generated by springs when no voltage is applied. The brake is electromagnetically released. On exciting the electromagnet means of the current, the armature plate is pulled towards the electromagnet itself, thrust loading the pressure spring and enabling the friction disc which is axially movable on the key, to turn freely. When current fails, the pressured springs drive the armature plate towards the disc, thus braking the motor shaft.

Brake Types
a) Brakes without cooling
This type of brakes are assembled on the back cover of the electric motor. There is no fan on the backside. This brake type is mostly preferred in short working times and short working cycles.
b) Fan cooled brakes
This type of brakes are assembled on the back cover of electric motor by removing the electric motor fan. A fan is coupled to the backside of the brake by extending the rotor shaft of the electric motor. Fan cooled brakes are preferred in long working times and closed places without airflow.
c) Brakes with hand release
This brakes can be released by help of an arm. It can be applied to both of the above mentioned brakes and used in special cases (fail of electric current, mechanical problems etc.)These brakes are mostly preferred if operation (relasing) without a current is needed (automatic controlled doors, gates, building wall painting elevators etc.).

Working Voltages
Electromagnetic brakes can be ordered with 230V AC or 400V AC supply voltage. The coil of brakes needs DC voltage and therefore depending on brake type a half wave, a full wave rectifier or transformer should be used between supply and coil voltage. As standard the brakes will be delivered with 230V supply voltage and half wave rectifier, if there is no special request. For special cases please contact YILMAZ Reduktor.
a) Brakes with 230V supply voltage
230V AC supply voltage from the motor terminal box will be reduced to the coil voltage depending on the brake type with half-wave or full-wave rectifier. DC brake coil voltage is indicated on the label.
b) Brakes with 400V supply voltage
400V AC supply voltage from the motor terminal box will be reduced to the coil voltage with half-wave rectifier. DC brake coil voltage indicated on the label.
c) 24V DC Brakes
The transformator's size is selected according to value of brake torque. The current is taken from the electric motor terminal box or from the electric panel and is transformed to 29V DC current. This current is transferred to 24V DC current with full-wave rectifier and supplies brake coil.

Elektromagnetische Bremsen

Die Bremse hat zwei Reibflächen und arbeitet nach dem Ruhestromprinzip. Im stromlosen Zustand wird das Bremsmoment durch den Druck der Feder erzeugt, während die Bremse beim Betrieb elektromagnetisch losgelassen wird. Durch die Erregung der Elektromagneten wird die Ankerscheibe zu den Elektromagneten gezogen und die Feder zusammengedrückt. Dadurch kann sich die Bremsscheibe, die axial beweglich auf dem Mitnehmer angeordnet ist, frei drehen. Wird der Strom unterbrochen, drücken die Feder die Ankerscheibe gegen die Bremsscheibe und halten die Motorwelle an.

Bremsearten:
a)Bremsen ohne Kühlung
Diese Bremsen sind für Kurzlaufzeiten geeignet. Die Lüfterhaube und Lüfter des Motors ist ausgebaut und die Bremse ist an dem Ende der Motorwelle befestigt.

b)Bremsen mit Kühlung
Diese Bremsen sind für lange Laufzeiten und kleine, abgedeckte Räume geeignet. Durch die Verlängerung der Motorwelle wurde Lüfter hinter dem Bremse und dem Motor verbunden. Somit wurde eine konstante Lüftung ermöglicht.

c)Bremsen mit Hebelarm
Diese Bremsenart kann mit oder ohne Kühlung verwendet werden. Diese Bremsen sind bei der speziellen Fälle, wie keine Spannung an der Leitung, mechanische Probleme usw. , anwendbar. Die Bremse wird mit einem Hebelarm manuell betätigt. Diese Bremsen werden am meisten an den Stellen, wo die Lüftung ohne Spannung erfolgen soll, benutzt (automatische Türe, Wandaufzüge).

Betriebsspannungen
Elektromagnetische Bremsen können mit 230V AC oder 400V AC Versorgungsspannung bestellt werden. Die Wicklungen der Bremsen brauchen Gleichspannung und deswegen abhängig von Bremsenart zwischen Versorgungsspannung und Wicklungsspannung soll Halbwellen-, Vollweggleichrichter oder Transformator verwendet werden. Als Standard die Bremsen werden mit 230V Versorgungsspannung und Halbwellengleichrichter geliefert.
a) Bremsen mit 230V Versorgungsspannung
230V AC Versorgungsspannung von Klemmenkasten wird auf die Wicklungsspannung abhängig von der Bremsentyp mit Halbwellen-oder Vollweggleichrichter reduziert. Wicklungsspannung ist auf dem Etikett angegeben.
b) Bremsen mit 400V Versorgungsspannung
400V AC Versorgungsspannung von Klemmenkasten wird auf die Wicklungsspannung mit Halbwellengleichrichter reduziert. Wicklungsspannung ist auf dem Etikett angegeben.
c) 24 V DC Bremsen
Die Spannung wird von den Klemmkasten des Motors oder Elektrikschrank entnommen. Diese Spannung wird zuerst mittels Transformator zu 24 V reduziert. Danach wird diese Spannung mit Hilfe von Gleichrichter zu Gleichstromspannung umgewandelt. Die Größe des Transformators ist abhängig von der Größe des Bremsmoments.

d) Şok ikazlı trafolar
Büyük güçteki ve momentteki frenlerin manyetik doyuma ulaşmaları uzun zaman alır. Şok ikazlı trafolar frenin yay baskısını yenmede gecikmesini engellemek için kullanılır ve zaman rölesi yardımı ile çok kısa bir süre normal besleme voltajının iki katı ile (48V DC) beslenip sistemin ani açılmasını sağlar. Bu sayede gecikmeli açılmada ortaya çıkacak sürtünmeyi engellemeye yarayan bir trafo şeklidir.

Fren bağlantı şekli
a) Gecikmeli frenleme
Genellikle sistemin yavaş ve kaydırılarak durması gereken yerlerde tercih edilen bağlantı şeklidir. Vinç yürütme motorlarındaki sarsıntıyı önlemek için gecikmeli bağlantı şekli kullanılır. Frenler fabrika çıkışında gecikmeli bağlantıya uygun ayarlanır.

b) Ani frenleme
Genellikle sistemin enerjisi kesildiği anda ani olarak durdurulması gereken sistemlerde kullanılan bağlantı şeklidir. Vinç kaldırma sistemleri, asansör motorlarında kullanılan bağlantı şeklidir.

d) Shock voltage supply transformer
Brakes which consist of high power and torques take long time to get in electromagnetic field. Shock voltage supply transformers with time relay are aiming to overcome spring pressure delaying for brakes .Also this transformers provide to open system suddenly by feeding double(48V DC) voltage in a short time and preventing to frictional loses occurring in delayed opening.

Connection Types
a) Delayed Braking
Generally this type of connection uses in slow and sliding brake intended systems. Delayed connection type using to prevent shock loadings in crane driving systems. Brakes are setting up to delayed connection if any other types are not specified by customer

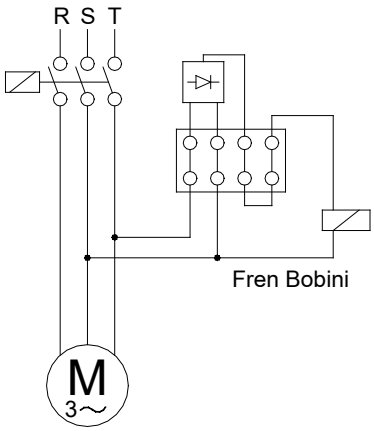
b) Sudden Braking
This type of connections are mostly used in systems when short braking times are needed. The braking torque will be produced as soon as the current fails. These brakes are mostly used in hoisting of lifting units and elevators.

d) Trafos mit Schock-Spannung
Diese Transformatoren werden bei großen Bremsen mit hohen Momenten verwendet. Da die große Bremse eine lange Zeit braucht, um die erforderliche magnetische Feld zu erzeugen, wird an der Bremse kurz 48V Gleichstromspannung angelegt, um die Zeit zur Bildung von magnetischem Feld zu kürzen. Dies ermöglicht kürzere Reibungszeiten beim Start.

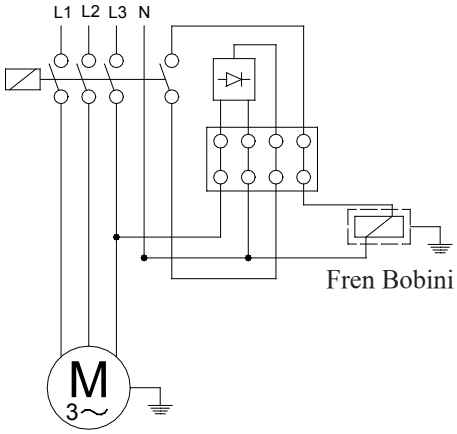
Schaltungsarten:
a)Verspätetes Bremsen
Diese Schaltung wird benutzt, wenn ein langsames und gleitendes Bremsen erforderlich ist. Am meisten wird es bei Fahrgetriebemotoren von Aufzügen verwendet. Wenn keine Angabe bei der Bestellung gegeben wird, werden die Bremsen mit verspäteter Schaltung geliefert.

b)Schnelles Bremsen:
Allgemein verwendet man diese Schaltung bei Bedarf an plötzlichen Bremsen in dem Augenblick, in dem das System keine Energie mehr erhält. Diese Schaltungsart wird meist bei Kräne und Motoren von Aufzüge verwendet.

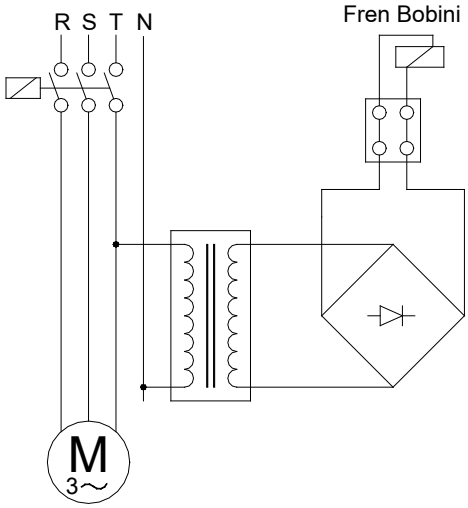
Gecikmeli Frenleme / *Delayed Running Brake* / Verspätete Bremsung
(230 V)



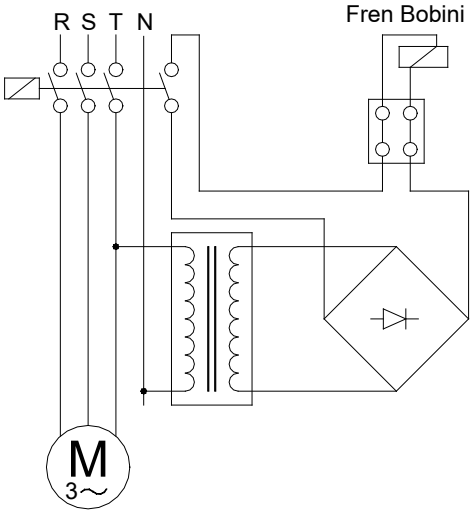
Ani Frenleme / *Sudden Brake* / Plötzliche Bremsung
(230 V)

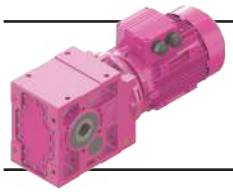


Gecikmeli Frenleme / *Delayed Running Brake* / Verspätete Bremsung
(24 V)



Ani Frenleme / *Sudden Brake* / Plötzliche Bremsung
(24 V)





Genel Bilgiler
General Information
Einführung

Fren Seçimi:

Doğru bir fren seçimi için aşağıdaki parametreler bilinmelidir.

- I_{tot} **[kg.m²]** : Motor miline indirgenmiş toplam atalet momenti
- n_0 **[d/dak]** :Maksimum motor devir sayısı
- t_f **[s]** :İstenilen en uzun frenlemezamanı
- c_t :Anahtarın devreye girme zamanı katsayısı (ortalama 0,995).
- M_L **[Nm]** : Sistemin statik tork ihtiyacı.
- C_s : Emniyet katsayısı (C_S≥2 olmalı)

Gerekli fren momenti aşağıdaki şekilde hesaplanır:

a)M_L Statik yük torku, motor dönüş yönünde (motorun dönüşüne yardımcı olarak, yükün indirilmesi veya hızlandırıcı sabit yük momenti hali):

$$M_{fc} = \frac{(2\pi \times n_0 \div 60) \times I_{tot}}{t_f \times c_t} + M_L$$

b) M_L Statik yük torku, motor aksi dönüş yönünde (motorun dönüşüne engel olarak, yükün yukarı kaldırılması veya frenleyici sabit yük/direnç momenti hali):

$$M_{fc} = \frac{(2\pi \times n_0 \div 60) \times I_{tot}}{t_f \times c_t} - M_L$$

Yukarıda bulunan sonuç C_S katsayısı ile çarpılarak (C_S ≥ 2), fren momenti seçilir;

$$M_f = M_{fc} \times C_s$$

Yaklaşım Yolu ile Fren Seçimi:
Eğer yalnızca motorun gücü ve en yüksek devri biliniyor ise :

W [Watt]: Motorun nominal gücü

$$M_f = \frac{W}{(\frac{2\pi \times n_0}{60})} \times C_s \quad (C_s \geq 2)$$

Brake Selection:

To select a brake correctly the following data are necessary;

- I_{tot} ***[kg . m²]*** *: The total inertia of rotating parts reduced at the motor shaft*
- n_0 ***[rpm]*** *: Maximum motor speed.*
- t_f***[s]*** *: The maximum admitted time of the braking.*
- c_t *: Coefficient of switch on time (average 0,995).*
- M_L ***[Nm]*** *: Required static torque of system.*
- C_s *: Safety coefficient (C_S ≥ 2)*

The neccessary braking torque calculates below;

a) The static load torque M_L ,same direction of motor rotation(Descent of a load or steady resisting torque which favours the rotation of the motor)

$$M_{fc} = \frac{(2\pi \times n_0 \div 60) \times I_{tot}}{t_f \times c_t} + M_L$$

b)The static load torque M_L ,opposes the rotation of the motor (Lifting of a load or steady resisting torque which opposes the rotation of the motor)

$$M_{fc} = \frac{(2\pi \times n_0 \div 60) \times I_{tot}}{t_f \times c_t} - M_L$$

The necessary braking torque will result from the following equation using C_S (C_S ≥ 2);

$$M_f = M_{fc} \times C_s$$

Approximated Brake Selection
Its only the motor power and its maximum speed are known:

W [Watt]: Motor Nominal Power

$$M_f = \frac{W}{(\frac{2\pi \times n_0}{60})} \times C_s \quad (C_s \geq 2)$$

Bremswahl:

Um die richtige Bremse auszuwählen, braucht man unten aufgelistete Variablen;

- I_{tot} **[kg . m²]** :Die Gesamtträgheit der rotierenden Teile(siehe Anwendungsbeispiele)
- n_0 **[U/min]** : Die höchste Drehzahl desMotors
- t_f **[s]** :Die längste zulässige Bremszeit
- c_t : Reduktionskoeffizient der Tätigkeitszeit (gemittelt 0,995).
- M_L **[Nm]** : Vom system benötigtes, statisches drehmoment.
- C_s : Sicherheitskoeffizient (C_S ≥ 2)

Die benötigte Bremskraft wird wie folgt berechnet:

a) konstantes Belastungsmoment M_L, das die Motordrehung fördert (konstante Erhöhung der Motorgeschwindigkeit oder Herunterlassen der Last)

$$M_{fc} = \frac{(2\pi \times n_0 \div 60) \times I_{tot}}{t_f \times c_t} + M_L$$

b) konstantes Belastungsmoment M_L, das sich entgegen der Motordrehung widersetzt (konstante Verminderung der Motorgeschwindigkeit oder Aufheben der Last)

$$M_{fc} = \frac{(2\pi \times n_0 \div 60) \times I_{tot}}{t_f \times c_t} - M_L$$

Wenn die Bremskraft mit dem Sicherheitskoeffizient C_S (C_S ≥ 2) multipliziert wird, erhält man die erforderliche Bremskraft;

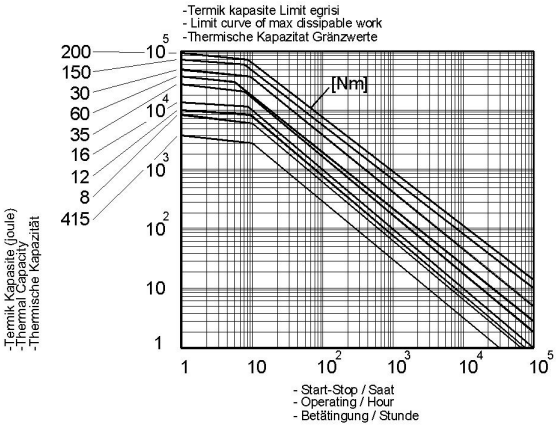
$$M_f = M_{fc} \times C_s$$

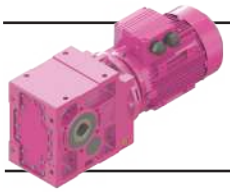
Abschätzung zur Bremswahl
Wenn man nur die Motorleistung und die höchste Drehzahl kennt, kann die Bremskraft mit der folgenden Formel annähernd berechnet werden:
W [Watt] : Nennleistung des Motors

$$M_f = \frac{W}{(\frac{2\pi \times n_0}{60})} \times C_s \quad (C_s \geq 2)$$

Standart Frenler / *Standard Brakes* / Standart Bremsen

Fren statik momenti [Nm] *Brake Static Torque [Nm]* Statische Bremskraft [Nm]	4,5	8	12	16	35	60	80	150	200
Fren Dinamik Momenti [Nm] *Brake Dynamic Torque [Nm]* Dynamische Bremskraft [Nm]	3,6	6,4	9,6	12,8	28	48	64	120	160
Maksimum Motor Hızı [d/dak] *Maximum Motor Speed [rpm]* Maximale Motordrehzahl [U/min]	3000	3000	3000	3000	3000	3000	3000	1500	1500
Giriş Gücü [W] *Input Power [W]* Antriebsleistung [W]	15	20	25	30	45	50	55	60	65





Frenin Termik Kapasitesi

Yukarıdaki seçime ek olarak frenin termik kapasitesinin kontrol edilmesi gerekir. L (joule) olarak gerekli soğutma işi aşağıdaki formüller ile hesaplanır ve ''Termik kapasite limit eğrisi'' kullanılarak eğrinin altında kalıp kalmadığı kontrol edilir.

a) M_L Statik yük torku motor dönüş yönünde (motorun dönüşüne yardımcı olarak, yükün indirilmesi hali)

$$L = \frac{I_{tot} \times (2\,\pi \times n_0 \div 60)^2}{2} \times \left(\frac{M_f}{M_f - M_L}\right)$$

b) M_L Statik yük torku motor aksi dönüş yönünde (motorun dönüşüne engel olarak, yükün kaldırılması hali):

$$L = \frac{I_{tot} \times (2\,\pi \times n_0 \div 60)^2}{2} \times \frac{M_f}{M_f + M_L}$$

c) M_L Statik yük torku sabit, motor yönünde veya aksi yönde (kaldırma ve indirme harici hızlandırıcı veya frenleyici sabit bir yük momenti hali).

$$L = \frac{I_{tot} \times (2\,\pi \times n_0 \div 60)^2}{2}$$

Fren Hava Boşluğunun Ayarı:

Frenden sürekli aynı performansın alınabilmesi için, fren balatasının aşınmasına bağlı olarak, fren hava boşluğu belirli zaman aralıklarında yeniden ayarlanmalıdır. Fren hava boşluğu ayar zaman aralığı ve ayarın yapılması için firmamıza danışınız.

Fren Seçim Örneği:
İstenilen en uzun frenleme zamanı: 0,5 sn.
Motor devri: 1400 d/dak
Motora indirgenmiş toplam atalet momenti: 0,08 kgm^2
Gerekli çalışma momenti: 50 Nm
Yük Durumu: Yük motor dönüş yönü ile aynı (Vinçten yük indirmesi: Saatte dur-kalk sayısı:30

$$M_{fc} = \frac{(2\,\pi \times 1400 \div 60)}{0,5 \times 0,995} + 50 = 73,6\ \text{Nm}$$

$$M_f = 73,6 \times 2 = 147,2\ \text{Nm}$$

Standart frenler tablosundan 150 Nm lik fren seçilebilir.
Gerekli termik kapasite;

$$L = \frac{0,08 \times (2\pi \times 1400 \div 60)^2}{2} \times \left(\frac{147,2}{147,2 - 50}\right)$$

=1302,0<18000 Joule (150 Nm eğrisinden)
150 Nm lik fren uygun görülüyor.

The Thermal Capacity of Brake

The thermal capacity of the brake must also be checked after the above mentioned calculations. The heat dissipation energy L (joule) can be calculated from the following equation and must be checked if the result is under the limit curve shown on ''Limit curve of may dissipable work''.

a) The static load torgue M_L ,favours the rotation of the motor (Descent of a load which favours the rotation of the motor)

$$L = \frac{I_{tot} \times (2\,\pi \times n_0 \div 60)^2}{2} \times \left(\frac{M_f}{M_f - M_L}\right)$$

b) The static load torgue M_L ,opposes the rotation of the motor (Lifting of a load which opposes the rotation of the motor)

$$L = \frac{I_{tot} \times (2\,\pi \times n_0 \div 60)^2}{2} \times \frac{M_f}{M_f + M_L}$$

c) The static load torgue M_L ,is constant and opposes or favours the rotation of the motor (except lifting of a load)

$$L = \frac{I_{tot} \times (2\,\pi \times n_0 \div 60)^2}{2}$$

Adjustment of the air-gap:

In order to obtain the same performance from the brake during its lifetime,the air-gap of the brake must be re-adjusted after a limited time of operation For the air-gap and the time interval of the adjustment please contact us.

Selection Example:
The maximum admitted time for braking 0,5 s
Motor speed: 1400 rpm
Total inertia reduced at motor shaft: 0,08 kgm^2

Required operating torque:50 Nm
Nature of load: Load direction is same as motor direction(Unloading process: Start-stop time per hour :30)

$$M_{fc} = \frac{(2\,\pi \times 1400 \div 60)}{0,5 \times 0,995} + 50 = 73,6\ \text{Nm}$$

$$M_f = 73,6 \times 2 = 147,2\ \text{Nm}$$

From the brake selection table a standard brake of 150 Nm is selected.
Necessary thermal capacity

$$L = \frac{0,08 \times (2\pi \times 1400 \div 60)^2}{2} \times \left(\frac{147,2}{147,2 - 50}\right)$$

=1302,0<18000 Joule (from 150 Nm curve)
The selected brake with 150 Nm is suitable.

Thermische Kapazität der Bremsen

Nach den oben genannten Berechnungen muss die Thermische Kapazität überprüft werden. Die Wärme, d.h. die gebrauchte Energie L, werden mit den folgenden Formeln berechnet. Die gerechnete Kapazitätswerte sollen unter dem Grenzkurve ''Thermische Kapazität Grenzwerte'' der gewählten Bremse liegen.

a) Konstantes Belastungsmoment M_L, das die Motordrehung fördert (Herunterlassen der Last)

$$L = \frac{I_{tot} \times (2\,\pi \times n_0 \div 60)^2}{2} \times \left(\frac{M_f}{M_f - M_L}\right)$$

b) Konstantes Belastungsmoment M_L , das sich entgegen der Motordrehung widersetzt (Aufheben der Last)

$$L = \frac{I_{tot} \times (2\,\pi \times n_0 \div 60)^2}{2} \times \frac{M_f}{M_f + M_L}$$

c) Konstantes Belastungsmoment M_L , das sich gegen der Motorbewegung widersetzt oder die Motorrotation fördert (Konstante Verminderung oder Erhöhung der Motorgeschwindigkeit, kein Herunterlassen oder Aufheben der Last)

$$L = \frac{I_{tot} \times (2\,\pi \times n_0 \div 60)^2}{2}$$

Einstellung des Luftspaltes:

Um eine immer konstant bleibende Bremsfähigkeit zu erhalten, muss das Luftspalt nach einer bestimmten Arbeitszeit neu eingestellt werden. Für die Bestimmung des Luftspaltes und die Einstellzeiten bitten wir Sie um Rückfrage.

Beispiel für eine Auswahl:
Die höchste zulässige Bremszeit: 0,5 s
Motordrehzahl: 1400 U/min
Gesamtträgheit der rotierenden Teile: 0,08 kgm^2
Das auf das System wirkende Drehmoment: 50 Nm
Belastungsart: Drehmoment, das die Motorrotation fördert (Herunterlassen der Last)
Betätigungen pro Stunde:30

$$M_{fc} = \frac{(2\,\pi \times 1400 \div 60)}{0,5 \times 0,995} + 50 = 73,6\ \text{Nm}$$

$$M_f = 73,6 \times 2 = 147,2\ \text{Nm}$$

Eine Bremse von 150 Nm kann man auswählen.

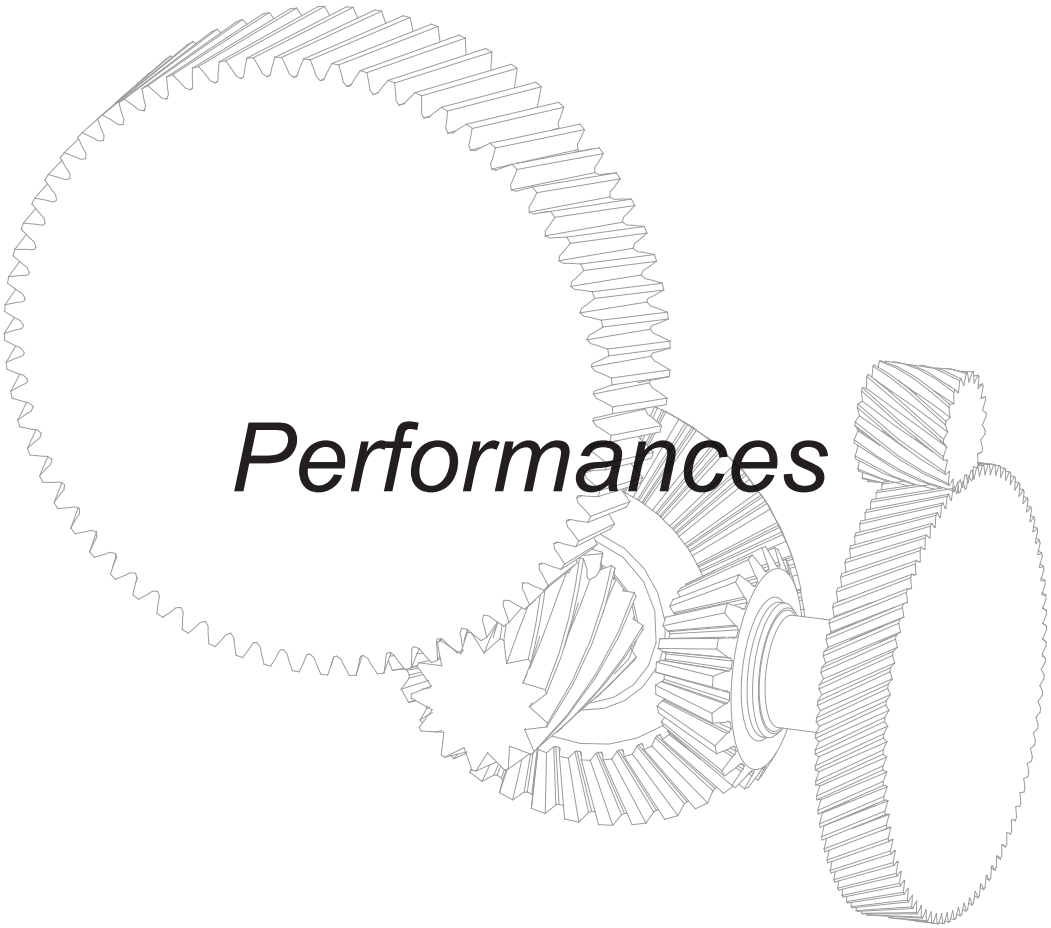
Die thermische Kapazität;

$$L = \frac{0,08 \times (2\pi \times 1400 \div 60)^2}{2} \times \left(\frac{147,2}{147,2 - 50}\right)$$

=1302,0<18000 Joule (von 150 Nm Kurve) Die ausgewählte 150 Nm Bremse ist ausreichend.

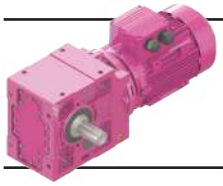
Notlar / *Notes* / Notizen

Güç ve Devir Tabloları



Performances

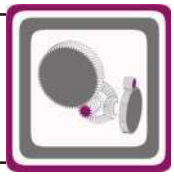
Leistung und Drehzahlübersicht



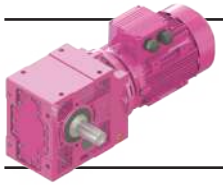
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



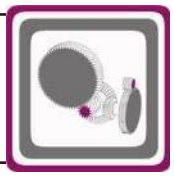
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
0,12 0,16	0,25 0,35 0,39 0,51 0,60	3535 2560 2277 1747 1478	**5587,93** **4047,32** **3597,31** **2755,47** **2328,84**	7240 23398 26003 29938 31626	0,8 1,1 1,2 1,5 1,8	**KR576-2E63M/4B**	0,42	156	168	IE2
	0,63 0,74 1,0	1447 1224 887	**2236,28** **1890,04** **1368,95**	31807 33033 34685	1,9 2,2 3,0	**KR575-2E63M/4B**	0,42	151	168	IE2
	0,49 0,53 0,56 0,64	1825 1696 1588 1392	**2873,07** **2663,91** **2495,47** **2183,54**	13041 14648 15826 17680	0,8 0,9 1,0 1,1	**KR476-2E63M/4B**	0,42	113	156	IE2
	0,79 0,95 1,0 1,1 1,2 1,4 1,6 1,7	1144 957 904 791 743 632 587 550	**1767,90** **1476,60** **1395,04** **1218,61** **1142,99** **971,77** **901,03** **844,06**	19651 20883 21205 21859 22124 22698 22917 23096	1,4 1,6 1,7 2,0 2,1 2,5 2,6 2,8	**KR475-2E63M/4B**	0,42	109	156	IE2
	0,8 0,9 1,0 1,2	1077 953 891 753	**1699,70** **1500,87** **1401,91** **1184,90**	7414 9855 10823 12605	0,8 0,9 0,9 1,1	**KR376-2E63M/4B**	0,42	68	144	IE2
	1,3 1,4 1,7 2,0 2,4 2,6 3,0 3,2	709 628 528 450 385 349 309 289	**1094,97** **968,01** **814,20** **692,22** **593,11** **536,75** **473,96** **442,71**	13096 13938 14798 15452 15919 16168 16429 16555	1,2 1,3 1,6 1,8 2,1 2,4 2,7 2,8	**KR375-2E63M/4B**	0,42	64	144	IE2
	1,0 1,2	855 724	**1347,72** **1139,09**	13774 14977	0,7 0,8	**KR286-2E63M/4B**	0,42	49	132	IE2
	1,3 1,5 1,8 2,1 2,5 2,7 3,1 3,3 3,9	681 603 508 432 370 335 296 277 234	**1052,64** **930,59** **782,73** **665,46** **570,18** **516,00** **455,64** **425,60** **359,71**	15307 15898 16527 16974 17307 17484 17670 17759 17948	0,9 1,0 1,2 1,4 1,6 1,8 2,0 2,2 2,6	**KR285-2E63M/4B**	0,42	49	132	IE2
	1,6 1,9	559 467	**881,79** **735,42**	11145 11863	0,8 1,0	**KR276-2E63M/4B**	0,42	30	120	IE2
	1,9 2,1 2,4	467 438 372	**719,79** **675,13** **573,99**	11862 12064 12488	1,0 1,0 1,2	**KR275-2E63M/4B**	0,42	29	120	IE2



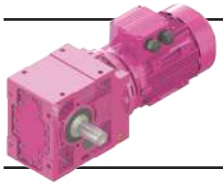
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

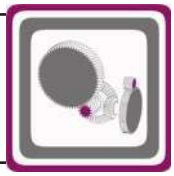
K Serien Getriebemotoren Leistung und Drehzahlübersicht



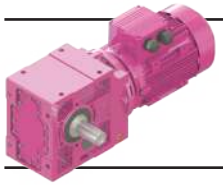
Güç *Power* Leistung P_g [kW] P_g [HP]	IE3 Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen n_2 [r.p.m]	IE3 Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente M_2 [Nm]	Çevrim Oranı *Ratio* Übersetzung i	IE3 Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) F_{qam} [N]	IE3 Servis Faktörü *Service Factors* Betriebsfaktor f_s	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom [A]	Ağırlık *Weight* Gewicht ~ [kg]	Ölçü Sayfası *Dim. Page* Maße Seite	* Motor Verim Snf. *Motor Eff. Class* Motor Effizienz-klasse
0,12 0,16	2,8 3,2 3,9 4,7 5,6 6,5 7,0 11	324 283 235 196 164 141 131 86	**498,55** **436,24** **360,73** **300,85** **252,20** **215,91** **200,35** **131,68**	12772 12990 13234 13412 13557 13646 13683 14145	1,4 1,6 1,9 2,3 2,7 3,2 3,4 4,0	**KR275-2E63M/4B**	0,42	29	120	IE2
	10 12	104 90	**138,53** **119,62**	10316 9906	2,7 3,1	**KR203-2E63M/4B**	0,42	26	112	IE2
	13 14 16 19 22 25	73 66 60 50 43 38	**108,56** **97,71** **88,40** **74,64** **63,93** **56,45**	8318 8105 7810 7337 6933 6627	2,7 3,0 3,4 4,0 4,0 4,0	**KR173-2E63M/4B**	0,42	20	108	IE2
	11 12 13 16 18 21 22	97 87 79 67 57 50 47	**129,27** **116,34** **105,26** **88,87** **76,13** **67,22** **62,79**	6729 6883 7001 7157 7256 7315 7342	1,4 1,6 1,8 2,1 2,5 2,8 3,0	**KR103-2E63M/4B**	0,42	15	104	IE2
	12 14 16 17 21 24 29 31 40 47 55 59	90 74 67 60 51 43 37 34 27 22 19 18	**120,91** **98,44** **89,62** **80,66** **67,44** **57,16** **48,93** **45,41** **35,34** **29,95** **25,64** **23,79**	3531 4201 4408 4585 4810 4944 5038 5072 4972 4742 4532 4433	0,9 1,1 1,2 1,3 1,6 1,9 2,2 2,3 3,0 3,6 4,0 4,0	**KR003-2E63M/4B**	0,42	15	100	IE2
	70 87 95 106 126 149 174 188	15 12 11 10 8 7 6 6	**19,88** **16,18** **14,73** **13,26** **11,09** **9,40** **8,04** **7,46**	4199 3946 3834 3712 3512 3334 3175 3101	4,0 4,0 4,0 4,0 4,0 4,0 4,0 4,0	**KR002-2E63M/4B**	0,42	14	100	IE2
0,18 0,25	0,12 0,13 0,16 0,18 0,21 0,24 0,27 0,31 0,35 0,39 0,44	12158 10764 9072 7727 6632 6008 5249 4634 4126 3698 3210	**7938,12** **7017,76** **5902,70** **5018,35** **4299,81** **3891,23** **3396,71** **2996,39** **2665,68** **2387,89** **2074,42**	96372 101842 107759 111973 115121 116636 118622 120155 121374 123281 128178	1,2 1,4 1,7 1,9 2,3 2,5 2,9 3,2 3,6 4,0 4,0	**KR876-2E71M/6B**	0,60	645	204	IE2



K Serisi Motorlu Güç Devir Sayfaları
K Series Geared Motors Performance Tables
K Serien Getriebemotoren Leistung und Drehzahlübersicht



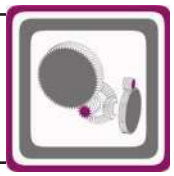
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
0,18 0,25	0,39 0,51 0,60	3604 2766 2340	**3597,31** **2755,47** **2328,84**	- 20604 25068	0,7 1,0 1,2	**KR576-2E63M/4C**	0,56	155	168	IE2
	0,63 0,74 1,0 1,2 1,5 1,8	2291 1938 1404 1248 959 812	**2236,28** **1890,04** **1368,95** **1216,74** **932,00** **787,70**	25513 28383 31902 32739 34264 34954	1,2 1,4 1,9 2,2 2,8 3,3	**KR575-2E63M/4C**	0,56	151	168	IE2
	0,79 0,95 1,0 1,1 1,2 1,4 1,6 1,7	1812 1515 1432 1253 1176 1000 929 870	**1767,90** **1476,60** **1395,04** **1218,61** **1142,99** **971,77** **901,03** **844,06**	12768 16283 17091 18641 19241 20486 20944 21342	0,9 1,0 1,1 1,2 1,3 1,5 1,7 1,8	**KR475-2E63M/4C**	0,56	109	156	IE2
	1,9 2,2 2,5 3,0 3,1	761 680 598 500 473	**472,63** **422,88** **371,35** **310,16** **293,03**	22172 22575 22937 23382 23501	2,0 2,3 2,6 3,1 3,3	**KR474-2E71M/6B**	0,60	99	152	IE2
	1,3 1,4 1,7 2,0 2,4	1123 994 837 712 610	**1094,97** **968,01** **814,20** **692,22** **593,11**	5584 8794 11365 12924 13987	0,7 0,8 1,0 1,2 1,3	**KR375-2E63M/4C**	0,56	69	144	IE2
	2,5 3,1 3,5	591 476 418	**367,43** **295,76** **259,36**	14465 15381 15796	1,4 1,7 2,0	**KR374-2E71M/6B**	0,60	61	140	IE2
	3,8 4,7 5,4	388 313 274	**367,43** **295,76** **259,36**	15848 16367 16610	2,1 2,6 3,0	**KR374-2E63M/4C**	0,56	58	140	IE2
	1,8 2,1 2,5	804 684 586	**782,73** **665,46** **570,18**	14151 15200 15951	0,7 0,9 1,0	**KR285-2E63M/4C**	0,56	48	132	IE2
	2,6 3,2 3,7	567 457 401	**353,22** **284,33** **249,33**	16274 16924 17220	1,1 1,3 1,5	**KR284-2E71M/6B**	0,60	46	128	IE2
	4,0 4,9 5,6 6,4	373 300 264 233	**353,22** **284,33** **249,33** **220,43**	17257 17626 17799 17935	1,6 2,0 2,3 2,6	**KR284-2E63M/4C**	0,56	43	128	IE2
	2,4 2,8 3,2 3,9 4,7	589 512 449 371 310	**573,99** **498,55** **436,24** **360,73** **300,85**	10785 11448 11945 12451 12816	0,8 0,9 1,0 1,2 1,5	**KR275-2E63M/4C**	0,56	28	120	IE2



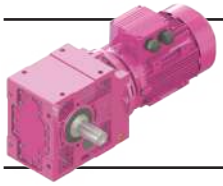
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

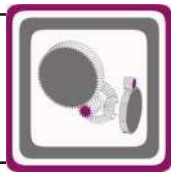
K Serien Getriebemotoren Leistung und Drehzahlübersicht



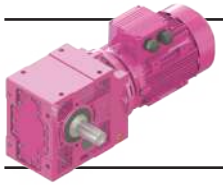
Güç *Power* Leistung P_g [kW] P_g [HP]	IE3 Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen n_2 [r.p.m]	IE3 Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente M_2 [Nm]	Çevrim Oranı *Ratio* Übersetzung i	IE3 Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) F_{qam} [N]	IE3 Servis Faktörü *Service Factors* Betriebsfaktor f_s	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom [A]	Ağırlık *Weight* Gewicht ~ [kg]	Ölçü Sayfası *Dim. Page* Maße Seite	Motor Verim Snf. * *Motor Eff. Class* Motor Effizienz-klasse
0,18 0,25	5,6 6,5 7,0	260 223 207	**252,20** **215,91** **200,35**	13085 13268 13343	1,7 2,0 2,2	**KR275-2E63M/4C**	0,56	28	120	IE2
	8,1 9,5 11	186 159 137	**113,65** **96,68** **83,48**	13475 13588 13672	2,4 2,8 3,3	**KR273-2E71M/6B**	0,60	29	116	IE2
	12 14	122 104	**113,65** **96,68**	13715 13835	3,7 4,0	**KR273-2E63M/4C**	0,56	27	116	IE2
	6,6 7,7 8,8 9,4	239 207 181 169	**138,53** **119,62** **104,49** **98,01**	8627 9260 9670 9834	1,2 1,4 1,6 1,7	**KR203-2E71M/6B**	0,60	18	112	IE2
	10 12 13 14 17	157 135 118 111 94	**138,53** **119,62** **104,49** **98,01** **83,32**	9866 9527 9212 9063 8687	1,8 2,1 2,4 2,5 3,0	**KR203-2E63M/4C**	0,56	25	112	IE2
	8,5 9 10	178 160 145	**108,56** **97,71** **88,40**	8120 8156 8024	1,1 1,2 1,4	**KR173-2E71M/6B**	0,60	14	108	IE2
	13 14 16 19 22 25 27	117 105 95 80 69 61 57	**108,56** **97,71** **88,40** **74,64** **63,93** **56,45** **52,73**	8235 8257 8024 7519 7091 6767 6597	1,7 1,9 2,1 2,5 2,9 3,3 3,5	**KR173-2E63M/4C**	0,56	16	108	IE2
	8,7 10	181 153	**105,26** **88,87**	4409 5481	0,8 0,9	**KR103-3E71M/6C** **KR103-2E71M/6B**	0,60	14	104	IE2
	11 12 13 16 18 21 22 26 32 37	146 131 119 100 86 76 71 60 50 43	**129,27** **116,34** **105,26** **88,87** **76,13** **67,22** **62,79** **53,07** **44,32** **38,22**	5455 5902 6228 6624 6873 7021 7086 6957 6622 6353	1,0 1,1 1,2 1,4 1,6 1,8 2,0 2,3 2,8 3,1	**KR103-2E63M/4C**	0,56	14	104	IE2
	16 17 21 24 29 31 40 47	101 91 76 65 55 51 40 34	**89,62** **80,66** **67,44** **57,16** **48,93** **45,41** **35,34** **29,95**	2782 3405 4058 4437 4678 4765 4802 4602	0,8 0,9 1,0 1,2 1,4 1,6 2,0 2,4	**KR003-2E63M/4C**	0,56	14	100	IE2



K Serisi Motorlu Güç Devir Sayfaları
K Series Geared Motors Performance Tables
K Serien Getriebemotoren Leistung und Drehzahlübersicht



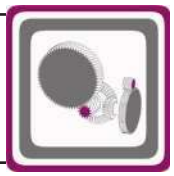
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
0,18 0,25	55 59	29 27	**25,64** **23,79**	4415 4326	2,7 3,0	**KR003-2E63M/4C**	0,56	14	100	IE2
	70 87 95 106 126 149 174 188	23 19 17 15 13 11 9,3 8,6	**19,88** **16,18** **14,73** **13,26** **11,09** **9,40** **8,04** **7,46**	4113 3879 3775 3661 3471 3303 3150 3079	3,5 4,0 4,0 4,0 4,0 4,0 4,0 4,0	**KR002-2E63M/4C**	0,56	14	100	IE2
	211 253 298 348 375	7,5 6,3 5,3 4,5 4,2	**13,26** **11,09** **9,40** **8,04** **7,46**	2923 2764 2624 2498 2440	4,0 4,0 4,0 4,0 4,0	**KR002-2E63M/2A**	0,50	9	100	IE2
0,25 0,34	0,16 0,18 0,20 0,24 0,28 0,33 0,37 0,42 0,48 0,53 0,60	12673 11132 9855 8306 7074 6072 5501 4806 4243 3777 3386	**9052,24** **7938,12** **7017,76** **5902,70** **5018,35** **4299,81** **3891,23** **3396,71** **2996,39** **2665,68** **2387,89**	93983 100294 104980 109927 113658 116464 117976 119816 121167 122163 126388	1,2 1,3 1,5 1,8 2,1 2,5 2,7 3,1 3,5 4,0 4,0	**KR876-2E71M/4B**	0,71	647	204	IE2
	0,20 0,22 0,25 0,32 0,36 0,41	10000 8920 7856 6331 5561 4924	**7156,22** **6380,72** **5610,63** **4516,30** **3960,44** **3501,26**	41071 49391 55893 63529 66795 69254	0,8 0,9 1,0 1,3 1,4 1,6	**KR776-2E71M/4B**	0,71	391	192	IE2
	0,69 0,80	2982 2574	**2066,04** **1786,65**	75548 76703	2,7 3,1	**KR775-2E71M/4B**	0,71	391	192	IE2
	0,37 0,42 0,50 0,59 0,68	5379 4762 4014 3419 2934	**3844,04** **3398,35** **2858,39** **2430,14** **2082,19**	13985 23714 31305 35760 38846	0,8 0,9 1,1 1,3 1,5	**KR676-2E71M/4B**	0,71	317	180	IE2
	0,76 0,89 1,0 1,2 1,4 1,6	2698 2294 1974 1715 1500 1320	**1875,03** **1597,25** **1373,07** **1191,60** **1041,68** **915,75**	40199 42315 43773 44927 45867 46541	1,6 1,9 2,2 2,5 2,9 3,3	**KR675-2E71M/4B**	0,71	315	180	IE2
	0,64 0,75 1,0 1,2 1,5 1,8	3191 2700 1956 1739 1337 1131	**2236,28** **1890,04** **1368,95** **1216,74** **932,00** **787,70**	16952 22886 28913 30365 32610 33654	0,8 1,0 1,4 1,6 2,0 2,4	**KR575-2E71M/4B**	0,71	155	168	IE2



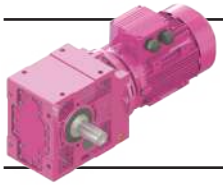
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



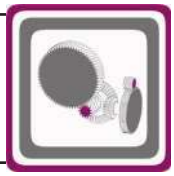
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
0,25 0,34	2,0 2,3	1072 907	**469,74** **397,01**	33992 34694	2,5 3,0	**KR574-2E71M/6C**	0,78	163	164	IE2
	1,0 1,2 1,2 1,5 1,6 1,7	1995 1745 1638 1394 1295 1213	**1395,04** **1218,61** **1142,99** **971,77** **901,03** **844,06**	11495 14733 15892 18047 18816 19393	0,8 0,9 0,9 1,1 1,2 1,3	**KR475-2E71M/4B**	0,71	112	156	IE2
	1,9 2,2 2,5	1079 965 848	**472,63** **422,88** **371,35**	20346 21045 21708	1,4 1,6 1,8	**KR474-2E71M/6C**	0,78	117	152	IE2
	3,0 3,4 3,8 4,6	696 623 548 458	**472,63** **422,88** **371,35** **310,16**	22459 22819 23170 23565	2,2 2,5 2,8 3,4	**KR474-2E71M/4B**	0,71	97	152	IE2
	2,1 2,4	992 850	**692,22** **593,11**	9709 11751	0,8 1,0	**KR375-2E71M/4B**	0,71	71	144	IE2
	2,5 3,1 3,5	838 675 592	**367,43** **295,76** **259,36**	11952 13705 14452	1,0 1,2 1,4	**KR374-2E71M/6C**	0,78	63	140	IE2
	3,9 4,8 5,5	541 435 382	**367,43** **295,76** **259,36**	14862 15638 16006	1,5 1,9 2,1	**KR374-2E71M/4B**	0,71	63	140	IE2
	6,2 7,2 8,3	346 297 258	**148,75** **127,30** **110,61**	16244 16551 16778	2,4 2,8 3,2	**KR373-2E71M/6C**	0,78	58	136	IE2
	3,2 3,7	648 569	**284,33** **249,33**	15743 16265	0,9 1,1	**KR284-2E71M/6C**	0,78	47	128	IE2
	4,0 5,0 5,7	520 418 367	**353,22** **284,33** **249,33**	16555 17122 17382	1,2 1,4 1,6	**KR284-2E71M/4B**	0,71	46	128	IE2
	6,4 7,5 8,7	332 285 248	**143,00** **122,38** **106,33**	17555 17770 17928	1,8 2,1 2,4	**KR283-2E71M/6C**	0,78	36	124	IE2
	4,0 4,7 5,7 6,6 7,1	517 432 362 311 289	**360,73** **300,85** **252,20** **215,91** **200,35**	11610 12197 12602 12885 12999	0,9 1,0 1,2 1,4 1,6	**KR275-2E71M/4B**	0,71	33	120	IE2
	8,1 9,5	265 225	**113,65** **96,68**	13120 13304	1,7 2,0	**KR273-2E71M/6C**	0,78	23	116	IE2



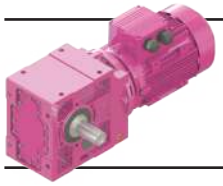
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



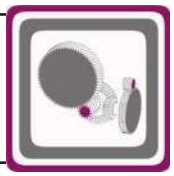
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
0,25 0,34	11	195	**83,48**	13438	2,3	**KR273-2E71M/6C**	0,78	23	116	IE2
	13 15 17 20	171 145 126 110	**113,65** **96,68** **83,48** **72,92**	13539 13640 13715 13811	2,6 3,1 3,6 4,0	**KR273-2E71M/4B**	0,71	31	116	IE2
	6,6 7,7 8,8 9,4	333 288 251 236	**138,53** **119,62** **104,49** **98,01**	5687 7369 8343 8691	0,8 1,0 1,1 1,2	**KR203-2E71M/6C**	0,78	29	112	IE2
	10 12 14 15 17 20 23 27	215 186 162 152 129 113 99 82	**138,53** **119,62** **104,49** **98,01** **83,32** **72,37** **63,33** **52,37**	9100 8885 8634 8512 8200 7923 7660 7287	1,3 1,5 1,7 1,8 2,2 2,5 2,8 3,4	**KR203-2E71M/4B**	0,71	28	112	IE2
	8,5 9,4 10 12	253 228 206 174	**108,56** **97,71** **88,40** **74,64**	7920 7997 8048 7725	0,8 0,9 1,0 1,1	**KR173-2E71M/6C**	0,78	19	108	IE2
	13 15 16 19 22 25 27 32 38 44	163 147 133 112 96 85 80 67 56 49	**108,56** **97,71** **88,40** **74,64** **63,93** **56,45** **52,73** **44,57** **37,22** **32,10**	8155 8185 8214 7725 7269 6926 6746 6325 5909 5590	1,2 1,4 1,5 1,8 2,1 2,3 2,5 3,0 3,6 4,0	**KR173-2E71M/4B**	0,71	18	108	IE2
	12 14 16 19 21 23 27 32 37 40 43 51	180 163 138 118 104 97 82 69 59 55 51 43	**116,34** **105,26** **88,87** **76,13** **67,22** **62,79** **53,07** **44,32** **38,22** **35,22** **32,90** **27,81**	4438 5147 5917 6381 6648 6765 6580 6290 6052 5922 5814 5551	0,8 0,9 1,0 1,2 1,3 1,4 1,7 2,0 2,3 2,5 2,5 2,9	**KR103-2E71M/4B**	0,71	15	104	IE2
	56 67 75	40 33 30	**25,50** **21,25** **19,13**	6012 5638 5434	3,0 3,4 3,6	**KR102-2E71M/4B**	0,71	15	104	IE2
	21 25 29 31 40	104 89 76 71 55	**67,44** **57,16** **48,93** **45,41** **35,34**	2913 3732 4200 4366 4498	0,8 0,9 1,1 1,1 1,5	**KR003-2E71M/4B**	0,71	15	100	IE2



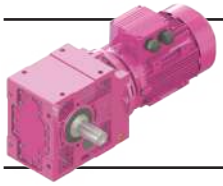
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



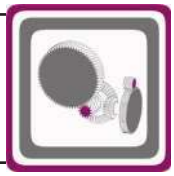
Güç *Power* Leistung P_g [kW] P_g [HP]	IE3 Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen n_2 [r.p.m]	IE3 Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente M_2 [Nm]	Çevrim Oranı *Ratio* Übersetzung i	IE3 Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) F_{qam} [N]	IE3 Servis Faktörü *Service Factors* Betriebsfaktor f_s	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom [A]	Ağırlık *Weight* Gewicht ~ [kg]	Ölçü Sayfası *Dim. Page* Maße Seite	Motor Verim Snf. * *Motor Eff. Class* Motor Effizienz-klasse
0,25	48	47	**29,95**	4334	1,7	**KR003-2E71M/4B**	0,71	15	100	IE2
0,34	56	40	**25,64**	4176	2,0					
	60	37	**23,79**	4100	2,2					
	72	31	**19,88**	3912	2,6	**KR002-2E71M/4B**	0,71	14	100	IE2
	88	26	**16,18**	3704	2,9					
	97	23	**14,73**	3610	3,2					
	107	21	**13,26**	3507	3,6					
	129	17	**11,09**	3334	4,0					
	152	15	**9,40**	3178	4,0					
	177	13	**8,04**	3036	4,0					
	191	12	**7,46**	2970	4,0					
	190	12	**14,73**	2969	4,0	**KR002-2E63M/2B**	0,67	14	100	IE2
	211	11	**13,26**	2877	4,0					
	253	8,8	**11,09**	2725	4,0					
	298	7,5	**9,40**	2590	4,0					
	348	6,4	**8,04**	2469	4,0					
	375	5,9	**7,46**	2412	4,0					
0,37	0,14	22318	**6741,12**	68563	0,9	**KR976-2E80M/6A**	1,08	1098	216	IE2
0,50	0,17	17727	**5350,83**	78718	1,1					
	0,22	13910	**4189,63**	85543	1,4					
	0,26	11644	**3499,30**	89007	1,7					
	0,28	11009	**3306,00**	89904	1,8					
	0,33	9374	**2811,23**	92132	2,1					
	0,39	7849	**2348,01**	93967	2,5					
	0,42	7421	**2218,31**	94484	2,7					
	0,47	6647	**1985,89**	95380	3,0					
	0,58	5412	**1585,92**	96726	3,7	**KR975-2E80M/6A**	1,08	1093	216	IE2
	0,65	4862	**1423,89**	97895	4,0					
	0,24	12673	**5902,70**	93986	1,2	**KR876-2E71M/4C**	1,00	647	204	IE2
	0,28	10794	**5018,35**	101578	1,4					
	0,33	9264	**4299,81**	107005	1,6					
	0,37	8393	**3891,23**	109836	1,8					
	0,42	7333	**3396,71**	112900	2,0					
	0,48	6474	**2996,39**	115362	2,3					
	0,53	5763	**2665,68**	117288	2,6					
	0,60	5166	**2387,89**	118834	2,9					
	0,69	4484	**2074,42**	120596	3,3					
	0,75	4165	**1891,08**	121282	3,6	**KR875-2E71M/4C**	1,00	645	204	IE2
	0,85	3686	**1671,18**	123252	4,0					
	0,95	3299	**1495,27**	127227	4,0					
	0,32	9660	**4516,30**	43792	0,8	**KR776-2E71M/4C**	1,00	389	192	IE2
	0,36	8485	**3960,44**	52309	0,9					
	0,41	7512	**3501,26**	57772	1,1					
	0,69	4550	**2066,04**	70492	1,8	**KR775-2E71M/4C**	1,00	387	192	IE2
	0,80	3927	**1786,65**	72622	2,0					
	0,92	3404	**1547,01**	74285	2,4					
	1,1	2980	**1353,02**	75554	2,7					
	1,2	2629	**1192,77**	76552	3,0					



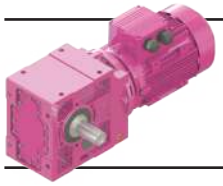
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



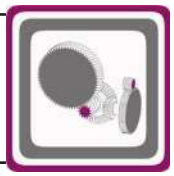
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
0,37 0,50	0,59 0,68	5216 4477	**2430,14** **2082,19**	17163 26845	0,8 1,0	**KR676-2E71M/4C**	1,00	250	180	IE2
	0,76 0,89 1,0 1,2 1,4 1,6 1,8 2,0 2,2	4117 3501 3012 2617 2289 2014 1783 1596 1404	**1875,03** **1597,25** **1373,07** **1191,60** **1041,68** **915,75** **809,27** **724,08** **635,86**	30390 35191 38300 40646 42341 43590 44633 45432 46212	1,0 1,2 1,4 1,6 1,9 2,1 2,4 2,7 3,1	**KR675-2E71M/4C**	1,00	246	180	IE2
	1,0 1,2 1,5 1,8	2984 2654 2039 1725	**1368,95** **1216,74** **932,00** **787,70**	19659 23352 28381 30450	0,9 1,0 1,3 1,6	**KR575-2E71M/4C**	1,00	184	168	IE2
	2,0 2,3 2,8	1627 1377 1142	**469,74** **397,01** **328,56**	31010 32395 33599	1,7 2,0 2,4	**KR574-2E80M/6A**	1,08	160	164	IE2
	3,0 3,6	1056 894	**469,74** **397,01**	34013 34755	2,6 3,0	**KR574-2E71M/4C**	1,00	152	164	IE2
	2,0 2,2 2,5	1637 1464 1287	**472,63** **422,88** **371,35**	15838 17441 18861	0,9 1,1 1,2	**KR474-2E80M/6A**	1,08	99	152	IE2
	3,0 3,4 3,8 4,6 4,9	1062 950 835 699 660	**472,63** **422,88** **371,35** **310,16** **293,03**	20423 21109 21728 22447 22637	1,5 1,6 1,9 2,2 2,3	**KR474-2E71M/4C**	1,00	97	152	IE2
	6,0 6,8 8,4	543 481 392	**153,47** **135,98** **110,65**	23177 23477 23849	2,9 3,2 4,0	**KR473-2E80M/6A**	1,08	92	148	IE2
	3,1 3,6	1024 899	**295,76** **259,36**	9149 11098	0,8 0,9	**KR374-2E80M/6A**	1,08	65	140	IE2
	3,9 4,8 5,5 6,2	825 664 583 516	**367,43** **295,76** **259,36** **229,29**	12058 13757 14509 15058	1,0 1,2 1,4 1,6	**KR374-2E71M/4C**	1,00	63	140	IE2
	7,3 8,4	450 391	**127,30** **110,61**	15535 15946	1,8 2,1	**KR373-2E80M/6A**	1,08	61	136	IE2
	9,6 11 13	342 293 255	**148,75** **127,30** **110,61**	16272 16574 16807	2,4 2,8 3,2	**KR373-2E71M/4C**	1,00	59	136	IE2
	5,0 5,7	638 560	**284,33** **249,33**	15791 16305	0,9 1,1	**KR284-2E71M/4C**	1,00	47	128	IE2



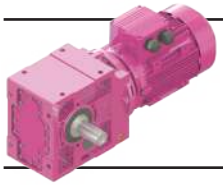
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



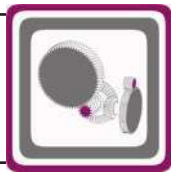
Güç *Power* Leistung P_g [kW] P_g [HP]	IE3 Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen n_2 [r.p.m]	IE3 Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente M_2 [Nm]	Çevrim Oranı *Ratio* Übersetzung i	IE3 Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) F_{qam} [N]	IE3 Servis Faktörü *Service Factors* Betriebsfaktor f_s	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom [A]	Ağırlık *Weight* Gewicht ~ [kg]	Ölçü Sayfası *Dim. Page* Maße Seite	Motor Verim Snf. * *Motor Eff. Class* Motor Effizienz-klasse
0,37 0,50	6,5 7,7	496 418	**220,43** **185,40**	16694 17126	1,2 1,4	**KR284-2E71M/4C**	1,00	47	128	IE2
	8,7	376	**106,33**	17337	1,6	**KR283-2E80M/6A**	1,08	39	124	IE2
	10 12 13 15 19 22	328 281 245 215 173 152	**143,00** **122,38** **106,33** **93,50** **75,26** **66,00**	17569 17781 17938 18036 18203 18284	1,8 2,1 2,5 2,8 3,5 3,9	**KR283-2E71M/4C**	1,00	37	124	IE2
	4,7 5,7 6,6 7,1	659 553 474 441	**300,85** **252,20** **215,91** **200,35**	10434 11342 11916 12141	0,7 0,8 0,9 1,0	**KR275-2E71M/4C**	1,00	33	120	IE2
	9,6 11	342 295	**96,68** **83,48**	12719 12966	1,3 1,5	**KR273-2E80M/6A**	1,08	43	116	IE2
	13 15 17 20 21 25 28 32	261 222 192 168 158 134 117 102	**113,65** **96,68** **83,48** **72,92** **68,40** **58,15** **50,51** **44,20**	13136 13317 13449 13549 13591 13683 13749 13953	1,7 2,0 2,3 2,7 2,9 3,4 3,9 4,0	**KR273-2E71M/4C**	1,00	33	116	IE2
	9,4	347	**98,01**	4860	0,8	**KR203-2E80M/6A**	1,08	32	112	IE2
	10 12 14 15 17 20 23 27 33 37	319 275 241 226 192 167 146 121 101 88	**138,53** **119,62** **104,49** **98,01** **83,32** **72,37** **63,33** **52,37** **43,67** **38,16**	6243 7697 7890 7817 7616 7420 7223 6929 6640 6424	0,9 1,0 1,2 1,2 1,5 1,7 1,9 2,3 2,8 3,2	**KR203-2E71M/4C**	1,00	29	112	IE2
	12	264	**74,64**	7889	0,8	**KR173-2E80M/6A**	1,08	20	108	IE2
	13 15 16 19 22 25 27 32 38	250 225 203 172 147 130 122 103 86	**108,56** **97,71** **88,40** **74,64** **63,93** **56,45** **52,73** **44,57** **37,22**	7936 7998 8057 8057 7559 7185 6990 6535 6086	0,8 0,9 1,0 1,2 1,4 1,5 1,6 1,9 2,3	**KR173-2E71M/4C**	1,00	18	108	IE2



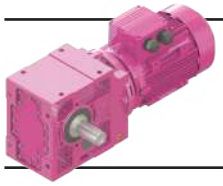
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



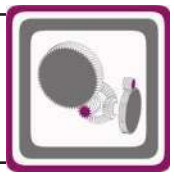
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
0,37 0,50	44 51 58 62 74	74 64 57 53 45	**32,10** **27,74** **24,50** **22,88** **19,34**	5745 5431 5179 5046 4737	2,7 3,1 3,5 3,8 4,0	**KR173-2E71M/4C**	1,00	18	108	IE2
	19 21 23 27 32 37 40 43 51	175 155 145 122 102 88 81 76 64	**76,13** **67,22** **62,79** **53,07** **44,32** **38,22** **35,22** **32,90** **27,81**	4642 5410 5721 6138 5925 5740 5636 5548 5328	0,8 0,9 1,0 1,1 1,4 1,5 1,7 1,7 1,9	**KR103-2E71M/4C**	1,00	16	104	IE2
	56 67 75 82 98	60 50 45 41 34	**25,50** **21,25** **19,13** **17,30** **14,61**	6095 5709 5498 5306 4997	2,0 2,3 2,5 2,7 3,2	**KR102-2E71M/4C**	1,00	16	104	IE2
	31 40 48 56 60	105 81 69 59 55	**45,41** **35,34** **29,95** **25,64** **23,79**	2897 4010 4004 3897 3842	0,8 1,0 1,2 1,3 1,5	**KR003-2E71M/4C**	1,00	15	100	IE2
	72 88 97 107 129 152 177 191	46 38 35 31 26 22 19 18	**19,88** **16,18** **14,73** **13,26** **11,09** **9,40** **8,04** **7,46**	3696 3530 3453 3366 3217 3080 2952 2892	1,7 2,0 2,2 2,4 2,9 3,2 3,4 3,7	**KR002-2E71M/4C**	1,00	15	100	IE2
	189 210 252 297 347 374	18 16 13 11 9,6 8,9	**14,73** **13,26** **11,09** **9,40** **8,04** **7,46**	2894 2810 2670 2544 2430 2376	3,4 3,8 4,0 4,0 4,0 4,0	**KR002-2E71M/2A**	0,90	14	100	IE2
0,55 0,75	0,21 0,27 0,34 0,41 0,44 0,51 0,61 0,65 0,73	21311 16927 13282 11119 10512 8951 7495 7086 6347	**6741,12** **5350,83** **4189,63** **3499,30** **3306,00** **2811,23** **2348,01** **2218,31** **1985,89**	71126 80281 86503 89577 90570 92516 94410 94891 95727	0,9 1,2 1,5 1,8 1,9 2,2 2,7 2,8 3,2	**KR976-2E80M/4B**	1,45	1103	216	IE2
	0,91 1,0	5167 4643	**1585,92** **1423,89**	96993 99024	3,9 4,0	**KR975-2E80M/4B**	1,45	1098	216	IE2
	0,42 0,48 0,54	10787 9523 8478	**3396,71** **2996,39** **2665,68**	101600 106126 109566	1,4 1,6 1,8	**KR876-2E80M/4B**	1,45	654	204	IE2



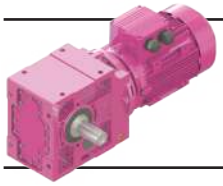
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



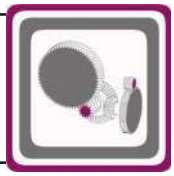
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
0,55 0,75	0,60 0,69	7599 6596	**2387,89** **2074,42**	112266 115149	2,0 2,3	**KR876-2E80M/4B**	1,45	654	204	IE2
	0,76 0,86 0,96 1,1 1,3 1,5	6126 5423 4853 4269 3574 3123	**1891,08** **1671,18** **1495,27** **1313,07** **1096,71** **957,34**	116259 118129 119576 121000 124461 128847	2,4 2,8 3,1 3,5 4,0 4,0	**KR875-2E80M/4B**	1,45	650	204	IE2
	0,70 0,81 0,93 1,1 1,2 1,4 1,5 1,7 1,9	6693 5777 5007 4383 3867 3433 3063 2711 2427	**2066,04** **1786,65** **1547,01** **1353,02** **1192,77** **1058,16** **943,49** **833,78** **746,01**	61869 65911 68941 71183 72906 74160 75280 76295 77083	1,2 1,4 1,6 1,8 2,1 2,3 2,6 3,0 3,3	**KR775-2E80M/4B**	1,45	392	192	IE2
	0,90 1,0 1,2 1,4 1,6 1,8 2,0 2,3	5149 4431 3849 3367 2962 2622 2347 2065	**1597,25** **1373,07** **1191,60** **1041,68** **915,75** **809,27** **724,08** **635,86**	18299 27374 32584 36109 38680 40614 42051 43418	0,8 1,0 1,1 1,3 1,5 1,6 1,8 2,1	**KR675-2E80M/4B**	1,45	319	180	IE2
	2,6 2,9 3,4 4,0	1873 1658 1410 1214	**363,81** **321,51** **273,88** **235,44**	44261 45193 46204 46959	2,3 2,6 3,0 3,5	**KR674-2E80M/6B**	1,50	205	176	IE2
	1,5 1,8	3000 2538	**932,00** **787,70**	19523 24386	0,9 1,1	**KR575-2E80M/4B**	1,45	153	168	IE2
	2,0 2,3 2,8	2400 2031 1685	**469,74** **397,01** **328,56**	25521 28384 30658	1,1 1,3 1,6	**KR574-2E80M/6B**	1,50	157	164	IE2
	3,1 3,6 4,4 5,1 5,8	1553 1315 1091 933 820	**469,74** **397,01** **328,56** **281,00** **246,42**	31472 32773 33884 34563 35063	1,7 2,1 2,5 2,9 3,3	**KR574-2E80M/4B**	1,45	154	164	IE2
	2,5	1899	**371,35**	12782	0,8	**KR474-2E80M/6B**	1,50	101	152	IE2
	3,0 3,4 3,9 4,6 4,9	1563 1398 1229 1028 971	**472,63** **422,88** **371,35** **310,16** **293,03**	16587 18011 19300 20640 20983	1,0 1,1 1,3 1,5 1,6	**KR474-2E80M/4B**	1,45	101	152	IE2
	6,1 6,9	803 711	**153,47** **135,98**	21919 22395	1,9 2,2	**KR473-2E80M/6B**	1,50	93	148	IE2



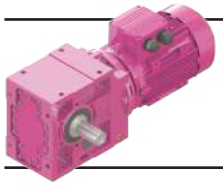
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



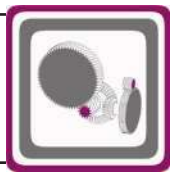
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
0,55 0,75	8,4	580	**110,65**	23030	2,7	**KR473-2E80M/6B**	1,50	93	148	IE2
	9,4 11 13	520 461 376	**153,47** **135,98** **110,65**	23280 23565 24142	3,0 3,4 4,0	**KR473-2E80M/4B**	1,45	93	148	IE2
	4,9 5,6 6,3	977 858 759	**295,76** **259,36** **229,29**	9956 11651 12812	0,8 1,0 1,1	**KR374-2E80M/4B**	1,45	66	140	IE2
	7,3 8,4 9,6	665 579 509	**127,30** **110,61** **97,26**	13748 14514 16830	1,2 1,4 1,6	**KR373-2E80M/6B**	1,50	63	136	IE2
	11 13 15 18	431 375 330 266	**127,30** **110,61** **97,26** **78,29**	15691 16072 16338 16727	1,9 2,2 2,5 3,1	**KR373-2E80M/4B**	1,45	62	136	IE2
	6,5 7,8	729 614	**220,43** **185,40**	15122 15962	0,8 1,0	**KR284-2E80M/4B**	1,45	50	128	IE2
	8,8 10 12	556 489 394	**106,33** **93,50** **75,26**	16320 16830 17241	1,1 1,2 1,5	**KR283-2E80M/6B**	1,50	40	124	IE2
	14 15 19 22 25 29	360 317 255 224 198 167	**106,33** **93,50** **75,26** **66,00** **58,35** **49,08**	17416 17620 17892 18021 18124 18243	1,7 1,9 2,3 2,7 3,0 3,6	**KR283-2E80M/4B**	1,45	40	124	IE2
	7,2	648	**200,35**	10534	0,7	**KR275-2E80M/4B**	1,45	37	120	IE2
	9,6 11 13	505 437 382	**96,68** **83,48** **72,92**	11685 12163 12494	0,9 1,0 1,2	**KR273-2E80M/6B**	1,50	34	116	IE2
	15 17 20 21 25 29 33 39 47	327 283 248 232 198 172 151 125 104	**96,68** **83,48** **72,92** **68,40** **58,15** **50,51** **44,20** **36,55** **30,48**	12809 13023 13197 13268 13423 13532 13618 13718 13923	1,4 1,6 1,8 1,9 2,3 2,6 3,0 3,6 4,0	**KR273-2E80M/4B**	1,45	36	116	IE2
	14 15 17 20 23 27	355 333 283 246 215 178	**104,49** **98,01** **83,32** **72,37** **63,33** **52,37**	4449 5626 6693 6625 6533 6363	0,8 0,8 1,0 1,1 1,3 1,6	**KR203-2E80M/4B**	1,45	32	112	IE2



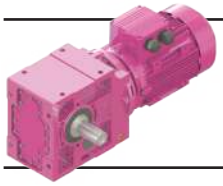
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



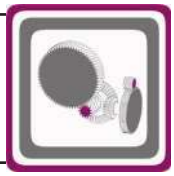
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
0,55 0,75	33 38 46 55	149 130 108 90	**43,67** **38,16** **31,55** **26,31**	6170 6014 5779 5545	1,9 2,2 2,6 2,9	**KR203-2E80M/4B**	1,45	32	112	IE2
	61	82	**23,79**	6415	3,4	**KR202-2E80M/4B**	1,45	32	112	IE2
	19 23 26 27 32 39 45 52 59 63 74 89 103	253 217 192 179 152 127 109 95 84 78 66 55 48	**74,64** **63,93** **56,45** **52,73** **44,57** **37,22** **32,10** **27,74** **24,50** **22,88** **19,34** **16,15** **13,93**	7924 7958 7546 7330 6830 6338 5966 5624 5352 5209 4876 4547 4296	0,8 0,9 1,0 1,1 1,3 1,6 1,8 2,1 2,4 2,6 3,0 3,6 4,0	**KR173-2E80M/4B**	1,45	27	108	IE2
	27 32 38 41 44 52	180 151 130 120 112 95	**53,07** **44,32** **38,22** **35,22** **32,90** **27,81**	4428 5348 5246 5182 5125 4972	0,8 0,9 1,0 1,1 1,2 1,3	**KR103-2E80M/4B**	1,45	19	104	IE2
	56 68 75 83 99 115 130 140 165	88 73 66 60 50 43 38 36 30	**25,50** **21,25** **19,13** **17,30** **14,61** **12,51** **11,05** **10,32** **8,72**	6186 5786 5567 5368 5050 4776 4568 4458 4200	1,4 1,6 1,7 1,8 2,2 2,4 2,6 2,8 3,1	**KR102-2E80M/4B**	1,45	19	104	IE2
	48 56 61	102 87 81	**29,95** **25,64** **23,79**	3075 3454 3433	0,8 0,9 1,0	**KR003-2E80M/4B**	1,45	18	100	IE2
	72 89 98 109 130 153 179 193	68 56 51 46 38 33 28 26	**19,88** **16,18** **14,73** **13,26** **11,09** **9,40** **8,04** **7,46**	3355 3255 3203 3141 3029 2921 2816 2765	1,2 1,3 1,5 1,6 2,0 2,2 2,3 2,5	**KR002-2E80M/4B**	1,45	18	100	IE2
	189 210 252 297 347 374	26 24 20 17 14 13	**14,73** **13,26** **11,09** **9,40** **8,04** **7,46**	2775 2703 2581 2469 2366 2316	2,3 2,5 3,0 3,3 3,8 4,0	**KR002-2E71M/2B**	1,25	15	100	IE2



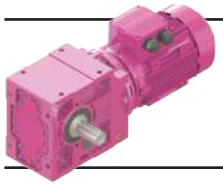
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



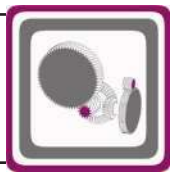
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
0,75 1,0	0,27 0,35 0,41 0,44 0,52 0,62 0,65 0,73	22923 17987 15057 14236 12121 10149 9596 8595	**5350,83** **4189,63** **3499,30** **3306,00** **2811,23** **2348,01** **2218,31** **1985,89**	66697 78083 83385 84954 88156 90949 91693 92986	0,9 1,1 1,3 1,4 1,7 2,0 2,1 2,3	**KR976-3E80M/4D**	1,77	1106	216	IE3
	0,91 1,0 1,2 1,4	6998 6287 5356 4726	**1585,92** **1423,89** **1213,78** **1070,02**	94798 95673 96738 98524	2,9 3,2 3,7 4,0	**KR975-3E80M/4D**	1,77	1101	216	IE3
	0,48 0,54 0,61 0,70	12897 11481 10290 8932	**2996,39** **2665,68** **2387,89** **2074,42**	92600 98610 103170 107899	1,2 1,3 1,5 1,7	**KR876-3E80M/4D**	1,77	653	204	IE3
	0,77 0,87 0,97 1,1 1,3 1,5 1,7 1,9	8296 7344 6572 5781 4840 4230 3735 3326	**1891,08** **1671,18** **1495,27** **1313,07** **1096,71** **957,34** **844,51** **751,30**	109774 112719 114961 117134 119567 121059 122416 126745	1,8 2,0 2,3 2,6 3,1 3,5 4,0 4,0	**KR875-3E80M/4D**	1,77	651	204	IE3
	0,70 0,81 0,94 1,1 1,2 1,4 1,5 1,7 1,9 2,2	9063 7823 6781 5936 5237 4649 4148 3672 3286 2891	**2066,04** **1786,65** **1547,01** **1353,02** **1192,77** **1058,16** **943,49** **833,78** **746,01** **655,11**	47924 55767 61224 65100 67929 70135 71790 73367 74575 75752	0,9 1,0 1,2 1,3 1,5 1,7 1,9 2,2 2,4 2,8	**KR775-3E80M/4D**	1,77	393	192	IE3
	2,4 2,7 3,0	2751 2462 2166	**396,00** **354,32** **311,14**	76168 76974 77769	2,9 3,2 3,7	**KR774-3E90S/6B**	1,96	407	188	IE3
	1,2 1,4 1,6 1,8 2,0 2,3	5212 4560 4012 3551 3178 2796	**1191,60** **1041,68** **915,75** **809,27** **724,08** **635,86**	16574 25595 31082 34652 37206 39536	0,8 0,9 1,1 1,2 1,4 1,5	**KR675-3E80M/4D**	1,77	321	180	IE3
	2,6 2,9 3,5	2519 2229 1897	**363,81** **321,51** **273,88**	41003 42498 44120	1,7 1,9 2,3	**KR674-3E90S/6B**	1,96	301	176	IE3
	4,0 4,5 5,3	1641 1453 1236	**363,81** **321,51** **273,88**	45192 45975 46829	2,6 3,0 3,5	**KR674-3E80M/4D**	1,77	296	176	IE3



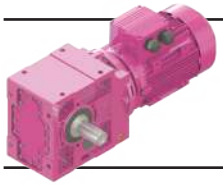
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



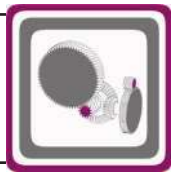
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	Çevrim Oranı *Ratio* Übersetzung **i**	IE3 Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 Servis Faktörü *Service Factors* Betriebsfaktor **f_s**	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom **[A]**	Ağırlık *Weight* Gewicht ~ **[kg]**	Ölçü Sayfası *Dim. Page* Maße Seite	* Motor Verim Snf. *Motor Eff. Class* Motor Effizienz-klasse
0,75 1,0	2,0 2,4 2,9	3228 2732 2266	**469,74** **397,01** **328,56**	15989 22409 26563	0,8 1,0 1,2	**KR574-3E90S/6B**	1,96	159	164	IE3
	3,1 3,7 4,4 5,2 5,9 6,1 6,9	2104 1780 1477 1264 1110 1071 953	**469,74** **397,01** **328,56** **281,00** **246,42** **237,97** **211,51**	27812 30031 31845 32943 33716 33906 34460	1,3 1,5 1,8 2,1 2,4 2,5 2,8	**KR574-3E80M/4D**	1,77	156	164	IE3
	3,4 3,9 4,7 4,9	1893 1664 1392 1316	**422,88** **371,35** **310,16** **293,03**	12714 15500 17982 18590	0,8 0,9 1,1 1,2	**KR474-3E80M/4D**	1,77	103	152	IE3
	6,2 6,9 8,5	1079 956 779	**153,47** **135,98** **110,65**	20234 21039 22009	1,4 1,6 2,0	**KR473-3E90S/6B**	1,96	99	148	IE3
	9,4 11 13 15	706 625 510 451	**153,47** **135,98** **110,65** **97,79**	22412 22807 23324 23564	2,2 2,5 3,0 3,4	**KR473-3E80M/4D**	1,77	95	148	IE3
	6,3	1028	**229,29**	8932	0,8	**KR374-3E80M/4D**	1,77	68	140	IE3
	8,5 9,7	778 684	**110,61** **97,26**	12550 16200	1,1 1,2	**KR373-3E90S/6B**	1,96	68	136	IE3
	13 15 19 21 24	509 448 361 317 280	**110,61** **97,26** **78,29** **68,65** **60,69**	15090 15527 16133 16415 16637	1,6 1,8 2,3 2,6 2,9	**KR373-3E80M/4D**	1,77	64	136	IE3
	9,2	708	**157,62**	15248	0,8	**KR284-3E80M/4D**	1,77	52	128	IE3
	10 13	658 530	**93,50** **75,26**	16200 16472	0,9 1,1	**KR283-3E90S/6B**	1,96	45	124	IE3
	14 16 19 22 25 30 35 41	489 430 346 304 269 227 193 166	**106,33** **93,50** **75,26** **66,00** **58,35** **49,08** **41,72** **35,75**	16717 17044 17471 17670 17826 18005 18140 18245	1,2 1,4 1,7 2,0 2,2 2,6 3,1 3,6	**KR283-3E80M/4D**	1,77	42	124	IE3



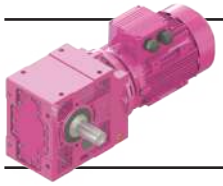
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



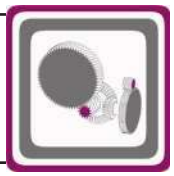
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
0,75 1,0	11 13	587 513	**83,48** **72,92**	11033 11614	0,8 0,9	**KR273-3E90S/6B**	1,96	36	116	IE3
	15 17 20 21 25 29 33 40 48 57 63 76	444 384 336 315 268 233 204 169 141 118 107 89	**96,68** **83,48** **72,92** **68,40** **58,15** **50,51** **44,20** **36,55** **30,48** **25,55** **23,08** **19,08**	12098 12459 12738 12851 13094 13261 13392 13541 13653 13799 13908 14143	1,0 1,2 1,3 1,4 1,7 1,9 2,2 2,7 3,2 3,6 3,8 4,0	**KR273-3E80M/4D**	1,77	38	116	IE3
	20 23 28 33 38 46 55	334 292 242 202 177 146 122	**72,37** **63,33** **52,37** **43,67** **38,16** **31,55** **26,31**	5471 5739 5719 5643 5559 5408 5239	0,8 1,0 1,2 1,4 1,6 1,9 2,2	**KR203-3E80M/4D**	1,77	34	112	IE3
	61 72 83	111 95 82	**23,79** **20,23** **17,47**	6507 6133 5815	2,5 3,0 3,3	**KR202-3E80M/4D**	1,77	34	112	IE3
	26 27 33 39 45 52 59 63 75 90 104 123 132	260 243 206 172 149 129 114 106 90 75 65 55 51	**56,45** **52,73** **44,57** **37,22** **32,10** **27,74** **24,50** **22,88** **19,34** **16,15** **13,93** **11,79** **11,01**	7903 7671 7129 6597 6195 5827 5534 5380 5024 4673 4406 4193 4081	0,8 0,8 1,0 1,2 1,3 1,6 1,8 1,9 2,2 2,7 3,1 3,6 3,9	**KR173-3E80M/4D**	1,77	27	108	IE3
	149 178 207 244 261	45 38 33 28 26	**19,34** **16,15** **13,93** **11,79** **11,01**	5024 4673 4406 4193 4081	4,0 4,0 4,0 4,0 4,0	**KR173-3E80M/2B**	1,59	26	108	IE3
	41 44 52	163 152 128	**35,22** **32,90** **27,81**	4667 4646 4574	0,8 0,9 1,0	**KR103-3E80M/4D**	1,77	21	104	IE3
	57 68 76 84 99 116 131 140 166	119 99 90 81 69 59 52 49 41	**25,50** **21,25** **19,13** **17,30** **14,61** **12,51** **11,05** **10,32** **8,72**	6298 5884 5658 5452 5123 4841 4626 4513 4247	1,0 1,2 1,2 1,4 1,6 1,8 1,9 2,1 2,3	**KR102-3E80M/4D**	1,77	21	104	IE3



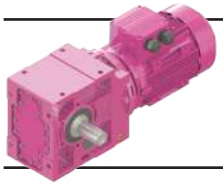
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



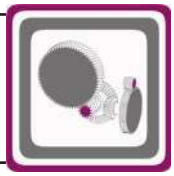
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
0,75 1,0	199 231	34 30	**7,29** **6,28**	3981 3776	2,6 3,0	**KR102-3E80M/4D**	1,77	21	104	IE3
	261 279	26 24	**11,05** **10,32**	3616 3530	3,3 3,3	**KR102-3E80M/2B**	1,59	21	104	IE3
	73 90 98 109 131 154 180 194	93 76 69 62 52 44 38 35	**19,88** **16,18** **14,73** **13,26** **11,09** **9,40** **8,04** **7,46**	2961 2941 2920 2890 2822 2747 2669 2630	0,9 1,0 1,1 1,2 1,4 1,6 1,7 1,9	**KR002-3E80M/4D**	1,77	20	100	IE3
	217 260 307 358 386	31 26 22 19 18	**13,26** **11,09** **9,40** **8,04** **7,46**	2573 2471 2375 2284 2240	1,9 2,3 2,5 2,9 3,1	**KR002-3E80M/2B**	1,59	18	100	IE3
1,1 1,5	0,41 0,44 0,52 0,62 0,65 0,73	22084 20879 17778 14886 14074 12606	**3499,30** **3306,00** **2811,23** **2348,01** **2218,31** **1985,89**	68850 71762 78410 83727 85054 87308	0,9 1,0 1,1 1,3 1,4 1,6	**KR976-3E90S/4C**	2,46	1111	216	IE3
	0,91 1,02 1,19 1,36 1,53 1,71 2,03	10264 9221 7856 6931 6154 5491 4652	**1585,92** **1423,89** **1213,78** **1070,02** **949,26** **846,39** **715,34**	90719 92139 93883 94989 95953 96624 98886	1,9 2,2 2,5 2,9 3,3 3,6 4,0	**KR975-3E90S/4C**	2,46	1106	216	IE3
	0,77 0,87 0,97 1,1 1,3 1,5 1,7 1,9	12168 10771 9639 8479 7099 6204 5478 4878	**1891,08** **1671,18** **1495,27** **1313,07** **1096,71** **957,34** **844,51** **751,30**	95780 101381 105337 109373 113443 115988 117936 119473	1,2 1,4 1,6 1,8 2,1 2,4 2,7 3,1	**KR875-3E90S/4C**	2,46	657	204	IE3
	0,94 1,1 1,2 1,4 1,5 1,7 1,9 2,2	9946 8706 7681 6819 6083 5385 4820 4241	**1547,01** **1353,02** **1192,77** **1058,16** **943,49** **833,78** **746,01** **655,11**	40762 50450 56568 61043 64432 67228 69510 71469	0,8 0,9 1,0 1,2 1,3 1,5 1,7 1,9	**KR775-3E90S/4C**	2,46	399	192	IE3
	2,4 2,7 3,0	4057 3631 3194	**396,00** **354,32** **311,14**	72289 73579 74922	2,0 2,2 2,5	**KR774-3E90L/6C**	2,75	348	188	IE3



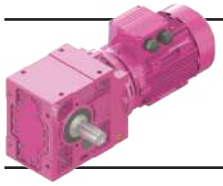
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



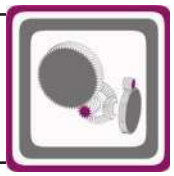
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
1,1 1,5	3,4	2860	**278,35**	75898	2,8	**KR774-3E90L/6C**	2,75	348	188	IE3
	3,7 4,1	2630 2354	**396,00** **354,32**	76498 77259	3,0 3,4	**KR774-3E90S/4C**	2,46	370	188	IE3
	1,8 2,0 2,3	5208 4662 4101	**809,27** **724,08** **635,86**	16646 24408 30274	0,8 0,9 1,0	**KR675-3E90S/4C**	2,46	257	180	IE3
	2,6 2,9 3,4	3714 3287 2797	**363,81** **321,51** **273,88**	33437 36489 39532	1,2 1,3 1,5	**KR674-3E90L/6C**	2,75	271	176	IE3
	4,0 4,5 5,3 6,2 7,1	2407 2131 1813 1561 1357	**363,81** **321,51** **273,88** **235,44** **204,32**	41618 42965 44444 45531 46361	1,8 2,0 2,4 2,8 3,2	**KR674-3E90S/4C**	2,46	270	176	IE3
	3,1 3,7 4,4 5,2 5,9 6,1 6,9 8,0 9,1 10 12	3085 2611 2166 1854 1629 1571 1397 1196 1051 931 785	**469,74** **397,01** **328,56** **281,00** **246,42** **237,97** **211,51** **180,90** **158,64** **140,24** **117,96**	18048 23598 27343 29553 30921 31286 32230 33290 34002 34561 35203	0,9 1,0 1,2 1,5 1,7 1,7 1,9 2,3 2,6 2,9 3,4	**KR574-3E90S/4C**	2,46	159	164	IE3
	6,1 6,9 8,5	1594 1412 1151	**153,47** **135,98** **110,65**	16176 17815 19787	1,0 1,1 1,3	**KR473-3E90L/6C**	2,75	102	148	IE3
	9,4 11 13 15 17 19 23	1036 918 748 662 592 521 436	**153,47** **135,98** **110,65** **97,79** **87,49** **76,83** **64,17**	20546 21262 22168 22607 22944 23291 23647	1,5 1,7 2,1 2,3 2,6 3,0 3,6	**KR473-3E90S/4C**	2,46	101	148	IE3
	8,5 9,7 12	1148 1011 814	**110,61** **97,26** **78,29**	6284 9290 12120	0,7 0,8 1,0	**KR373-3E90L/6C**	2,75	70	136	IE3
	13 15 19 21 24 28 33 39	746 657 529 465 411 346 295 253	**110,61** **97,26** **78,29** **68,65** **60,69** **51,05** **43,40** **37,19**	12896 13804 14925 15401 15789 16226 16549 16797	1,1 1,2 1,5 1,8 2,0 2,4 2,8 3,2	**KR373-3E90S/4C**	2,46	70	136	IE3



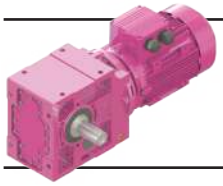
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



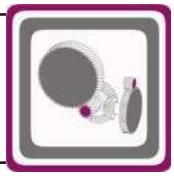
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	Çevrim Oranı *Ratio* Übersetzung **i**	IE3 Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 Servis Faktörü *Service Factors* Betriebsfaktor **f_s**	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom **[A]**	Ağırlık *Weight* Gewicht ~ **[kg]**	Ölçü Sayfası *Dim. Page* Maße Seite	Motor Verim Snf. * *Motor Eff. Class* Motor Effizienz-klasse
1,1 1,5	14	717	**106,33**	15179	0,8	**KR283-3E90S/4C**	2,46	47	124	IE3
	16	631	**93,50**	15808	1,0					
	19	508	**75,26**	16599	1,2					
	22	446	**66,00**	16955	1,3					
	25	395	**58,35**	17229	1,5					
	30	333	**49,08**	17537	1,8					
	35	283	**41,72**	17764	2,1					
	41	243	**35,75**	17938	2,5					
	45	220	**32,35**	18032	2,7					
	17	564	**83,48**	11227	0,8	**KR273-3E90S/4C**	2,46	43	116	IE3
	20	493	**72,92**	11753	0,9					
	21	463	**68,40**	11975	1,0					
	25	393	**58,15**	12402	1,1					
	29	342	**50,51**	12703	1,3					
	33	300	**44,20**	12933	1,5					
	40	248	**36,55**	13190	1,8					
	48	207	**30,48**	13378	2,2					
	57	174	**25,55**	13602	2,5					
	63	158	**23,08**	13741	2,6					
	76	131	**19,08**	13910	3,0					
	91	109	**15,92**	14034	3,4					
	109	92	**13,34**	14147	3,8					
	121	82	**12,00**	14158	3,1					
	146	68	**9,92**	13462	3,5					
	175	57	**8,28**	12819	4,0					
	209	48	**6,94**	12216	4,0					
	28	355	**52,37**	4248	0,8	**KR203-3E90S/4C**	2,46	39	112	IE3
	33	297	**43,67**	4663	0,9					
	38	259	**38,16**	4718	1,1					
	46	215	**31,55**	4726	1,3					
	55	179	**26,31**	4680	1,5					
	61	163	**23,79**	6646	1,7	**KR202-3E90S/4C**	2,46	38	112	IE3
	72	139	**20,23**	6258	2,0					
	83	120	**17,47**	5927	2,2					
	95	105	**15,26**	5639	2,5					
	101	99	**14,32**	5508	2,6					
	119	84	**12,17**	5189	2,9					
	137	73	**10,57**	4930	3,2					
	39	252	**37.22**	6996	0,8	**KR173-3E90S/4C**	2,46	30	108	IE3
	45	218	**32.10**	6554	0,9					
	52	189	**27.74**	6149	1,1					
	59	167	**24.50**	5826	1,2					
	63	156	**22.88**	5657	1,3					
	75	132	**19.34**	5265	1,5					
	90	110	**16.15**	4879	1,8					
	104	95	**13.93**	4588	2,1					
	123	81	**11.79**	4376	2,5					
	132	75	**11.01**	4253	2,7					
	156	64	**9.31**	3968	3,0					
	187	53	**7.77**	3688	3,6					
	216	46	**6.70**	3475	3,9					
	244	41	**11.79**	4376	4.0	**KR173-3E80M/2C**	2,26	29	108	IE3
	261	38	**11.01**	4253	4.0					



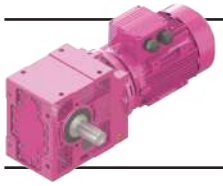
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



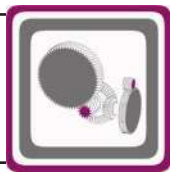
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
1,1 1,5	64 75	155 133	**14,61** **12,51**	5374 5814	0,8 0,9	**KR102-3E90L/6C**	2,75	29	104	IE3
	84 99 116 131 140 166 199 231	119 101 86 76 71 60 50 43	**17,30** **14,61** **12,51** **11,05** **10,32** **8,72** **7,29** **6,28**	5580 5236 4942 4719 4601 4324 4047 3834	0,9 1,1 1,2 1,3 1,4 1,6 1,8 2,1	**KR102-3E90S/4C**	2,46	25	104	IE3
	261 279 330 395 458	38 36 30 25 22	**11,05** **10,32** **8,72** **7,29** **6,28**	3668 3579 3369 3159 2997	2,2 2,2 2,6 3,0 3,2	**KR102-3E80M/2C**	2,26	21	104	IE3
	109 131 154 180 194	91 76 65 56 52	**13,26** **11,09** **9,40** **8,04** **7,46**	2421 2439 2428 2400 2382	0,8 1,0 1,1 1,2 1,3	**KR002-3E90S/4C**	2,46	25	100	IE3
	217 260 307 358 386	46 38 33 28 26	**13,26** **11,09** **9,40** **8,04** **7,46**	2353 2290 2223 2155 2121	1,3 1,6 1,7 2,0 2,1	**KR002-3E80M/2C**	2,26	20	100	IE3
1,5 2,0	0,51 0,62 0,65 0,73	24326 20369 19259 17249	**2811,23** **2348,01** **2218,31** **1985,89**	63087 73153 75519 79582	0,8 1,0 1,0 1,2	**KR976-3E90L/4D**	3,30	1113	216	IE3
	0,91 1,01 1,19 1,35 1,52 1,71 2,02	14044 12618 10749 9484 8420 7513 6366	**1585,92** **1423,89** **1213,78** **1070,02** **949,26** **846,39** **715,34**	85179 87431 90163 91875 93313 94358 95683	1,4 1,6 1,9 2,1 2,4 2,7 3,1	**KR975-3E90L/4D**	3,30	1108	216	IE3
	0,97 1,1 1,3 1,5 1,7 1,9	13190 11603 9714 8489 7496 6675	**1495,27** **1313,07** **1096,71** **957,34** **844,51** **751,30**	91475 98281 100689 104678 107455 109747	1,1 1,3 1,5 1,8 2,0 2,2	**KR875-3E90L/4D**	3,30	659	204	IE3
	2,2 2,5 2,8	6023 5282 4681	**438,70** **383,99** **339,70**	111593 113316 114765	2,5 2,8 3,2	**KR874-3E100L/6B**	3,50	895	200	IE3
	1,4 1,5 1,7 1,9 2,2	9330 8324 7369 6596 5803	**1058,16** **943,49** **833,78** **746,01** **655,11**	46159 52976 58389 62215 65720	0,9 1,0 1,1 1,2 1,4	**KR775-3E90L/4D**	3,30	428	192	IE3



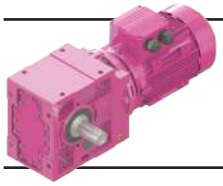
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



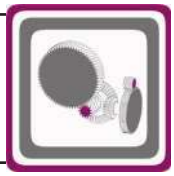
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	Çevrim Oranı *Ratio* Übersetzung **i**	IE3 Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 Servis Faktörü *Service Factors* Betriebsfaktor **f_s**	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom **[A]**	Ağırlık *Weight* Gewicht ~ **[kg]**	Ölçü Sayfası *Dim. Page* Maße Seite	* Motor Verim Snf. *Motor Eff. Class* Motor Effizienz-klasse
1,5 2,0	2,4 2,7 3,1 3,4	5445 4873 4287 3839	**396,00** **354,32** **311,14** **278,35**	66988 69216 71333 72930	1,5 1,6 1,9 2,1	**KR774-3E100L/6B**	3,50	414	188	IE3
	3,6 4,1 4,6 5,2 6,0	3598 3221 2833 2537 2192	**396,00** **354,32** **311,14** **278,35** **240,71**	73641 74809 75948 76780 77712	2,2 2,5 2,8 3,2 3,7	**KR774-3E90L/4D**	3,30	410	188	IE3
	2,6 3,0 3,5	4984 4412 3754	**363,81** **321,51** **273,88**	20305 27178 33125	0,9 1,0 1,1	**KR674-3E100L/6B**	3,50	308	176	IE3
	4,0 4,5 5,3 6,1 7,1 8,1 9,2	3294 2916 2481 2136 1856 1625 1430	**363,81** **321,51** **273,88** **235,44** **204,32** **178,62** **157,02**	36521 38894 41257 42977 44279 45286 46088	1,3 1,5 1,7 2,0 2,3 2,6 3,0	**KR674-3E90L/4D**	3,30	303	176	IE3
	4,4 5,1 5,9 6,1 6,8	2964 2537 2228 2149 1912	**328,56** **281,00** **246,42** **237,97** **211,51**	19787 24321 26922 27526 29208	0,9 1,1 1,2 1,3 1,4	**KR574-3E90L/4D**	3,30	163	166	IE3
	7,6 8,7 9,8 12 14 16	1751 1534 1359 1150 943 834	**125,51** **109,86** **97,19** **82,14** **67,37** **59,49**	30219 31473 32492 33561 34510 34996	1,5 1,8 2,0 2,3 2,9 3,2	**KR573-3E100L/6B**	3,50	155	160	IE3
	8,6	1545	**110,65**	16645	1,0	**KR473-3E100L/6B**	3,50	109	148	IE3
	9,4 11 13 15 17 19 23 24	1418 1257 1025 907 811 713 597 564	**153,47** **135,98** **110,65** **97,79** **87,49** **76,83** **64,17** **60,63**	17802 19067 20637 21344 21845 22362 22934 23086	1,1 1,2 1,5 1,7 1,9 2,2 2,6 2,7	**KR473-3E90L/4D**	3,30	103	148	IE3
	13 15 18 21 24 28 33 39 43	1022 900 725 636 563 474 404 346 314	**110,61** **97,26** **78,29** **68,65** **60,69** **51,05** **43,40** **37,19** **33,65**	9109 11080 13151 13994 14661 15340 15850 16233 16440	0,8 0,9 1,1 1,3 1,5 1,7 2,0 2,4 2,6	**KR373-3E90L/4D**	3,30	72	136	IE3



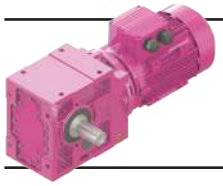
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



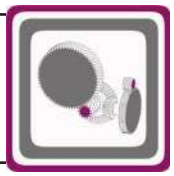
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
1,5 2,0	19 22 25 29 35 40 45	696 611 541 456 388 333 301	**75,26** **66,00** **58,35** **49,08** **41,72** **35,75** **32,35**	15355 15969 16413 16912 17272 17542 17687	0,9 1,0 1,1 1,3 1,5 1,8 2,0	**KR283-3E90L/4D**	3,30	48	124	IE3
	25 29 33 40 47 57 63 76 91 108 120 146 175 208	539 468 410 340 284 238 216 179 149 125 112 93 78 65	**58,15** **50,51** **44,20** **36,55** **30,48** **25,55** **23,08** **19,08** **15,92** **13,34** **12,00** **9,92** **8,28** **6,94**	11437 11945 12305 12722 13019 13332 13515 13742 13907 14050 13884 13235 12630 12057	0,8 1,0 1,1 1,3 1,6 1,8 1,9 2,2 2,5 2,8 2,2 2,6 3,0 3,4	**KR273-3E90L/4D**	3,30	45	116	IE3
	38 46 55	355 294 245	**38,16** **31,55** **26,31**	3679 3892 4001	0,8 1,0 1,1	**KR203-3E90L/4D**	3,30	41	112	IE3
	61 71 83 95 101 119 137 156 189 227	224 191 165 144 135 115 100 88 73 61	**23,79** **20,23** **17,47** **15,26** **14,32** **12,17** **10,57** **9,25** **7,65** **6,38**	6772 6376 6036 5739 5604 5276 5007 4767 4446 4162	1,3 1,5 1,6 1,8 1,9 2,1 2,3 2,6 3,0 3,4	**KR202-3E90L/4D**	3,30	40	112	IE3
	52 59 63 75 89 104 123 131 155 186 216	259 229 214 181 151 131 110 103 87 73 63	**27,74** **24,50** **22,88** **19,34** **16,15** **13,93** **11,79** **11,01** **9,31** **7,77** **6,70**	6463 6117 5935 5512 5095 4780 4570 4437 4128 3825 3595	0,8 0,9 0,9 1,1 1,3 1,5 1,8 1,9 2,2 2,6 2,9	**KR173-3E90L/4D**	3,30	32	108	IE3
	246 263 312	55 51 43	11,79 **11,01** **9,31**	4570 4437 4128	3,1 3,1 3,7	**KR173-3E90S/2B**	2,97	31	108	IE3
	99 115 131 140 166 198 230	138 118 104 98 83 69 60	**14,61** **12,51** **11,05** **10,32** **8,72** **7,29** **6,28**	5343 5040 4810 4688 4401 4115 3895	0,8 0,9 1,0 1,0 1,2 1,3 1,5	**KR102-3E90L/4D**	3,30	27	104	IE3



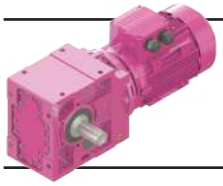
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



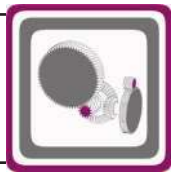
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	Çevrim Oranı *Ratio* Übersetzung **i**	IE3 Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 Servis Faktörü *Service Factors* Betriebsfaktor **f_s**	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom **[A]**	Ağırlık *Weight* Gewicht ~ **[kg]**	Ölçü Sayfası *Dim. Page* Maße Seite	* Motor Verim Snf. *Motor Eff. Class* Motor Effizienz-klasse
1,5 2,0	262 281 332 398 462	52 48 41 34 30	**11,05** **10,32** **8,72** **7,29** **6,28**	3714 3622 3405 3189 3023	1,6 1,6 2,0 2,2 2,4	**KR102-3E90S/2B**	2,97	25	104	IE3
	154 180 194	89 76 71	**9,40** **8,04** **7,46**	2037 2072 2080	0,8 0,9 0,9	**KR002-3E90L/4D**	3,30	26	100	IE3
	309 361 389	44 38 35	**9,40** **8,04** **7,46**	2042 2002 1980	1,2 1,5 1,6	**KR002-3E90S/2B**	2,97	24	100	IE3
2,2 3,0	0,73	25212	**1985,89**	60017	0,8	**KR976-3E100L/4C**	4,65	1120	216	IE3
	0,91 1,0 1,2 1,4 1,5 1,7 2,0 2,2 2,5 2,8 3,1	20527 18443 15711 13862 12307 10981 9304 8567 7641 6761 6020	**1585,92** **1423,89** **1213,78** **1070,02** **949,26** **846,39** **715,34** **659,09** **586,70** **518,12** **460,51**	72502 77077 82281 85425 87941 89820 92129 93014 94226 95176 95989	1,0 1,1 1,3 1,4 1,6 1,8 2,1 2,3 2,6 3,0 3,3	**KR975-3E100L/4C**	4,65	1115	216	IE3
	3,6	5321	**398,92**	96705	3,8	**KR974-3E100L/4C**	4,65	1100	212	IE3
	1,5 1,7 1,9 2,2	12408 10956 9756 8746	**957,34** **844,51** **751,30** **673,01**	90454 96153 100520 103816	1,2 1,4 1,5 1,7	**KR875-3E100L/4C**	4,65	688	204	IE3
	2,5 2,8	7707 6830	**383,99** **339,70**	106918 109386	1,9 2,2	**KR874-3E112M/6B**	4,95	678	200	IE3
	3,3 3,8 4,3 5,1 6,2	5818 5103 4522 3831 3145	**438,70** **383,99** **339,70** **287,10** **235,47**	111999 113778 115157 116725 122868	2,6 2,9 3,3 3,9 4,0	**KR874-3E100L/4C**	4,65	697	200	IE3
	1,9 2,2	9640 8482	**746,01** **655,11**	43697 51811	0,8 0,9	**KR775-3E100L/4C**	4,65	410	192	IE3
	2,4 2,7 3,1 3,4	7944 7110 6255 5602	**396,00** **354,32** **311,14** **278,35**	55312 59782 63818 66590	1,0 1,1 1,3 1,4	**KR774-3E112M/6B**	4,95	387	188	IE3



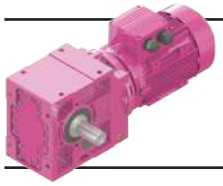
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



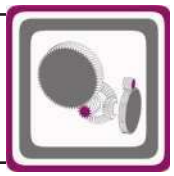
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
2,2 3,0	3,7 4,1 4,7 5,2 6,0 7,0 8,0	5260 4707 4141 3709 3203 2778 2433	**396,00** **354,32** **311,14** **278,35** **240,71** **208,42** **182,29**	67765 69865 71861 73290 74861 76105 77065	1,5 1,7 1,9 2,2 2,5 2,9 3,3	**KR774-3E100L/4C**	4,65	383	188	IE3
	4,0 4,5 5,3 6,2 7,1	4815 4262 3626 3122 2713	**363,81** **321,51** **273,88** **235,44** **204,32**	22700 28741 34100 37497 39957	0,9 1,0 1,2 1,4 1,6	**KR674-3E100L/4C**	4,65	280	176	IE3
	7,5 9,5 11	2604 2067 1850	**127,16** **100,90** **90,21**	39572 43338 44333	1,7 2,1 2,3	**KR673-3E112M/6B**	4,95	228	172	IE3
	11 14 16	1729 1373 1229	**127,16** **100,90** **90,21**	44531 46314 46873	2,5 3,1 3,5	**KR673-3E100L/4C**	4,65	323	172	IE3
	5,9 6,1 6,9 8,0	3257 3142 2795 2392	**246,42** **237,97** **211,51** **180,90**	15565 17405 21659 25521	0,8 0,9 1,0 1,1	**KR574-3E100L/4C**	4,65	171	164	IE3
	8,7 9,9	2241 1985	**109,86** **97,19**	26853 28736	1,2 1,4	**KR573-3E112M/6B**	4,95	159	160	IE3
	12 13 15 18 22 24	1698 1488 1318 1116 916 809	**125,51** **109,86** **97,19** **82,14** **67,37** **59,49**	30509 31752 32683 33708 34643 35108	1,6 1,8 2,0 2,4 2,9 3,3	**KR573-3E100L/4C**	4,65	156	160	IE3
	13 15 17 19 23 24 24 28 32 37 48	1498 1326 1186 1043 872 825 804 697 608 533 413	**110,65** **97,79** **87,49** **76,83** **64,17** **60,63** **59,19** **51,22** **44,64** **39,11** **30,11**	17069 18493 19515 20477 21504 21771 21883 22444 22879 23212 23753	1,0 1,2 1,3 1,5 1,8 1,9 1,9 2,2 2,5 2,9 3,8	**KR473-3E100L/4C**	4,65	111	148	IE3
	19 21 24 28 33 39 43 50 59 66 78	1060 931 824 694 591 507 459 393 337 301 256	**78,29** **68,65** **60,69** **51,05** **43,40** **37,19** **33,65** **28,85** **24,72** **21,90** **18,62**	8376 10572 12006 13419 14412 15090 15456 15923 16292 16519 16777	0,8 0,9 1,0 1,2 1,4 1,6 1,8 2,1 2,4 2,7 3,2	**KR373-3E100L/4C**	4,65	82	136	IE3



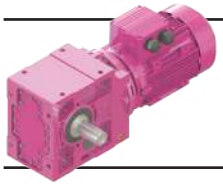
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



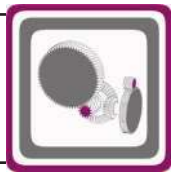
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
2,2 3,0	30 35 41 45 52 61 68 80 93 103	667 567 487 441 378 324 294 250 215 194	**49,08** **41,72** **35,75** **32,35** **27,74** **23,76** **21,42** **18,21** **15,60** **14,12**	15537 16235 16727 16985 17317 17578 17717 17908 18054 17886	0,9 1,1 1,2 1,4 1,6 1,9 2,0 2,4 2,8 3,1	**KR283-3E100L/4C**	4,65	55	124	IE3
	33 40 48 57 63 76 91 109 121 146 175 209	600 497 415 348 316 262 218 183 164 136 114 95	**44,20** **36,55** **30,48** **25,55** **23,08** **19,08** **15,92** **13,34** **12,00** **9,92** **8,28** **6,94**	10904 11733 12275 12785 13060 13409 13658 13861 13403 12838 12299 11780	0,7 0,9 1,1 1,2 1,3 1,5 1,7 1,9 1,5 1,8 2,0 2,3	**KR273-3E100L/4C**	4,65	53	116	IE3
	217 242 292 350 418	92 82 68 57 48	**13,34** **12,00** **9,92** **8,28** **6,94**	13947 13403 12838 12299 11780	3,3 2,7 3,1 3,5 4,0	**KR273-3E90L/2C**	4,25	46	116	IE3
	95 101 119 137 157 190 227	211 198 168 146 128 106 89	**15,26** **14,32** **12,17** **10,57** **9,25** **7,65** **6,38**	5873 5735 5398 5121 4872 4539 4243	1,2 1,3 1,5 1,6 1,8 2,0 2,3	**KR202-3E100L/4C**	4,65	47	112	IE3
	314 379 455	64 53 44	**9,25** **7,65** **6,38**	3768 3516 3292	2,9 3,3 3,7	**KR202-3E90L/2C**	4,25	40	112	IE3
	75 90 104 123 132 156 187 216	264 221 191 161 151 128 107 92	**19,34** **16,15** **13,93** **11,79** **11,01** **9,31** **7,77** **6,70**	5866 5417 5073 4870 4723 4380 4044 3790	0,8 0,9 1,0 1,2 1,3 1,5 1,8 2,0	**KR173-3E100L/4C**	4,65	38	108	IE3
	246 263 312 373 433	81 76 64 53 46	**11.79** **11.01** **9.31** **7.77** **6.70**	4870 4723 4380 4044 3790	2,1 2,1 2,5 2,8 3,0	**KR173-3E90L/2C**	4,25	37	108	IE3



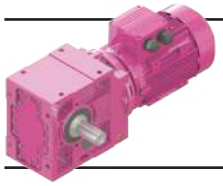
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



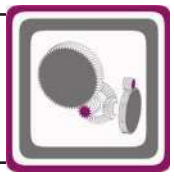
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
3,0 4,0	1,0 1,2 1,4 1,5 1,7 2,0 2,2 2,5 2,8 3,1	25149 21425 18903 16783 14974 12687 11683 10420 9220 8210	**1423,89** **1213,78** **1070,02** **949,26** **846,39** **715,34** **659,09** **586,70** **518,12** **460,51**	60373 70469 76208 80397 83604 87284 88810 90594 92175 93438	0,8 0,9 1,1 1,2 1,3 1,6 1,7 1,9 2,2 2,4	**KR975-3E100L/4D**	6,26	1095	216	IE3
	3,6 4,0 4,7	7256 6521 5559	**398,92** **358,16** **305,31**	94556 95369 96535	2,8 3,1 3,6	**KR974-3E100L/4D**	6,26	1080	212	IE3
	2,2 2,5	11926 10355	**673,01** **584,66**	92419 98329	1,3 1,4	**KR875-3E100L/4D**	6,26	670	204	IE3
	2,9	9217	**339,70**	102283	1,6	**KR874-3E132S/6B**	6,55	699	200	IE3
	3,3 3,8 4,3 5,1 6,2 7,0 7,8	7934 6958 6166 5223 4289 3794 3378	**438,70** **383,99** **339,70** **287,10** **235,47** **207,95** **184,83**	106177 108971 111100 113484 115693 116805 120594	1,9 2,2 2,4 2,9 3,5 4,0 4,0	**KR874-3E100L/4D**	6,26	651	200	IE3
	3,1 3,5	8441 7560	**311,14** **278,35**	52078 57218	0,9 1,1	**KR774-3E132S/6B**	6,55	414	188	IE3
	3,7 4,1 4,7 5,2 6,0 7,0 8,0	7172 6419 5647 5057 4368 3789 3318	**396,00** **354,32** **311,14** **278,35** **240,71** **208,42** **182,29**	59150 62825 66285 68627 71078 73032 74513	1,1 1,2 1,4 1,6 1,8 2,1 2,4	**KR774-3E100L/4D**	6,26	386	188	IE3
	8,7 9,8 11 13	3092 2745 2459 2124	**111,63** **99,00** **88,57** **76,59**	75258 76225 77020 77906	2,6 2,9 3,3 3,8	**KR773-3E132S/6B**	6,55	396	184	IE3
	5,3 6,2 7,1	4945 4257 3700	**273,88** **235,44** **204,32**	20850 28787 33544	0,9 1,0 1,2	**KR674-3E100L/4D**	6,26	281	176	IE3
	7,6 9,6 11	3511 2788 2495	**127,16** **100,90** **90,21**	32717 39578 41195	1,2 1,5 1,7	**KR673-3E132S/6B**	6,55	246	172	IE3
	11 14 16 18	2359 1874 1677 1496	**127,16** **100,90** **90,21** **80,38**	41421 44201 45064 45821	1,8 2,3 2,6 2,9	**KR673-3E100L/4D**	6,26	223	172	IE3



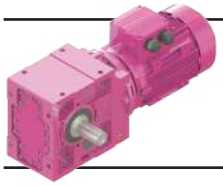
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

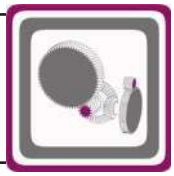
K Serien Getriebemotoren Leistung und Drehzahlübersicht



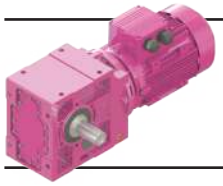
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	Çevrim Oranı *Ratio* Übersetzung **i**	IE3 Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 Servis Faktörü *Service Factors* Betriebsfaktor **f_s**	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom **[A]**	Ağırlık *Weight* Gewicht ~ **[kg]**	Ölçü Sayfası *Dim. Page* Maße Seite	* Motor Verim Snf. *Motor Eff. Class* Motor Effizienz-klasse
3,0 4,0	8,0	3262	**180,90**	15479	0,8	**KR574-3E100L/4D**	6,26	172	164	IE3
	10	2677	**97,19**	22912	1,0	**KR573-3E132S/6B**	6,55	192	160	IE3
	12	2317	**125,51**	26087	1,2	**KR573-3E100L/4D**	6,26	157	160	IE3
	13	2031	**109,86**	28341	1,3					
	15	1799	**97,19**	29906	1,5					
	18	1522	**82,14**	31557	1,8					
	22	1249	**67,37**	33041	2,2					
	24	1105	**59,49**	33763	2,4					
	27	983	**52,88**	34338	2,7					
	30	896	**97,19**	34748	3,0	**KR573-3E100L/2C**	5,58	155	160	IE3
	35	759	**82,14**	35668	3,4					
	15	1809	**97,79**	13841	0,9	**KR473-3E100L/4D**	6,26	113	148	IE3
	17	1618	**87,49**	15934	1,0					
	19	1423	**76,83**	17682	1,1					
	23	1190	**64,17**	19514	1,3					
	24	1125	**60,63**	19936	1,4					
	24	1097	**59,19**	20157	1,4					
	28	951	**51,22**	21047	1,6					
	32	830	**44,64**	21743	1,9					
	37	728	**39,11**	22295	2,1					
	48	563	**30,11**	23068	2,8					
	58	471	**25,15**	23327	3,3					
	28	947	**51,05**	10331	0,9	**KR373-3E100L/4D**	6,26	83	136	IE3
	33	806	**43,40**	12220	1,0					
	39	691	**37,19**	13443	1,2					
	43	626	**33,65**	14092	1,3					
	50	537	**28,85**	14875	1,5					
	59	460	**24,72**	15446	1,8					
	66	411	**21,90**	15803	2,0					
	78	350	**18,62**	16219	2,3					
	91	300	**15,96**	16528	2,7					
	100	272	**14,44**	16687	3,0					
	41	664	**35,75**	15556	0,9	**KR283-3E100L/4D**	6,26	57	124	IE3
	45	602	**32,35**	16025	1,0					
	52	516	**27,74**	16557	1,2					
	61	442	**23,76**	16979	1,4					
	68	401	**21,42**	17199	1,5					
	80	341	**18,21**	17496	1,8					
	93	293	**15,60**	17721	2,0					
	103	265	**14,12**	17452	2,3					
	120	227	**12,10**	16824	2,5					
	140	195	**10,37**	16197	2,8					
	143	191	**10,16**	15847	1,9					
	168	162	**8,63**	15241	2,2					
	196	139	**7,40**	14670	2,5					
	217	126	**6,70**	14305	2,7					
	253	108	**5,74**	13752	3,1					



K Serisi Motorlu Güç Devir Sayfaları
K Series Geared Motors Performance Tables
K Serien Getriebemotoren Leistung und Drehzahlübersicht



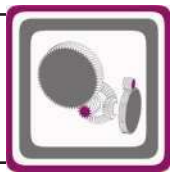
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
3,0 4,0	48 57 63 76 91 109 121 146 175 209	566 475 431 357 298 250 224 186 155 130	**30,48** **25,55** **23,08** **19,08** **15,92** **13,34** **12,00** **9,92** **8,28** **6,94**	11203 12026 12426 12947 13328 13420 12855 12384 11920 11462	0,8 0,9 1,0 1,1 1,2 1,4 1,1 1,3 1,5 1,7	**KR273-3E100L/4D**	6,26	55	116	IE3
	218 243 293 352 419	125 112 93 77 65	**13,34** **12,00** **9,92** **8,28** **6,94**	13420 12855 12384 11920 11462	2,4 2,0 2,3 2,6 2,9	**KR273-3E100L/2C**	5,58	51	116	IE3
	95 101 119 137 157 190 227	288 270 230 200 175 145 121	**15,26** **14,32** **12,17** **10,57** **9,25** **7,65** **6,38**	5955 5822 5491 5215 4964 4625 4322	0,9 0,9 1,1 1,2 1,3 1,5 1,7	**KR202-3E100L/4D**	6,26	49	112	IE3
	315 380 456	87 72 60	**9,25** **7,65** **6,38**	3825 3565 3334	2,1 2,4 2,7	**KR202-3E100L/2C**	5,58	46	112	IE3
	104 123 132 156 187 216	261 220 206 174 146 126	**13,93** **11,79** **11,01** **9,31** **7,77** **6,70**	5333 5141 4987 4624 4263 3988	0,8 0,9 1,0 1,1 1,3 1,4	**KR173-3E100L/4D**	6,26	44	108	IE3
	247 264 313 374 434	110 103 87 73 63	**11,79** **11,01** **9,31** **7,77** **6,70**	5141 4987 4624 4263 3988	1,5 1,6 1,8 2,1 2,2	**KR173-3E100L/2C**	5,58	42	108	IE3
4,0 5,5	1,4 1,5 1,7 2,0 2,2 2,5 2,8 3,2	25031 22224 19829 16801 15470 13798 12209 10871	**1070,02** **949,26** **846,39** **715,34** **659,09** **586,70** **518,12** **460,51**	60768 68501 74160 80302 82814 85532 88072 89940	0,8 0,9 1,0 1,2 1,3 1,4 1,6 1,8	**KR975-3E112M/4D**	8,05	1108	216	IE3
	3,7 4,1 4,8 5,4 6,1 8,0	9608 8635 7361 6497 5771 4403	**398,92** **358,16** **305,31** **269,15** **238,77** **181,51**	91640 92868 94373 95493 96305 100058	2,1 2,3 2,7 3,1 3,5 4,0	**KR974-3E112M/4D**	8,05	1090	212	IE3
	2,8 3,1	12068 10899	**514,05** **463,83**	92017 96505	1,2 1,4	**KR875-3E112M/4D**	8,05	677	204	IE3



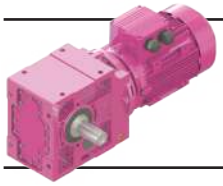
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



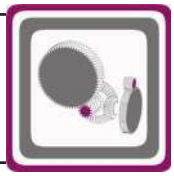
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	Çevrim Oranı *Ratio* Übersetzung **i**	IE3 Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 Servis Faktörü *Service Factors* Betriebsfaktor **f_s**	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom **[A]**	Ağırlık *Weight* Gewicht ~ **[kg]**	Ölçü Sayfası *Dim. Page* Maße Seite	Motor Verim Snf. * *Motor Eff. Class* Motor Effizienz-klasse
4,0 5,5	3,8 4,3 5,1 6,2 7,0	9214 8165 6917 5680 5024	**383,99** **339,70** **287,10** **235,47** **207,95**	102306 105549 109020 112301 113926	1,6 1,8 2,2 2,6 3,0	**KR874-3E112M/4D**	8,05	661	200	IE3
	3,7 4,1 4,7 5,2 6,1 7,0 8,0	9497 8500 7478 6697 5785 5017 4394	**396,00** **354,32** **311,14** **278,35** **240,71** **208,42** **182,29**	44605 51831 57677 61629 65713 68775 70935	0,8 0,9 1,1 1,2 1,4 1,6 1,8	**KR774-3E112M/4D**	8,05	394	188	IE3
	8,7 9,8 11 13 15 17	4127 3664 3281 2835 2459 2153	**111,63** **99,00** **88,57** **76,59** **66,32** **58,00**	71956 73471 74615 75970 76931 77814	1,9 2,2 2,4 2,8 3,3 3,7	**KR773-3E132M/6C**	8,52	408	184	IE3
	7,6 9,6 11	4686 3721 3330	**127,16** **100,90** **90,21**	19073 33383 36197	0,9 1,2 1,3	**KR673-3E132M/6C**	8,52	239	172	IE3
	11 14 16 18	3125 2482 2222 1982	**127,16** **100,90** **90,21** **80,38**	36660 41219 42596 43675	1,4 1,7 1,9 2,2	**KR673-3E112M/4D**	8,05	234	172	IE3
	13 15 18 22 25 28 33 38	2690 2383 2017 1655 1463 1302 1103 942	**109,86** **97,19** **82,14** **67,37** **59,49** **52,88** **44,73** **38,16**	22797 25605 28440 30808 31921 32744 34132 35377	1,0 1,1 1,3 1,6 1,8 2,1 2,4 2,7	**KR573-3E112M/4D**	8,05	165	160	IE3
	43 49	830 734	**67,37** **59,49**	36050 36784	3,0 3,2	**KR573-3E112M/2C**	7,28	161	160	IE3
	23 24 25 29 33 37 48 58 61 63 73 83	1577 1491 1454 1260 1099 964 746 625 590 576 499 436	**64,17** **60,63** **59,19** **51,22** **44,64** **39,11** **30,11** **25,15** **23,76** **23,19** **20,07** **17,49**	16339 17138 17463 19013 20136 20986 22200 22635 22358 22241 21532 20857	1,0 1,0 1,1 1,2 1,4 1,6 2,1 2,5 2,6 2,7 3,0 3,3	**KR473-3E112M/4D**	8,05	121	148	IE3
	34 39	1068 916	**43,40** **37,19**	8204 10802	0,8 0,9	**KR373-3E112M/4D**	8,05	90	136	IE3



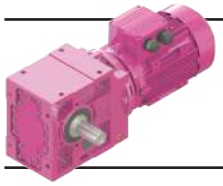
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



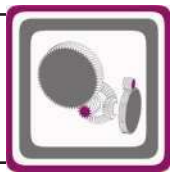
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
4,0 5,5	43 51 59 67 78 92 101 118 138	830 711 610 544 463 398 360 309 265	**33,65** **28,85** **24,72** **21,90** **18,62** **15,96** **14,44** **12,38** **10,60**	11934 13270 14241 14785 15412 15882 16150 16476 16163	1,0 1,2 1,3 1,5 1,8 2,1 2,3 2,7 3,0	**KR373-3E112M/4D**	8,05	90	136	IE3
	53 61 68 80 94 103 121 141 144 169 197 218 254 297	683 586 531 452 388 351 301 258 253 215 185 167 143 123	**27,74** **23,76** **21,42** **18,21** **15,60** **14,12** **12,10** **10,37** **10,16** **8,63** **7,40** **6,70** **5,74** **4,92**	15437 16110 16463 16923 17258 16907 16357 15798 15368 14834 14321 13990 13482 12976	0,9 1,0 1,1 1,3 1,5 1,7 1,9 2,1 1,5 1,7 1,9 2,0 2,3 2,6	**KR283-3E112M/4D**	8,05	64	124	IE3
	63 77 92 109 122 147 176 210	571 473 395 332 297 246 206 173	**23,08** **19,08** **15,92** **13,34** **12,00** **9,92** **8,28** **6,94**	11483 12297 12863 12762 12168 11817 11447 11066	0,7 0,8 0,9 1,1 0,8 1,0 1,1 1,3	**KR273-3E112M/4D**	8,05	63	116	IE3
	218 243 294 352 420	166 149 124 103 87	**13,34** **12,00** **9,92** **8,28** **6,94**	12762 12168 11817 11447 11066	1,8 1,5 1,7 1,9 2,2	**KR273-3E112M/2C**	7,28	58	116	IE3
	138 158 191 229	265 232 192 160	**10,57** **9,25** **7,65** **6,38**	5261 5021 4688 4385	0,9 1,0 1,1 1,3	**KR202-3E112M/4D**	8,05	56	112	IE3
	315 381 457	116 96 80	**9,25** **7,65** **6,38**	3892 3625 3388	1,6 1,8 2,1	**KR202-3E112M/2C**	7,28	53	112	IE3
	188 218	193 167	7,77 **6,70**	4482 4195	1,0 1,1	**KR173-3E112M/4D**	8,05	46	108	IE3
	375 435	97 84	**7,77** **6,70**	4482 4195	1,5 1,7	**KR173-3E112M/2C**	7,28	45	108	IE3
5,5 7,5	2,0 2,2 2,5 2,8 3,2	23022 21199 18908 16730 14897	**715,34** **659,09** **586,70** **518,12** **460,51**	66223 70837 76058 80320 83679	0,9 0,9 1,1 1,2 1,3	**KR975-3E132S/4C**	10,65	1128	216	IE3



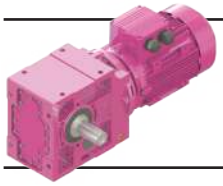
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



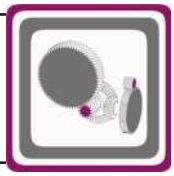
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
5,5 7,5	3,4 4,1	13813 11706	**427,72** **361,44**	85556 88672	1,4 1,7	**KR975-3E132S/4C**	10,65	1128	216	IE3
	3,7 4,1 4,8 5,4 6,1 8,1 8,7 9,7	13166 11833 10086 8903 7907 6033 5612 5027	**398,92** **358,16** **305,31** **269,15** **238,77** **181,51** **168,94** **151,03**	86458 88481 90923 92450 93799 95993 96458 97086	1,5 1,7 2,0 2,2 2,5 3,3 3,6 4,0	**KR974-3E132S/4C**	10,65	1113	212	IE3
	4,3 5,1 6,2 7,0	11189 9478 7783 6885	**339,70** **287,10** **235,47** **207,95**	95138 101336 106545 109108	1,3 1,6 1,9 2,2	**KR874-3E132S/4C**	10,65	660	200	IE3
	8,3 9,3 10 12	5935 5295 4764 4159	**115,87** **103,24** **92,80** **81,06**	111829 113495 114627 116023	2,5 2,8 3,1 3,6	**KR873-3E132M/6D**	11,55	652	196	IE3
	5,3 6,1 7,0 8,0	9177 7927 6874 6021	**278,35** **240,71** **208,42** **182,29**	46845 55019 60535 64522	0,9 1,0 1,2 1,3	**KR774-3E132S/4C**	10,65	429	188	IE3
	8,6 9,7 11 13	5708 5068 4539 3922	**111,63** **99,00** **88,57** **76,59**	66155 68574 70527 72638	1,4 1,6 1,8 2,0	**KR773-3E132M/6D**	11,55	407	184	IE3
	13 15 17 19 22	3773 3350 3000 2593 2249	**111,63** **99,00** **88,57** **76,59** **66,32**	73041 74380 75433 76614 77554	2,1 2,4 2,7 3,1 3,6	**KR773-3E132S/4C**	10,65	399	184	IE3
	11	4606	**90,21**	25491	0,9	**KR673-3E132M/6D**	11,55	239	172	IE3
	12 15 16 18 21 25 29 33	4283 3402 3045 2716 2312 1991 1730 1515	**127,16** **100,90** **90,21** **80,38** **68,47** **58,86** **51,08** **44,65**	26442 35551 37921 39887 42076 43633 44809 45724	1,0 1,3 1,4 1,6 1,9 2,2 2,5 2,8	**KR673-3E132S/4C**	10,65	249	172	IE3
	15 18 22 25 28 33	3265 2764 2268 2005 1784 1512	**97,19** **82,14** **67,37** **59,49** **52,88** **44,73**	15243 21892 26421 28423 29925 32067	0,8 1,0 1,2 1,3 1,5 1,7	**KR573-3E132S/4C**	10,65	180	160	IE3



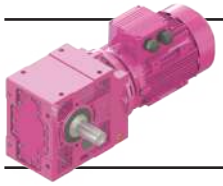
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



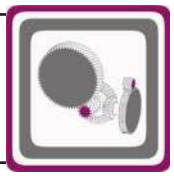
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
5,5 7,5	38 41 48 57 64	1291 1195 1024 879 777	**38,16** **35,34** **30,25** **25,78** **22,77**	33803 34580 35853 36406 37145	1,9 2,0 2,2 2,6 2,8	**KR573-3E132S/4C**	10,65	180	160	IE3
	29 33 37 49 58 62 63 73 84 96 107 123 142 162 196	1726 1506 1321 1023 856 809 789 684 597 524 467 405 354 310 257	**51,22** **44,64** **39,11** **30,11** **25,15** **23,76** **23,19** **20,07** **17,49** **15,33** **13,71** **11,87** **10,34** **9,06** **7,48**	14734 16950 18473 20584 21596 21378 21284 20704 20135 19577 18525 17983 17459 16950 16212	0,9 1,0 1,2 1,5 1,8 1,9 2,0 2,2 2,4 2,6 2,2 2,4 2,6 2,9 3,4	**KR473-3E132S/4C**	10,65	138	148	IE3
	51 59 67 79 92 101 118 138 147 172 190 221 258	974 836 746 635 545 494 423 363 341 292 265 227 195	**28,85** **24,72** **21,90** **18,62** **15,96** **14,44** **12,38** **10,60** **9,97** **8,54** **7,73** **6,63** **5,68**	9843 11823 12848 13971 14782 15173 15716 15570 15027 14580 14284 13821 13349	0,8 1,0 1,1 1,3 1,5 1,7 1,9 2,2 1,9 2,2 2,3 2,6 3,0	**KR373-3E132S/4C**	10,65	103	136	IE3
	68 80 94 104 121 141 144 170 198 219 255 298	728 620 532 482 413 354 346 295 253 229 196 169	**21,42** **18,21** **15,60** **14,12** **12,10** **10,37** **10,16** **8,63** **7,40** **6,70** **5,74** 4,92	15076 15873 16345 16083 15653 15196 14644 14220 13797 13516 13076 12629	0,8 1,0 1,1 1,2 1,4 1,6 1,1 1,2 1,4 1,5 1,7 1,9	**KR283-3E132S/4C**	10,65	84	124	IE3
	176 210	283 237	**8,28** **6,94**	10737 10471	0,8 0,9	**KR273-3E132S/4C**	10,65	82	116	IE3
	221 297 356 425	226 168 140 118	**13,34** **9,92** **8,28** **6,94**	11775 10966 10737 10471	1,3 1,3 1,4 1,6	**KR273-3E132S/2B**	9,90	73	116	IE3
7,5 10	2,7	24059	**361,44**	63458	0,8	**KR975-3E160M/6D**	15,00	1210	216	IE3



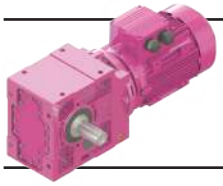
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



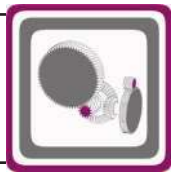
Güç *Power* Leistung P_g [kW] P_g [HP]	IE3 Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen n_2 [r.p.m]	IE3 Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente M_2 [Nm]	Çevrim Oranı *Ratio* Übersetzung i	IE3 Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) F_{qam} [N]	IE3 Servis Faktörü *Service Factors* Betriebsfaktor f_s	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom [A]	Ağırlık *Weight* Gewicht ~ [kg]	Ölçü Sayfası *Dim. Page* Maße Seite	Motor Verim Snf. * *Motor Eff. Class* Motor Effizienz-klasse
7,5 10	2,8 3,2 3,4 4,1	22813 20314 18836 15963	**518,12** **460,51** **427,72** **361,44**	67024 73062 76267 81980	0,9 1,0 1,1 1,3	**KR975-3E132M/4D**	14,40	1135	216	IE3
	3,7 4,1 4,8 5,4 6,1 8,1 8,7 9,7 11	17954 16136 13754 12140 10783 8227 7653 6855 6119	**398,92** **358,16** **305,31** **269,15** **238,77** **181,51** **168,94** **151,03** **134,57**	78103 81518 85582 88066 90001 93440 94141 94979 95862	1,1 1,2 1,5 1,6 1,9 2,4 2,6 2,9 3,3	**KR974-3E132M/4D**	14,40	1120	212	IE3
	5,1 6,2 7,0 7,9 9,1 10	12925 10613 9389 8358 7308 6457	**287,10** **235,47** **207,95** **184,83** **161,34** **142,32**	88255 97408 101630 104835 107991 110333	1,2 1,4 1,6 1,8 2,1 2,3	**KR874-3E132M/4D**	14,40	694	200	IE3
	8,4 9,4 10 12 14 16	8037 7170 6452 5632 4923 4349	**115,87** **103,24** **92,80** **81,06** **70,76** **62,42**	105903 108410 110370 112482 114174 115539	1,9 2,1 2,3 2,7 3,0 3,4	**KR873-3E160M/6D**	15,00	750	196	IE3
	13 14 16 18	5352 4775 4297 3751	**115,87** **103,24** **92,80** **81,06**	113168 114564 115676 116901	2,8 3,1 3,5 4,0	**KR873-3E132M/4D**	14,40	678	196	IE3
	8,7 9,8 11 13	7729 6863 6146 5311	**111,63** **99,00** **88,57** **76,59**	56304 60758 64101 67596	1,0 1,2 1,3 1,5	**KR773-3E160M/6D**	15,00	485	184	IE3
	13 15 17 19 22 25 29	5147 4570 4093 3537 3068 2687 2372	**111,63** **99,00** **88,57** **76,59** **66,32** **58,00** **51,13**	68279 70363 72024 73873 75293 76366 77246	1,6 1,8 2,0 2,3 2,6 3,0 3,4	**KR773-3E132M/4D**	14,40	413	184	IE3
	15 16 18 21 25 29 33 37 45 52	4640 4153 3705 3154 2716 2360 2066 1819 1519 1308	**100,90** **90,21** **80,38** **68,47** **58,86** **51,08** **44,65** **39,26** **32,68** **28,10**	24872 29758 33503 37291 39941 41901 43357 44506 45726 46568	0,9 1,0 1,2 1,4 1,6 1,8 2,1 2,4 2,8 3,3	**KR673-3E132M/4D**	14,40	262	172	IE3



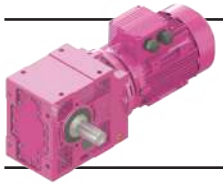
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



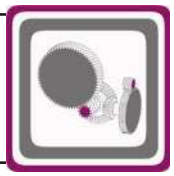
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
7,5 10	22 25 28 33 38 41 48 57 64 72 78 92 108 127	3094 2735 2434 2062 1761 1630 1397 1199 1060 943 875 741 632 542	**67,37** **59,49** **52,88** **44,73** **38,16** **35,34** **30,25** **25,78** **22,77** **20,24** **18,80** **15,88** **13,53** **11,58**	18091 22291 25162 28634 31327 32457 34261 35160 36129 36931 37332 36353 34997 33696	0,9 1,0 1,1 1,3 1,4 1,5 1,6 1,9 2,1 2,2 2,3 2,6 2,9 3,1	**KR573-3E132M/4D**	14,40	193	160	IE3
	37 49 58 62 63 73 84 96 107 123 142 162 196 236	1803 1395 1168 1104 1076 933 814 715 637 553 482 423 350 291	**39,11** **30,11** **25,15** **23,76** **23,19** **20,07** **17,49** **15,33** **13,71** **11,87** **10,34** **9,06** **7,48** **6,21**	13919 17939 19645 20070 20007 19599 19172 18733 17560 17148 16731 16312 15685 15061	0,9 1,1 1,3 1,4 1,4 1,6 1,7 1,9 1,6 1,8 1,9 2,1 2,5 2,9	**KR473-3E132M/4D**	14,40	151	148	IE3
	248 285 325	275 240 211	**11,87** **10,34** **9,06**	17148 16731 16312	2,8 3,2 3,5	**KR473-3E132S/2C**	13,20	134	148	IE3
	67 79 92 101 118 138 147 172 190 221 258	1017 866 743 673 577 495 465 399 361 310 266	**21,90** **18,62** **15,96** **14,44** **12,38** **10,60** **9,97** **8,54** **7,73** **6,63** **5,68**	9185 11470 12926 13644 14526 14773 14152 13833 13609 13242 12854	0,8 0,9 1,1 1,2 1,4 1,6 1,4 1,6 1,7 1,9 2,2	**KR373-3E132M/4D**	14,40	118	136	IE3
	278 295 345 381 444	247 232 199 180 154	**10,60** **9,97** **8,54** **7,73** **6,63**	14773 14152 13833 13609 13242	2,6 2,3 2,6 2,8 3,1	**KR373-3E132S/2C**	13,20	111	136	IE3
	94 104 121 141 170 198 219 255 298	725 657 563 483 402 345 313 268 230	**15,60** **14,12** **12,10** **10,37** **8,63** **7,40** **6,70** **5,74** **4,92**	15113 14973 14705 14387 13397 13093 12880 12532 12163	0,8 0,9 1,0 1,1 0,9 1,0 1,1 1,2 1,4	**KR283-3E132M/4D**	14,40	90	124	IE3



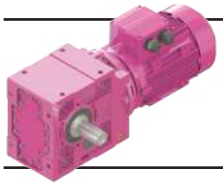
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



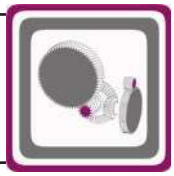
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
7,5 10	341 398 440	201 172 156	**8,63** **7,40** **6,70**	13397 13093 12880	1,4 1,6 1,8	**KR283-3E132S/2C**	13,20	82	124	IE3
	185 221 297 356 425	368 309 229 192 161	**15,92** **13,34** **9,92** **8,28** **6,94**	10344 10459 9831 9791 9677	0,8 1,0 0,9 1,0 1,2	**KR273-3E132S/2C**	13,20	77	116	IE3
11 15	5,4 5,8 6,4 7,2	18186 16917 15153 13527	**181,51** **168,94** **151,03** **134,57**	77521 80002 83191 85901	1,1 1,2 1,3 1,5	**KR974-3E160L/6E**	21,50	1211	212	IE3
	8,1 8,7 9,7 11	12066 11224 10054 8975	**181,51** **168,94** **151,03** **134,57**	88228 89439 91079 92510	1,7 1,8 2,0 2,2	**KR974-3E160M/4C**	21,00	1196	212	IE3
	10 11 12 14 16 18 20	9907 8847 7970 7051 6177 5468 4881	**146,20** **130,38** **117,32** **103,87** **90,85** **80,31** **71,60**	91267 92669 93772 94873 95873 96733 97866	2,0 2,3 2,5 2,8 3,2 3,7 4,0	**KR973-3E160M/4C**	21,00	1176	208	IE3
	7,9 9,1 10	12259 10719 9470	**184,83** **161,34** **142,32**	91409 97286 101572	1,2 1,4 1,6	**KR874-3E160M/4C**	21,00	762	200	IE3
	8,4 9,4 10 12	11795 10522 9468 8265	**115,87** **103,24** **92,80** **81,06**	93008 97791 101239 105084	1,3 1,4 1,6 1,8	**KR873-3E160L/6E**	21,50	766	196	IE3
	13 14 16 18 21 23	7852 7005 6304 5503 4811 4250	**115.87** **103.24** **92.80** **81.06** **70.76** **62.42**	105498 108095 110090 112392 114064 115398	1,9 2,1 2,4 2,7 3,1 3,5	**KR873-3E160M/4C**	21,00	741	196	IE3
	11 13	9020 7794	**88,57** **76,59**	48219 55843	0,9 1,0	**KR773-3E160L/6E**	21,50	450	184	IE3
	13 15 17 19 22 25 29 32 36	7550 6704 6005 5189 4500 3942 3479 3090 2759	**111,63** **99,00** **88,57** **76,59** **66,32** **58,00** **51,13** **45,36** **40,44**	57419 61698 64860 68181 70695 72610 74086 73382 71725	1,1 1,2 1,3 1,5 1,8 2,0 2,3 2,6 2,9	**KR773-3E160M/4C**	21,00	476	184	IE3



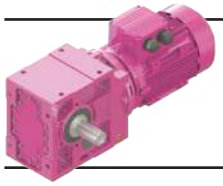
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



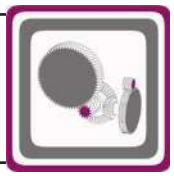
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
11 15	38 43	2658 2306	**39,00** **33,78**	71192 69061	3,0 3,5	**KR773-3E160M/4C**	21,00	476	184	IE3
	21 25 29 33 37 45 52 60 69 78	4627 3984 3463 3031 2668 2229 1919 1668 1461 1286	**68,47** **58,86** **51,08** **44,65** **39,26** **32,68** **28,10** **24,38** **21,32** **18,74**	25154 31365 35367 38196 40310 42597 44063 45097 45997 46687	0,9 1,1 1,2 1,4 1,6 1,9 2,2 2,6 2,9 3,3	**KR673-3E160M/4C**	21,00	322	172	IE3
	33 38 41 48 57 64 72 78 92 108 127 131 154 181 212	3025 2584 2391 2049 1758 1555 1384 1284 1087 927 795 767 649 554 475	**44,73** **38,16** **35,34** **30,25** **25,78** **22,77** **20,24** **18,80** **15,88** **13,53** **11,58** **11,22** **9,48** **8,07** **6,91**	20090 25664 27743 30881 32523 34000 35220 35839 34717 33604 32503 31906 30758 29654 28586	0,9 1,0 1,0 1,1 1,3 1,4 1,5 1,6 1,8 2,0 2,1 1,9 2,1 2,3 2,6	**KR573-3E160M/4C**	21,00	257	160	IE3
	63 73 84 96 107 123 142 162 196 236	1579 1369 1195 1048 935 811 708 621 514 427	**23,19** **20,07** **17,49** **15,33** **13,71** **11,87** **10,34** **9,06** **7,48** **6,21**	16370 17666 17487 17257 15872 15688 15458 15197 14764 14296	1,0 1,1 1,2 1,3 1,1 1,2 1,3 1,5 1,7 1,9	**KR473-3E160M/4C**	21,00	214	148	IE3
15 20	6,5 7,2	20600 18389	**151,03** **134,57**	72487 77184	1,0 1,1	**KR974-3E180L/6E**	29,00	1255	212	IE3
	8,1 8,7 9,7 11	16453 15305 13710 12239	**181,51** **168,94** **151,03** **134,57**	81033 83074 85735 88015	1,2 1,3 1,5 1,6	**KR974-3E160L/4D**	29,00	1205	212	IE3
	10 11 12 14 16 18 20 23 27	13512 12067 10870 9617 8425 7458 6658 5985 5103	**146,20** **130,38** **117,32** **103,87** **90,85** **80,31** **71,60** **64,28** **54,80**	86045 88268 89994 91699 93346 94462 95361 96166 97370	1,5 1,7 1,8 2,1 2,4 2,7 3,0 3,3 3,9	**KR973-3E160L/4D**	29,00	1187	208	IE3
	9,4 11	14306 12874	**103,24** **92,80**	82207 88673	1,0 1,2	**KR873-3E180L/6E**	29,00	809	196	IE3



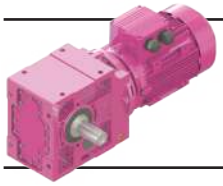
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

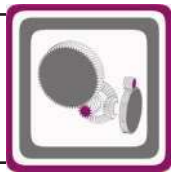
K Serien Getriebemotoren Leistung und Drehzahlübersicht



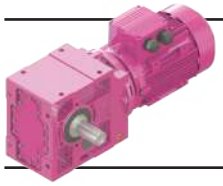
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
15 20	12	11237	**81,06**	95249	1,3	**KR873-3E180L/6E**	29,00	809	196	IE3
	13	10710	**115,87**	97450	1,4	**KR873-3E160L/4D**	29,00	766	196	IE3
	14	9554	**103,24**	101404	1,6					
	16	8598	**92,80**	104431	1,7					
	18	7506	**81,06**	107574	2,0					
	21	6563	**70,76**	110229	2,3					
	23	5797	**62,42**	112156	2,6					
	26	5164	**55,53**	113745	2,9					
	29	4632	**49,75**	114934	3,2					
	15	9144	**99,00**	47536	0,9	**KR773-3E160L/4D**	29,00	501	184	IE3
	17	8190	**88,57**	53663	1,0					
	19	7078	**76,59**	59800	1,1					
	22	6138	**66,32**	64248	1,3					
	25	5376	**58,00**	67449	1,5					
	29	4746	**51,13**	69758	1,7					
	32	4215	**45,36**	69360	1,9					
	36	3763	**40,44**	68138	2,1					
	38	3625	**39,00**	67733	2,2					
	43	3145	**33,78**	66065	2,5					
	50	2741	**29,40**	64367	2,9					
	55	2477	**26,52**	63065	3,2					
	62	2200	**23,52**	61523	3,6					
	29	4723	**51,08**	23948	0,9	**KR673-3E160L/4D**	29,00	363	172	IE3
	33	4134	**44,65**	30057	1,0					
	37	3639	**39,26**	34185	1,2					
	45	3040	**32,68**	38205	1,4					
	52	2618	**28,10**	40633	1,6					
	60	2276	**24,38**	42359	1,9					
	69	1992	**21,32**	43740	2,2					
	78	1754	**18,74**	44807	2,5					
	89	1550	**16,54**	45641	2,8					
	101	1352	**14,49**	50991	2,1					
	118	1164	**12,46**	50192	2,4					
	136	1012	**10,81**	48599	2,7					
	155	886	**9,45**	47088	2,9					
	176	780	**8,31**	45648	3,2					
	57	2398	**25,78**	28613	1,0	**KR573-3E160L/4D**	29,00	281	160	IE3
	64	2121	**22,77**	31047	1,0					
	72	1888	**20,24**	32895	1,1					
	78	1751	**18,80**	33626	1,2					
	92	1482	**15,88**	32847	1,3					
	108	1265	**13,53**	32012	1,4					
	127	1084	**11,58**	31140	1,6					
	131	1046	**11,22**	30448	1,4					
	154	886	**9,48**	29526	1,6					
	181	756	**8,07**	28605	1,7					
	212	648	**6,91**	27688	1,9					
	84	1630	**17,49**	15562	0,9	**KR473-3E160L/4D**	29,00	240	148	IE3
	96	1430	**15,33**	15570	1,0					
	107	1276	**13,71**	13943	0,8					
	123	1106	**11,87**	14018	0,9					
	142	965	**10,34**	14003	1,0					
	162	847	**9,06**	13922	1,1					
	196	701	**7,48**	13711	1,2					



K Serisi Motorlu Güç Devir Sayfaları
K Series Geared Motors Performance Tables
K Serien Getriebemotoren Leistung und Drehzahlübersicht



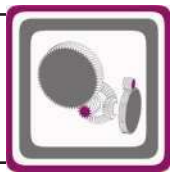
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
15 20	236	583	**6,21**	13422	1,4	**KR473-3E160L/4D**	29,00	240	148	IE3
18,5 25	9,4	17720	**103,87**	78589	1,1	**KR973-3E200L/6C**	36,40	1276	208	IE3
	9,8 11	16794 14992	**151,03** **134,57**	80303 83537	1,2 1,3	**KR974-3E180M/4C**	34,50	1242	212	IE3
	11 13 14 16 18 21 23 27 31 34	14782 13317 11782 10321 9137 8156 7332 6252 5519 4902	**130,38** **117,32** **103,87** **90,85** **80,31** **71,60** **64,28** **54,80** **48,31** **42,86**	83894 86297 88638 90798 92332 93547 94602 96091 96916 97720	1,4 1,5 1,7 1,9 2,2 2,5 2,7 3,2 3,6 4,0	**KR973-3E180M/4C**	34,50	1224	208	IE3
	13 15	12640 10983	**113,42** **98,53**	89656 96189	1,2 1,4	**KR874-3E180M/4C**	34,50	821	200	IE3
	12 14	13829 12091	**81,06** **70,76**	84247 91801	1,1 1,2	**KR873-3E200L/6C**	36,40	807	196	IE3
	14 16 18 21 24 27 30 34 39	11704 10533 9195 8040 7102 6327 5674 4930 4341	**103,24** **92,80** **81,06** **70,76** **62,42** **55,53** **49,75** **43,22** **38,00**	93451 97821 102364 105817 108630 110730 112387 114806 112515	1,3 1,4 1,6 1,9 2,1 2,4 2,6 3,0 3,3	**KR873-3E180M/4C**	34,50	804	196	IE3
	19 22 25 29 33 36 38 44 50 56 63 70 73	8671 7520 6586 5814 5164 4610 4441 3853 3358 3034 2695 2406 2318	**76,59** **66,32** **58,00** **51,13** **45,36** **40,44** **39,00** **33,78** **29,40** **26,52** **23,52** **20,97** **20,23**	50588 57472 62026 65570 65841 65000 64707 63444 62085 61007 59698 58398 57978	0,9 1,1 1,2 1,4 1,5 1,7 1,8 2,1 2,4 2,6 3,0 3,3 3,4	**KR773-3E180M/4C**	34,50	537	184	IE3
	33 38 45 52 60 69 79 89 102 118	5065 4458 3724 3207 2788 2441 2149 1899 1656 1427	**44,65** **39,26** **32,68** **28,10** **24,38** **21,32** **18,74** **16,54** **14,49** **12,46**	19115 26817 33355 37015 39559 41471 42949 44104 50128 48913	0,8 1,0 1,2 1,3 1,5 1,8 2,0 2,3 1,8 2,0	**KR673-3E180M/4C**	34,50	399	172	IE3



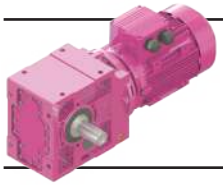
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



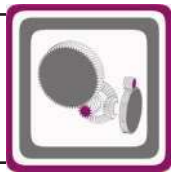
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
18,5 25	136 156 178	1240 1086 956	**10,81** **9,45** **8,31**	47488 46117 44795	2,2 2,4 2,6	**KR673-3E180M/4C**	34,50	399	172	IE3
	65 73 78 93 109 127 131 156 183 213	2598 2313 2145 1816 1549 1328 1282 1085 926 794	**22,77** **20,24** **18,80** **15,88** **13,53** **11,58** **11,22** **9,48** **8,07** **6,91**	27790 30454 31689 31210 30618 29948 29173 28449 27687 26903	0,8 0,9 1,0 1,1 1,2 1,3 1,1 1,3 1,4 1,5	**KR573-3E180M/4C**	34,50	321	160	IE3
	163 197 237	1038 859 714	**9,06** **7,48** **6,21**	12807 12790 12658	0,9 1,0 1,2	**KR473-3E180M/4C**	34,50	279	148	IE3
22 30	9,7 11	20039 17889	**151,03** **134,57**	73906 78422	1,0 1,1	**KR974-3E180L/4D**	42,50	1257	212	IE3
	11 13 14 16 18 21 23 27 30 34 46	17640 15891 14059 12317 10903 9733 8749 7461 6586 5850 4329	**130,38** **117,32** **103,87** **90,85** **80,31** **71,60** **64,28** **54,80** **48,31** **42,86** **31,63**	78801 82203 85289 87970 89989 91565 92904 94720 95768 96672 100450	1,1 1,3 1,4 1,6 1,8 2,1 2,3 2,7 3,0 3,4 4,0	**KR973-3E180L/4D**	42,50	1235	208	IE3
	12 14	16432 14366	**81,06** **70,76**	70303 81609	0,9 1,0	**KR873-3E200L/6D**	42,50	827	196	IE3
	14 16 18 21 24 26 30 34 39 43	13967 12570 10973 9594 8475 7550 6771 5884 5180 4680	**103,24** **92,80** **81,06** **70,76** **62,42** **55,53** **49,75** **43,22** **38,00** **34,28**	83967 90131 96365 101165 104716 107357 109595 112553 110238 107854	1,1 1,2 1,4 1,6 1,8 2,0 2,2 2,5 2,8 2,9	**KR873-3E180L/4D**	42,50	844	196	IE3
	22 25 29 32 36 38 44 50 55 62	8974 7860 6938 6163 5501 5300 4598 4007 3621 3217	**66,32** **58,00** **51,13** **45,36** **40,44** **39,00** **33,78** **29,40** **26,52** **23,52**	48734 55713 60547 62321 61862 61681 60823 59804 58950 57873	0,9 1,0 1,2 1,3 1,5 1,5 1,7 2,0 2,2 2,5	**KR773-3E180L/4D**	42,50	578	184	IE3



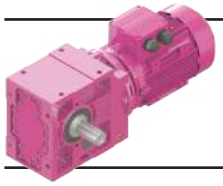
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



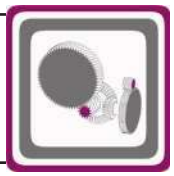
Güç *Power* Leistung P_g [kW] P_g [HP]	IE3 Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen n_2 [r.p.m]	IE3 Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente M_2 [Nm]	Çevrim Oranı *Ratio* Übersetzung i	IE3 Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) F_{qam} [N]	IE3 Servis Faktörü *Service Factors* Betriebsfaktor f_s	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom [A]	Ağırlık *Weight* Gewicht ~ [kg]	Ölçü Sayfası *Dim. Page* Maße Seite	Motor Verim Snf. * *Motor Eff. Class* Motor Effizienz-klasse
22 30	70 73 84 96	2871 2767 2400 2092	**20,97** **20,23** **17,52** **15,25**	56770 56409 54934 53450	2,8 2,9 3,1 3,5	**KR773-3E180L/4D**	42,50	578	184	IE3
	45 52 60 69 78 89 101 118 136 156 177	4444 3828 3327 2913 2564 2267 1977 1703 1480 1296 1141	**32,68** **28,10** **24,38** **21,32** **18,74** **16,54** **14,49** **12,46** **10,81** **9,45** **8,31**	27119 32647 36295 38906 40876 42403 48904 47633 46378 45147 43941	1,0 1,1 1,3 1,5 1,7 1,9 1,5 1,6 1,8 2,0 2,2	**KR673-3E180L/4D**	42,50	439	172	IE3
	93 109 127 131 155 182 213	2167 1849 1585 1530 1295 1105 947	**15,88** **13,53** **11,58** **11,22** **9,48** **8,07** **6,91**	29574 29225 28755 27898 27371 26769 26117	0,9 1,0 1,1 1,0 1,1 1,2 1,3	**KR573-3E180L/4D**	42,50	361	160	IE3
	196 237	1025 852	**7,48** **6,21**	11869 11893	0,8 1,0	**KR473-3E180L/4D**	42,50	319	148	IE3
30 40	14	19734	**71,60**	74360	1,0	**KR973-3E225S/6C**	57,60	1378	208	IE3
	14 16 18 21 23 27 31 34 39 47 53	19108 16740 14819 13229 11891 10140 8952 7951 7098 5883 5194	**103,87** **90,85** **80,31** **71,60** **64,28** **54,80** **48,31** **42,86** **38,21** **31,63** **27,88**	75727 80436 83854 86448 88571 91289 92916 94262 95385 96858 97679	1,0 1,2 1,3 1,5 1,7 2,0 2,2 2,5 2,7 3,3 3,7	**KR973-3E200L/4D**	54,50	1306	208	IE3
	18 21 24 27 30 34 39 43 49 61	14913 13039 11519 10261 9203 7997 7041 6361 5550 4516	**81,06** **70,76** **62,42** **55,53** **49,75** **43,22** **38,00** **34,28** **29,88** **24,28**	79086 87943 94173 98787 102239 106655 105031 103156 100537 96417	1,0 1,2 1,3 1,5 1,6 1,8 2,0 2,2 2,4 3,1	**KR873-3E200L/4D**	54,50	868	196	IE3
	33 36 38 44 50 56	8376 7477 7204 6249 5446 4922	**45,36** **40,44** **39,00** **33,78** **29,40** **26,52**	52467 54688 54764 54831 54590 54247	1,0 1,1 1,1 1,3 1,5 1,6	**KR773-3E200L/4D**	54,50	601	184	IE3



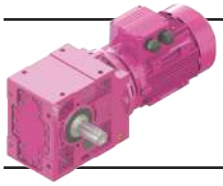
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



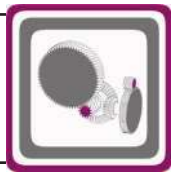
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
30 40	63 70 73 84 97 114 129 145 150 173 199	4372 3903 3760 3262 2843 2398 2130 1902 1832 1590 1385	**23,52** **20,97** **20,23** **17,52** **15,25** **12,89** **11,44** **10,20** **9,83** **8,52** **7,41**	53701 53050 52822 51826 50746 47780 46879 45962 45662 44444 43223	1,8 2,0 2,1 2,3 2,6 1,9 2,1 2,2 2,3 2,5 2,8	**KR773-3E200L/4D**	54,50	601	184	IE3
	60 69 79 89 102 118 136 156 178	4522 3959 3485 3081 2687 2314 2012 1761 1551	**24,38** **21,32** **18,74** **16,54** **14,49** **12,46** **10,81** **9,45** **8,31**	26181 31466 35118 37819 45501 44708 43839 42927 41990	1,0 1,1 1,2 1,4 1,1 1,2 1,3 1,5 1,6	**KR673-3E200L/4D**	54,50	460	172	IE3
37 50	18 20	18597 16417	**54,80** **48,31**	76726 81083	1,1 1,2	**KR973-3E250M/6C**	68,80	1498	208	IE3
	21 23 27 31 34 39 47 53 60 67 79 90 101 113 126	16283 14637 12482 11019 9787 8737 7242 6393 5679 5069 4298 3794 3370 3009 2696	**71,60** **64,28** **54,80** **48,31** **42,86** **38,21** **31,63** **27,88** **24,73** **22,05** **18,73** **16,51** **14,65** **13,06** **11,69**	81198 84198 87908 90137 91937 93411 95336 96509 97284 97963 103765 104464 101735 98859 96118	1,2 1,4 1,6 1,8 2,0 2,2 2,7 3,0 3,4 3,8 3,0 3,2 3,5 3,9 4,0	**KR973-3E225S/4C**	65,70	1368	208	IE3
	27 30 34 39 43 49 61 69 77 88 106 121 134	12631 11328 9844 8667 7829 6832 5558 4894 4421 3858 3196 2814 2542	**55,53** **49,75** **43,22** **38,00** **34,28** **29,88** **24,28** **21,34** **19,26** **16,78** **13,93** **12,25** **11,05**	89463 94671 100882 100472 99043 96954 93506 91240 89380 86841 82152 79871 78039	1,2 1,3 1,5 1,6 1,8 1,9 2,5 2,8 3,0 3,3 2,7 3,0 3,2	**KR873-3E225S/4C**	65,70	970	196	IE3
	44 50 56 63 70	7692 6703 6058 5382 4804	**33,78** **29,40** **26,52** **23,52** **20,97**	49588 50027 50131 50050 49795	1,0 1,2 1,3 1,5 1,7	**KR773-3E225S/4C**	65,70	693	184	IE3



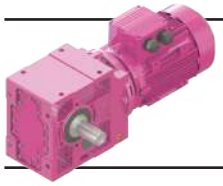
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



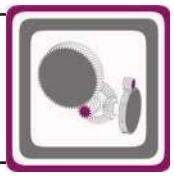
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
37 50	73 84 97 115 129 145 150 174 199	4629 4016 3500 2952 2622 2341 2256 1957 1705	**20,23** **17,52** **15,25** **12,89** **11,44** **10,20** **9,83** **8,52** **7,41**	49683 49108 48380 45420 44785 44095 43862 42884 41866	1,7 1,9 2,1 1,5 1,7 1,8 1,9 2,1 2,3	**KR773-3E225S/4C**	65,70	693	184	IE3
	79 89 156 178	4290 3792 2168 1909	**18,74** **16,54** **9,45** **8,31**	28379 32786 40986 40283	1,0 1,1 1,2 1,3	**KR673-3E225S/4C**	65,70	552	172	IE3
45 60	20	19948	**48,31**	74032	1,0	**KR973-3G280S/6**	88,00	1600	208	IE3
	21 23 27 31 34 39 47 53 60 67 79 89 101 113 126	19818 17814 15192 13411 11912 10634 8814 7781 6912 6170 5231 4618 4102 3662 3282	**71,60** **64,28** **54,80** **48,31** **42,86** **38,21** **31,63** **27,88** **24,73** **22,05** **18,73** **16,51** **14,65** **13,06** **11,69**	74107 78554 83548 86601 89011 90945 93467 94911 95939 96816 103184 102912 100091 97395 94808	1,0 1,1 1,3 1,5 1,6 1,8 2,2 2,5 2,8 3,1 2,4 2,7 2,9 3,2 3,4	**KR973-3E225M/4D**	80,00	1400	208	IE3
	27 30 34 39 43 49 61 69 77 88 106 121 134 153	15373 13787 11981 10549 9529 8315 6765 5957 5381 4696 3890 3425 3094 2700	**55,53** **49,75** **43,22** **38,00** **34,28** **29,88** **24,28** **21,34** **19,26** **16,78** **13,93** **12,25** **11,05** **9,63**	76594 84676 93288 95261 94342 92857 90179 88315 86741 84541 79985 77966 76320 74086	1,0 1,1 1,2 1,4 1,4 1,6 2,1 2,3 2,4 2,7 2,2 2,4 2,6 2,9	**KR873-3E225M/4D**	80,00	1002	196	IE3
	50 56 63 70 73 84 97 115 129 145 150 173	8159 7374 6550 5847 5634 4888 4260 3593 3192 2850 2746 2382	**29,40** **26,52** **23,52** **20,97** **20,23** **17,52** **15,25** **12,89** **11,44** **10,20** **9,83** **8,52**	44812 45428 45877 46075 46095 46000 45676 42722 42392 41961 41805 41102	1,0 1,1 1,2 1,4 1,4 1,5 1,7 1,3 1,4 1,5 1,5 1,7	**KR773-3E225M/4D**	80,00	728	184	IE3



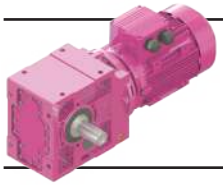
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



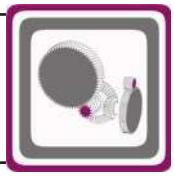
Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	Çevrim Oranı *Ratio* Übersetzung **i**	IE3 Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 Servis Faktörü *Service Factors* Betriebsfaktor **f_s**	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom **[A]**	Ağırlık *Weight* Gewicht ~ **[kg]**	Ölçü Sayfası *Dim. Page* Maße Seite	Motor Verim Snf. * *Motor Eff. Class* Motor Effizienz-klasse
45 60	199	2076	**7,41**	40315	1,9	**KR773-3E225M/4D**	80,00	728	184	IE3
	156 178	2639 2323	**9,45** **8,31**	38766 38332	1,0 1,1	**KR673-3E225M/4D**	80,00	587	1702	IE3
55 75	27 31 35 39 47 53 60 67 79 90 101 113 127	18505 16336 14511 12954 10737 9479 8420 7516 6372 5626 4997 4461 3998	**54,80** **48,31** **42,86** **38,21** **31,63** **27,88** **24,73** **22,05** **18,73** **16,51** **14,65** **13,06** **11,69**	77344 81668 84989 87602 90971 92810 94179 95219 102370 100587 98030 95560 93167	1,1 1,2 1,4 1,5 1,8 2,0 2,3 2,5 2,0 2,2 2,4 2,6 2,8	**KR973-3E250M/4D**	95,30	1480	208	IE3
	34 39 43 50 61 69 77 88 106 121 134 154	14594 12850 11608 10129 8241 7257 6555 5720 4739 4173 3769 3289	**43,22** **38,00** **34,28** **29,88** **24,28** **21,34** **19,26** **16,78** **13,93** **12,25** **11,05** **9,63**	81836 88743 88461 87734 86018 84657 83440 81666 77275 75584 74170 72213	1,0 1,1 1,2 1,3 1,7 1,9 2,0 2,2 1,8 2,0 2,1 2,4	**KR873-3E250M/4D**	95,30	1093	196	IE3
	63 71 73 85 97 115 130 145 151 174 200	7979 7123 6863 5954 5189 4377 3888 3471 3345 2902 2529	**23,52** **20,97** **20,23** **17,52** **15,25** **12,89** **11,44** **10,20** **9,83** **8,52** **7,41**	40661 41424 41611 42116 42296 39350 39400 39294 39232 38874 38376	1,0 1,1 1,2 1,3 1,4 1,0 1,1 1,2 1,3 1,4 1,5	**KR773-3E250M/4D**	95,30	818	184	IE3
75 97	35 39 47 53 60 67 79 90 102 114 127	19722 17606 14593 12883 11444 10216 8661 7646 6792 6063 5434	**42,86** **38,21** **31,63** **27,88** **24,73** **22,05** **18,73** **16,51** **14,65** **13,06** **11,69**	75105 79655 85282 88072 90248 92036 97926 95915 93892 91875 89873	1,0 1,1 1,3 1,5 1,7 1,9 1,5 1,6 1,8 1,9 2,1	**KR973-4E280S/4D**	127,00	1639	208	IE4



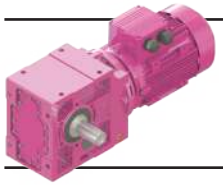
K Serisi Motorlu Güç Devir Sayfaları

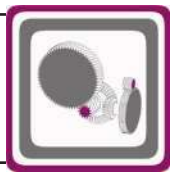
K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



Güç *Power* Leistung **P_g [kW]** P_g [HP]	IE3 **Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	IE3 **Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	IE3 **Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	IE3 **Servis Faktörü** *Service Factors* Betriebsfaktor **f_s**	**Tipi** *Type* Typ	**Anma Akımı** *Rated Current* Nennstrom **[A]**	**Ağırlık** *Weight* Gewicht ~ **[kg]**	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Motor Verim Snf.** * *Motor Eff. Class* Motor Effizienz-klasse
75 97	50 61 70 77 89 107 121 135 154	13767 11201 9863 8910 7775 6441 5672 5124 4471	**29,88** **24,28** **21,34** **19,26** **16,78** **13,93** **12,25** **11,05** **9,63**	77481 77690 77337 76837 75912 71851 70816 69869 68466	1,0 1,3 1,4 1,5 1,6 1,3 1,5 1,6 1,8	**KR873-4E280S/4D**	127,00	1304	208	IE4
90 117	47 53 60 67 79 90 102 114 127	17501 15450 13724 12251 10387 9170 8146 7271 6517	**31,63** **27,88** **24,73** **22,05** **18,73** **16,51** **14,65** **13,06** **11,69**	80119 83948 86873 89224 93920 92391 90773 89099 87392	1,1 1,2 1,4 1,6 1,2 1,3 1,5 1,6 1,7	**KR973-4E280M/4E**	152,00	1795	208	IE4
	61 70 77 89 107 122 135 155	13433 11828 10685 9324 7725 6802 6145 5362	**24,28** **21,34** **19,26** **16,78** **13,93** **12,25** **11,05** **9,63**	71440 71843 71881 71594 67780 67238 66642 65653	1,0 1,1 1,2 1,4 1,1 1,2 1,3 1,5	**KR873-4E280M/4E**	152,00	1470	196	IE4
110 148	53 60 68 80 90 102 114 127	18859 16752 14954 12678 11193 9943 8876 7954	**27,88** **24,73** **22,05** **18,73** **16,51** **14,65** **13,06** **11,69**	77626 81717 85041 88546 87668 86593 85380 84069	1,0 1,1 1,3 1,0 1,1 1,2 1,3 1,4	**KR973-4E315S/4D**	187,00	1995	208	IE4
132 177	60 68 102 114 127	20103 17946 11932 10651 9546	**24,73** **22,05** **14,65** **13,06** **11,69**	75130 79729 81968 81267 80396	1,0 1,1 1,0 1,1 1,2	**KR973-4E315M/4E**	225,00	2020	208	IE4
160 215	127	11571	**11,69**	75692	1,0	**KR973-4E315L/4F**	269,00	2170	208	IE4

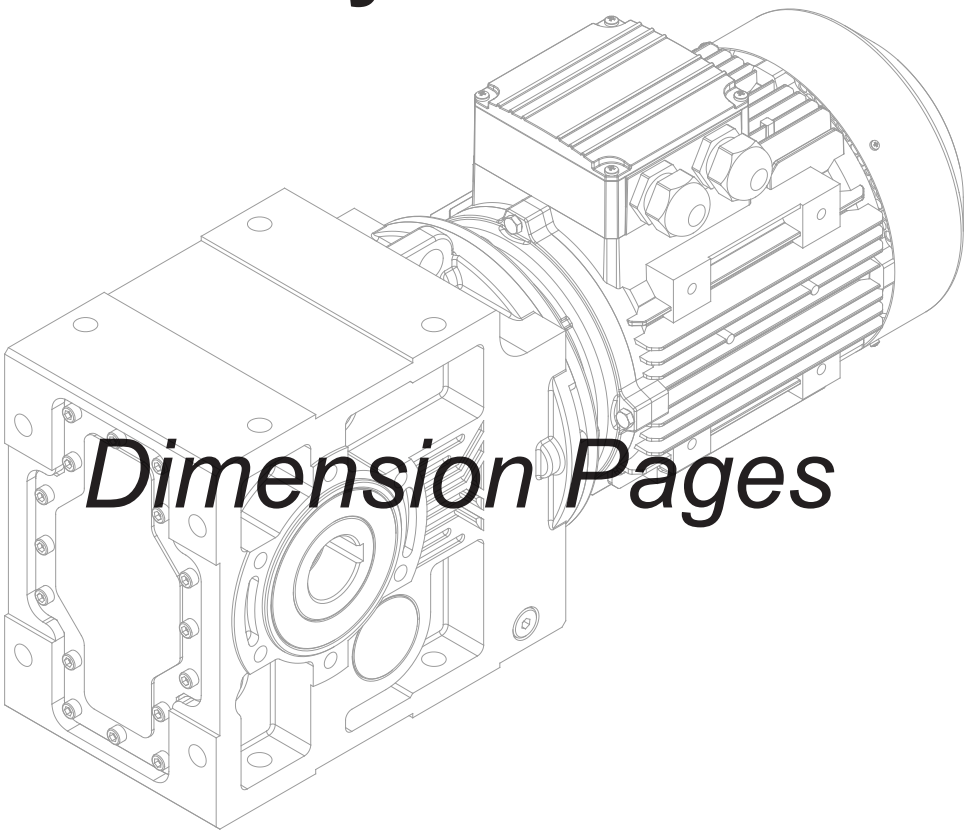




Notlar / *Notes* / Notizen

Notlar / *Notes* / Notizen

Ölçü Sayfaları

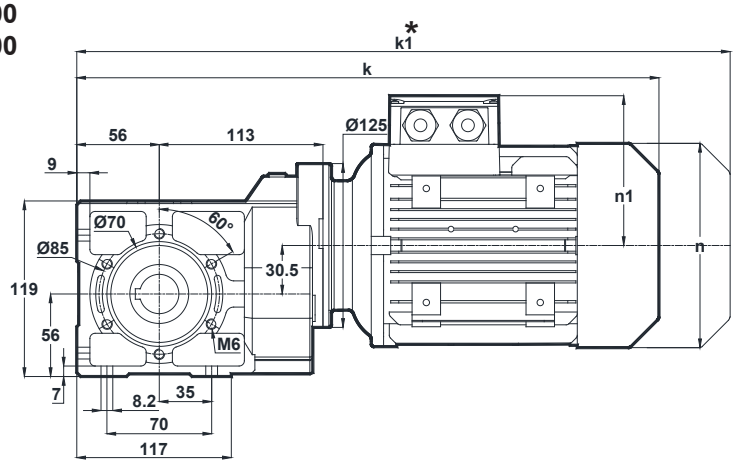


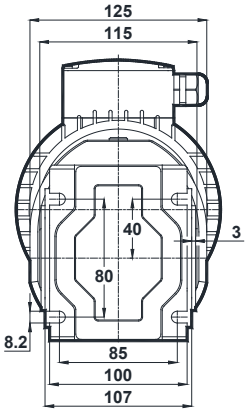
Dimension Pages

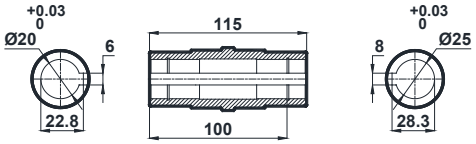
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR002.00
KR003.00

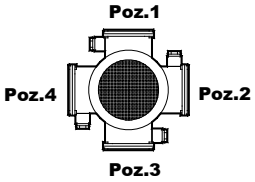






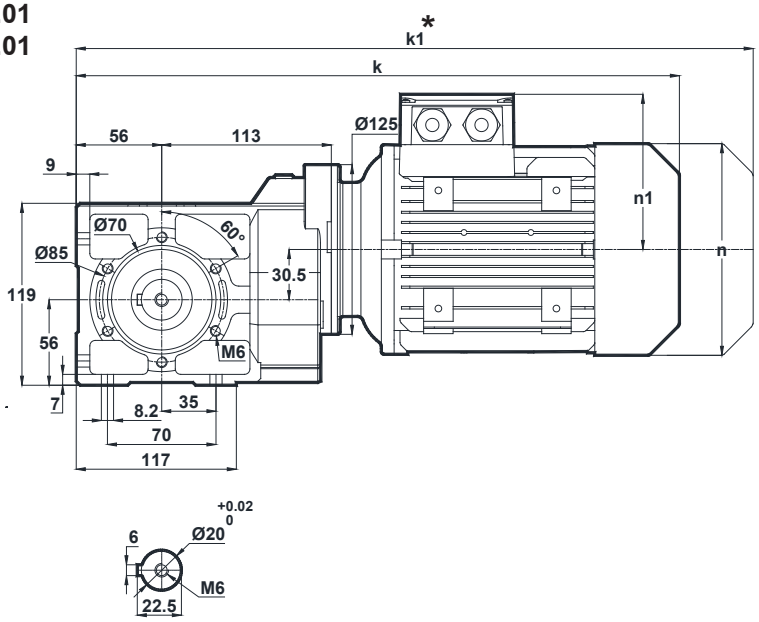
	63	71	80	90S	90L
k	366.5	395	429	468	468
k1	427.5	486	522	571.5	571.5
n	121	137	155	176	176
n1	97	112	123	132	132

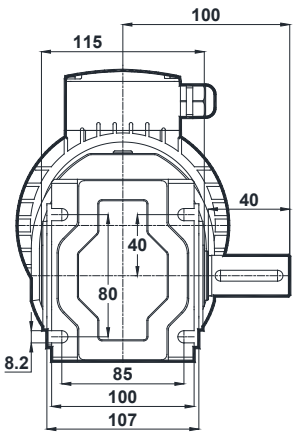
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80-90
Tip / *Type* / Typ

KR002.01
KR003.01





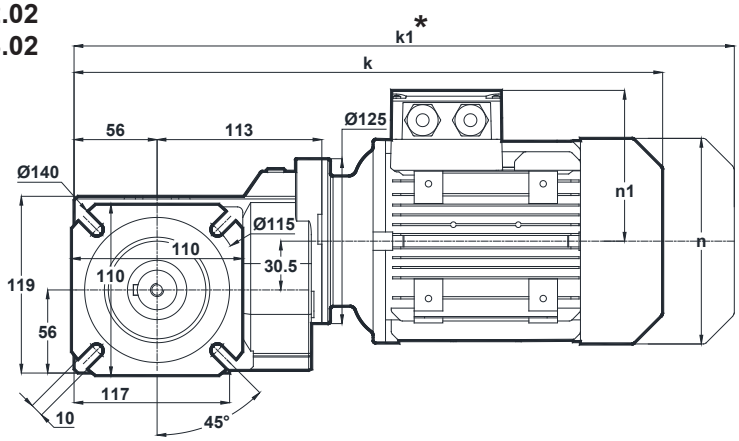
	63	71	80	90S	90L
k	366.5	395	429	468	468
k1	427.5	486	522	571.5	571.5
n	121	137	155	176	176
n1	97	112	123	132	132

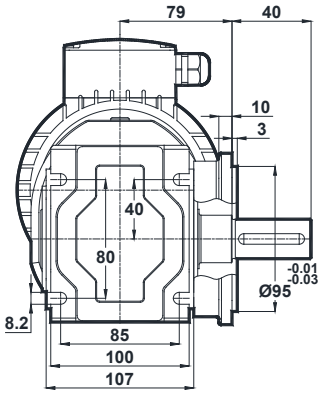
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

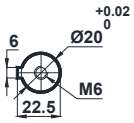
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

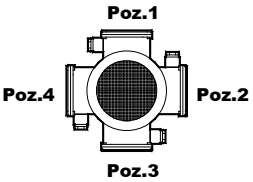
KR002.02
KR003.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

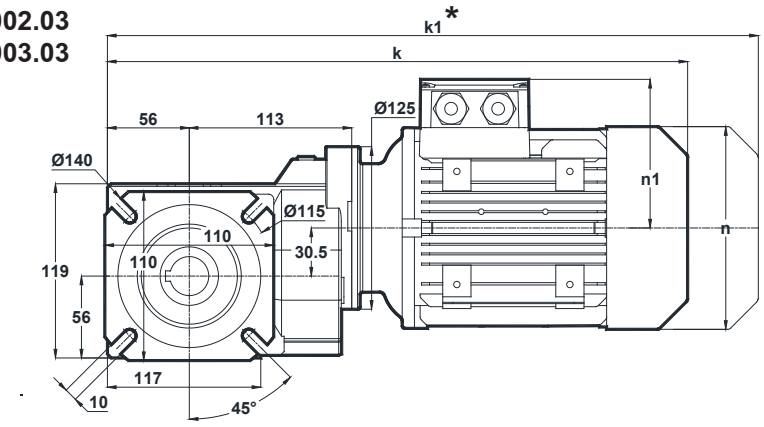


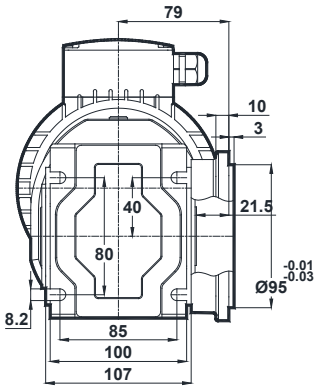
63-71-80-90
Tip / *Type* / Typ

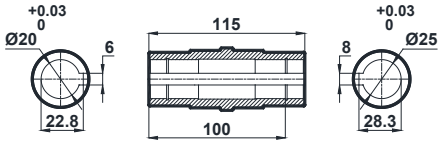
	63	71	80	90S	90L
k	366.5	395	429	468	468
k1	427.5	486	522	571.5	571.5
n	121	137	155	176	176
n1	97	112	123	132	132

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR002.03
KR003.03







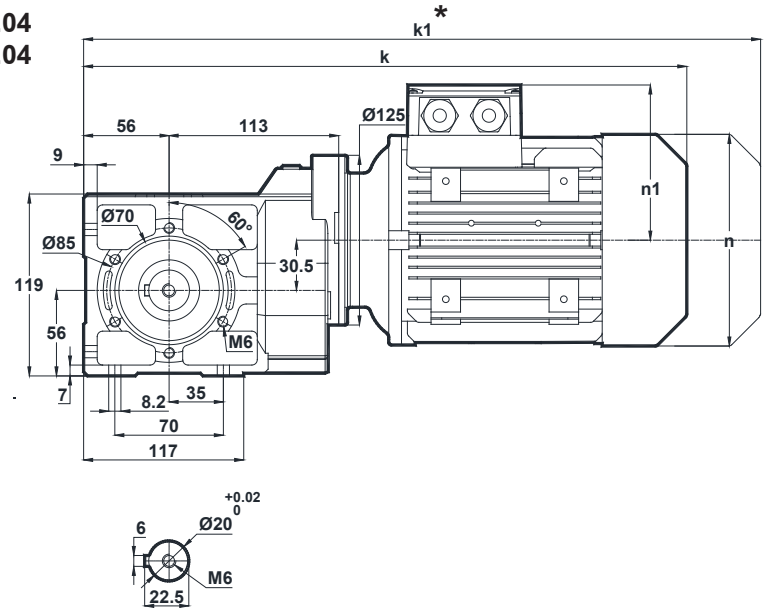
	63	71	80	90S	90L
k	366.5	395	429	468	468
k1	427.5	486	522	571.5	571.5
n	121	137	155	176	176
n1	97	112	123	132	132

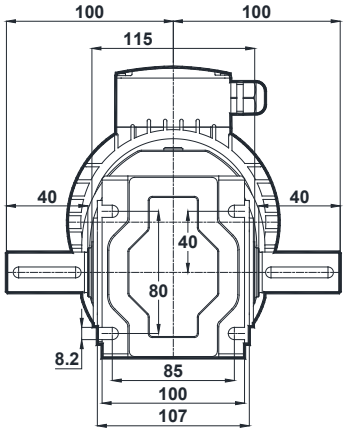
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

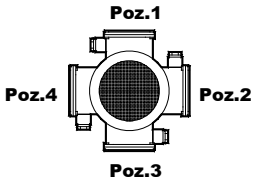
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR002.04
KR003.04





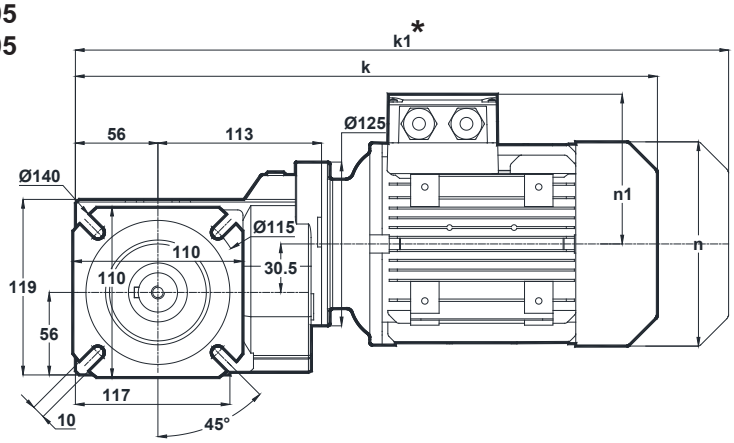
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

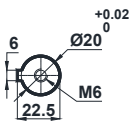


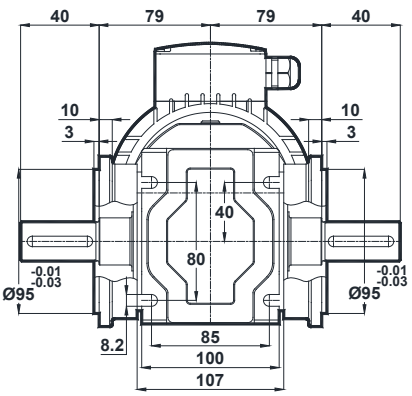
63-71-80-90
Tip / *Type* / Typ

	63	71	80	90S	90L
k	366.5	395	429	468	468
k1	427.5	486	522	571.5	571.5
n	121	137	155	176	176
n1	97	112	123	132	132

KR002.05
KR003.05



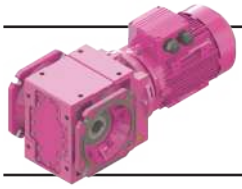




	63	71	80	90S	90L
k	366.5	395	429	468	468
k1	427.5	486	522	571.5	571.5
n	121	137	155	176	176
n1	97	112	123	132	132

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

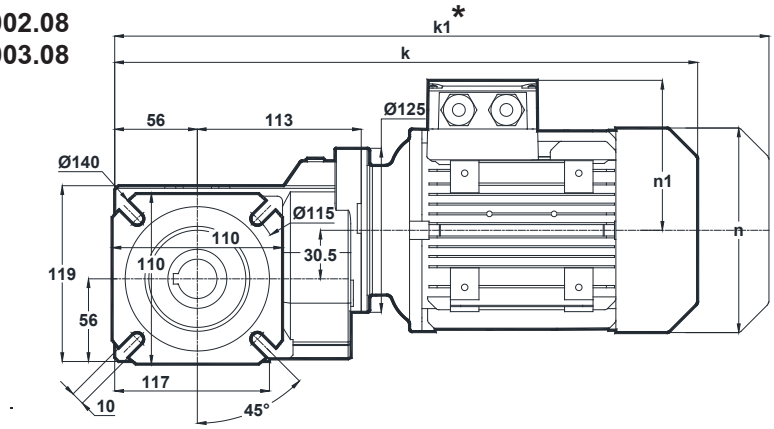
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

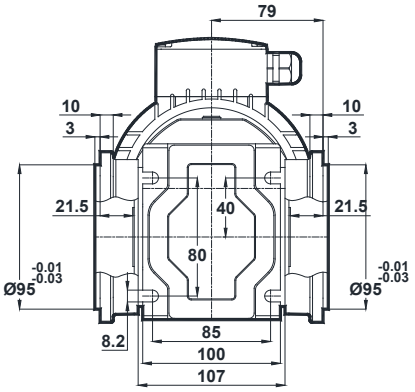


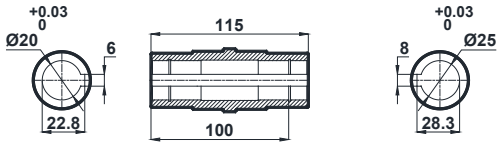
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR002.08
KR003.08

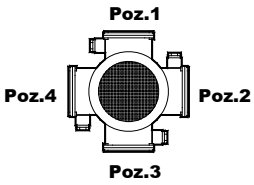






	63	71	80	90S	90L
k	366.5	395	429	468	468
k1	427.5	486	522	571.5	571.5
n	121	137	155	176	176
n1	97	112	123	132	132

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



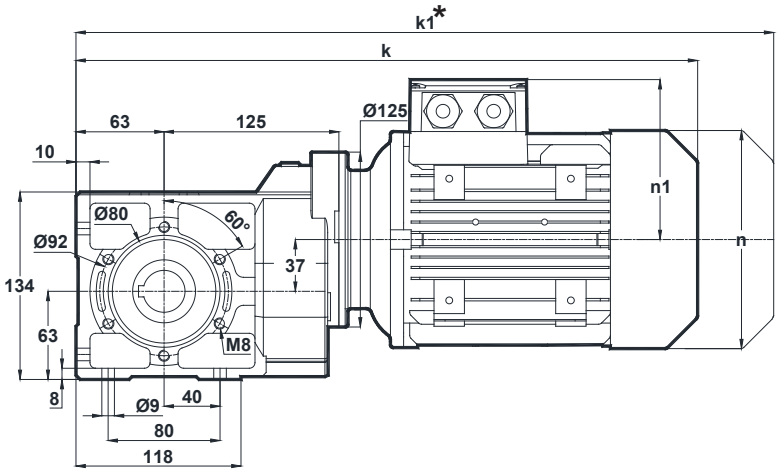
63-71-80-90
Tip / *Type* / Typ

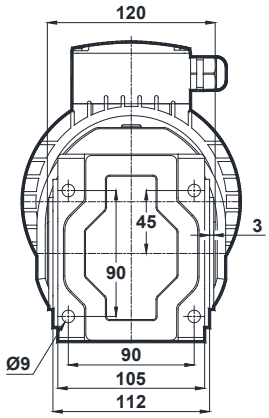
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

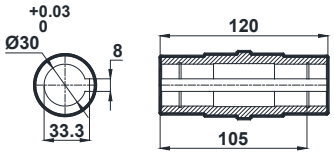
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR102.00
KR103.00

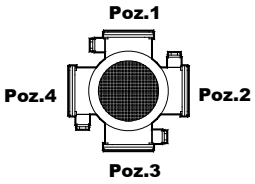






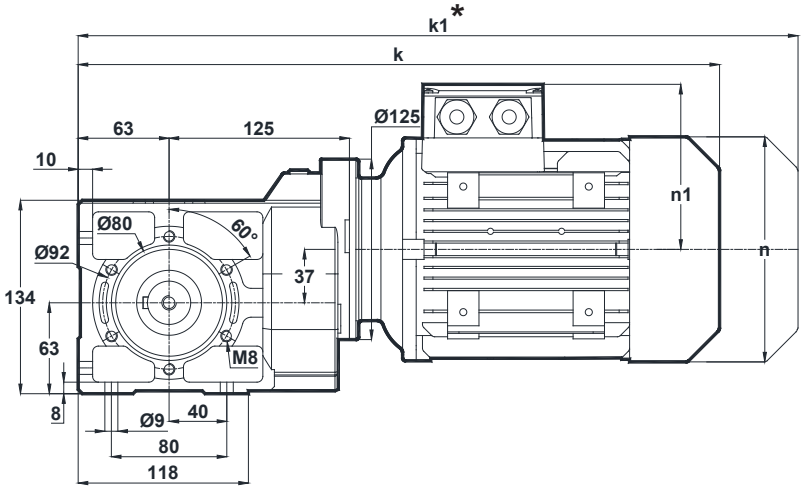
	63	71	80	90S	90L
k	385.5	414	448	487	487
k1	446.5	505	541	590.5	590.5
n	121	137	155	176	176
n1	97	112	123	132	132

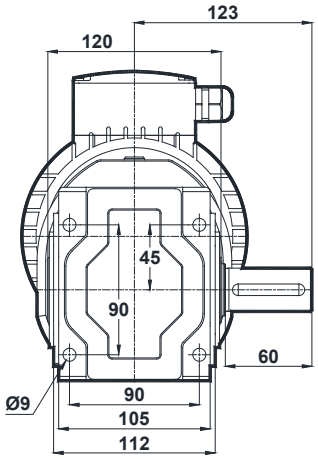
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

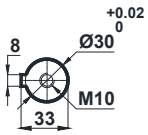


63-71-80-90
Tip / *Type* / Typ

KR102.01
KR103.01







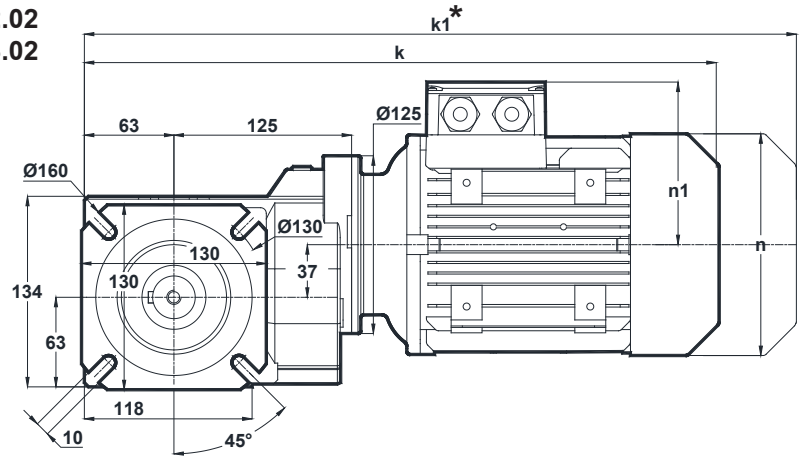
	63	71	80	90S	90L
k	385.5	414	448	487	487
k1	446.5	505	541	590.5	590.5
n	121	137	155	176	176
n1	97	112	123	132	132

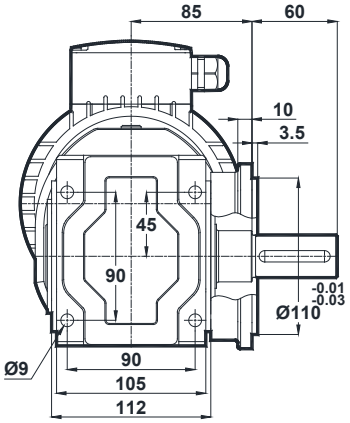
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

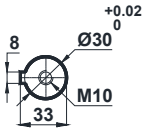
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR102.02
KR103.02

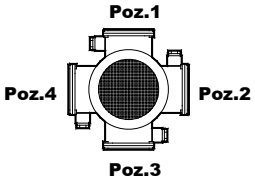






	63	71	80	90S	90L
k	385.5	414	448	487	487
k1	446.5	505	541	590.5	590.5
n	121	137	155	176	176
n1	97	112	123	132	132

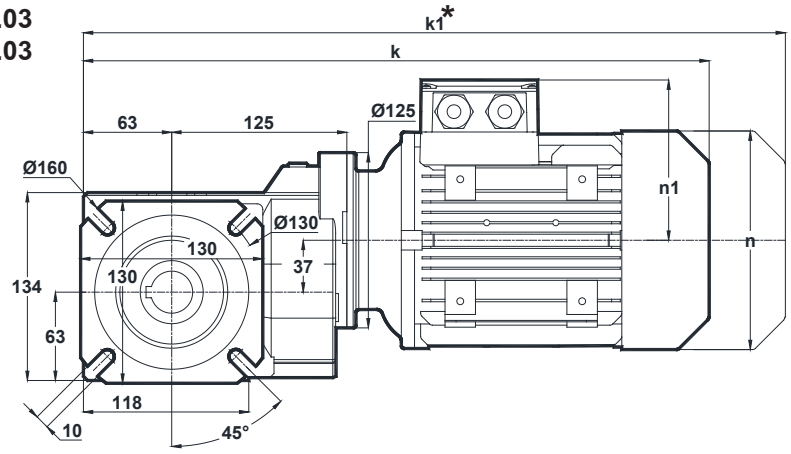
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

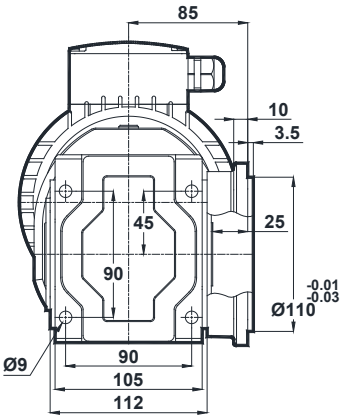


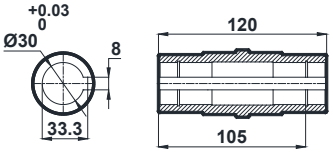
63-71-80-90
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR102.03
KR103.03







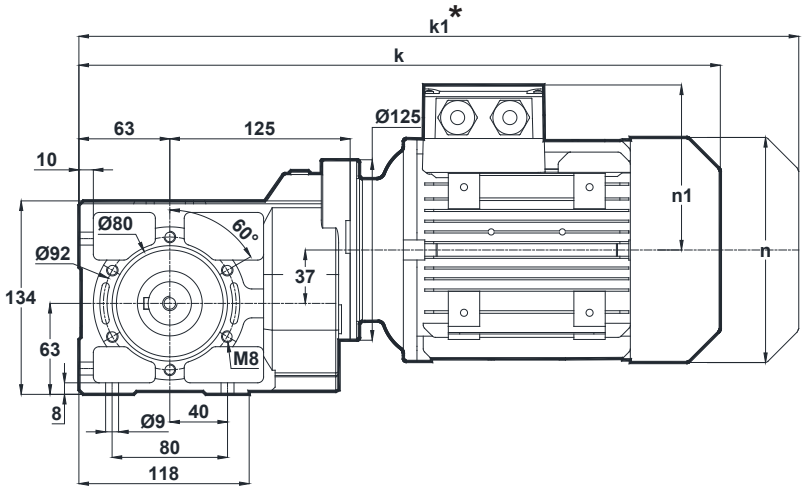
	63	71	80	90S	90L
k	385.5	414	448	487	487
k1	446.5	505	541	590.5	590.5
n	121	137	155	176	176
n1	97	112	123	132	132

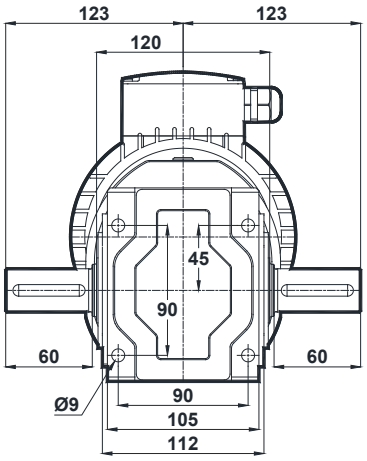
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

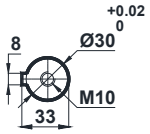
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

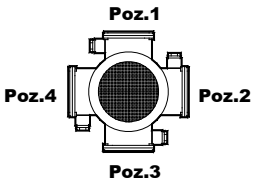
KR102.04
KR103.04







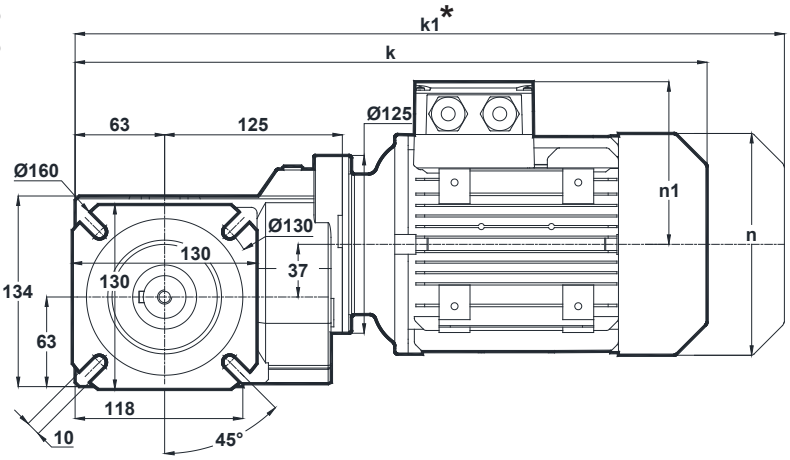
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

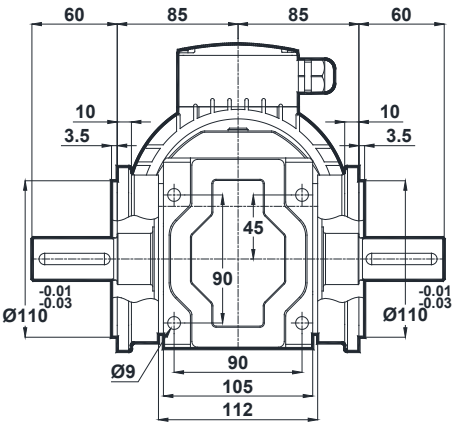


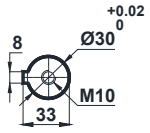
63-71-80-90
Tip / *Type* **/** Typ

	63	71	80	90S	90L
k	385.5	414	448	487	487
k1	446.5	505	541	590.5	590.5
n	121	137	155	176	176
n1	97	112	123	132	132

KR102.05
KR103.05



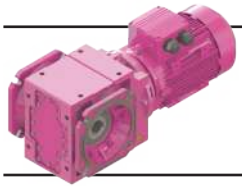




	63	71	80	90S	90L
k	385.5	414	448	487	487
k1	446.5	505	541	590.5	590.5
n	121	137	155	176	176
n1	97	112	123	132	132

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

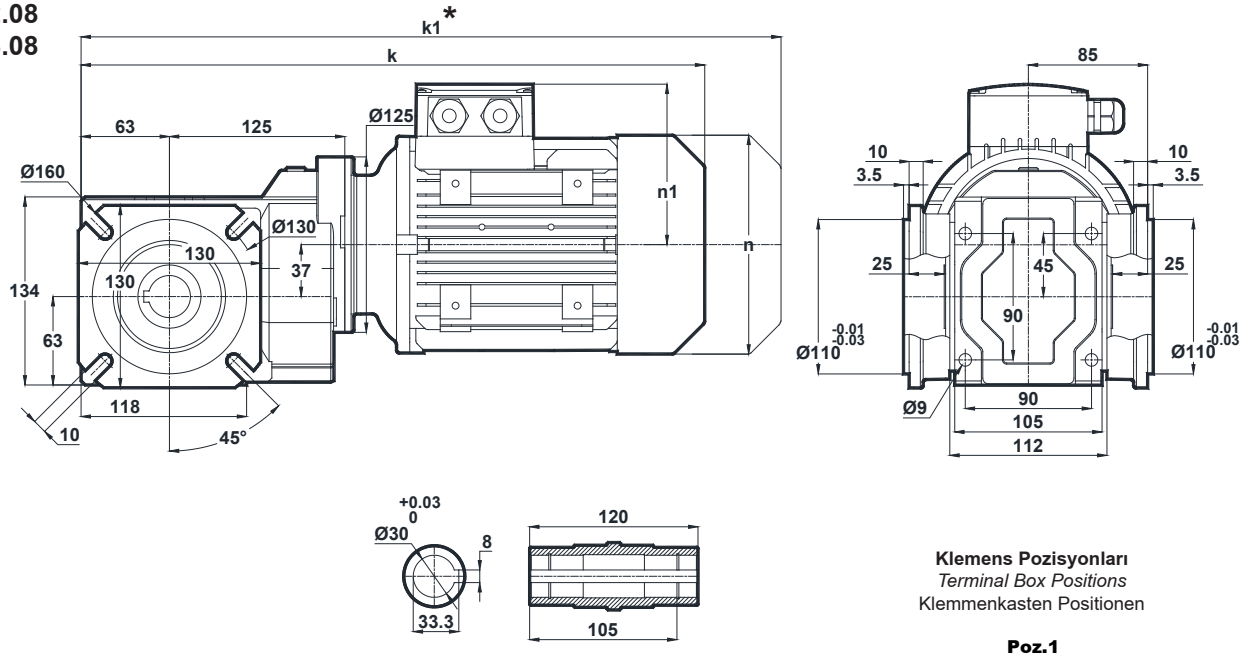
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

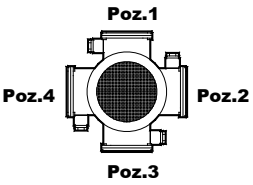
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR102.08
KR103.08



	63	71	80	90S	90L
k	385.5	414	448	487	487
k1	446.5	505	541	590.5	590.5
n	121	137	155	176	176
n1	97	112	123	132	132

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80-90
Tip / *Type* / Typ

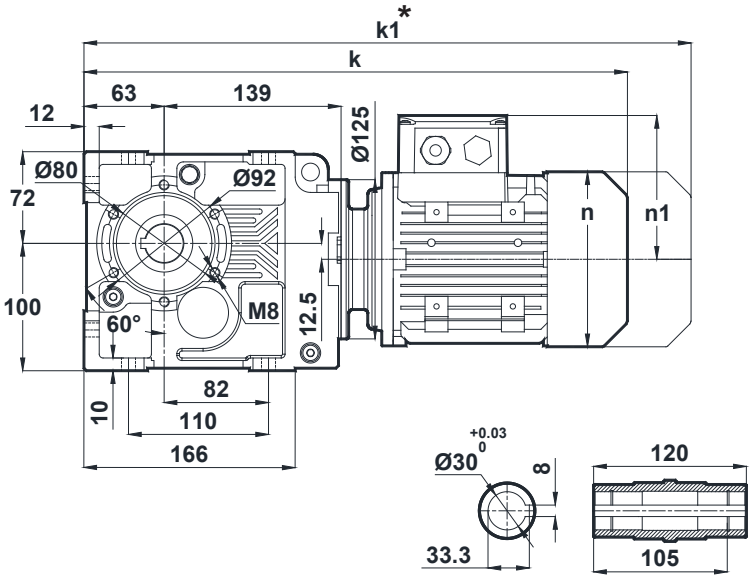
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

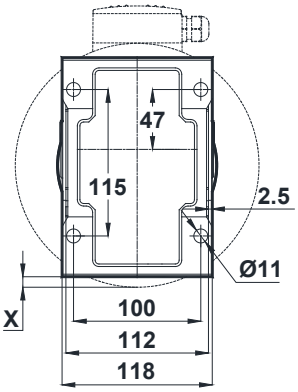
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

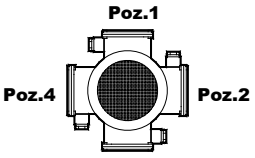
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR172.00
KR173.00





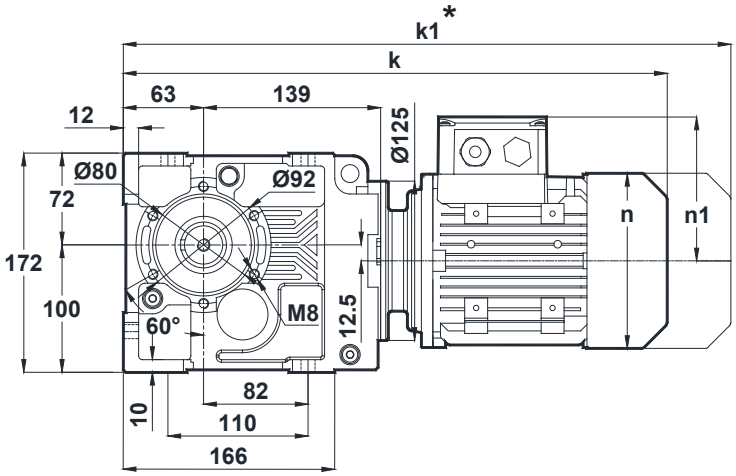
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

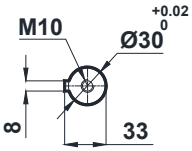


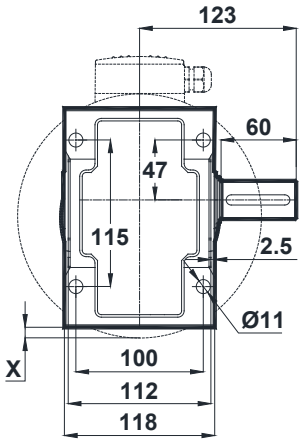
63-71-80-90-100-112
Tip / *Type* / Typ

	63	71	80	90S	90L	100L	112M
k	399.5	428	462	501	501	549	573
k1	460.5	519	555	604.5	604.5	657.5	677.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161
x	-	-	-	0.5	0.5	9	20

KR172.01
KR173.01







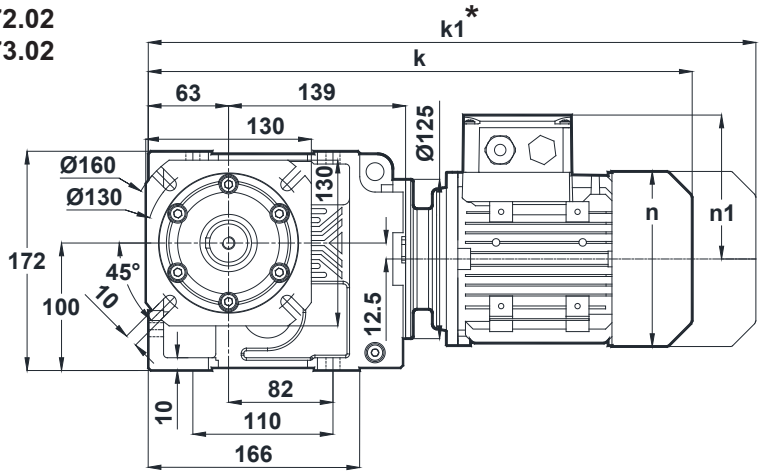
	63	71	80	90S	90L	100L	112M
k	399.5	428	462	501	501	549	573
k1	460.5	519	555	604.5	604.5	657.5	677.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161
x	-	-	-	0.5	0.5	9	20

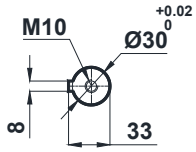
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

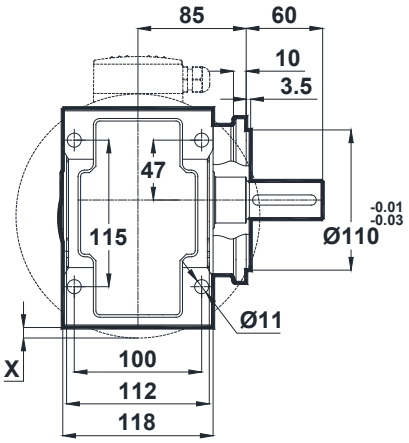
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

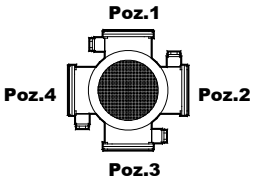
KR172.02
KR173.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

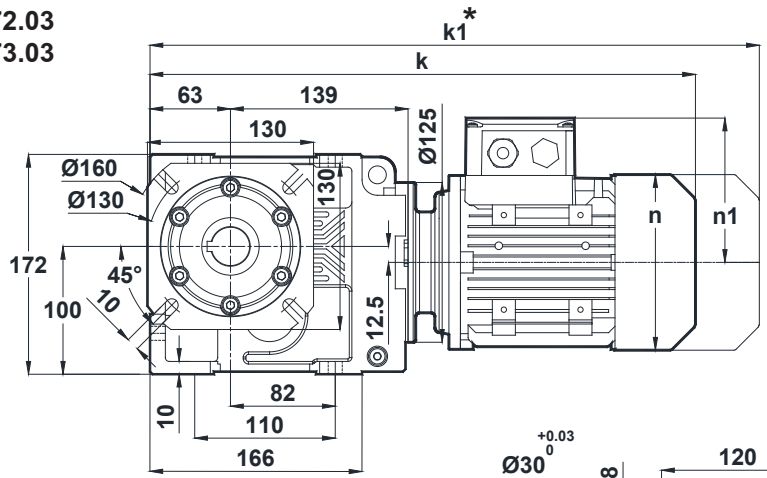


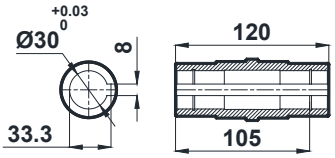
63-71-80-90-100-112
Tip / *Type* / Typ

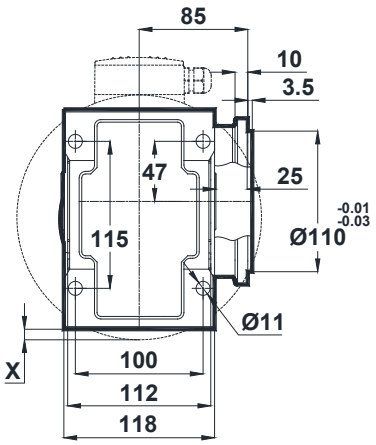
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	63	71	80	90S	90L	100L	112M
k	399.5	428	462	501	501	549	573
k1	460.5	519	555	604.5	604.5	657.5	677.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161
x	-	-	-	0.5	0.5	9	20

KR172.03
KR173.03







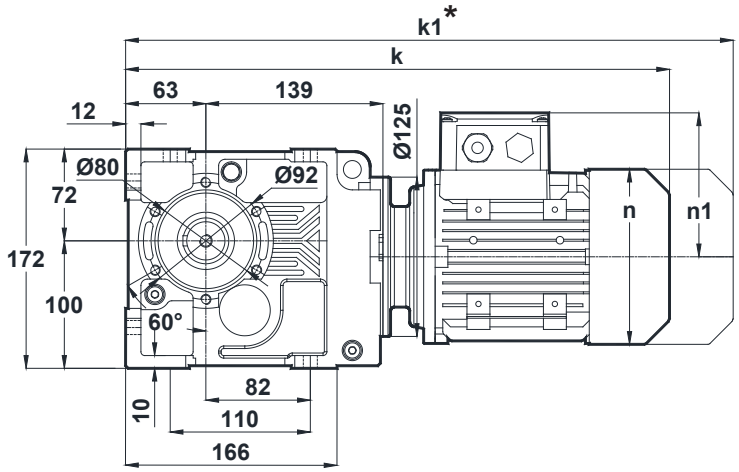
	63	71	80	90S	90L	100L	112M
k	399.5	428	462	501	501	549	573
k1	460.5	519	555	604.5	604.5	657.5	677.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161
x	-	-	-	0.5	0.5	9	20

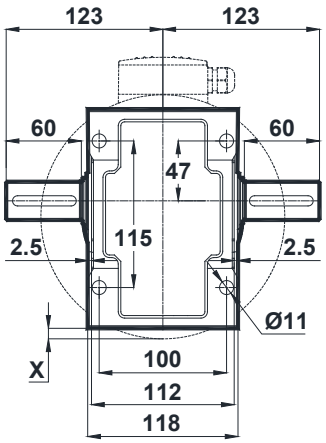
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

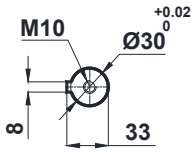
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

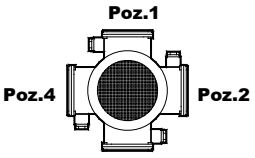
KR172.04
KR173.04







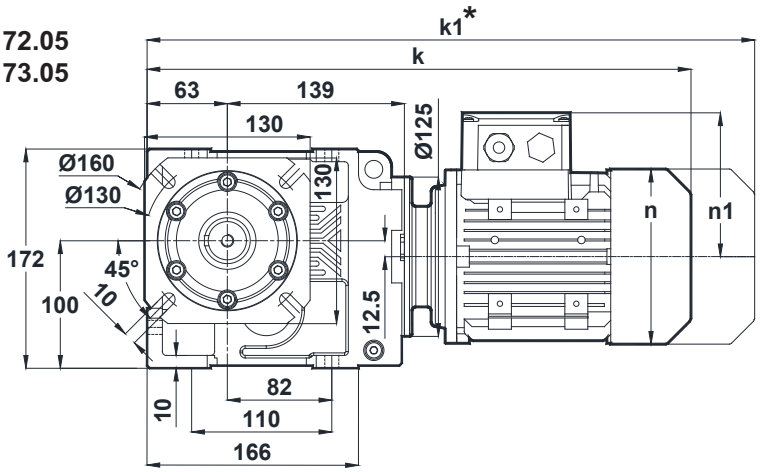
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

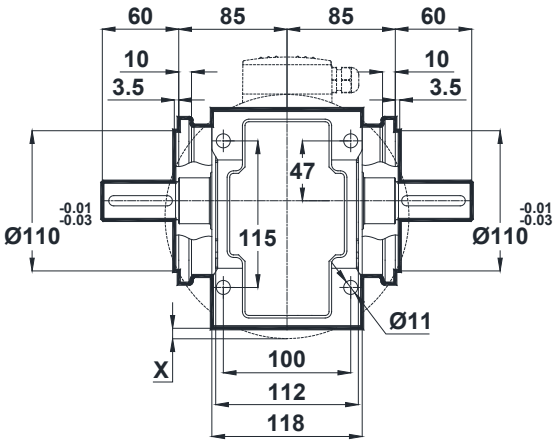


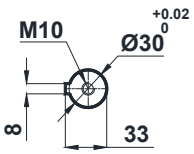
63-71-80-90-100-112
Tip / *Type* / Typ

	63	71	80	90S	90L	100L	112M
k	399.5	428	462	501	501	549	573
k1	460.5	519	555	604.5	604.5	657.5	677.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161
x	-	-	-	0.5	0.5	9	20

KR172.05
KR173.05



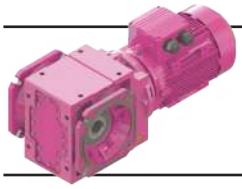




	63	71	80	90S	90L	100L	112M
k	399.5	428	462	501	501	549	573
k1	460.5	519	555	604.5	604.5	657.5	677.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161
x	-	-	-	0.5	0.5	9	20

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

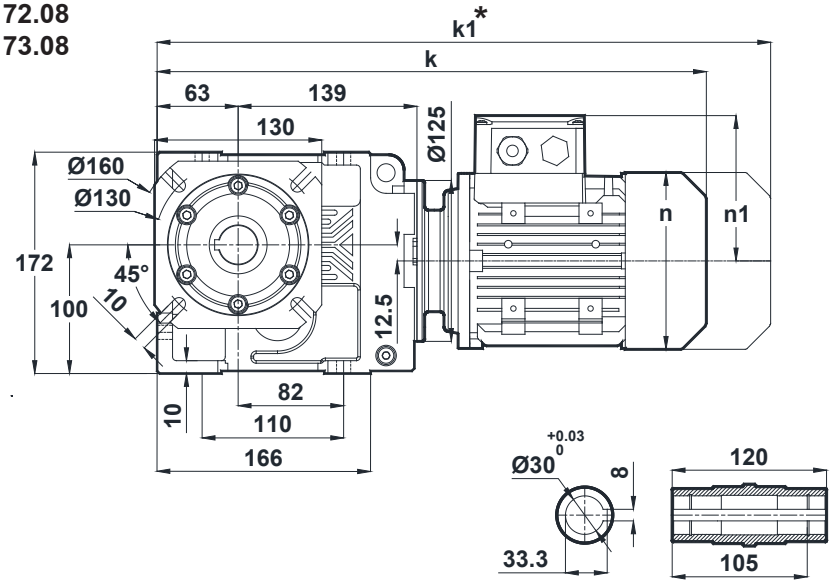
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

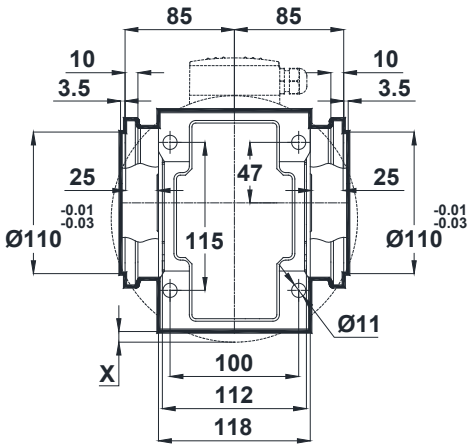


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

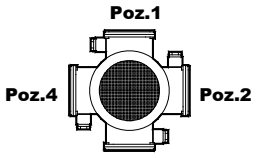
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR172.08
KR173.08





Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80-90-100-112
Tip / *Type* / Typ

	63	71	80	90S	90L	100L	112M
k	399.5	428	462	501	501	549	573
k1	460.5	519	555	604.5	604.5	657.5	677.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161
x	-	-	-	0.5	0.5	9	20

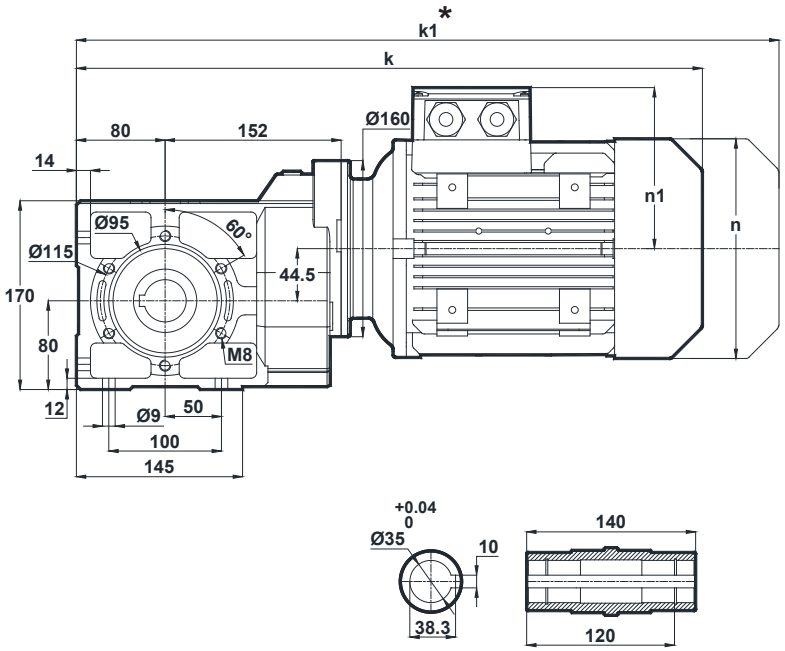
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

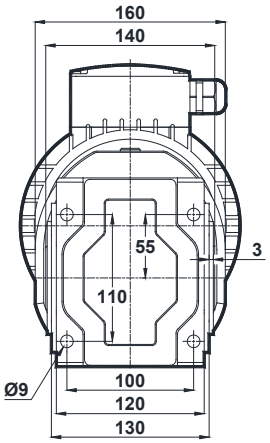
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

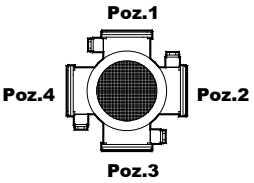
KR202.00
KR203.00





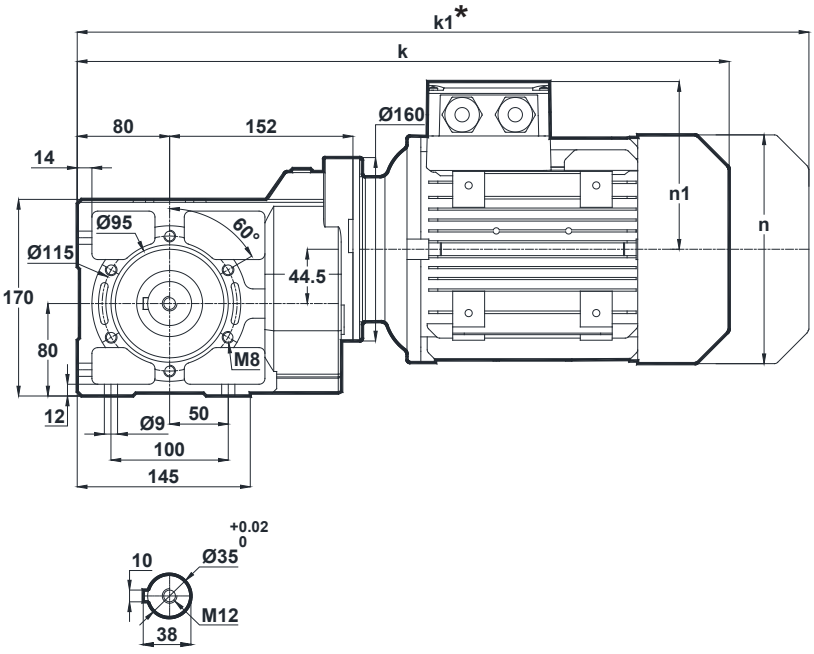
	63	71	80	90S	90L	100L	112M
k	426	453	487	526	526	574	598
k1	487	544	580	629.5	629.5	682.5	702.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161

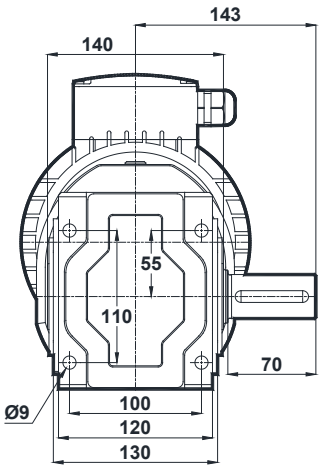
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80-90-100-112
Tip / *Type* / Typ

KR202.01
KR203.01





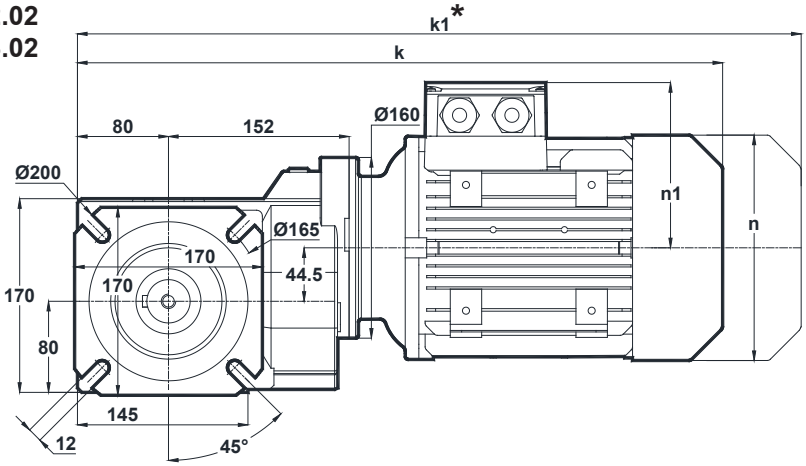
	63	71	80	90S	90L	100L	112M
k	426	453	487	526	526	574	598
k1	487	544	580	629.5	629.5	682.5	702.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161

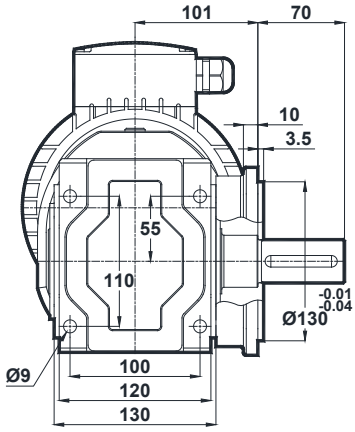
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

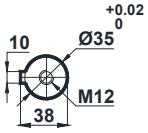
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

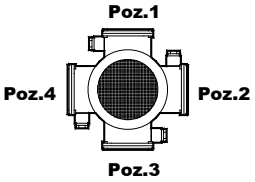
KR202.02
KR203.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

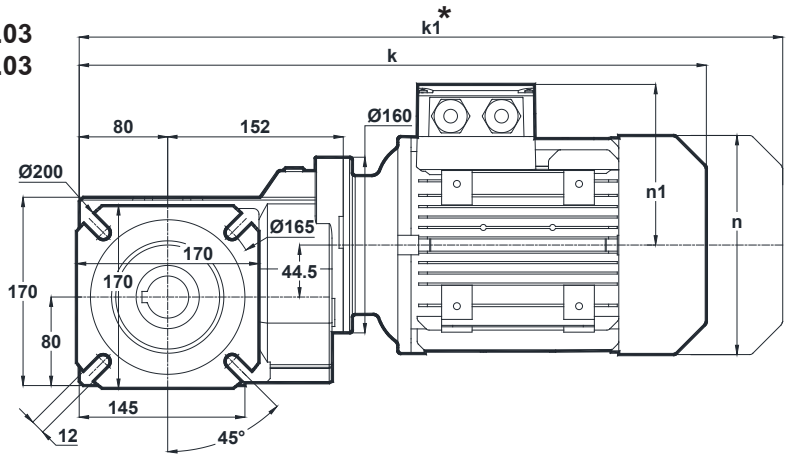


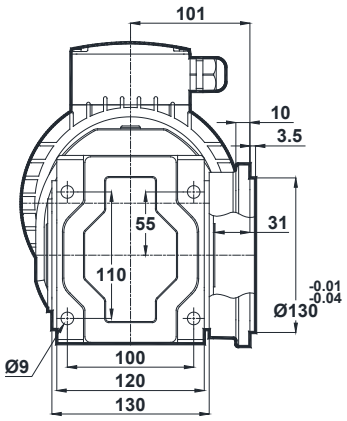
63-71-80-90-100-112
Tip / *Type* / Typ

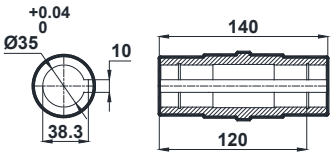
	63	71	80	90S	90L	100L	112M
k	426	453	487	526	526	574	598
k1	487	544	580	629.5	629.5	682.5	702.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR202.03
KR203.03







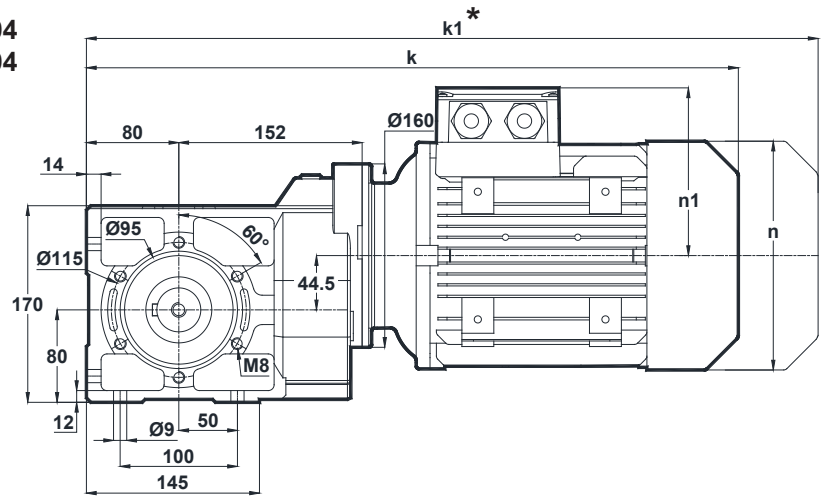
	63	71	80	90S	90L	100L	112M
k	426	453	487	526	526	574	598
k1	487	544	580	629.5	629.5	682.5	702.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161

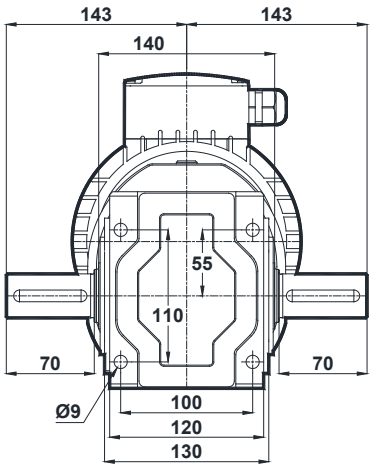
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

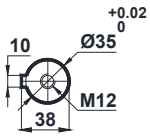
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

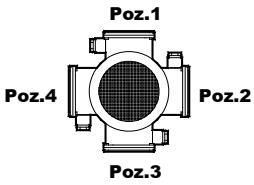
KR202.04
KR203.04







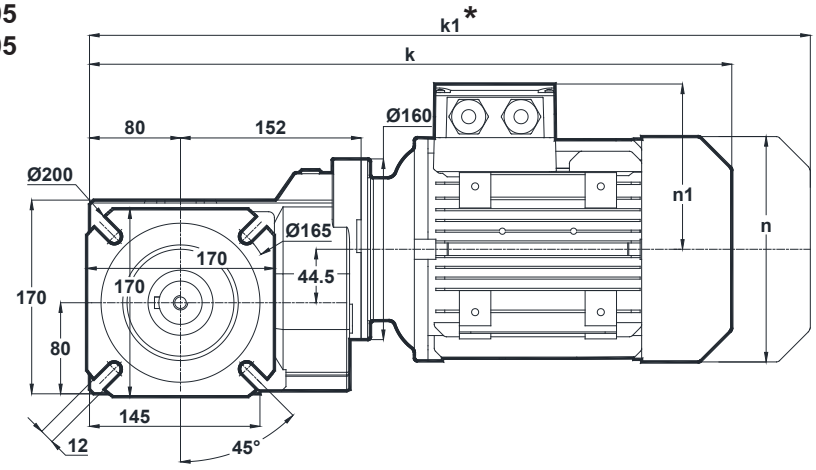
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

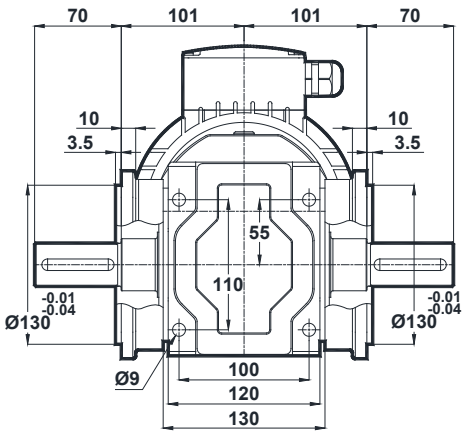


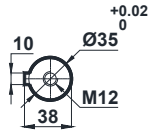
63-71-80-90-100-112
Tip / *Type* / Typ

	63	71	80	90S	90L	100L	112M
k	426	453	487	526	526	574	598
k1	487	544	580	629.5	629.5	682.5	702.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161

KR202.05
KR203.05



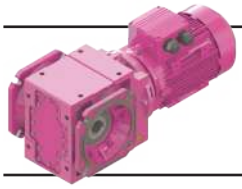




	63	71	80	90S	90L	100L	112M
k	426	453	487	526	526	574	598
k1	487	544	580	629.5	629.5	682.5	702.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

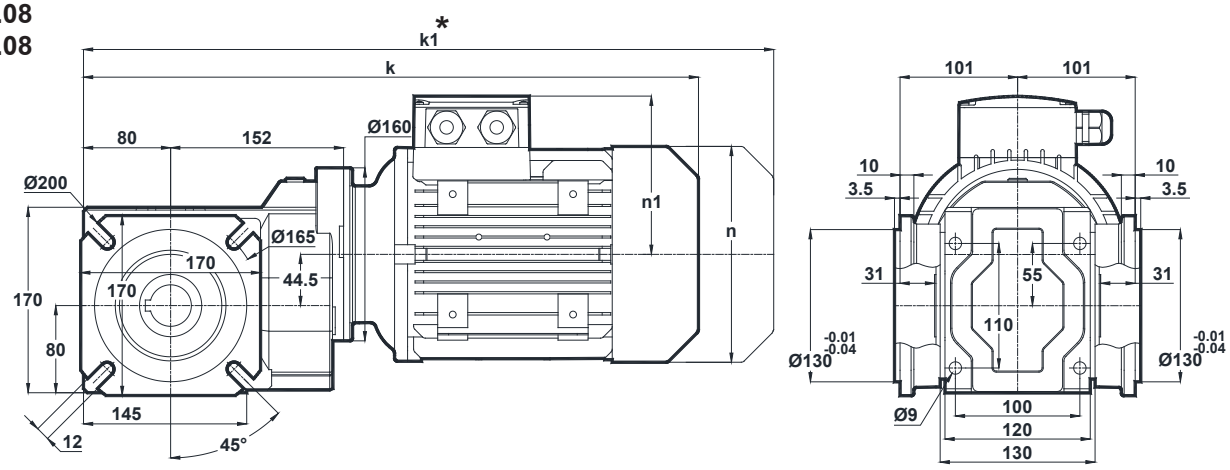
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

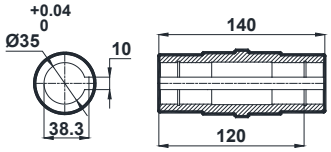


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

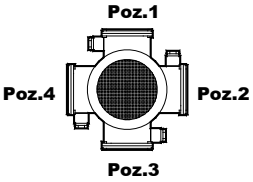
KR202.08
KR203.08





	63	71	80	90S	90L	100L	112M
k	426	453	487	526	526	574	598
k1	487	544	580	629.5	629.5	682.5	702.5
n	121	137	155	176	176	193	215
n1	97	112	123	132	132	149	161

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80-90-100-112
Tip / *Type* / Typ

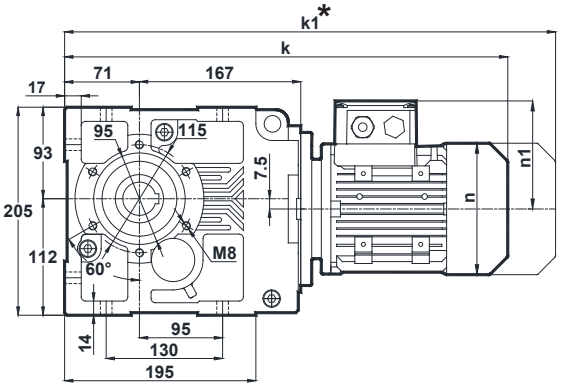
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

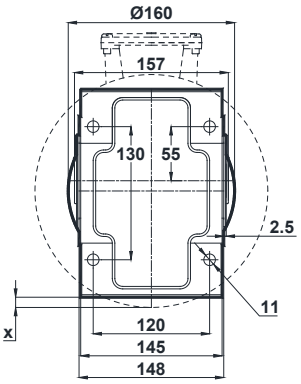
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

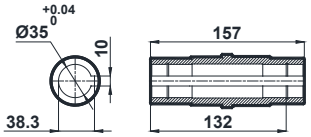
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR273.00



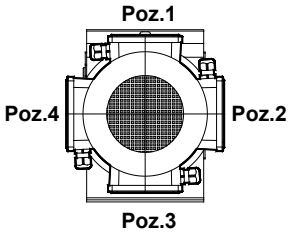




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

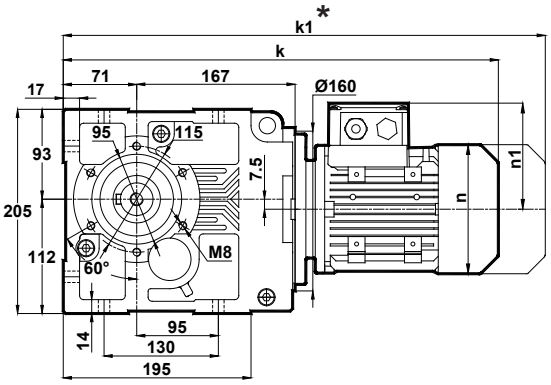
	63	71	80	90S	90L	100L	112M	132S	132M
k	432	459	493	532	532	580	604	687	687
k1	493	550	586	635.5	635.5	688.5	708.5	809	809
n	121	137	155	176	176	193	215	257	257
n1	97	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	3	24	24

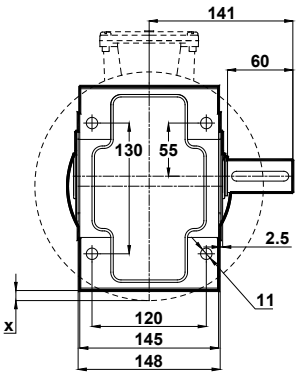
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

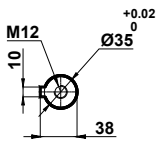


63-71- 80-90-100-112
Tip / *Type* / Typ

KR273.01







x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

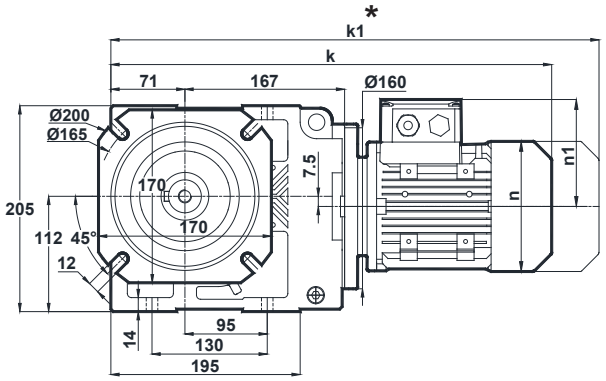
	63	71	80	90S	90L	100L	112M	132S	132M
k	432	459	493	532	532	580	604	687	687
k1	493	550	586	635.5	635.5	688.5	708.5	809	809
n	121	137	155	176	176	193	215	257	257
n1	97	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	3	24	24

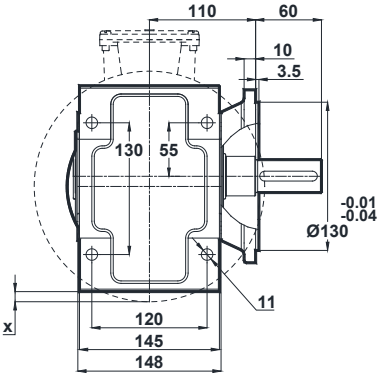
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

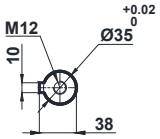
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR273.02

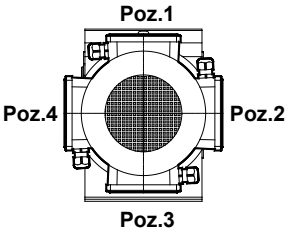






x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

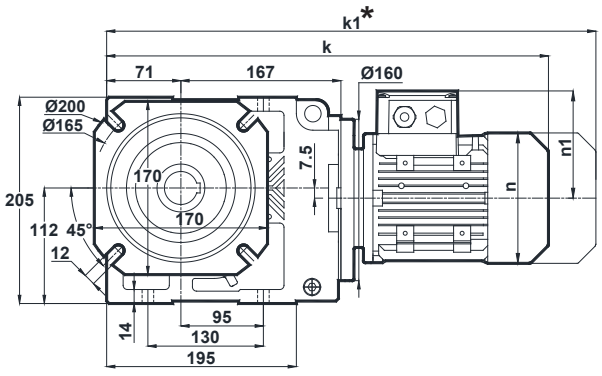


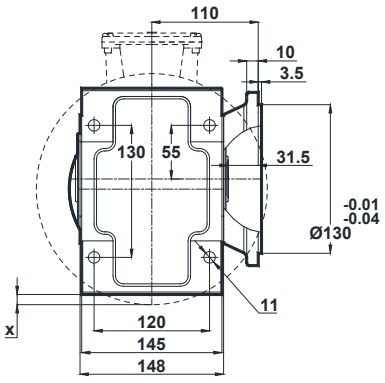
63-71-80-90-100-112
Tip / *Type* **/** Typ

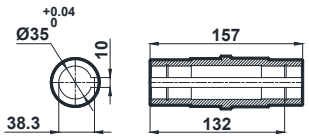
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	63	71	80	90S	90L	100L	112M	132S	132M
k	432	459	493	532	532	580	604	687	687
k1	493	550	586	635.5	635.5	688.5	708.5	809	809
n	121	137	155	176	176	193	215	257	257
n1	97	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	3	24	24

KR273.03







x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63	71	80	90S	90L	100L	112M	132S	132M
k	432	459	493	532	532	580	604	687	687
k1	493	550	586	635.5	635.5	688.5	708.5	809	809
n	121	137	155	176	176	193	215	257	257
n1	97	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	3	24	24

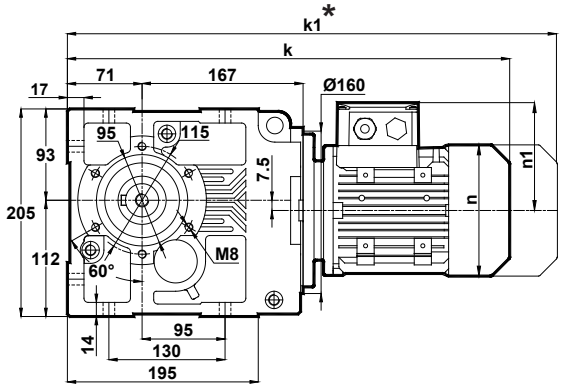
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

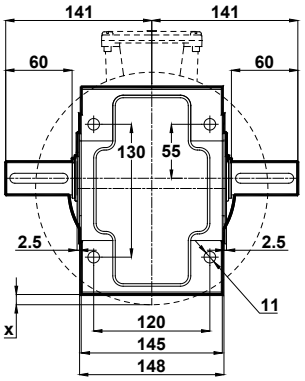
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

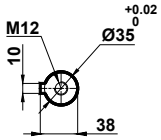
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR273.04



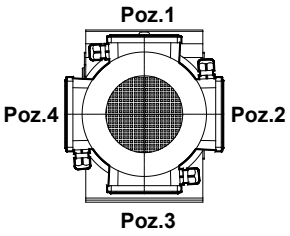


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



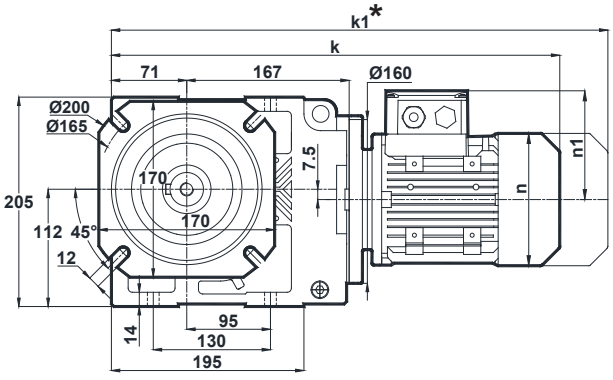
	63	71	80	90S	90L	100L	112M	132S	132M
k	432	459	493	532	532	580	604	687	687
k1	493	550	586	635.5	635.5	688.5	708.5	809	809
n	121	137	155	176	176	193	215	257	257
n1	97	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	3	24	24

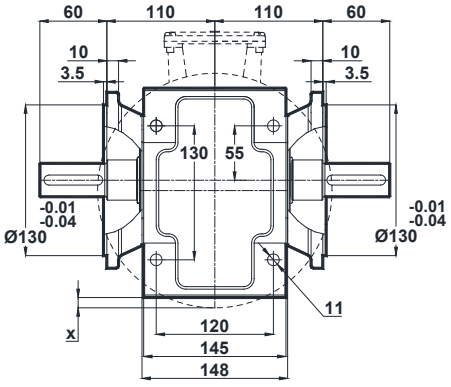
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



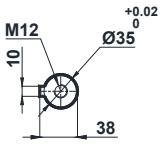
63-71- 80-90-100-112
Tip / *Type* / Typ

KR273.05





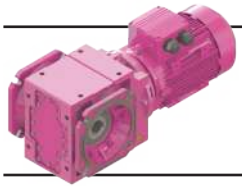
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



	63	71	80	90S	90L	100L	112M	132S	132M
k	432	459	493	532	532	580	604	687	687
k1	493	550	586	635.5	635.5	688.5	708.5	809	809
n	121	137	155	176	176	193	215	257	257
n1	97	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	3	24	24

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

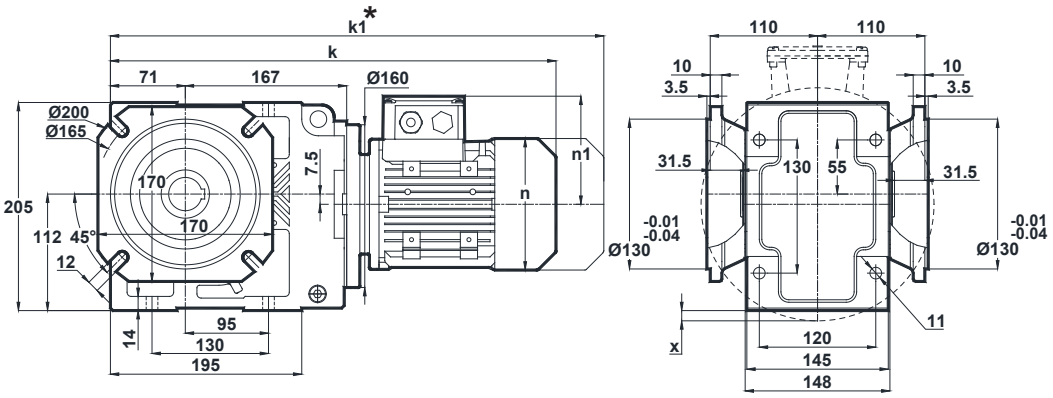
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



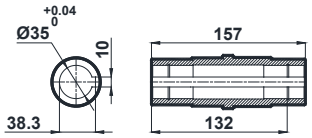
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR273.08

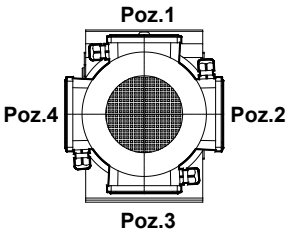


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



	63	71	80	90S	90L	100L	112M	132S	132M
k	432	459	493	532	532	580	604	687	687
k1	493	550	586	635.5	635.5	688.5	708.5	809	809
n	121	137	155	176	176	193	215	257	257
n1	97	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	3	24	24

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



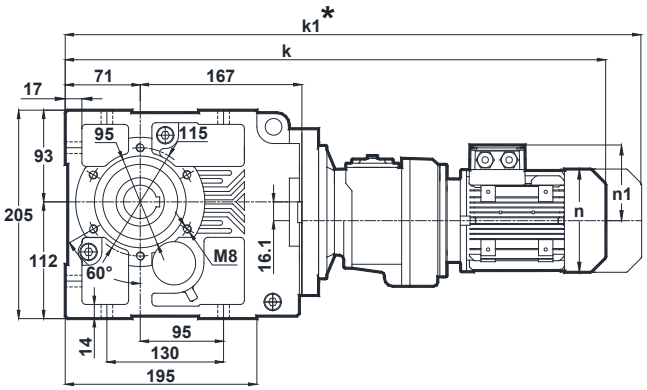
63-71- 80-90-100-112
Tip / *Type* / Typ

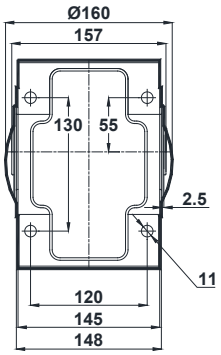
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

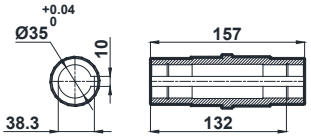
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR275.00
KR276.00

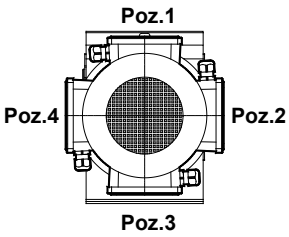






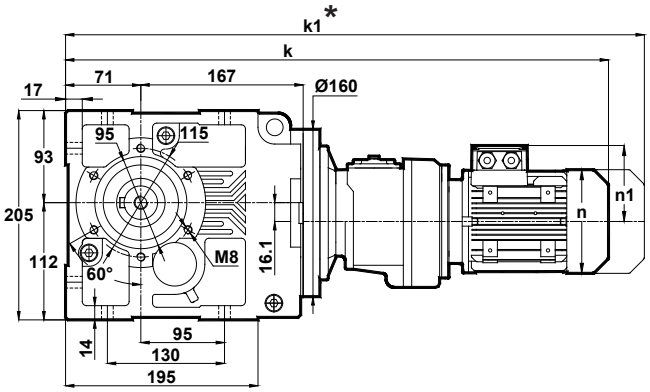
	63	71	80
k	581.5	610	644
k1	642.5	701	737
n	121	137	155
n1	97	112	123

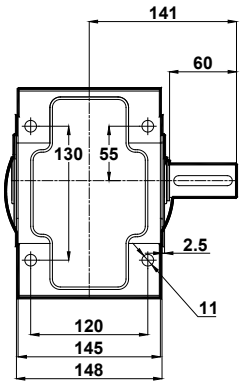
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

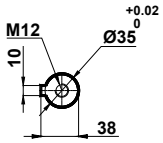


63-71-80
Tip / *Type* / Typ

KR275.01
KR276.01







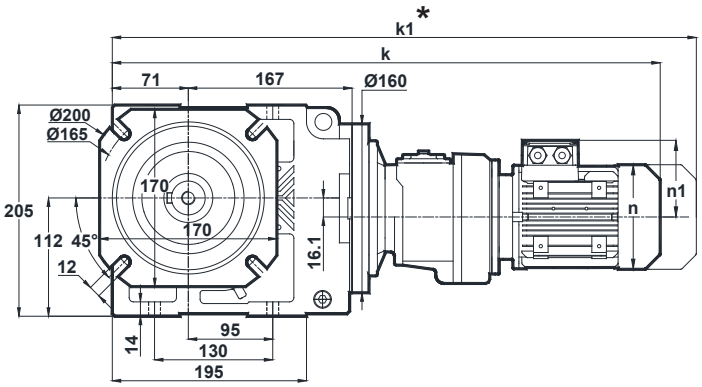
	63	71	80
k	581.5	610	644
k1	642.5	701	737
n	121	137	155
n1	97	112	123

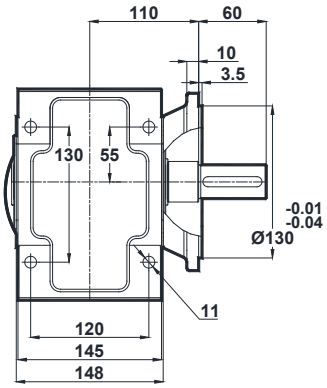
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

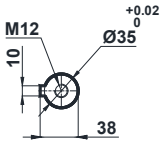
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

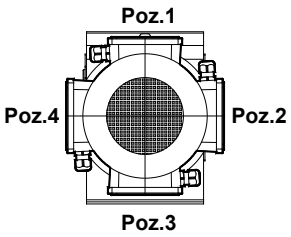
KR275.02
KR276.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

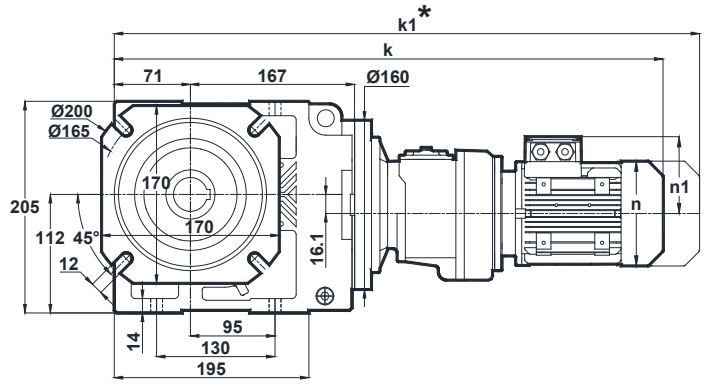


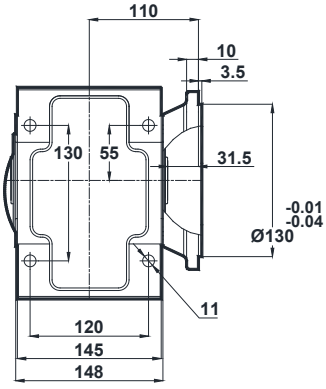
63-71-80
Tip / *Type* / Typ

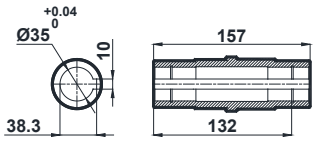
	63	71	80
k	581.5	610	644
k1	642.5	701	737
n	121	137	155
n1	97	112	123

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR275.03
KR276.03







	63	71	80
k	581.5	610	644
k1	642.5	701	737
n	121	137	155
n1	97	112	123

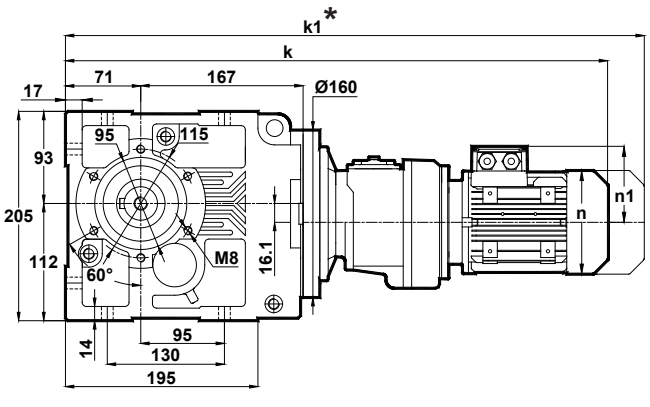
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

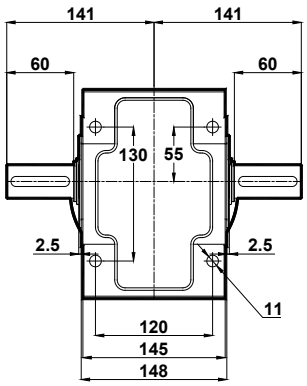
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

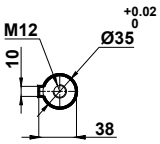
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR275.04
KR276.04

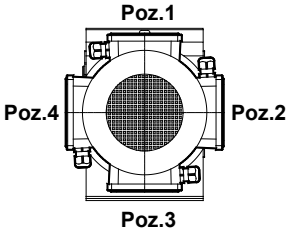






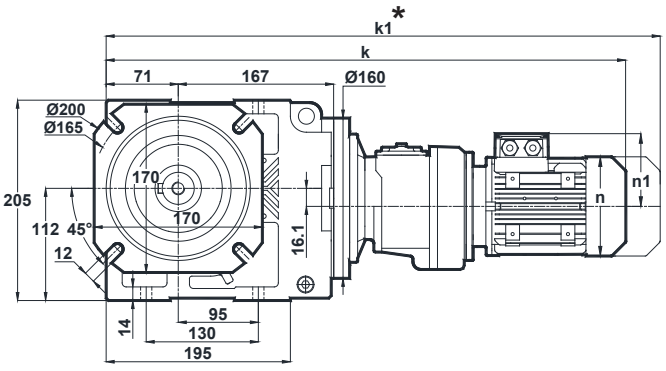
	63	71	80
k	581.5	610	644
k1	642.5	701	737
n	121	137	155
n1	97	112	123

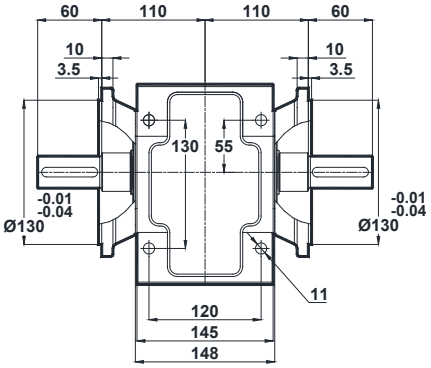
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

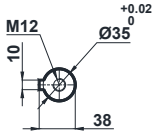


63-71-80
Tip / *Type* / Typ

KR275.05
KR276.05



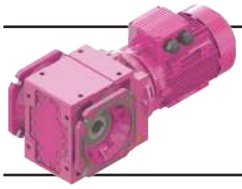




	63	71	80
k	581.5	610	644
k1	642.5	701	737
n	121	137	155
n1	97	112	123

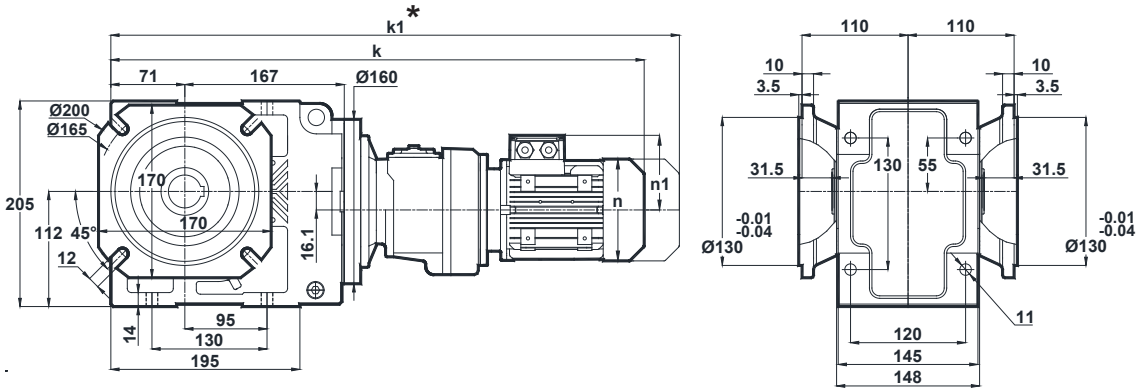
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

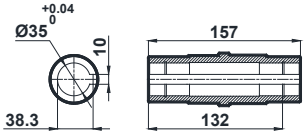
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

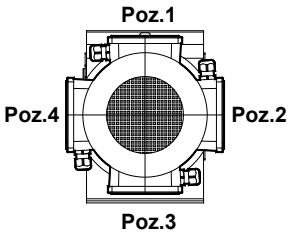
KR275.08
KR276.08





	63	71	80
k	581.5	610	644
k1	642.5	701	737
n	121	137	155
n1	97	112	123

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80
Tip / *Type* / Typ

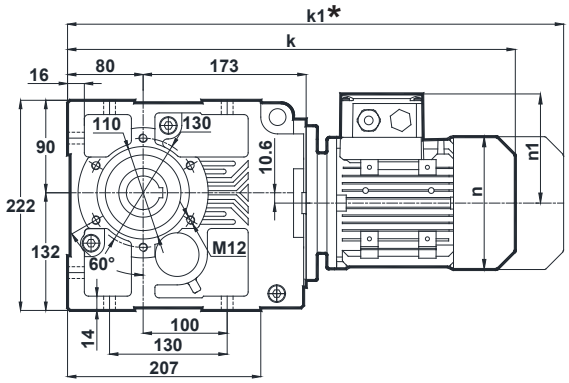
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

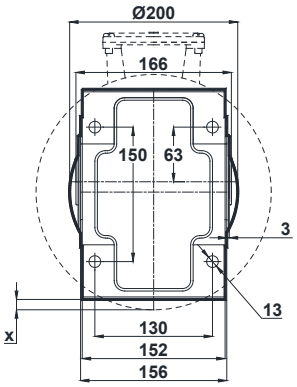
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

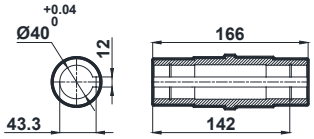
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

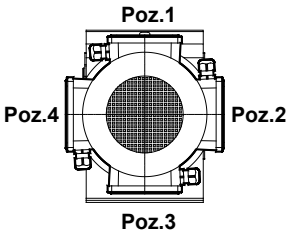
KR283.00







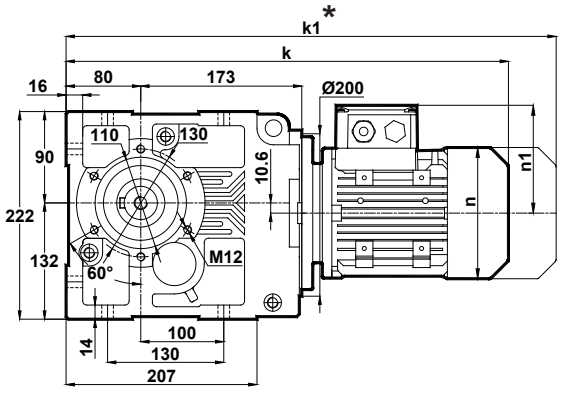
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

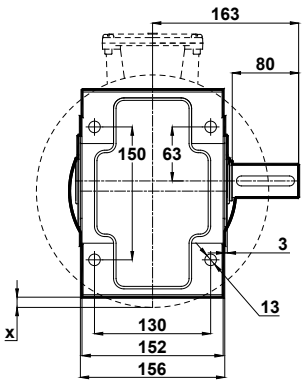


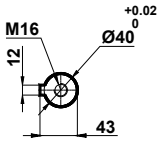
71-80-90-100-112-132
Tip / *Type* / Typ

	71	80	90S	90L	100L	112M	132S	132M
k	465	499	538	538	586	610	696.5	696.5
k1	556	592	641.5	641.5	694.5	714.5	826.5	826.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	7.1	7.1

KR283.01







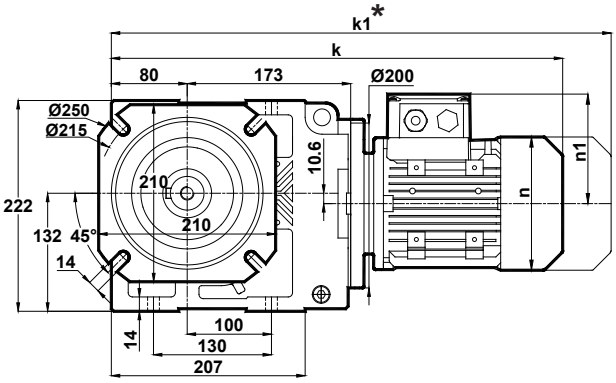
	71	80	90S	90L	100L	112M	132S	132M
k	465	499	538	538	586	610	696.5	696.5
k1	556	592	641.5	641.5	694.5	714.5	826.5	826.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	7.1	7.1

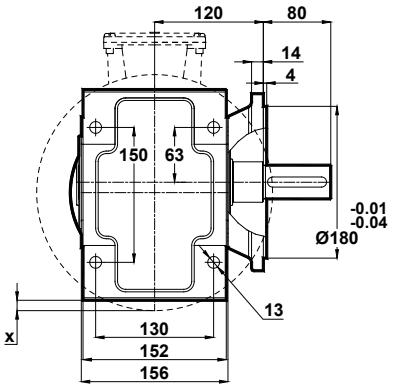
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

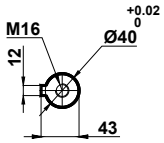
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

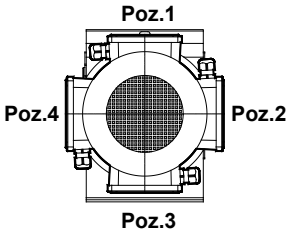
KR283.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

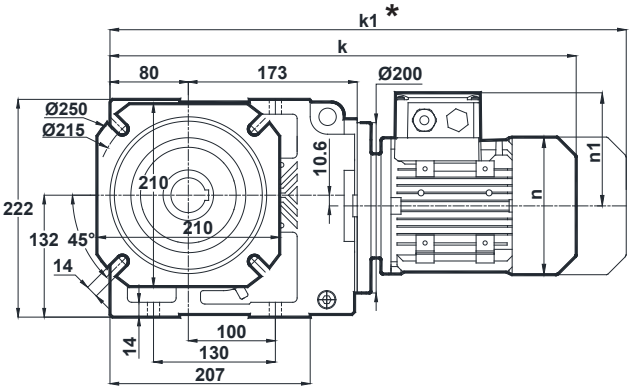


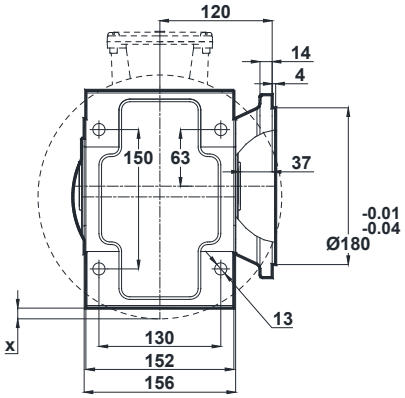
71-80-90-100-112-132
Tip / *Type* / Typ

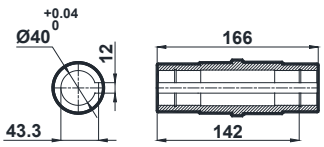
	71	80	90S	90L	100L	112M	132S	132M
k	465	499	538	538	586	610	696.5	696.5
k1	556	592	641.5	641.5	694.5	714.5	826.5	826.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	7.1	7.1

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR283.03







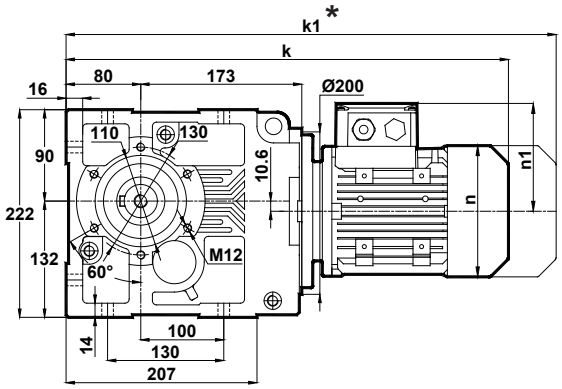
	71	80	90S	90L	100L	112M	132S	132M
k	465	499	538	538	586	610	696.5	696.5
k1	556	592	641.5	641.5	694.5	714.5	826.5	826.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	7.1	7.1

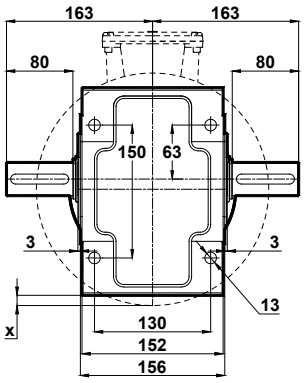
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

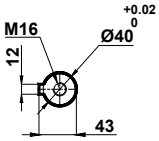
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

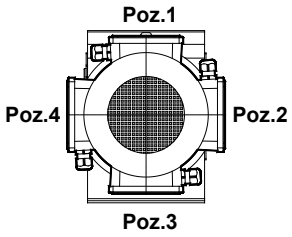
KR283.04







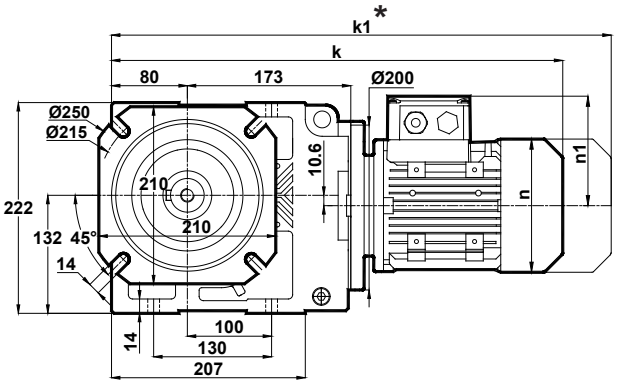
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

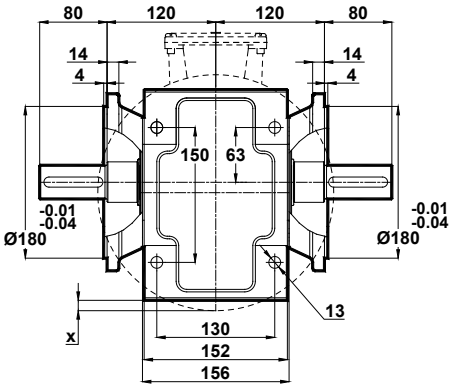


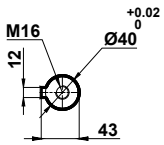
71-80-90-100-112-132
Tip / *Type* / Typ

	71	80	90S	90L	100L	112M	132S	132M
k	465	499	538	538	586	610	696.5	696.5
k1	556	592	641.5	641.5	694.5	714.5	826.5	826.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	7.1	7.1

KR283.05



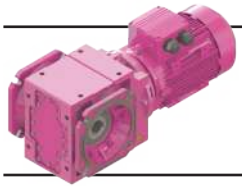




	71	80	90S	90L	100L	112M	132S	132M
k	465	499	538	538	586	610	696.5	696.5
k1	556	592	641.5	641.5	694.5	714.5	826.5	826.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	7.1	7.1

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

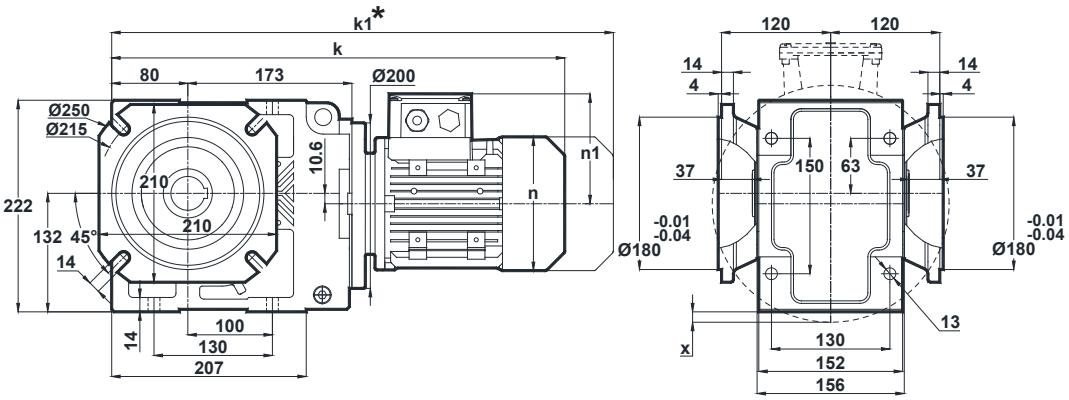
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

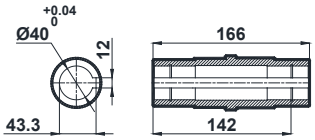


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

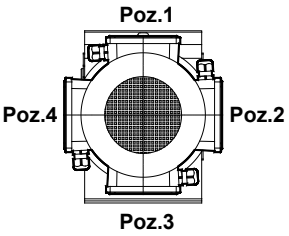
KR283.08





	71	80	90S	90L	100L	112M	132S	132M
k	465	499	538	538	586	610	696.5	696.5
k1	556	592	641.5	641.5	694.5	714.5	826.5	826.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	7.1	7.1

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



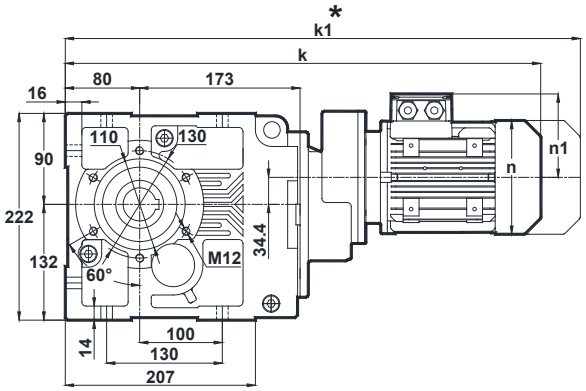
71-80-90-100-112-132
Tip / *Type* / Typ

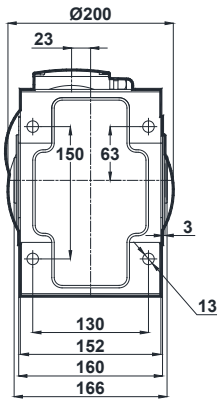
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

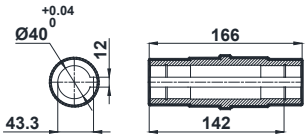
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR284.00

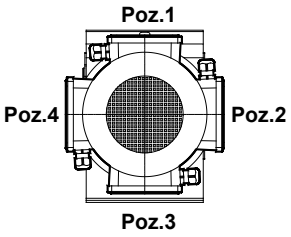






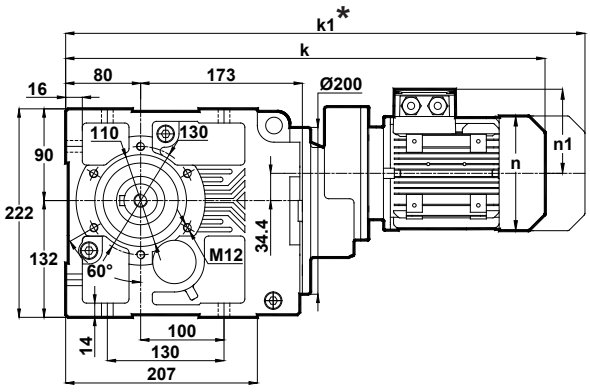
	63	71	80
k	517	544	578
k1	578	635	671
n	121	137	155
n1	97	112	123

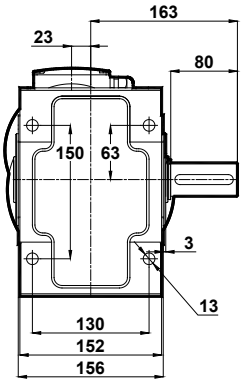
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

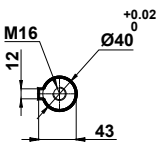


63-71-80
Tip / *Type* / Typ

KR284.01





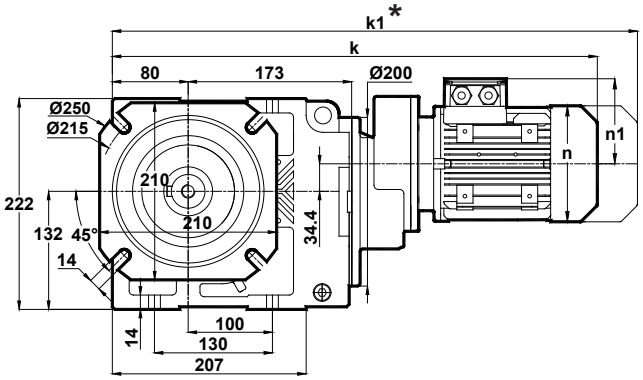


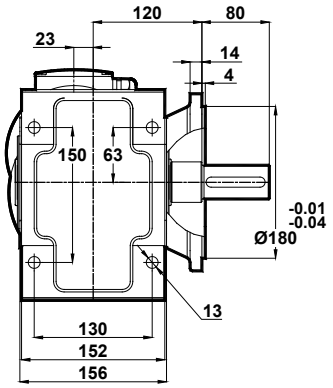
	63	71	80
k	517	544	578
k1	578	635	671
n	121	137	155
n1	97	112	123

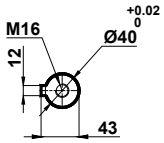
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

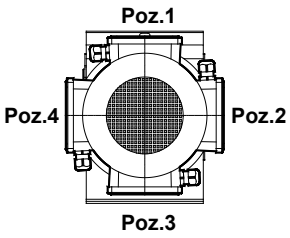
KR284.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

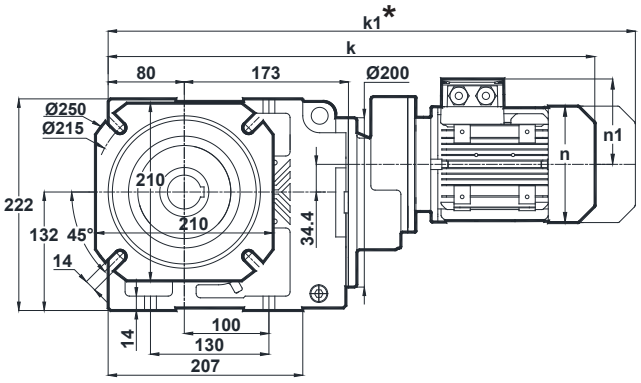


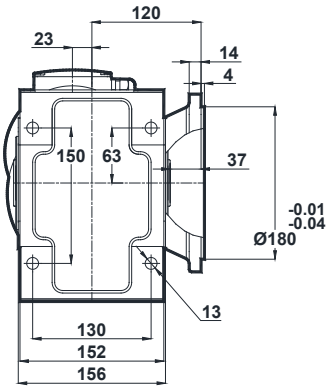
63-71-80
Tip / *Type* / Typ

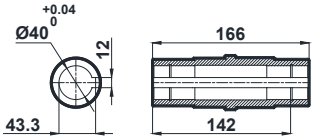
	63	71	80
k	517	544	578
k1	578	635	671
n	121	137	155
n1	97	112	123

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR284.03







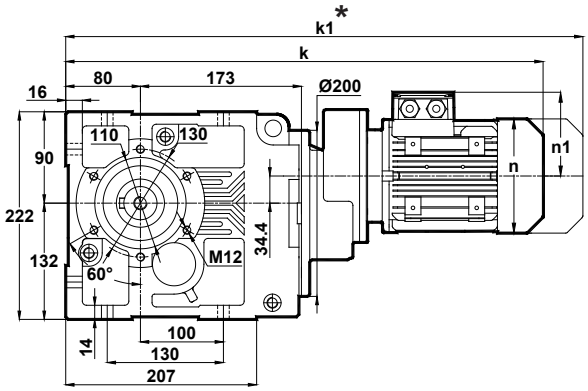
	63	71	80
k	517	544	578
k1	578	635	671
n	121	137	155
n1	97	112	123

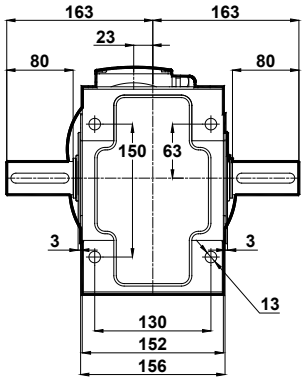
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

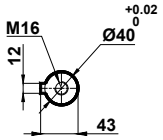
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR284.04

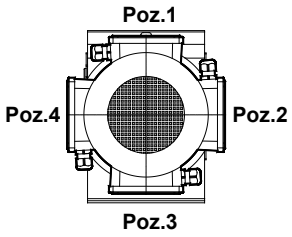






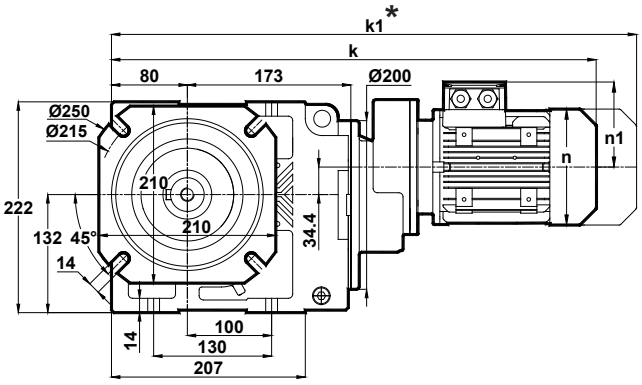
	63	71	80
k	517	544	578
k1	578	635	671
n	121	137	155
n1	97	112	123

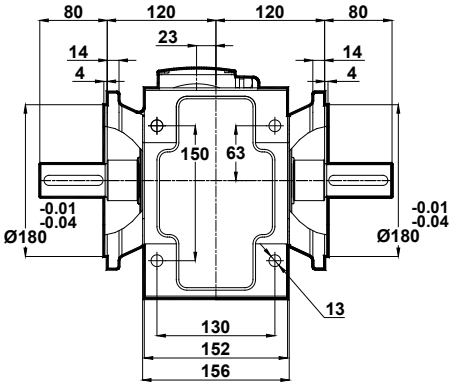
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

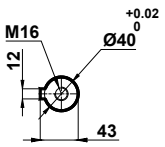


63-71-80
Tip / *Type* / Typ

KR284.05



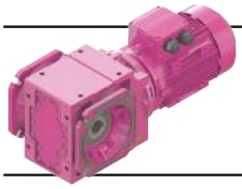




	63	71	80
k	517	544	578
k1	578	635	671
n	121	137	155
n1	97	112	123

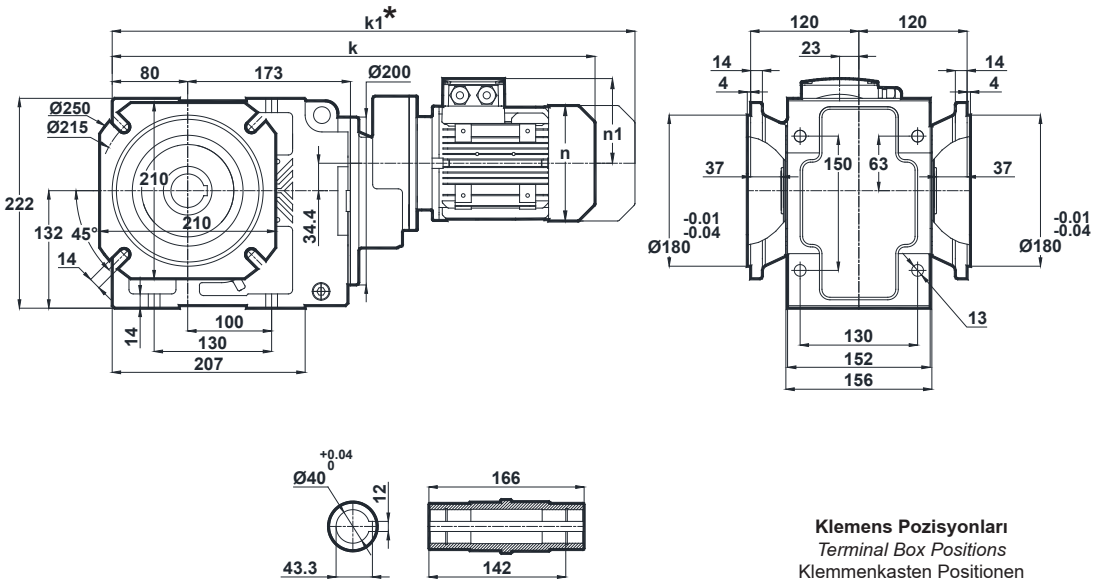
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



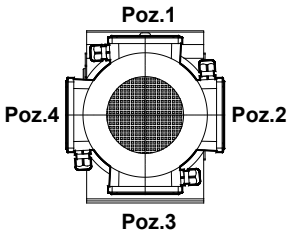
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR284.08



	63	71	80
k	517	544	578
k1	578	635	671
n	121	137	155
n1	97	112	123

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



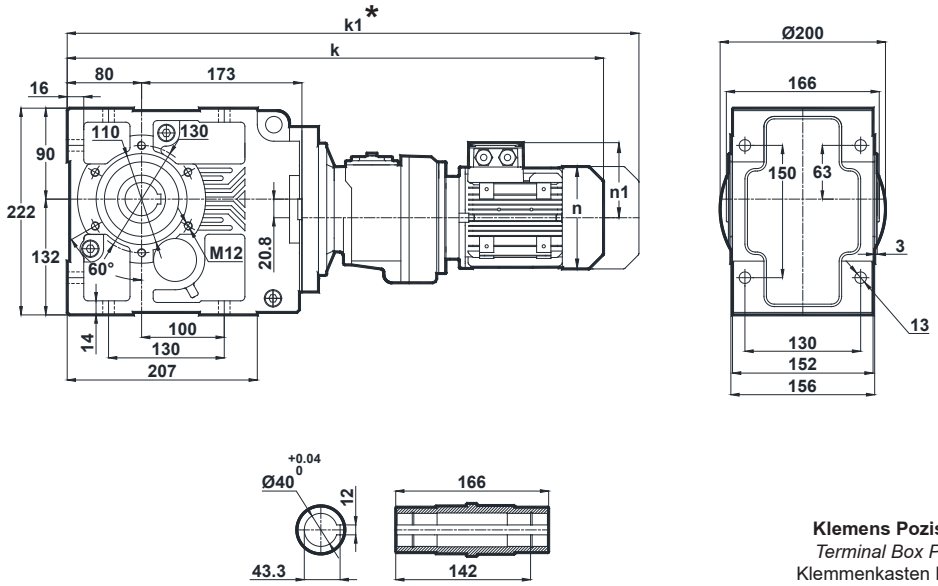
63-71-80
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

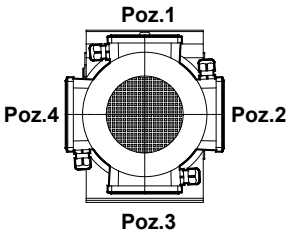
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR285.00
KR286.00



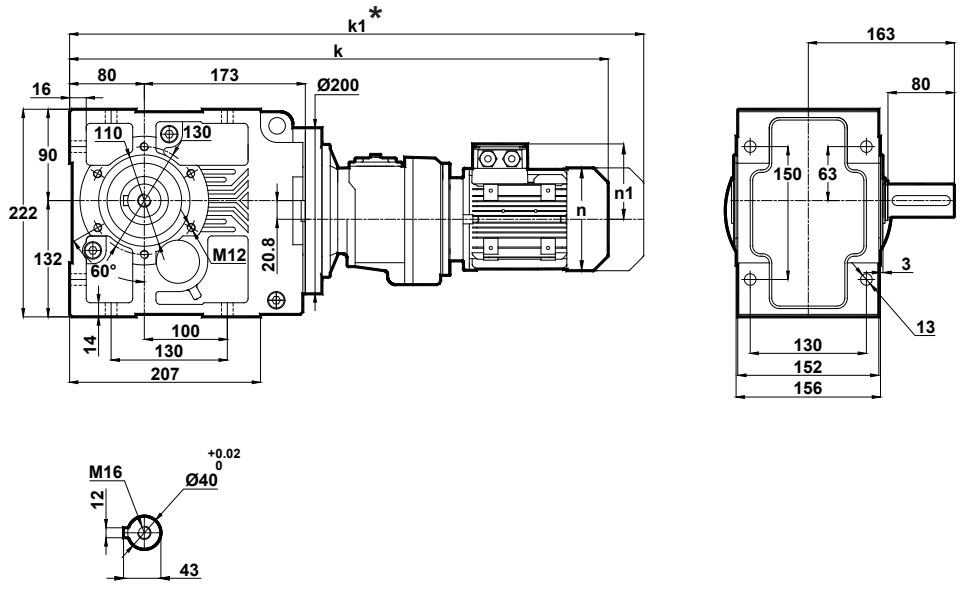
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63
Tip / *Type* / Typ

	63
k	621.5
k1	682.5
n	121
n1	97

KR285.01
KR286.01



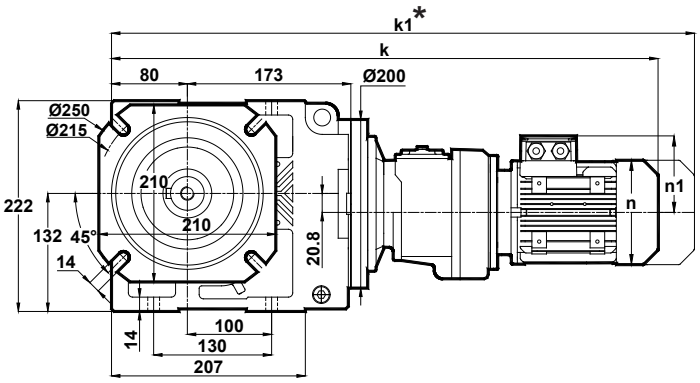
	63
k	621.5
k1	682.5
n	121
n1	97

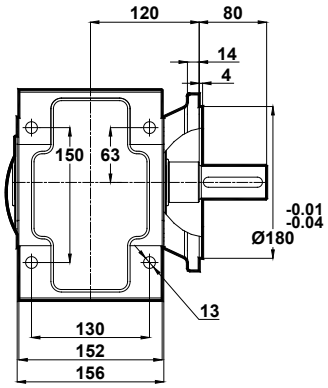
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

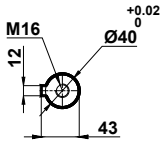
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

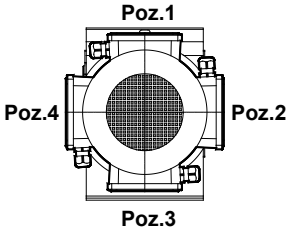
KR285.02
KR286.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

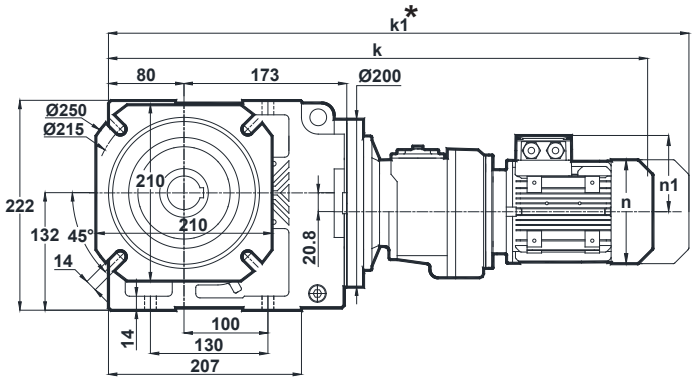


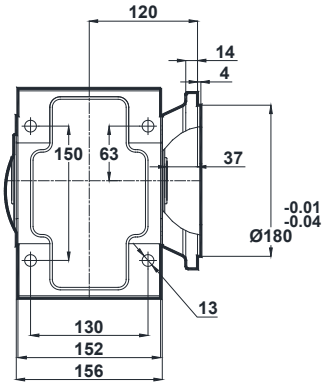
63
Tip / *Type* / Typ

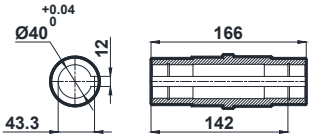
	63
k	621.5
k1	682.5
n	121
n1	97

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR285.03
KR286.03







	63
k	621.5
k1	682.5
n	121
n1	97

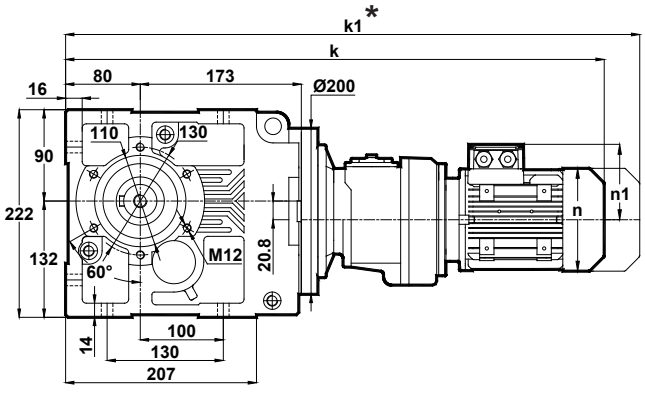
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

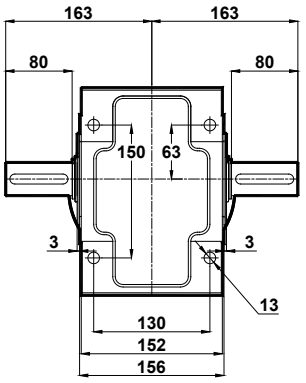
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

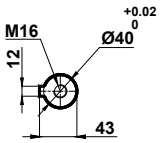
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

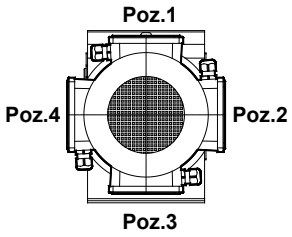
KR285.04
KR286.04







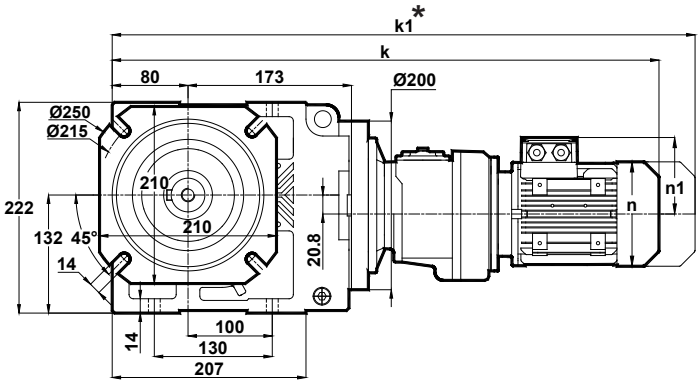
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

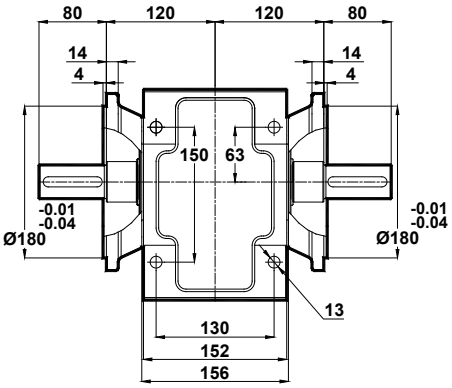


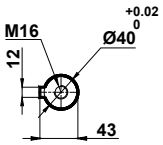
63
Tip / *Type* / Typ

	63
k	621.5
k1	682.5
n	121
n1	97

KR285.05
KR286.05



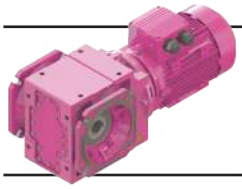




	63
k	621.5
k1	682.5
n	121
n1	97

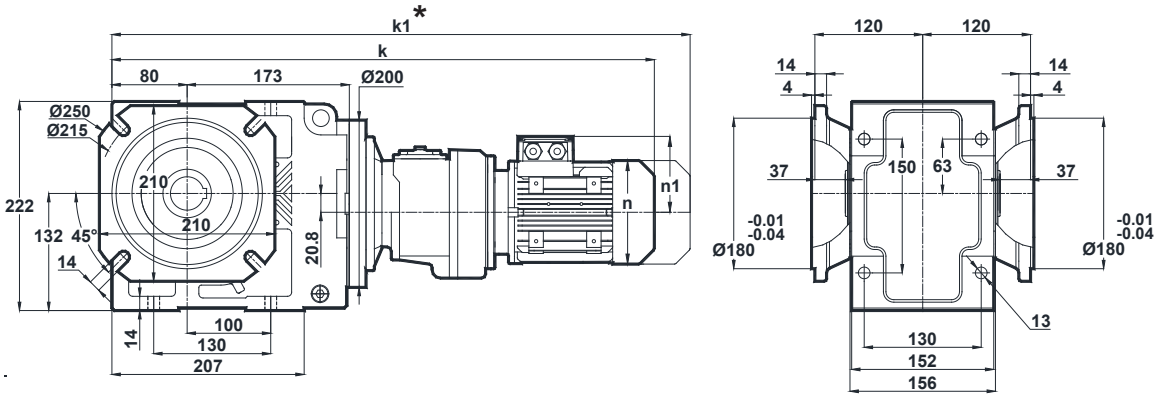
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

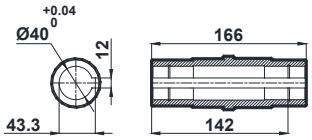
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

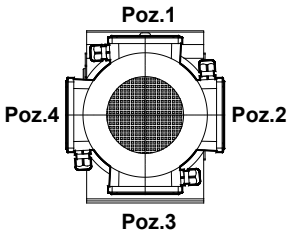
KR285.08
KR286.08





	63
k	621.5
k1	682.5
n	121
n1	97

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



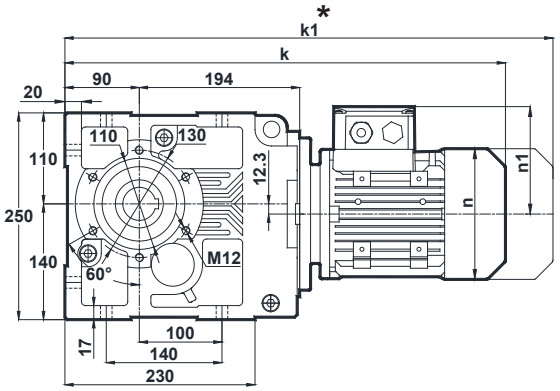
63
Tip / *Type* / Typ

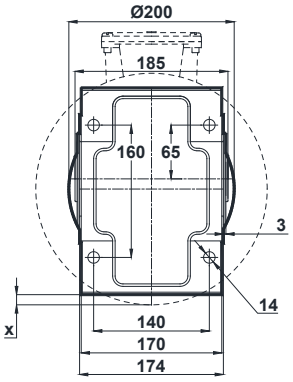
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

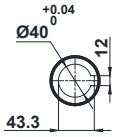
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

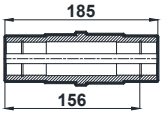
KR373.00



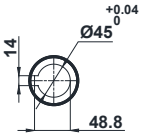


Std.





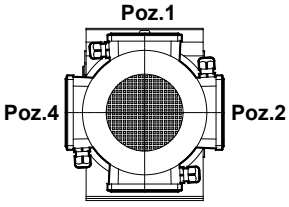
Ops.



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

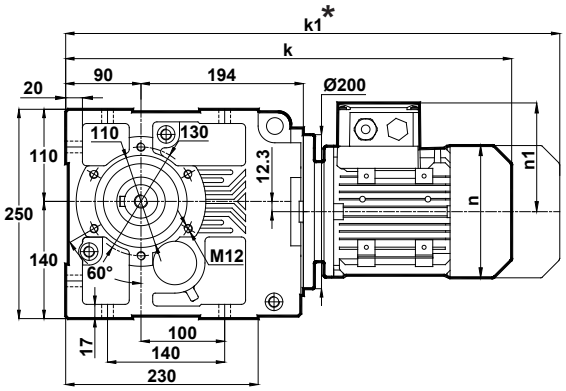
	71	80	90S	90L	100L	112M	132S	132M
k	496	530	569	569	617	641	727.5	727.5
k1	587	623	672.5	672.5	725.5	745.5	857.5	857.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	0.8	0.8

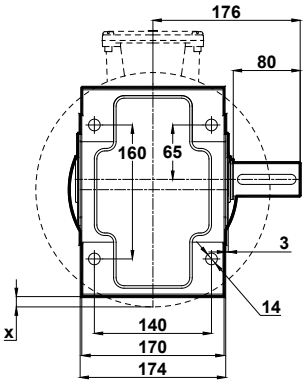
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

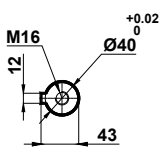


71-80-90-100-112-132
Tip / *Type* / Typ

KR373.01







x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

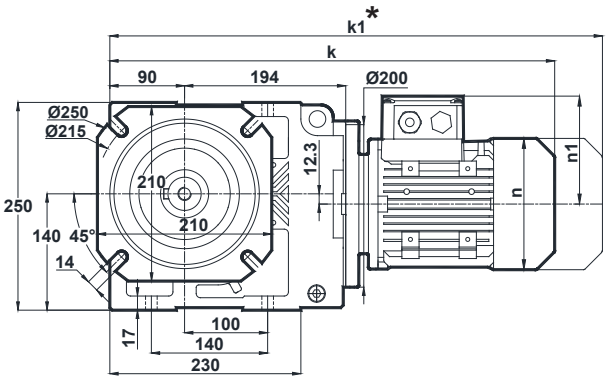
	71	80	90S	90L	100L	112M	132S	132M
k	496	530	569	569	617	641	727.5	727.5
k1	587	623	672.5	672.5	725.5	745.5	857.5	857.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	0.8	0.8

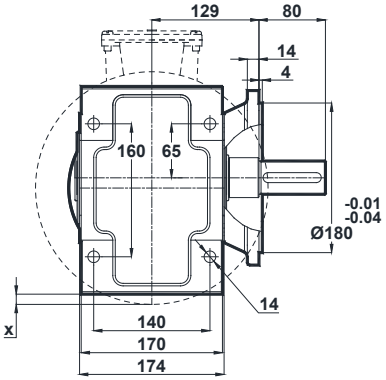
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

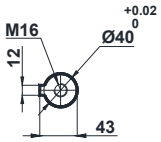
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR373.02

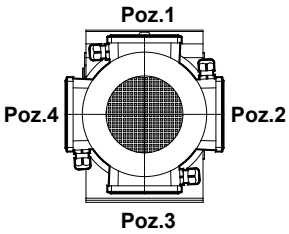






x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

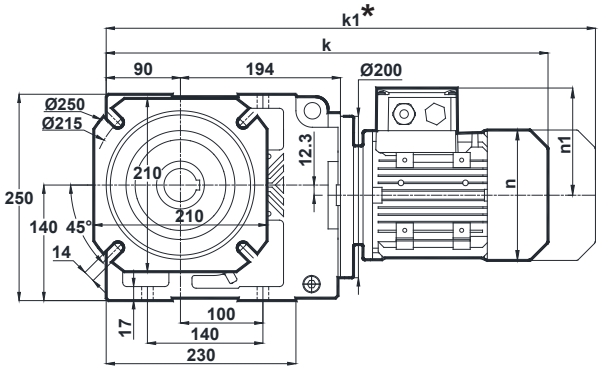


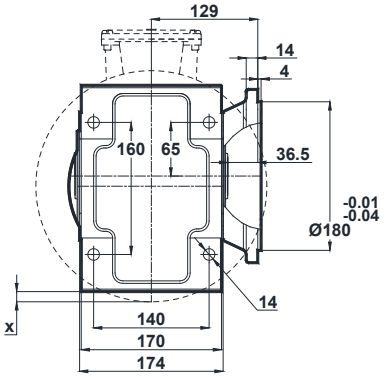
71-80-90-100-112-132
Tip / *Type* / Typ

	71	80	90S	90L	100L	112M	132S	132M
k	496	530	569	569	617	641	727.5	727.5
k1	587	623	672.5	672.5	725.5	745.5	857.5	857.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	0.8	0.8

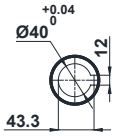
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

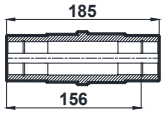
KR373.03



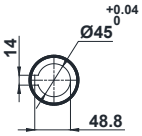


Std.





Ops.



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	71	80	90S	90L	100L	112M	132S	132M
k	496	530	569	569	617	641	727.5	727.5
k1	587	623	672.5	672.5	725.5	745.5	857.5	857.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	0.8	0.8

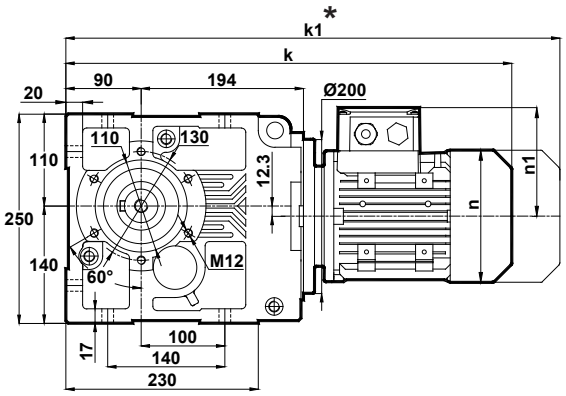
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

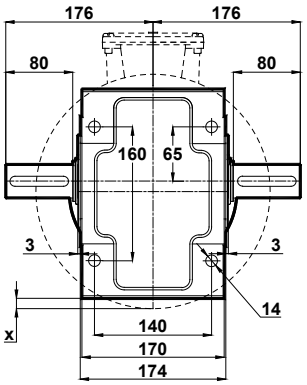
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

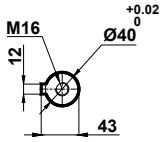
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR373.04

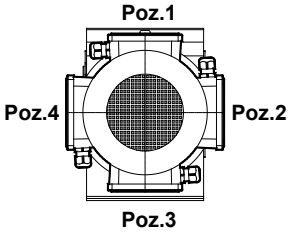




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



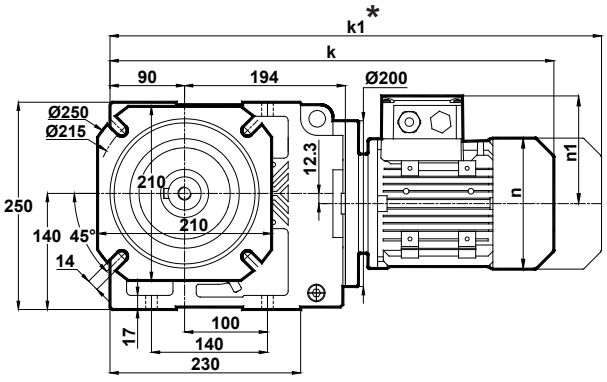
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

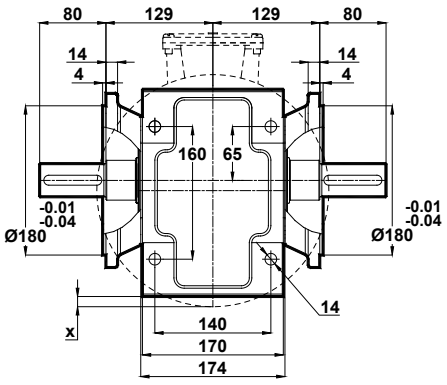


71-80-90-100-112-132
Tip / *Type* / Typ

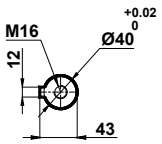
	71	80	90S	90L	100L	112M	132S	132M
k	496	530	569	569	617	641	727.5	727.5
k1	587	623	672.5	672.5	725.5	745.5	857.5	857.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	0.8	0.8

KR373.05





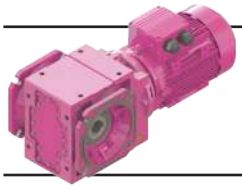
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



	71	80	90S	90L	100L	112M	132S	132M
k	496	530	569	569	617	641	727.5	727.5
k1	587	623	672.5	672.5	725.5	745.5	857.5	857.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	0.8	0.8

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

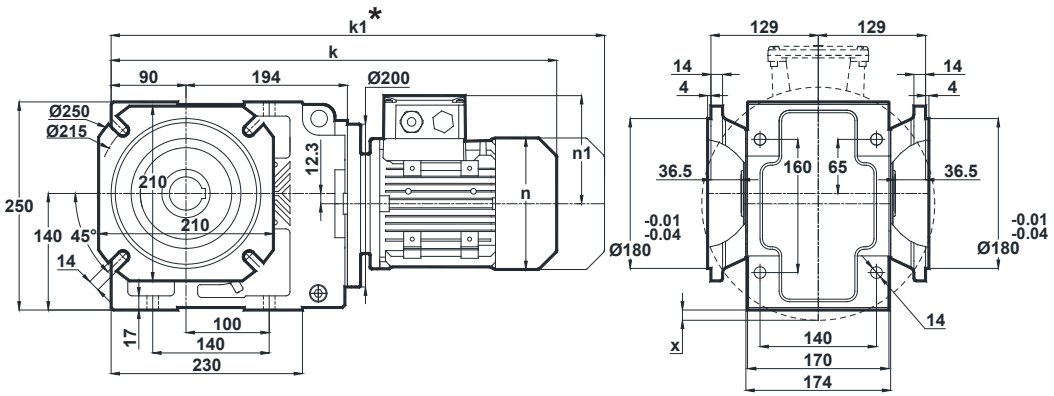
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

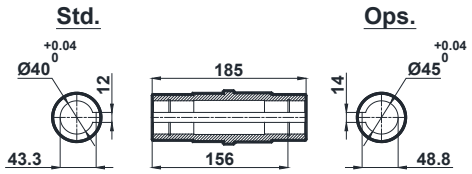


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

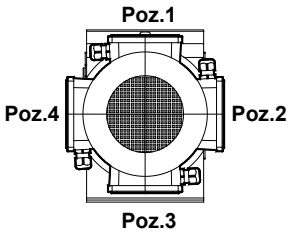
KR373.08





x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80-90-100-112-132
Tip / *Type* / Typ

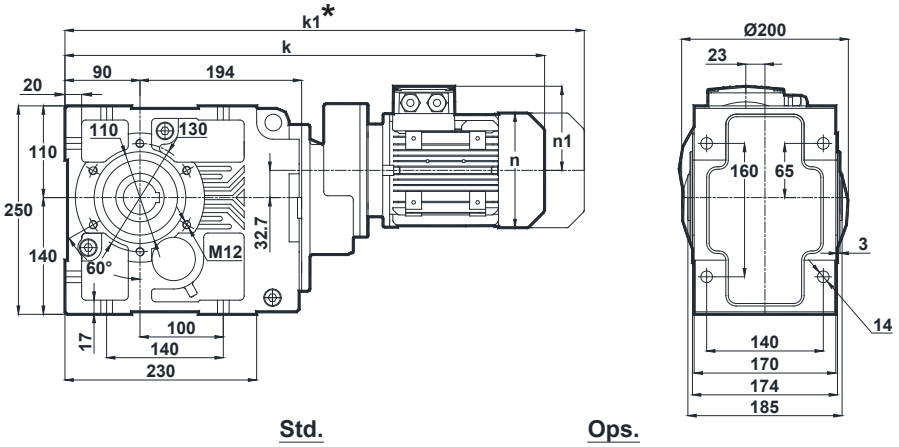
	71	80	90S	90L	100L	112M	132S	132M
k	496	530	569	569	617	641	727.5	727.5
k1	587	623	672.5	672.5	725.5	745.5	857.5	857.5
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181
x	-	-	-	-	-	-	0.8	0.8

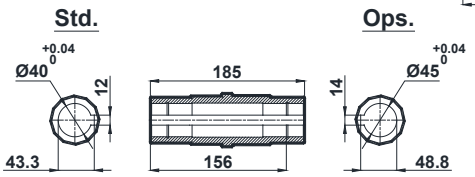
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

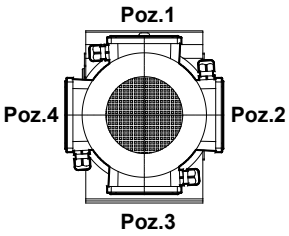
KR374.00





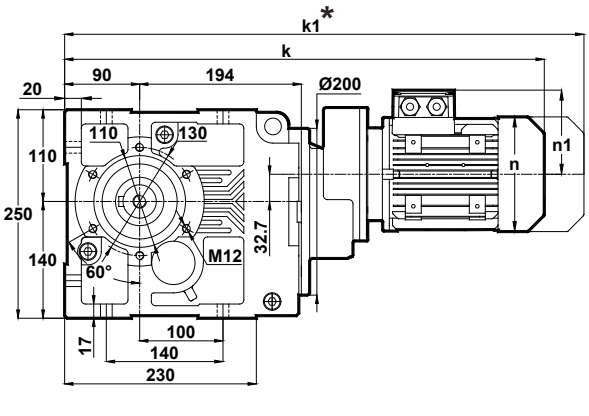
	63	71	80
k	548	575	609
k1	609	666	702
n	121	137	155
n1	97	112	123

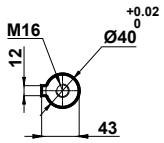
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80
Tip / *Type* / Typ

KR374.01





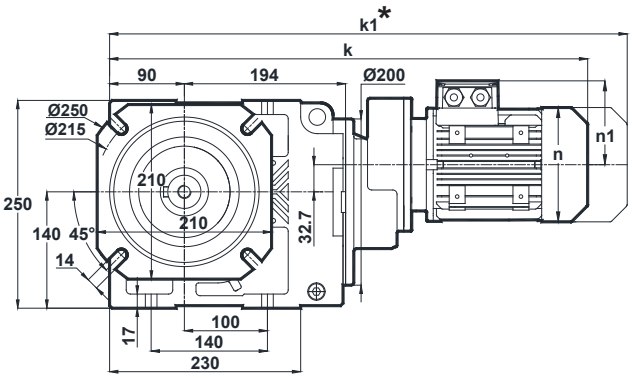
	63	71	80
k	548	575	609
k1	609	666	702
n	121	137	155
n1	97	112	123

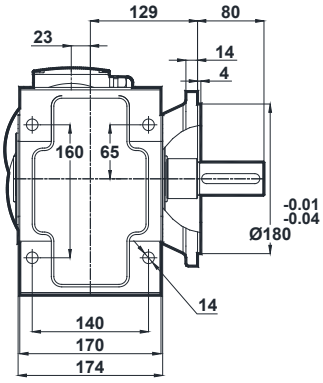
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

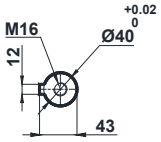
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR374.02

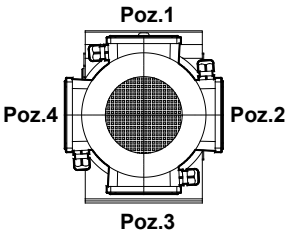






	63	71	80
k	548	575	609
k1	609	666	702
n	121	137	155
n1	97	112	123

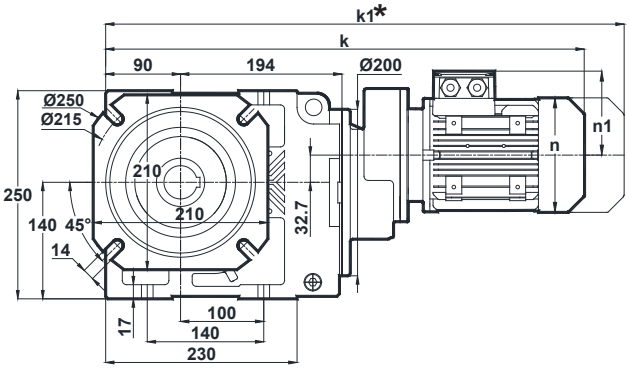
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

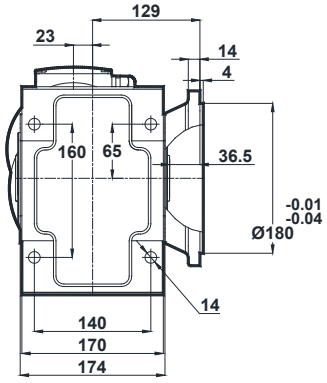


63-71-80
Tip / *Type* / Typ

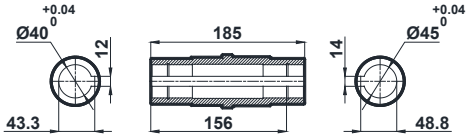
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR374.03





Std. **Ops.**



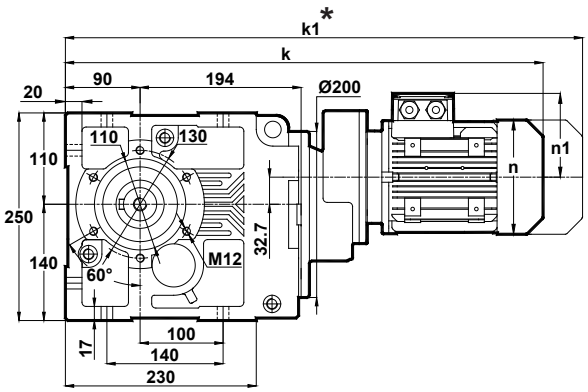
	63	71	80
k	548	575	609
k1	609	666	702
n	121	137	155
n1	97	112	123

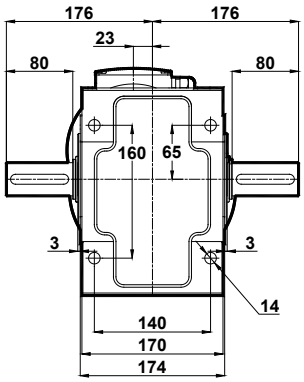
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

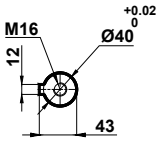
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR374.04

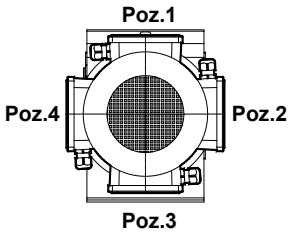






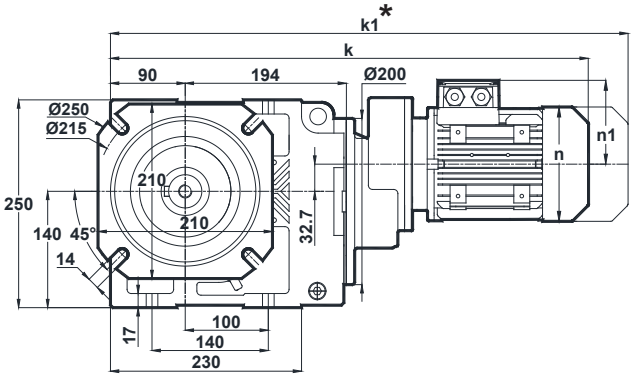
	63	71	80
k	548	575	609
k1	609	666	702
n	121	137	155
n1	97	112	123

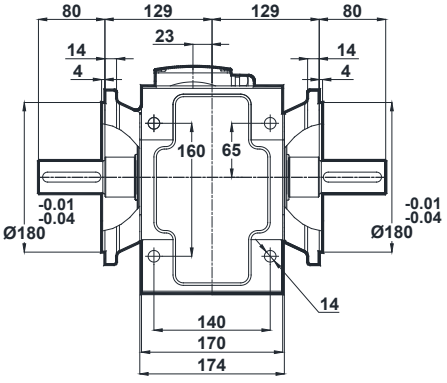
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

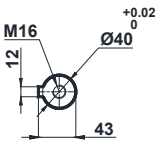


63-71-80
Tip / *Type* / Typ

KR374.05



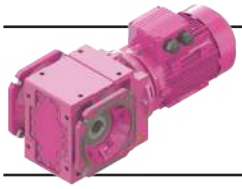




	63	71	80
k	548	575	609
k1	609	666	702
n	121	137	155
n1	97	112	123

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

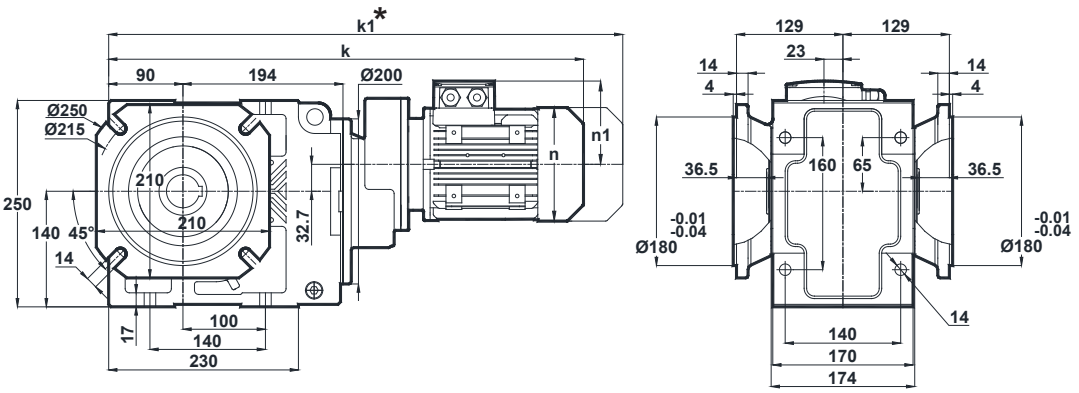
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

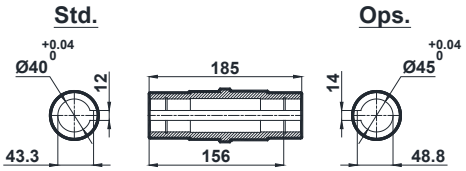


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

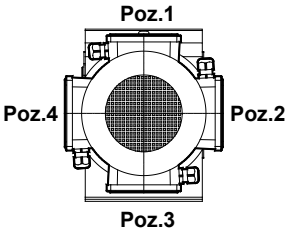
KR374.08





	63	71	80
k	548	575	609
k1	609	666	702
n	121	137	155
n1	97	112	123

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



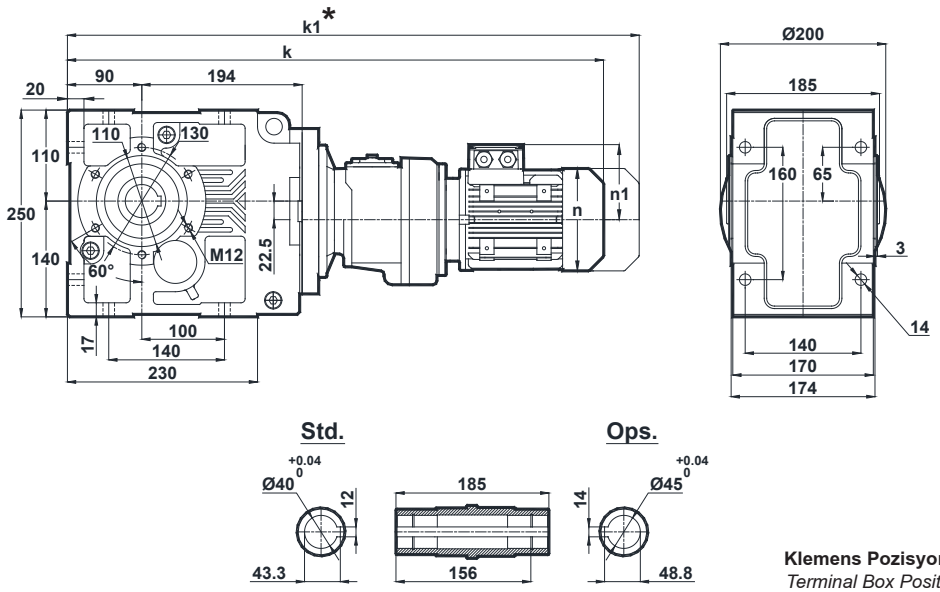
63-71-80
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

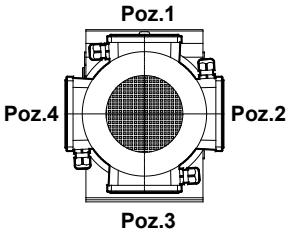
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR375.00
KR376.00



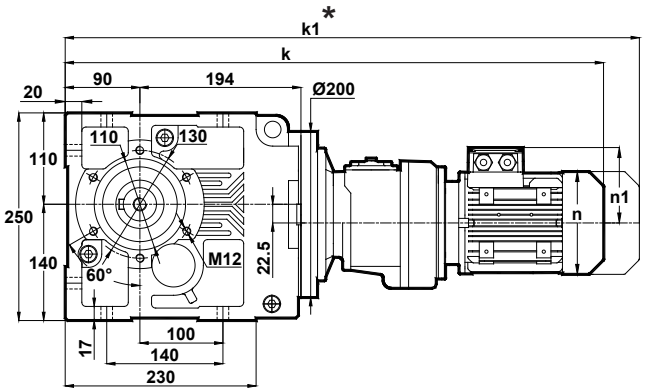
	63	71
k	652.5	678.5
k1	713.5	769.5
n	121	137
n1	97	112

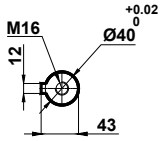
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tip / *Type* / Typ

KR375.01
KR376.01





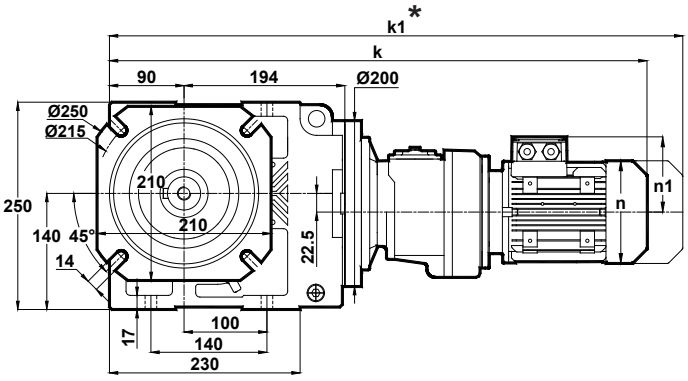
	63	71
k	652.5	678.5
k1	713.5	769.5
n	121	137
n1	97	112

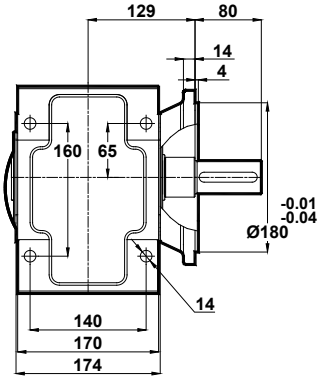
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

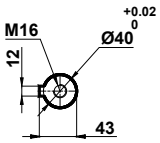
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR375.02
KR376.02

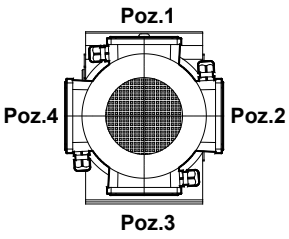






	63	71
k	652.5	678.5
k1	713.5	769.5
n	121	137
n1	97	112

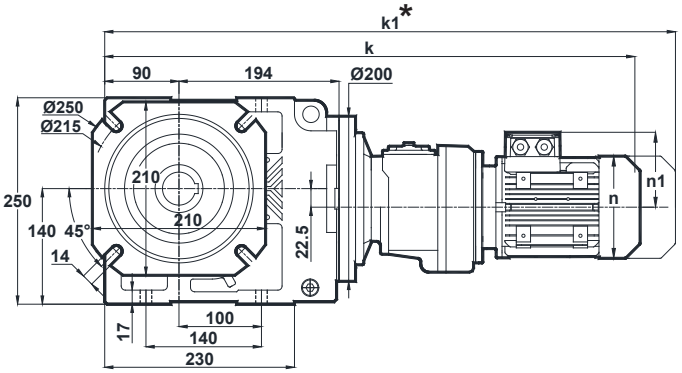
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

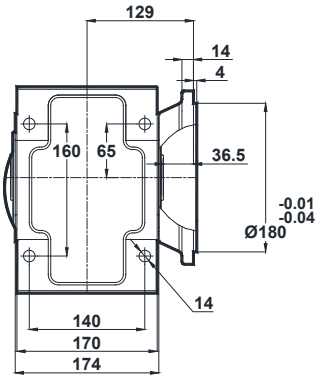


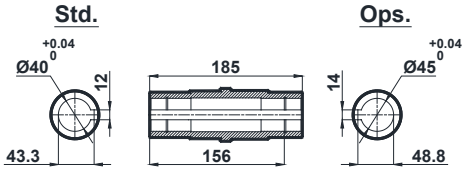
63-71
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR375.03
KR376.03







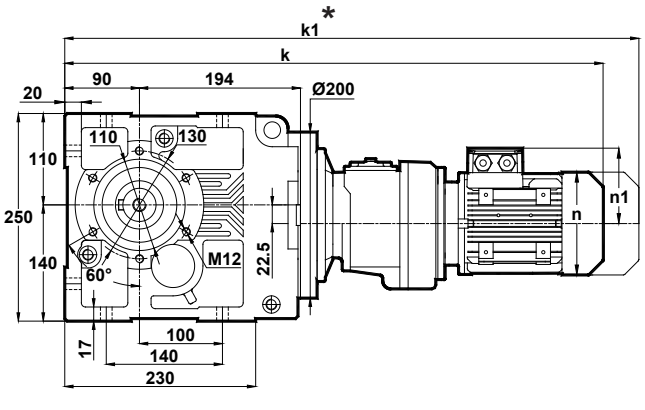
	63	71
k	652.5	678.5
k1	713.5	769.5
n	121	137
n1	97	112

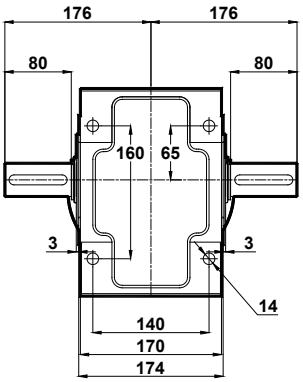
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

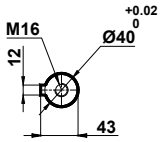
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR375.04
KR376.04

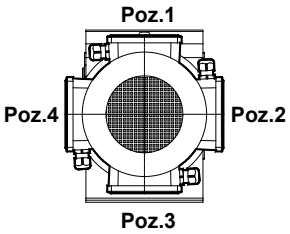






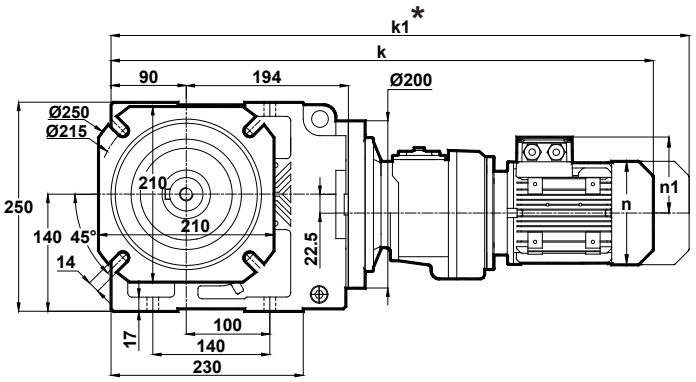
	63	71
k	652.5	678.5
k1	713.5	769.5
n	121	137
n1	97	112

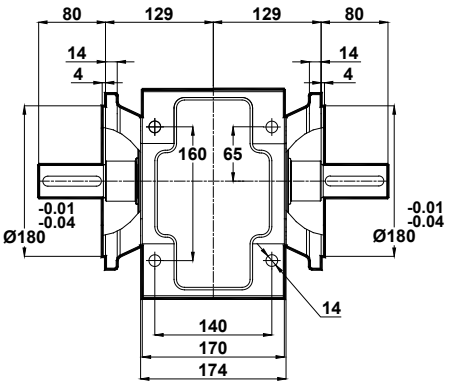
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

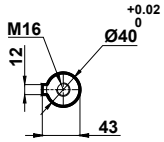


63-71
Tip / *Type* / Typ

KR375.05
KR376.05



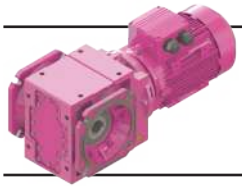




	63	71
k	652.5	678.5
k1	713.5	769.5
n	121	137
n1	97	112

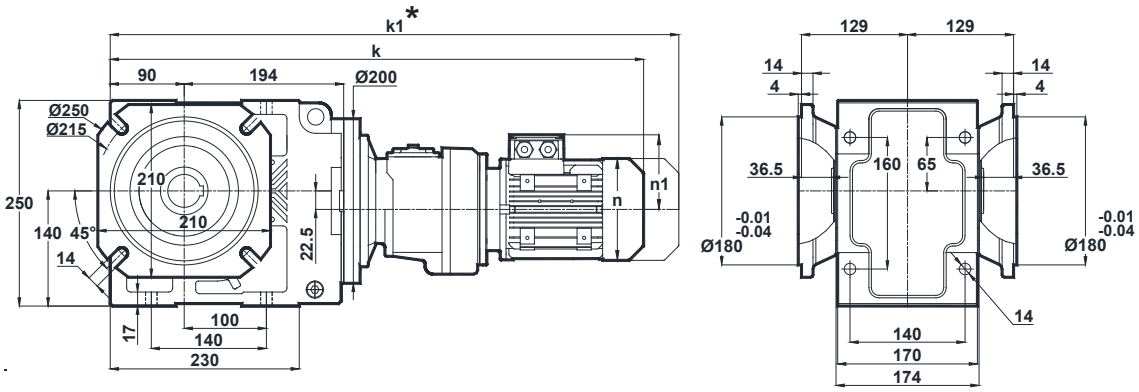
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

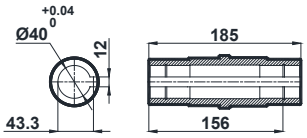


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

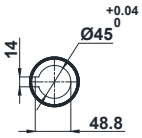
KR375.08
KR376.08



Std.

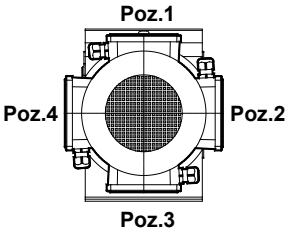


Ops.



	63	71
k	652.5	678.5
k1	713.5	769.5
n	121	137
n1	97	112

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tip / *Type* / Typ

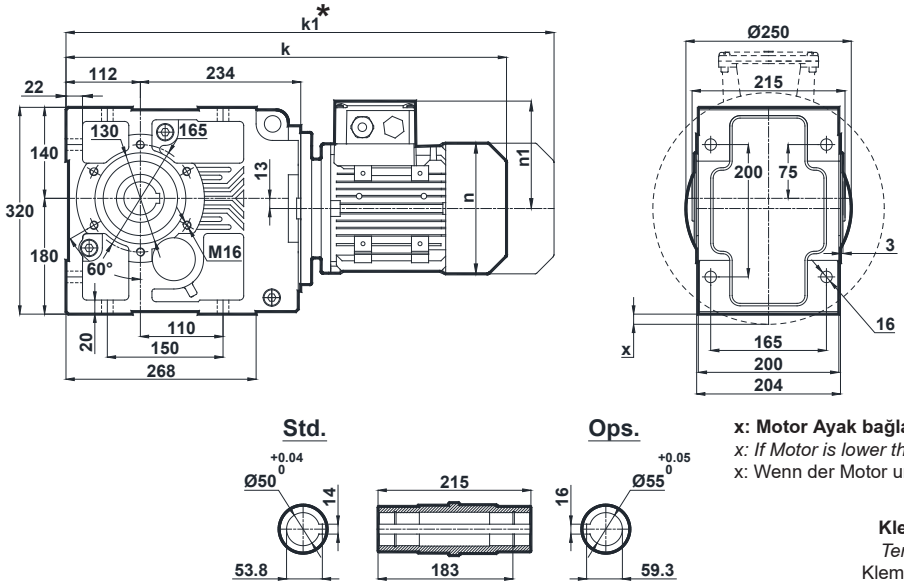
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

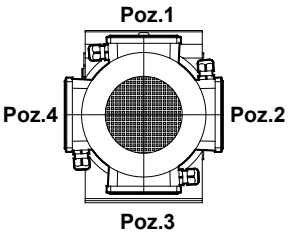
KR473.00



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

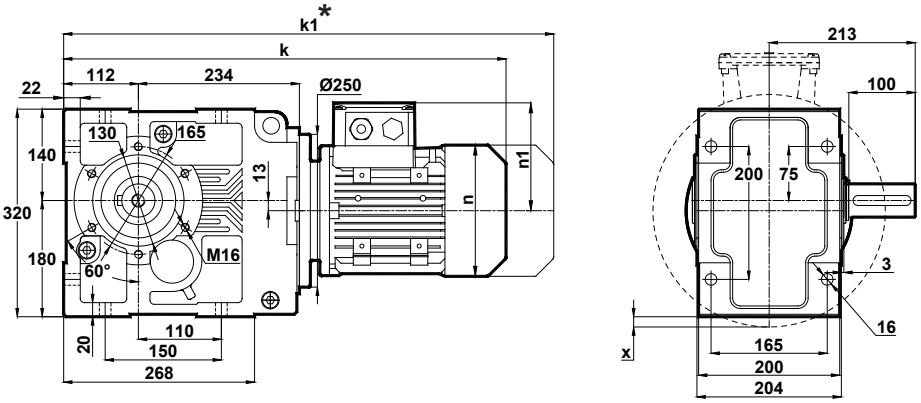
	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	586.5	625.5	625.5	670.5	694.5	779.5	779.5	875.5	875.5	947.5	947.5
k1	679.5	729	729	779	799	909.5	909.5	1023.5	1023.5	1106	1106
n	155	176	176	193	215	257	257	316	316	348	348
n1	123	132	132	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-	-	6.5	6.5

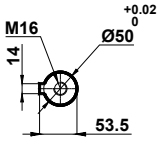
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



80-90-100-112-132-160-180
Tip / *Type* / Typ

KR473.01





x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

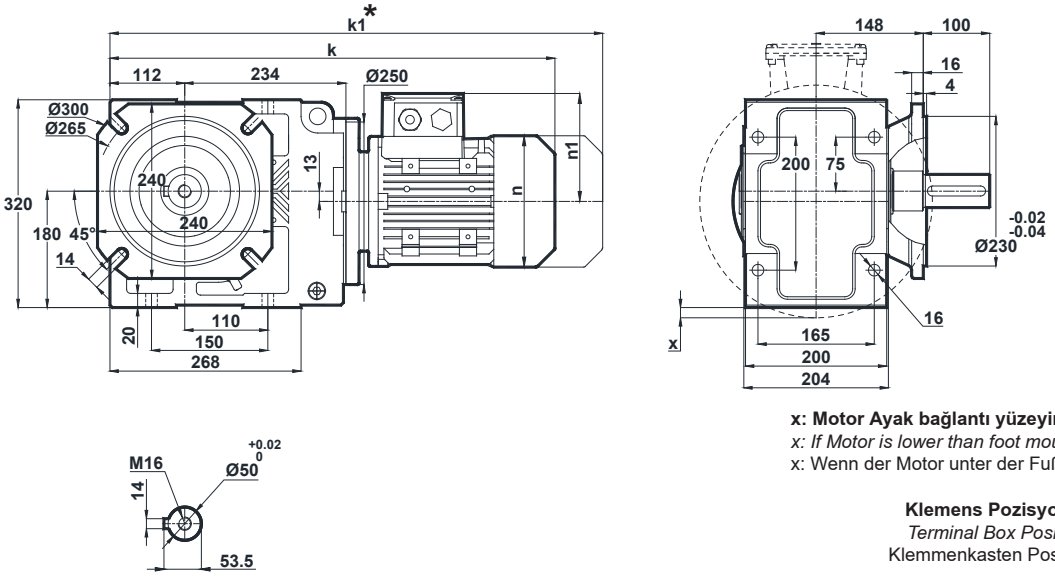
	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	586.5	625.5	625.5	670.5	694.5	779.5	779.5	875.5	875.5	947.5	947.5
k1	679.5	729	729	779	799	909.5	909.5	1023.5	1023.5	1106	1106
n	155	176	176	193	215	257	257	316	316	348	348
n1	123	132	132	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-	-	6.5	6.5

* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

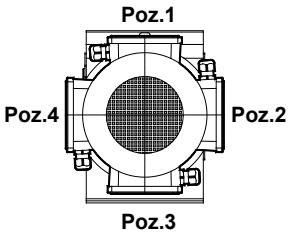
KR473.02



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	586.5	625.5	625.5	670.5	694.5	779.5	779.5	875.5	875.5	947.5	947.5
k1	679.5	729	729	779	799	909.5	909.5	1023.5	1023.5	1106	1106
n	155	176	176	193	215	257	257	316	316	348	348
n1	123	132	132	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-	-	6.5	6.5

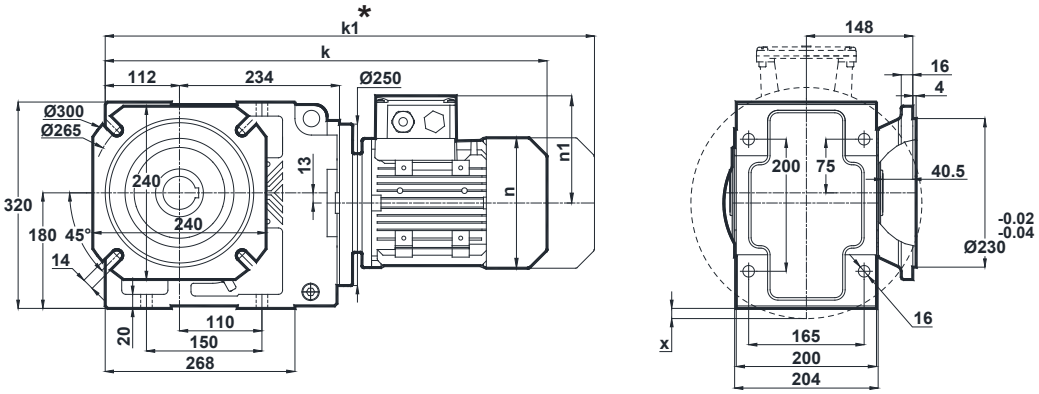
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



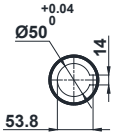
80-90-100-112-132-160-180
Tip / *Type* / Typ

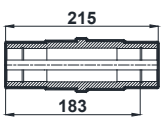
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR473.03

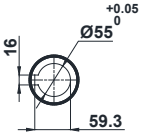


Std.





Ops.



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	586.5	625.5	625.5	670.5	694.5	779.5	779.5	875.5	875.5	947.5	947.5
k1	679.5	729	729	779	799	909.5	909.5	1023.5	1023.5	1106	1106
n	155	176	176	193	215	257	257	316	316	348	348
n1	123	132	132	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-	-	6.5	6.5

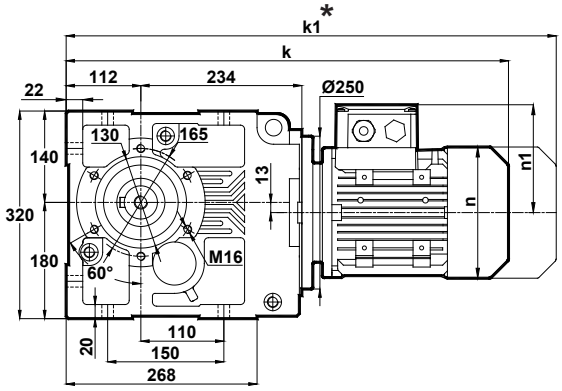
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

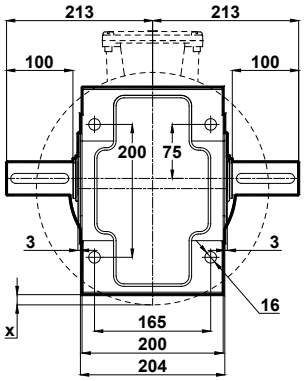
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

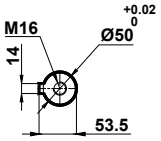
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR473.04

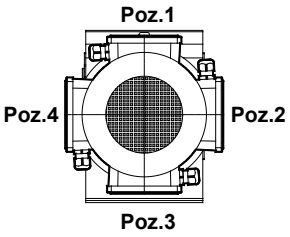




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



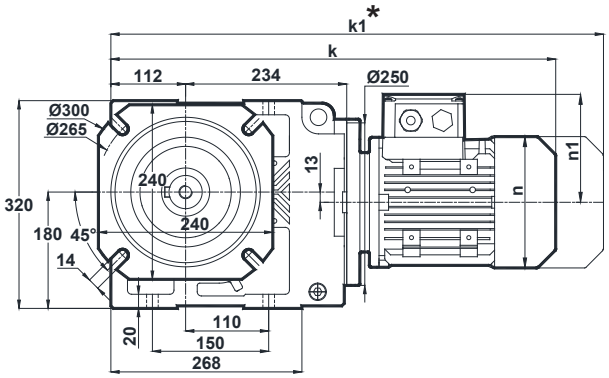
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

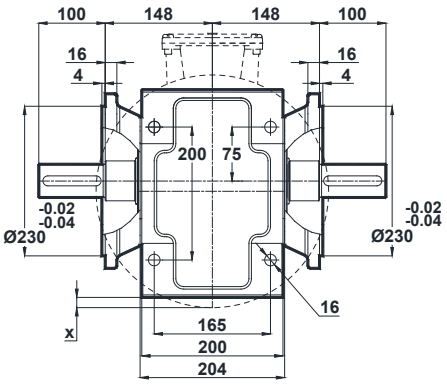


80-90-100-112-132-160-180
Tip / *Type* / Typ

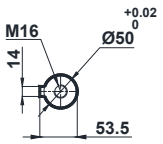
	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	586.5	625.5	625.5	670.5	694.5	779.5	779.5	875.5	875.5	947.5	947.5
k1	679.5	729	729	779	799	909.5	909.5	1023.5	1023.5	1106	1106
n	155	176	176	193	215	257	257	316	316	348	348
n1	123	132	132	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-	-	6.5	6.5

KR473.05





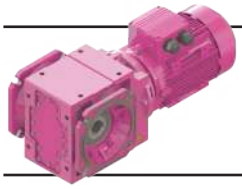
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	586.5	625.5	625.5	670.5	694.5	779.5	779.5	875.5	875.5	947.5	947.5
k1	679.5	729	729	779	799	909.5	909.5	1023.5	1023.5	1106	1106
n	155	176	176	193	215	257	257	316	316	348	348
n1	123	132	132	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-	-	6.5	6.5

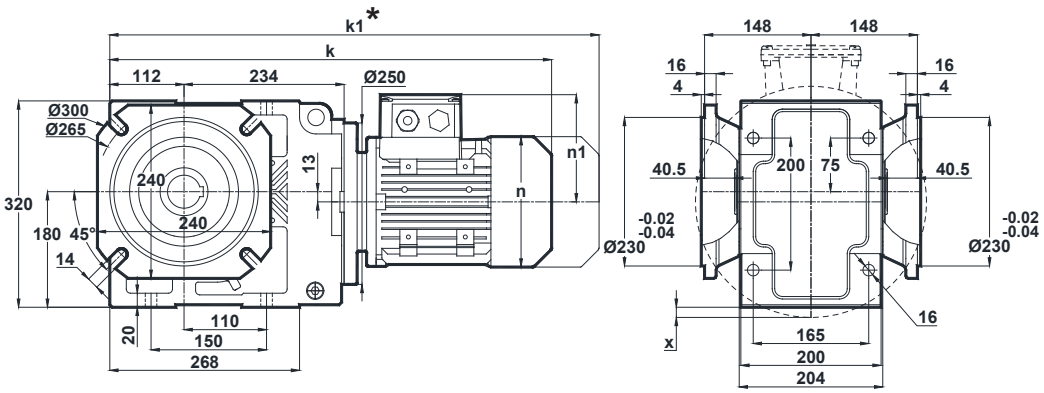
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

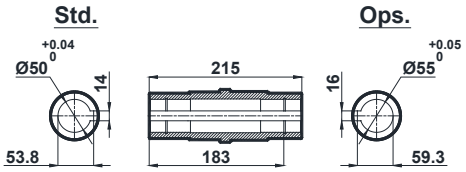


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR473.08

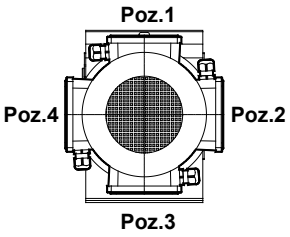




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	586.5	625.5	625.5	670.5	694.5	779.5	779.5	875.5	875.5	947.5	947.5
k1	679.5	729	729	779	799	909.5	909.5	1023.5	1023.5	1106	1106
n	155	176	176	193	215	257	257	316	316	348	348
n1	123	132	132	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-	-	6.5	6.5

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



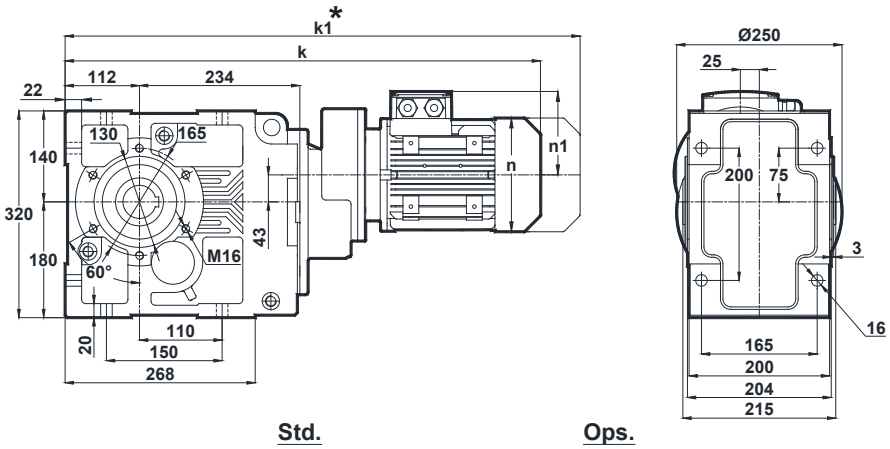
80-90-100-112-132-160-180
Tip / *Type* / Typ

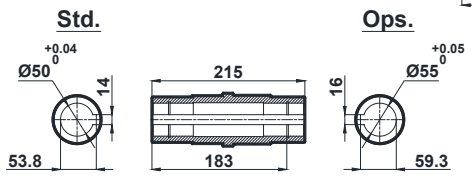
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

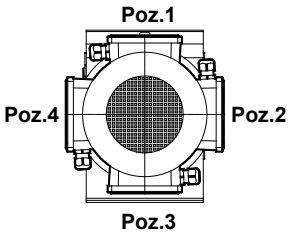
KR474.00





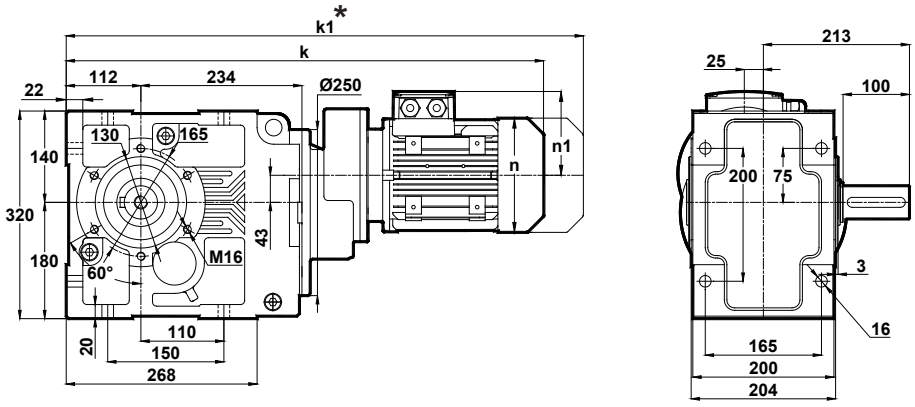
	71	80
k	646	680
k1	737	773
n	137	155
n1	112	123

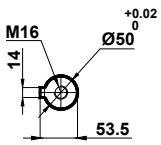
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80
Tip / *Type* / Typ

KR474.01





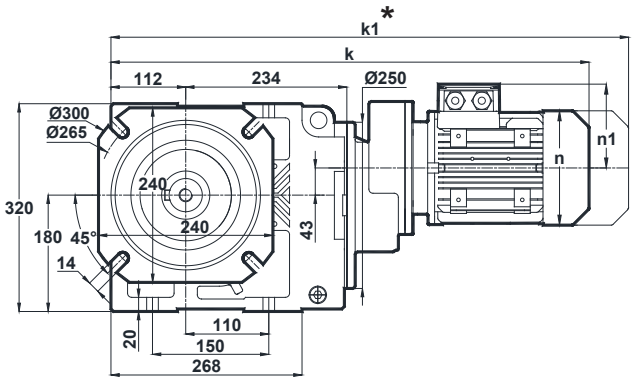
	71	80
k	646	680
k1	737	773
n	137	155
n1	112	123

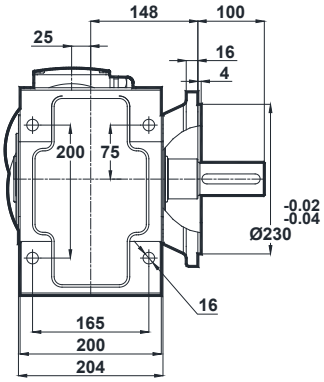
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

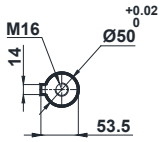
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR474.02

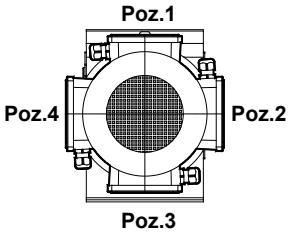






	71	80
k	646	680
k1	737	773
n	137	155
n1	112	123

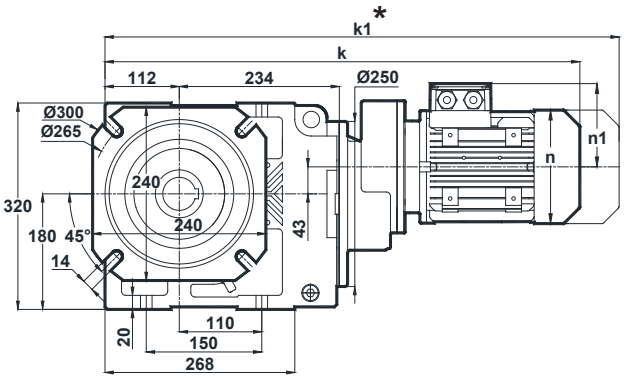
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

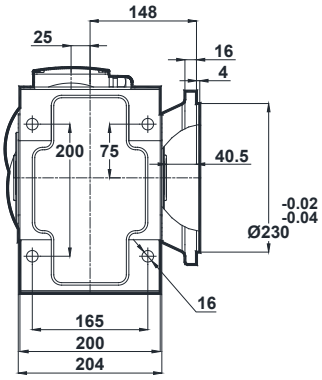


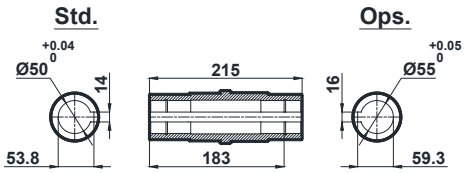
71-80
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR474.03







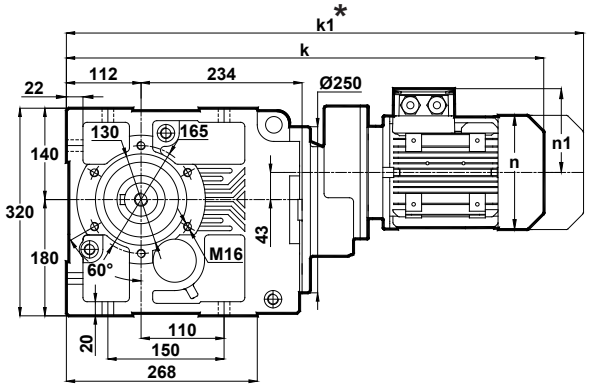
	71	80
k	646	680
k1	737	773
n	137	155
n1	112	123

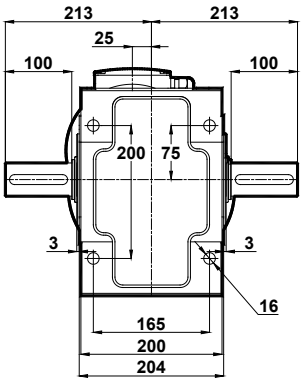
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

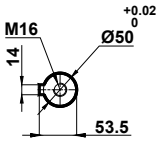
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR474.04

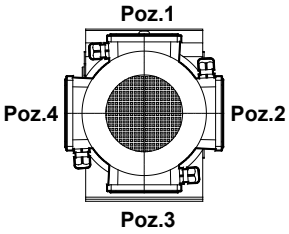






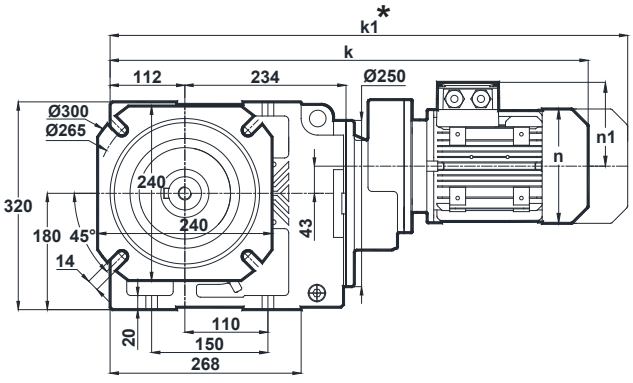
	71	80
k	646	680
k1	737	773
n	137	155
n1	112	123

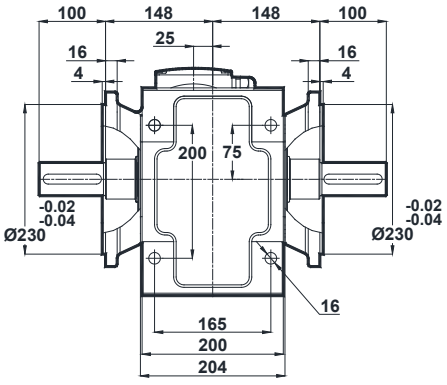
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

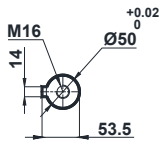


71-80
Tip / *Type* / Typ

KR474.05



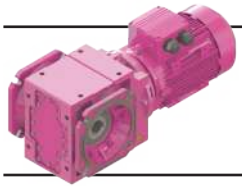




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	71	80
k	646	680
k1	737	773
n	137	155
n1	112	123

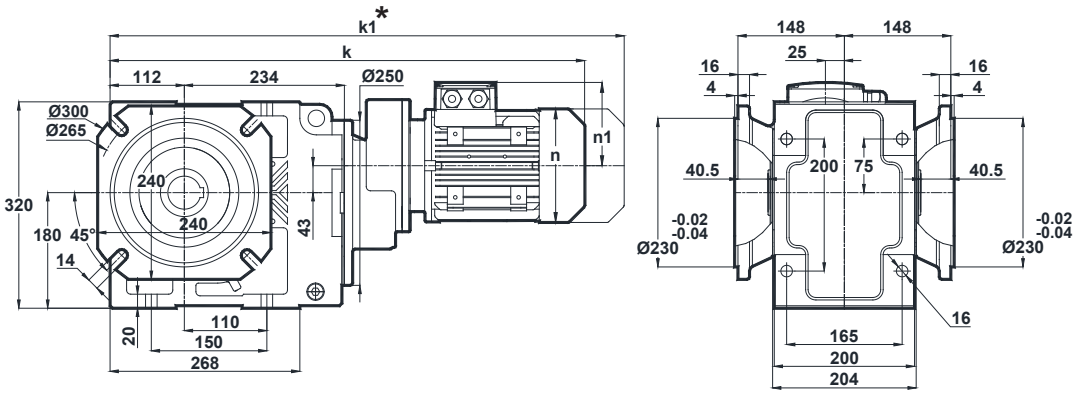
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

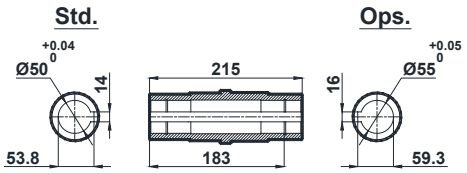


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

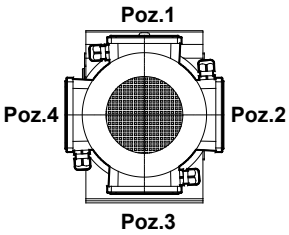
KR474.08





	71	80
k	646	680
k1	737	773
n	137	155
n1	112	123

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80
Tip / *Type* / Typ

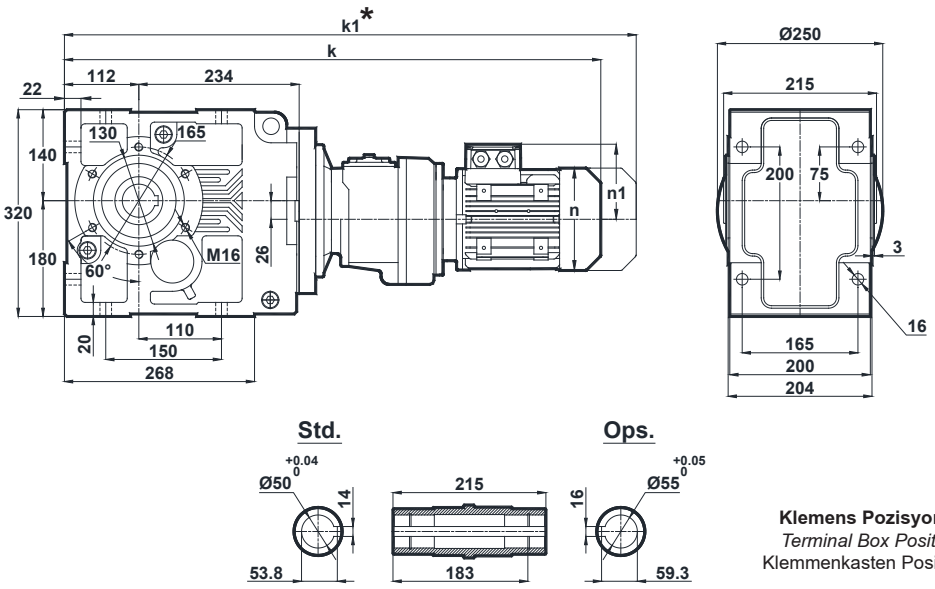
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

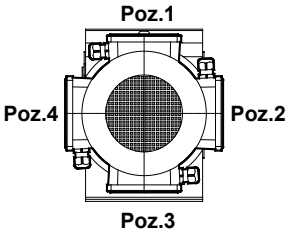
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR475.00
KR476.00



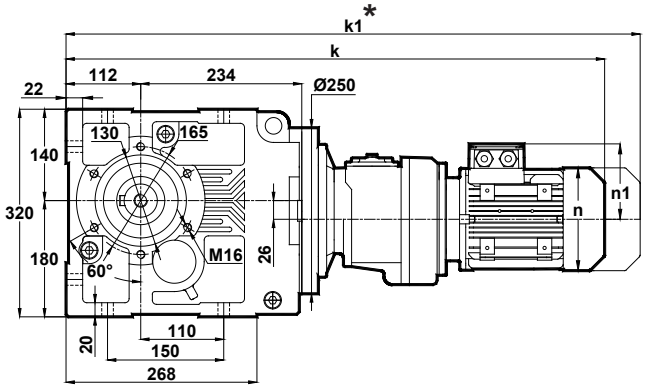
	63	71
k	749	776
k1	810	867
n	121	137
n1	97	112

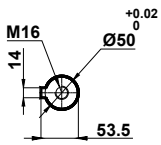
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tip / *Type* / Typ

KR475.01
KR476.01





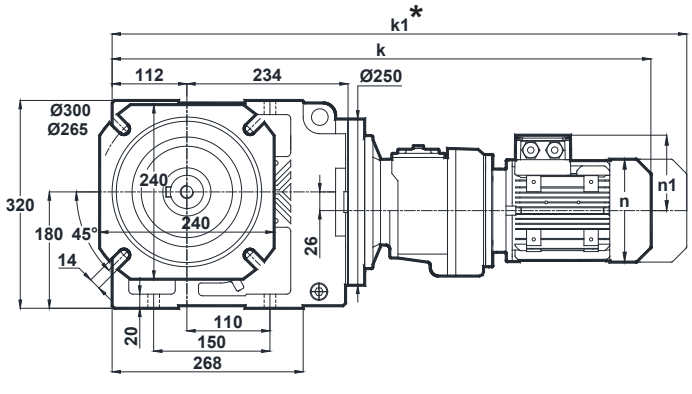
	63	71
k	749	776
k1	810	867
n	121	137
n1	97	112

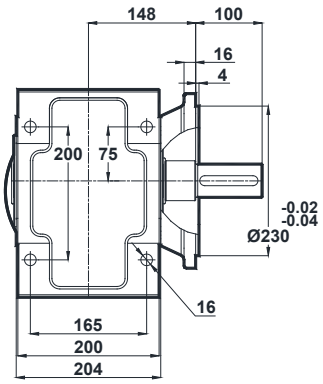
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

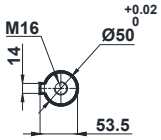
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR475.02
KR476.02

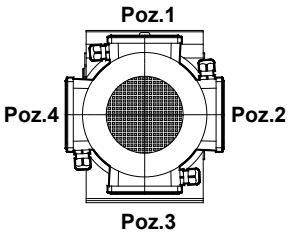






	63	71
k	749	776
k1	810	867
n	121	137
n1	97	112

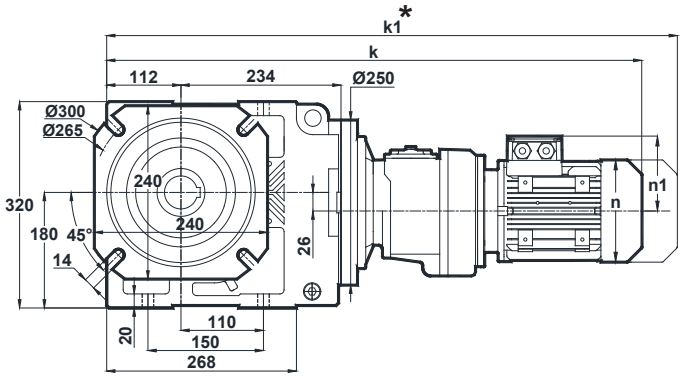
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

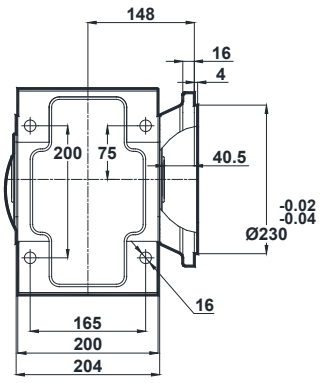


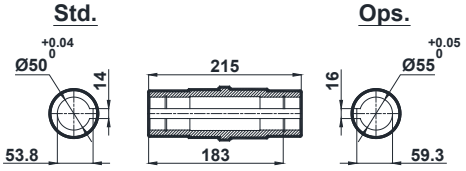
63-71
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR475.03
KR476.03







	63	71
k	749	776
k1	810	867
n	121	137
n1	97	112

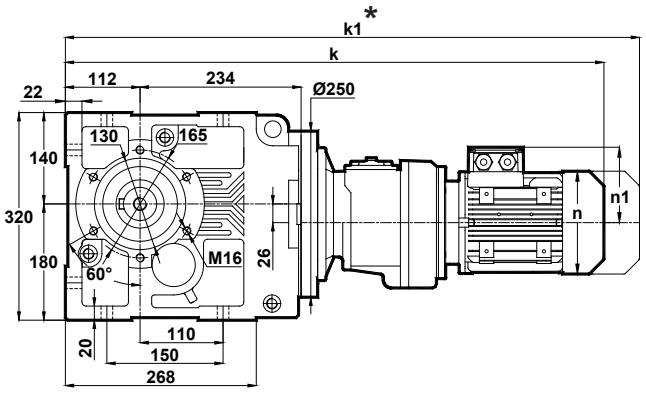
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

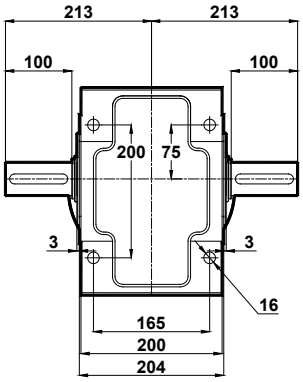
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

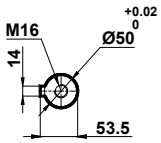
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR475.04
KR476.04

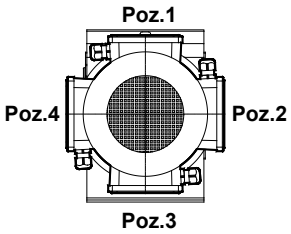






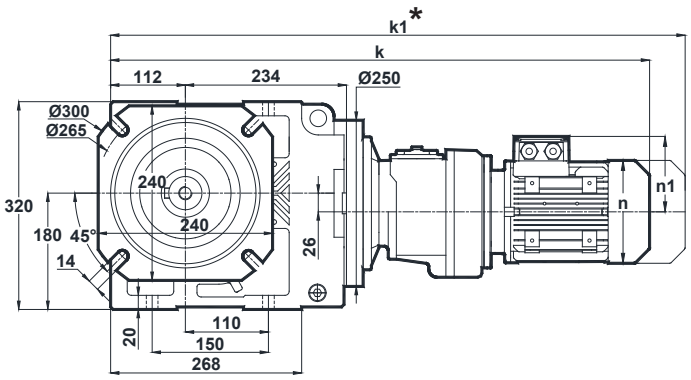
	63	71
k	749	776
k1	810	867
n	121	137
n1	97	112

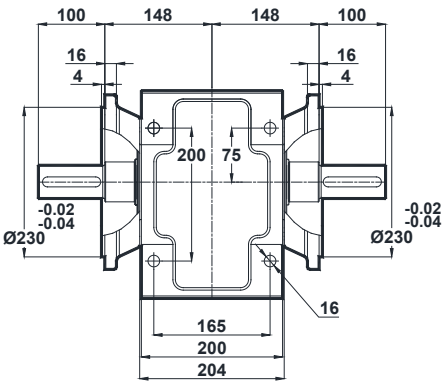
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

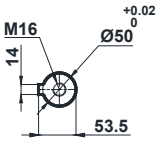


63-71
Tip / *Type* / Typ

KR475.05
KR476.05



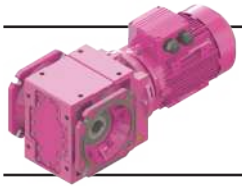




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	63	71
k	749	776
k1	810	867
n	121	137
n1	97	112

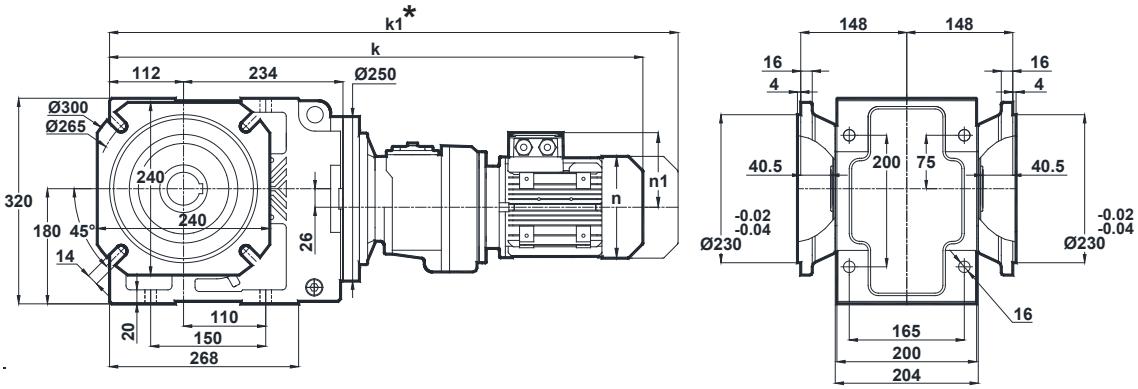
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

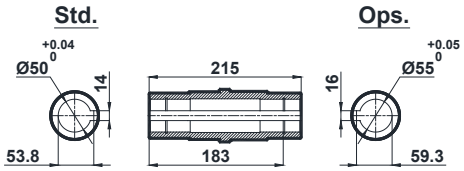


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

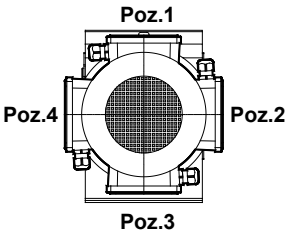
KR475.08
KR476.08





	63	71
k	749	776
k1	810	867
n	121	137
n1	97	112

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tip / *Type* / Typ

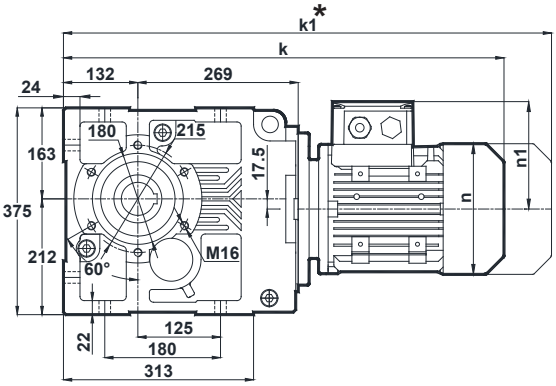
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

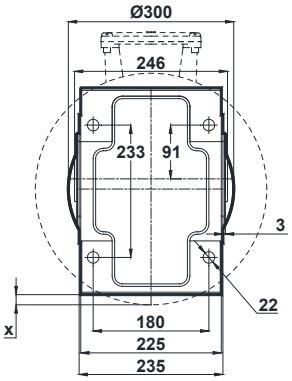
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

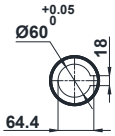
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

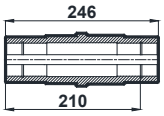
KR573.00



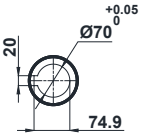


Std.





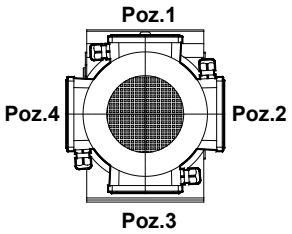
Ops.



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

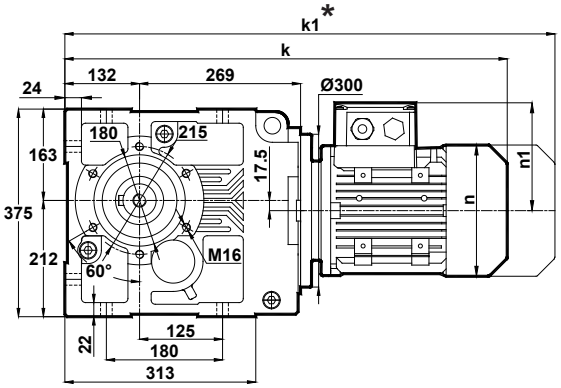
	100L	112M	132S	132M	160M	160L	180M	180L
k	719	743	829.5	829.5	925.5	925.5	997.5	997.5
k1	827.5	847.5	959.5	959.5	1073.5	1073.5	1156	1156
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-

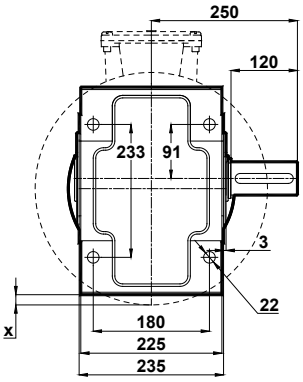
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

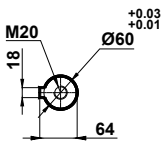


100-112-132-160-180
Tip / *Type* / Typ

KR573.01







x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

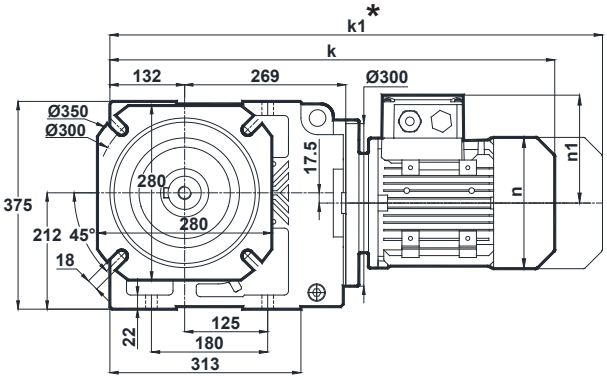
	100L	112M	132S	132M	160M	160L	180M	180L
k	719	743	829.5	829.5	925.5	925.5	997.5	997.5
k1	827.5	847.5	959.5	959.5	1073.5	1073.5	1156	1156
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-

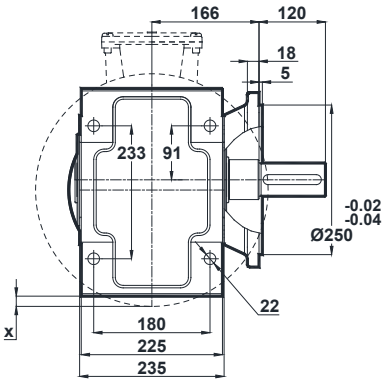
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

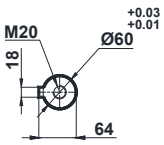
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR573.02



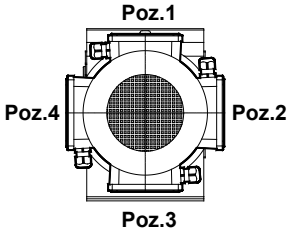




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	100L	112M	132S	132M	160M	160L	180M	180L
k	719	743	829.5	829.5	925.5	925.5	997.5	997.5
k1	827.5	847.5	959.5	959.5	1073.5	1073.5	1156	1156
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-

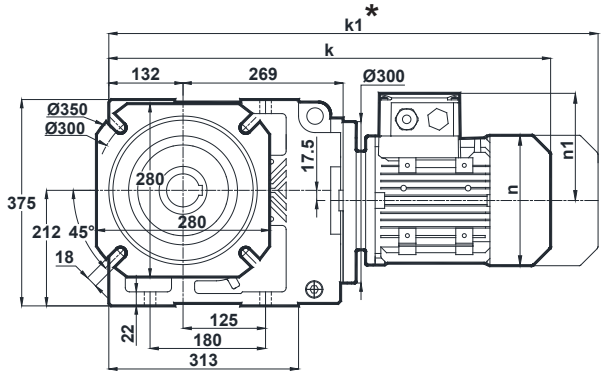
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

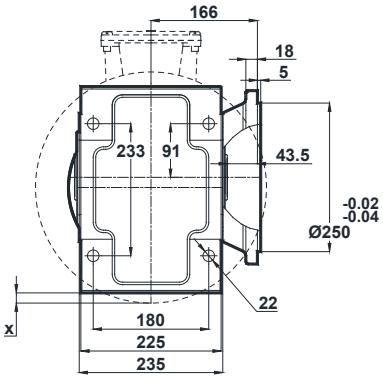


100-112-132-160-180
Tip / *Type* / Typ

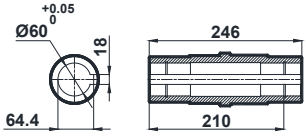
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR573.03

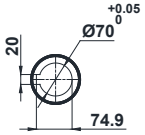




Std.



Ops.



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	100L	112M	132S	132M	160M	160L	180M	180L
k	719	743	829.5	829.5	925.5	925.5	997.5	997.5
k1	827.5	847.5	959.5	959.5	1073.5	1073.5	1156	1156
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-

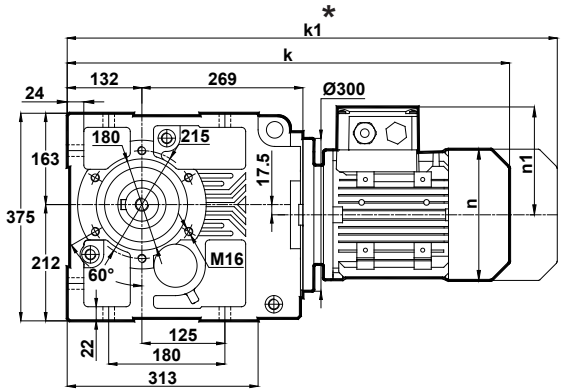
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

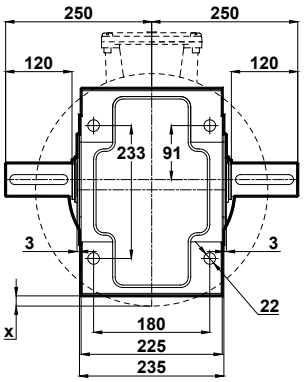
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

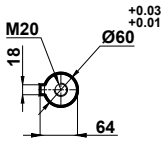
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR573.04



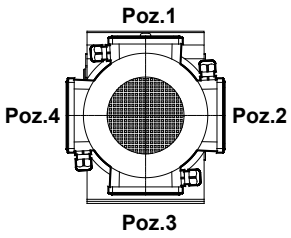


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



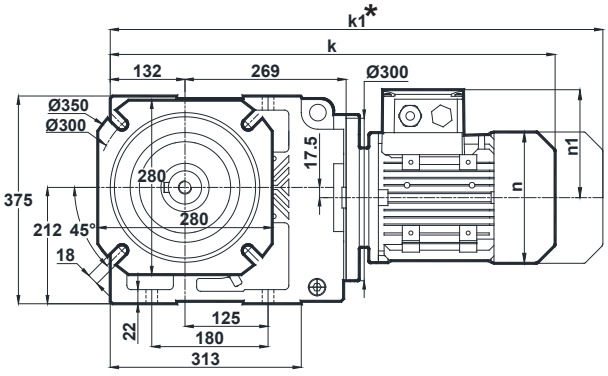
	100L	112M	132S	132M	160M	160L	180M	180L
k	719	743	829.5	829.5	925.5	925.5	997.5	997.5
k1	827.5	847.5	959.5	959.5	1073.5	1073.5	1156	1156
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-

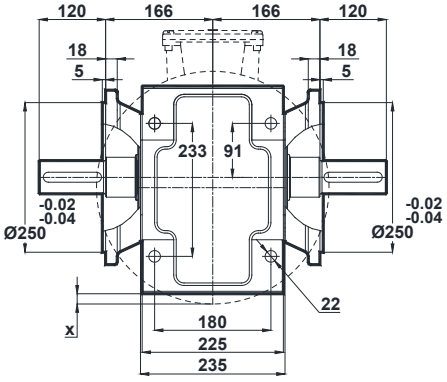
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

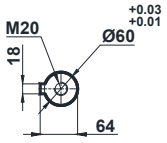


100-112-132-160-180
Tip / *Type* / Typ

KR573.05





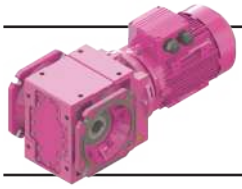


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	100L	112M	132S	132M	160M	160L	180M	180L
k	719	743	829.5	829.5	925.5	925.5	997.5	997.5
k1	827.5	847.5	959.5	959.5	1073.5	1073.5	1156	1156
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

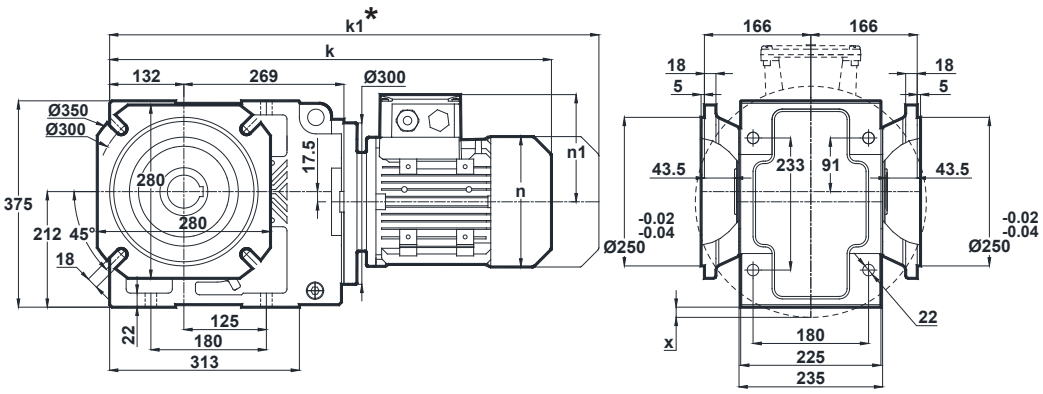
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

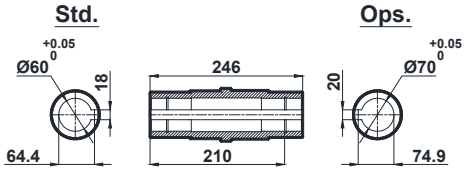


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR573.08

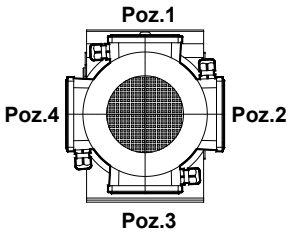




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	100L	112M	132S	132M	160M	160L	180M	180L
k	719	743	829.5	829.5	925.5	925.5	997.5	997.5
k1	827.5	847.5	959.5	959.5	1073.5	1073.5	1156	1156
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250
x	-	-	-	-	-	-	-	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



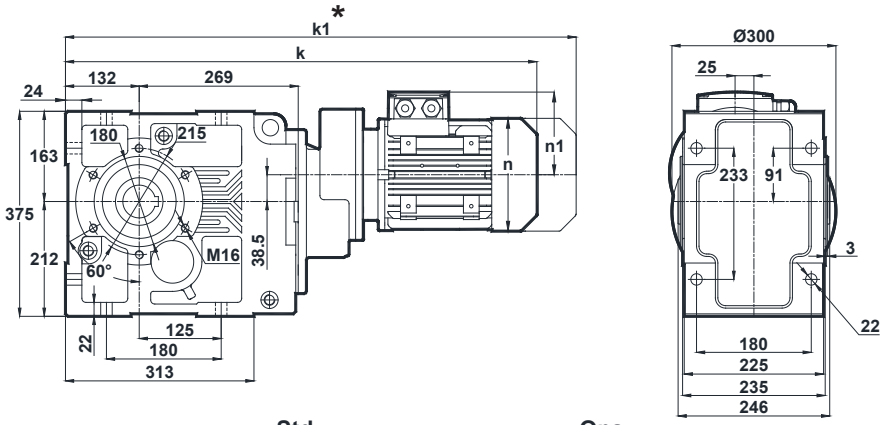
100-112-132-160-180
Tip / *Type* / Typ

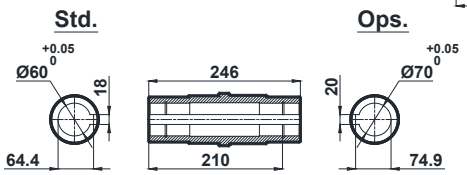
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

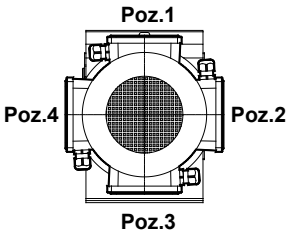
KR574.00





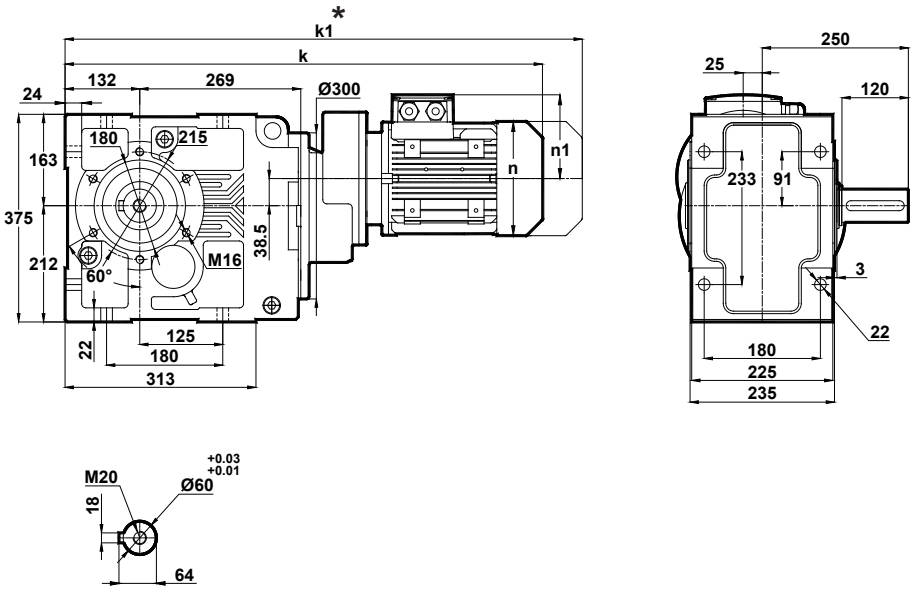
	71	80	90S	90L	100L
k	699	733	772	772	820
k1	790	826	875.5	875.5	928.5
n	137	155	176	176	193
n1	112	123	132	132	149

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80-90-100
Tip / *Type* / Typ

KR574.01



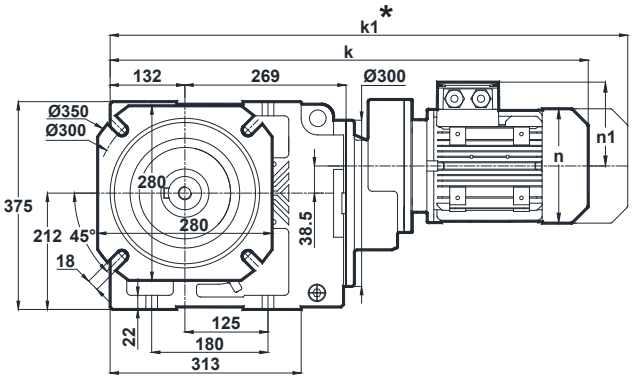
	71	80	90S	90L	100L
k	699	733	772	772	820
k1	790	826	875.5	875.5	928.5
n	137	155	176	176	193
n1	112	123	132	132	149

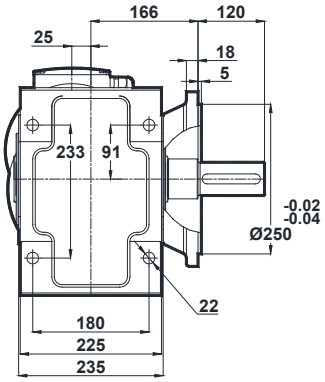
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

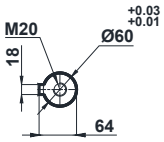
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR574.02

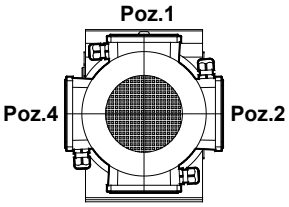






	71	80	90S	90L	100L
k	699	733	772	772	820
k1	790	826	875.5	875.5	928.5
n	137	155	176	176	193
n1	112	123	132	132	149

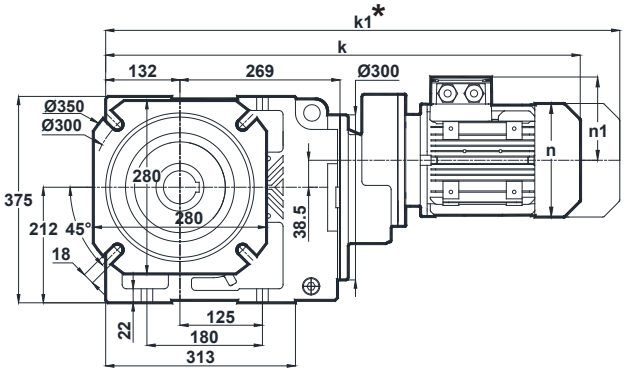
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

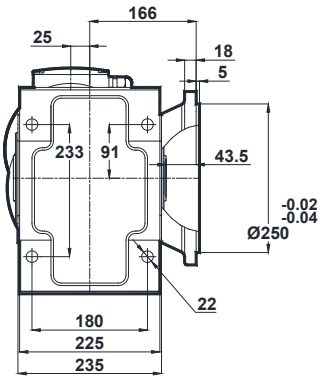


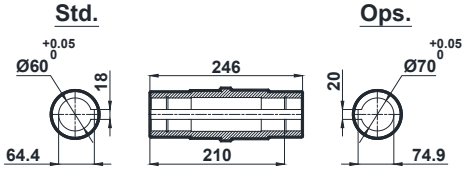
71-80-90-100
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR574.03







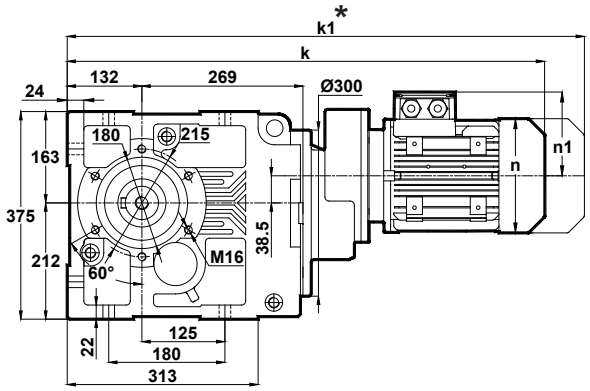
	71	80	90S	90L	100L
k	699	733	772	772	820
k1	790	826	875.5	875.5	928.5
n	137	155	176	176	193
n1	112	123	132	132	149

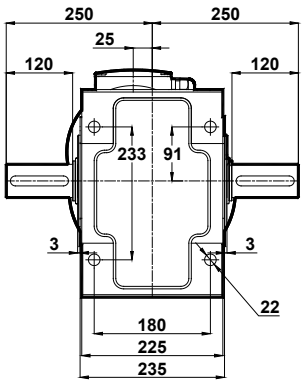
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

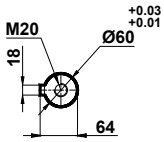
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR574.04

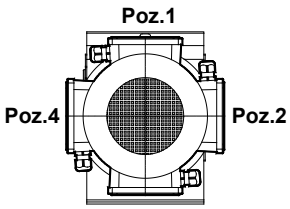






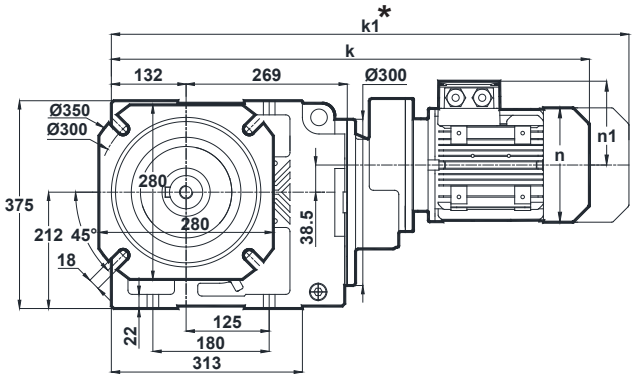
	71	80	90S	90L	100L
k	699	733	772	772	820
k1	790	826	875.5	875.5	928.5
n	137	155	176	176	193
n1	112	123	132	132	149

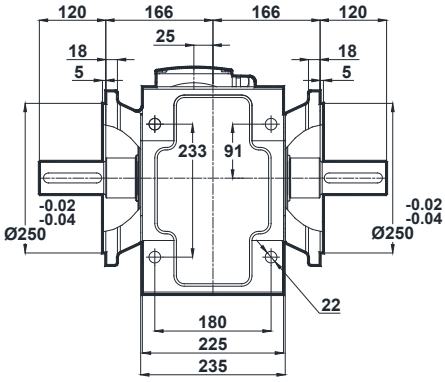
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

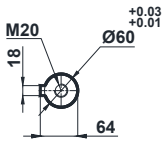


71-80-90-100
Tip / *Type* / Typ

KR574.05



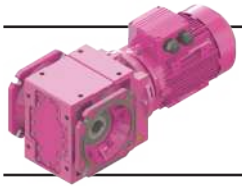




	71	80	90S	90L	100L
k	699	733	772	772	820
k1	790	826	875.5	875.5	928.5
n	137	155	176	176	193
n1	112	123	132	132	149

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

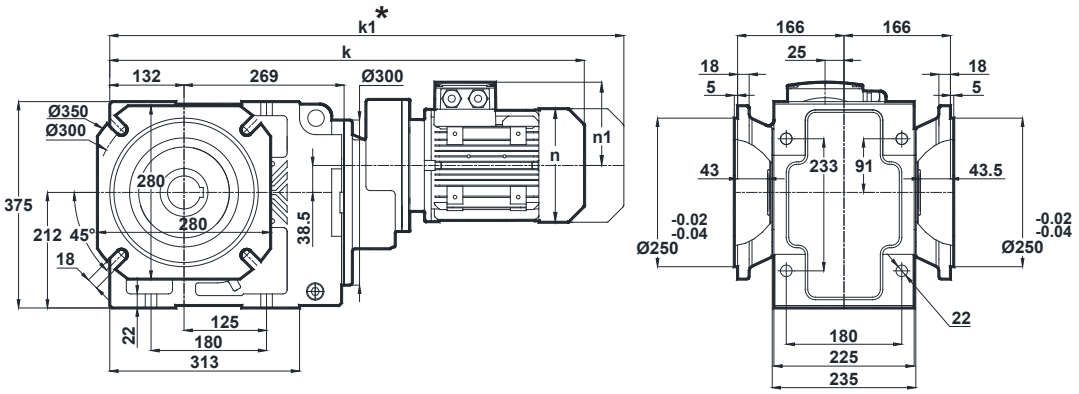
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

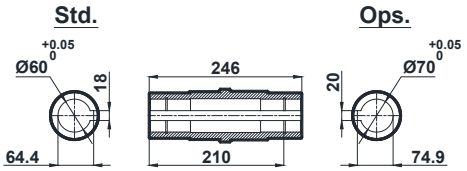


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

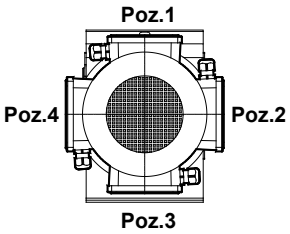
KR574.08





	71	80	90S	90L	100L
k	699	733	772	772	820
k1	790	826	875.5	875.5	928.5
n	137	155	176	176	193
n1	112	123	132	132	149

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



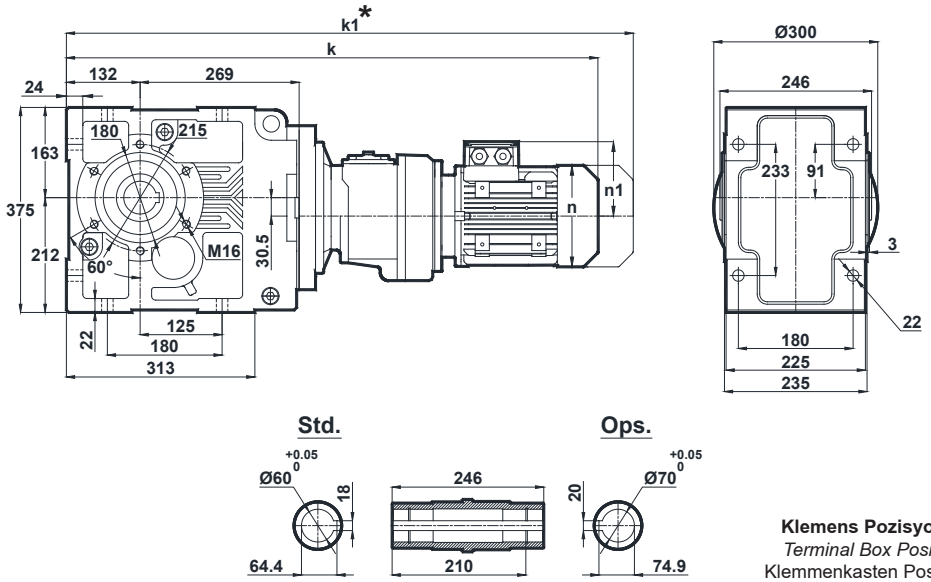
71-80-90-100
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

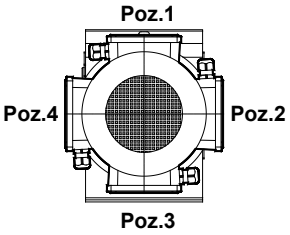
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR575.00
KR576.00



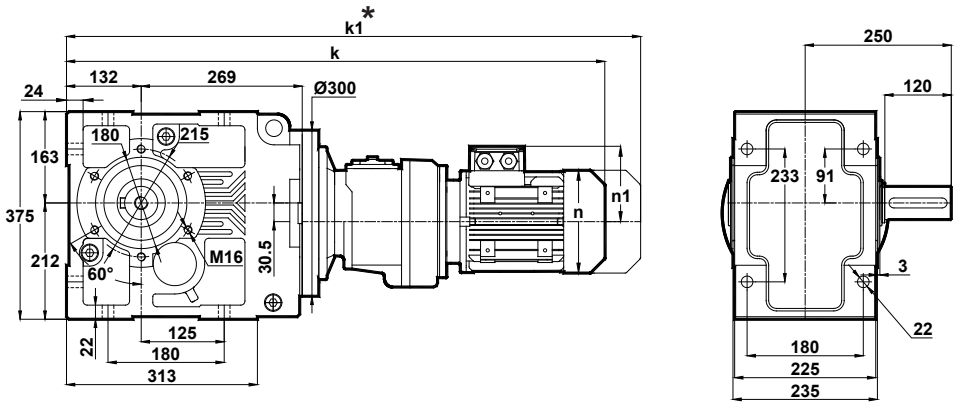
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

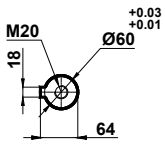


63-71-80
Tip / *Type* / Typ

	63	71	80
k	804	831	865
k1	865	922	958
n	121	137	155
n1	97	112	123

KR575.01
KR576.01





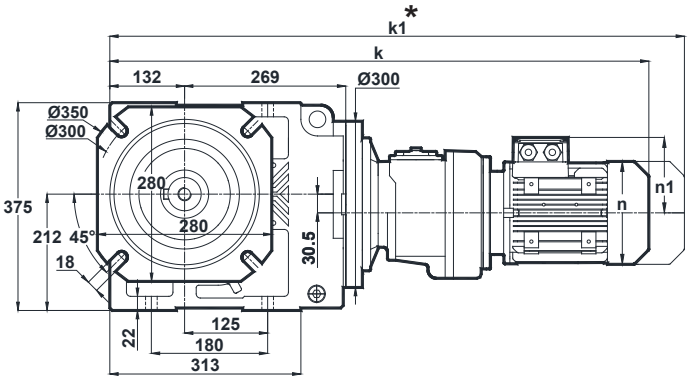
	63	71	80
k	804	831	865
k1	865	922	958
n	121	137	155
n1	97	112	123

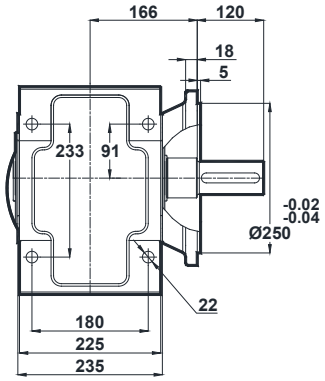
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

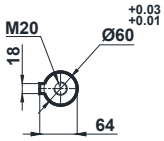
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

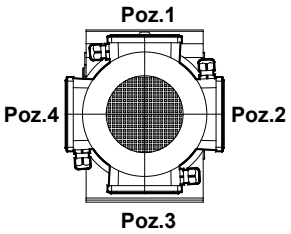
KR575.02
KR576.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

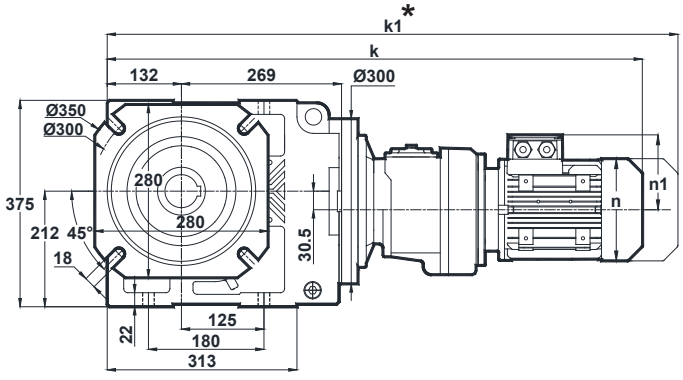


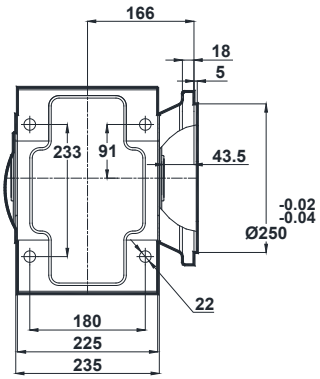
63-71-80
Tip / *Type* / Typ

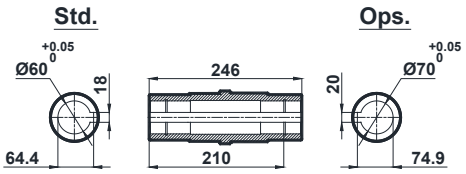
	63	71	80
k	804	831	865
k1	865	922	958
n	121	137	155
n1	97	112	123

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR575.03
KR576.03







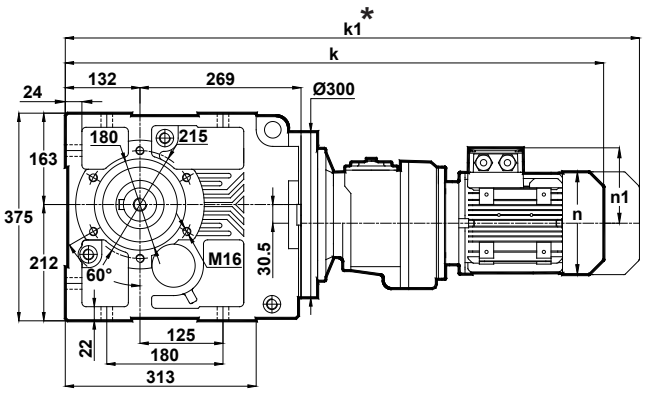
	63	71	80
k	804	831	865
k1	865	922	958
n	121	137	155
n1	97	112	123

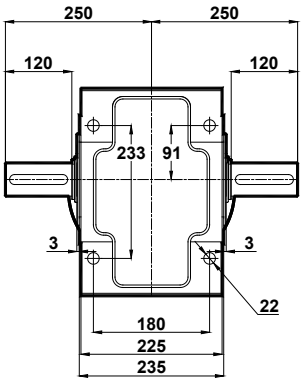
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

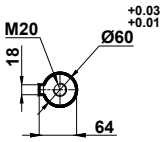
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR575.04
KR576.04

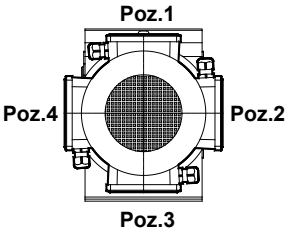






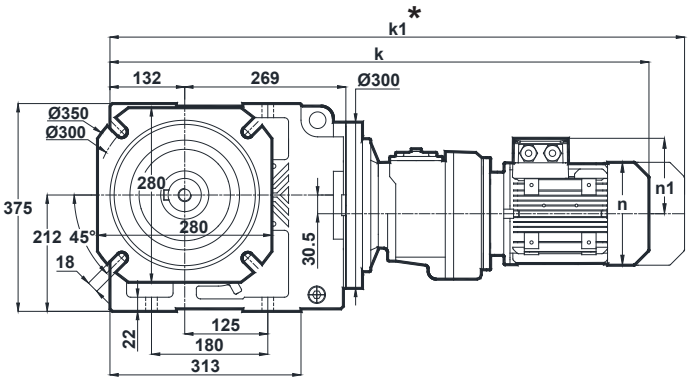
	63	71	80
k	804	831	865
k1	865	922	958
n	121	137	155
n1	97	112	123

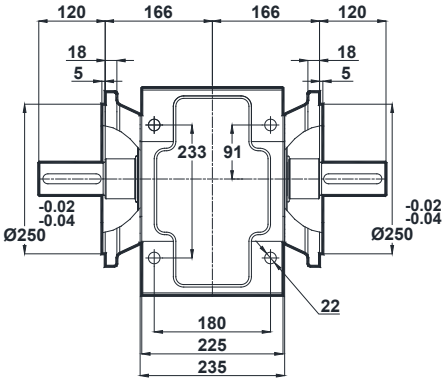
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

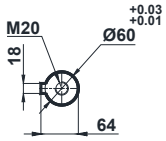


63-71-80
Tip / *Type* / Typ

KR575.05
KR576.05



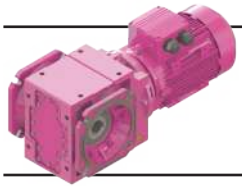




	63	71	80
k	804	831	865
k1	865	922	958
n	121	137	155
n1	97	112	123

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

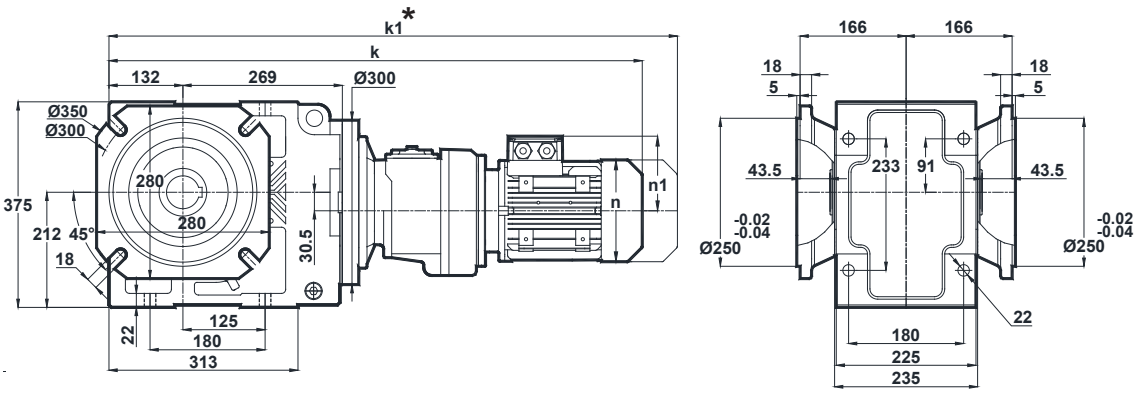
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

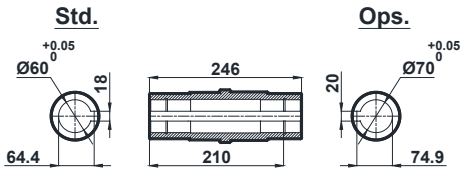


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

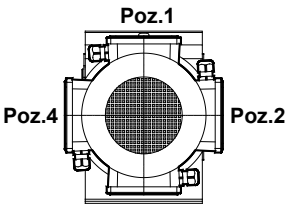
KR575.08
KR576.08





	63	71	80
k	804	831	865
k1	865	922	958
n	121	137	155
n1	97	112	123

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80
Tip / *Type* / Typ

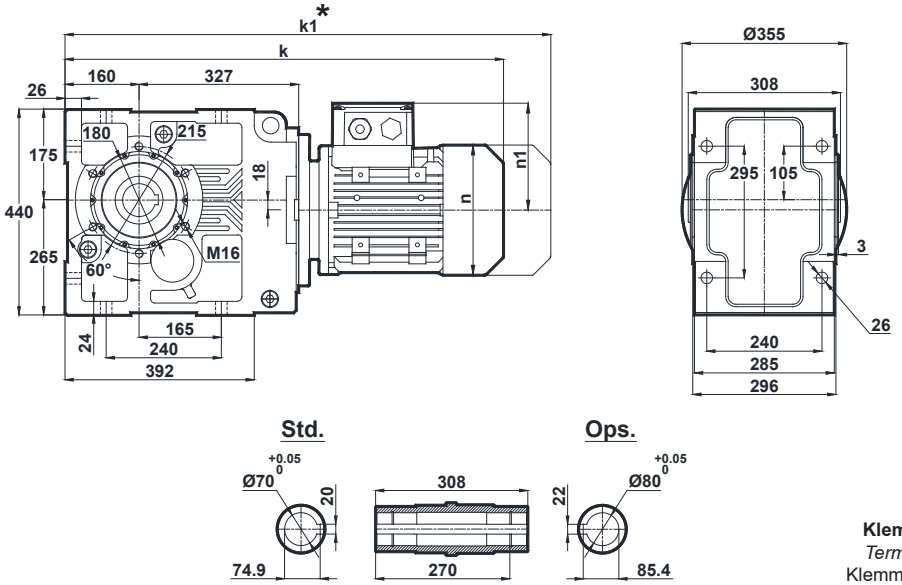
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

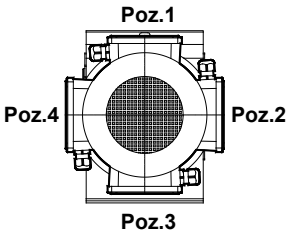
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR673.00



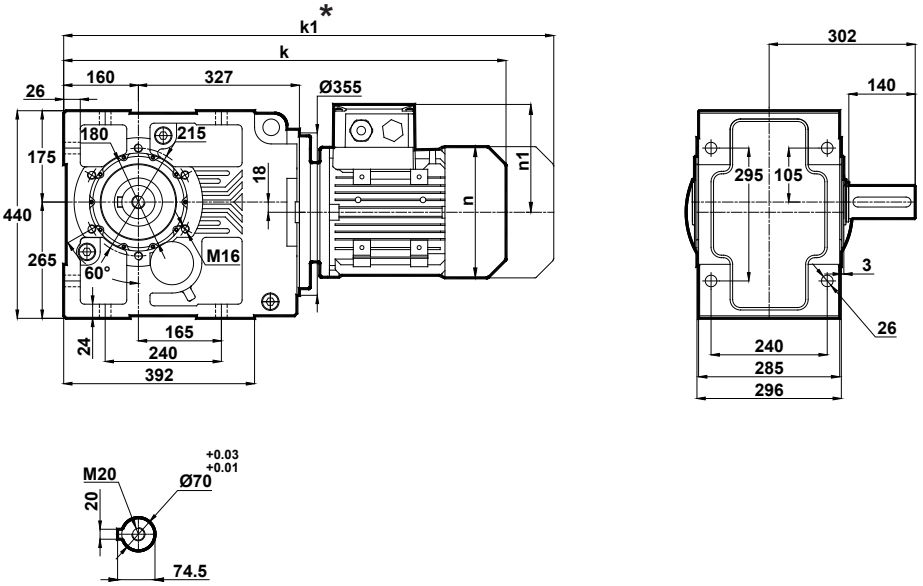
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	797	821	907.5	907.5	1003.5	1003.5	1075.5	1075.5	1121.5	1148	1173
k1	905.5	925.5	1037.5	1037.5	1151.5	1151.5	1234	1234	1308	1313	1338
n	193	215	257	257	316	316	348	348	396	438	438
n1	149	161	181	181	224	224	250	250	287	316	316

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



100-112-132-160-180-200-225
Tip / *Type* / Typ

KR673.01



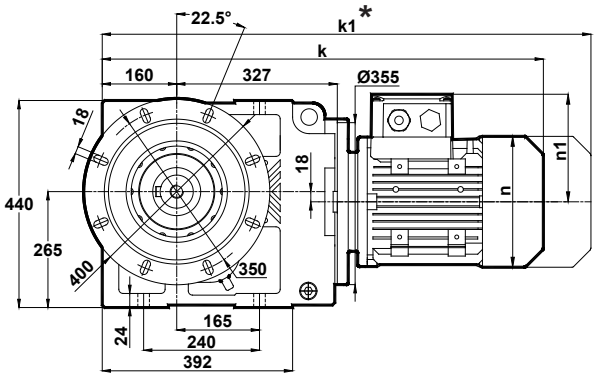
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	797	821	907.5	907.5	1003.5	1003.5	1075.5	1075.5	1121.5	1148	1173
k1	905.5	925.5	1037.5	1037.5	1151.5	1151.5	1234	1234	1308	1313	1338
n	193	215	257	257	316	316	348	348	396	438	438
n1	149	161	181	181	224	224	250	250	287	316	316

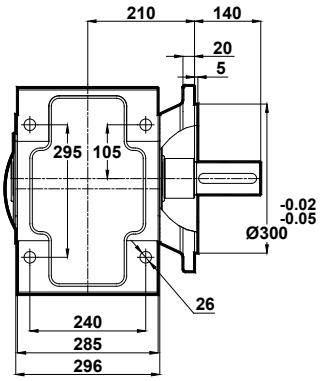
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

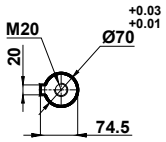
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

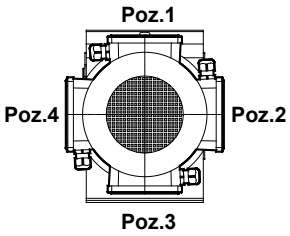
KR673.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

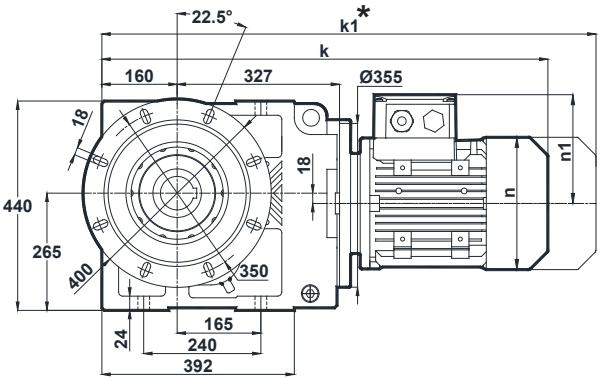


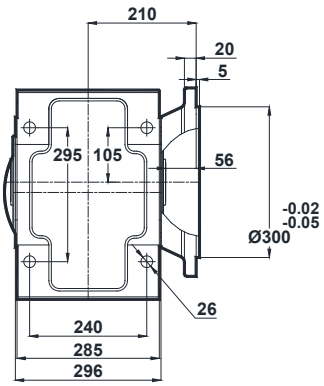
100-112-132-160-180-200-225
Tip / *Type* / Typ

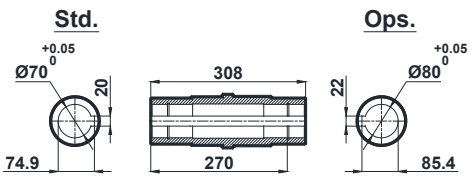
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	797	821	907.5	907.5	1003.5	1003.5	1075.5	1075.5	1121.5	1148	1173
k1	905.5	925.5	1037.5	1037.5	1151.5	1151.5	1234	1234	1308	1313	1338
n	193	215	257	257	316	316	348	348	396	438	438
n1	149	161	181	181	224	224	250	250	287	316	316

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR673.03







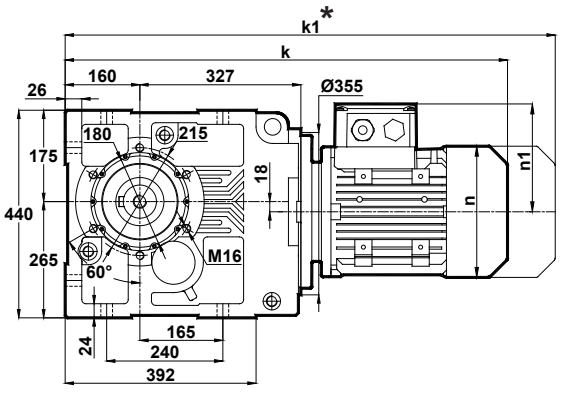
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	797	821	907.5	907.5	1003.5	1003.5	1075.5	1075.5	1121.5	1148	1173
k1	905.5	925.5	1037.5	1037.5	1151.5	1151.5	1234	1234	1308	1313	1338
n	193	215	257	257	316	316	348	348	396	438	438
n1	149	161	181	181	224	224	250	250	287	316	316

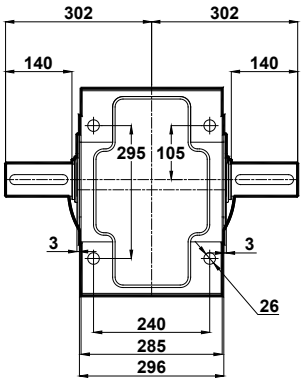
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

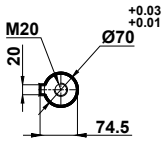
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

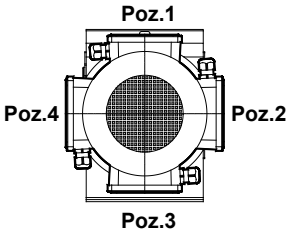
KR673.04







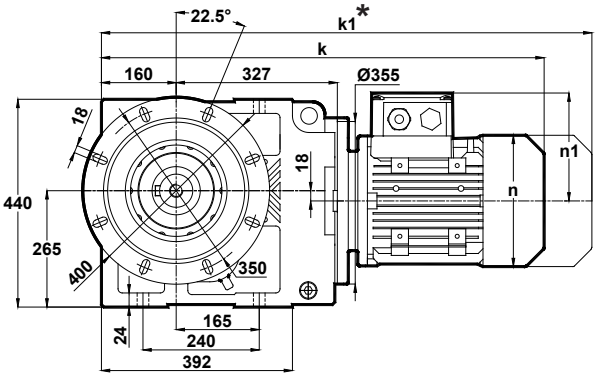
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

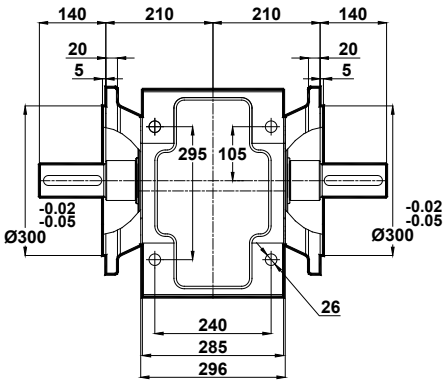


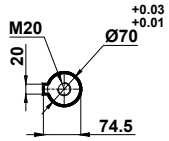
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	797	821	907.5	907.5	1003.5	1003.5	1075.5	1075.5	1121.5	1148	1173
k1	905.5	925.5	1037.5	1037.5	1151.5	1151.5	1234	1234	1308	1313	1338
n	193	215	257	257	316	316	348	348	396	438	438
n1	149	161	181	181	224	224	250	250	287	316	316

100-112-132-160-180-200-225
Tip / *Type* / Typ

KR673.05



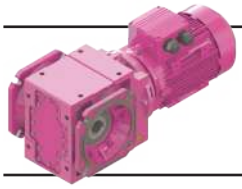




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	797	821	907.5	907.5	1003.5	1003.5	1075.5	1075.5	1121.5	1148	1173
k1	905.5	925.5	1037.5	1037.5	1151.5	1151.5	1234	1234	1308	1313	1338
n	193	215	257	257	316	316	348	348	396	438	438
n1	149	161	181	181	224	224	250	250	287	316	316

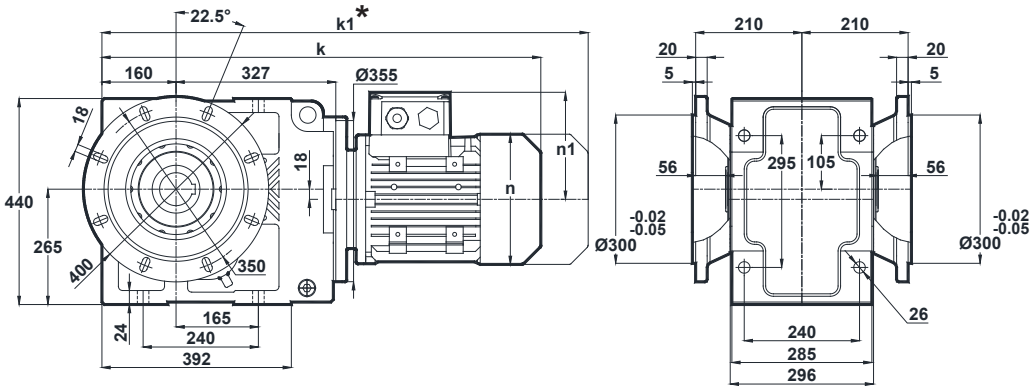
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

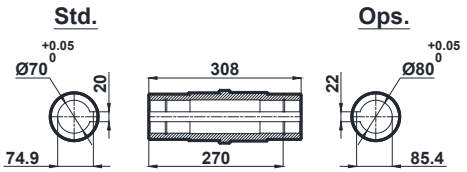


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

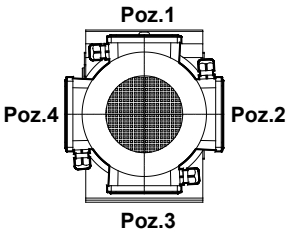
KR673.08





	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	797	821	907.5	907.5	1003.5	1003.5	1075.5	1075.5	1121.5	1148	1173
k1	905.5	925.5	1037.5	1037.5	1151.5	1151.5	1234	1234	1308	1313	1338
n	193	215	257	257	316	316	348	348	396	438	438
n1	149	161	181	181	224	224	250	250	287	316	316

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



100-112-132-160-180-200-225
Tip / *Type* / Typ

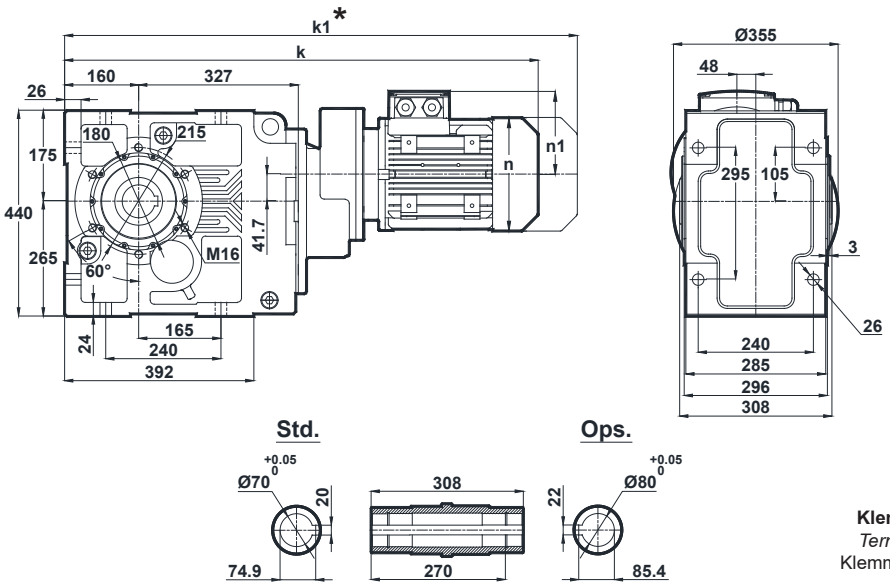
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

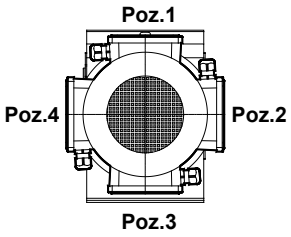
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR674.00



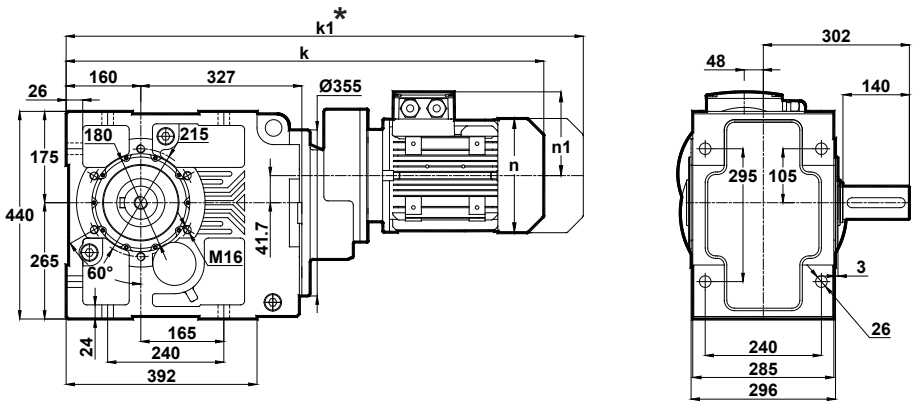
	80	90S	90L	100L
k	829.5	868.5	868.5	913.5
k1	922.5	972	972	1022
n	155	176	176	193
n1	123	132	132	149

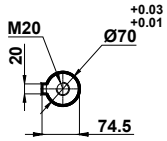
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



80-90-100
Tip / *Type* / Typ

KR674.01



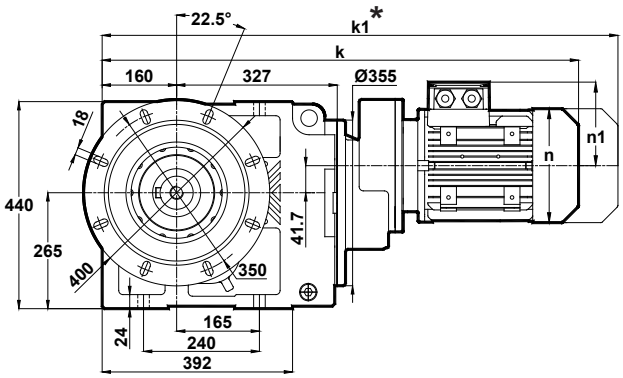


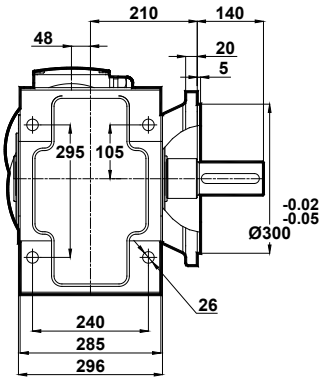
	80	90S	90L	100L
k	829.5	868.5	868.5	913.5
k1	922.5	972	972	1022
n	155	176	176	193
n1	123	132	132	149

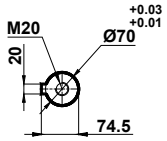
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR674.02

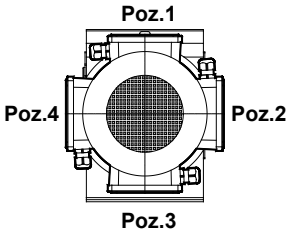






	80	90S	90L	100L
k	829.5	868.5	868.5	913.5
k1	922.5	972	972	1022
n	155	176	176	193
n1	123	132	132	149

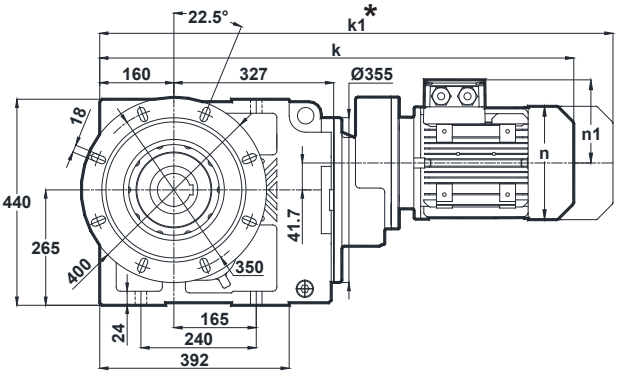
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

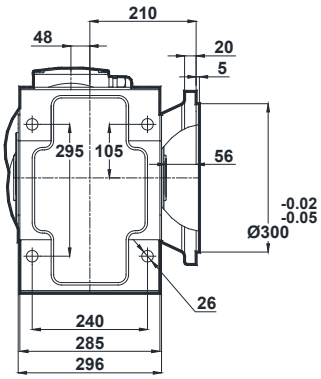


80-90-100
Tip / *Type* / Typ

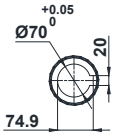
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

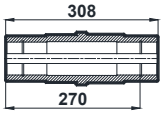
KR674.03



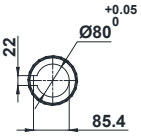


Std.





Ops.



	80	90S	90L	100L
k	829.5	868.5	868.5	913.5
k1	922.5	972	972	1022
n	155	176	176	193
n1	123	132	132	149

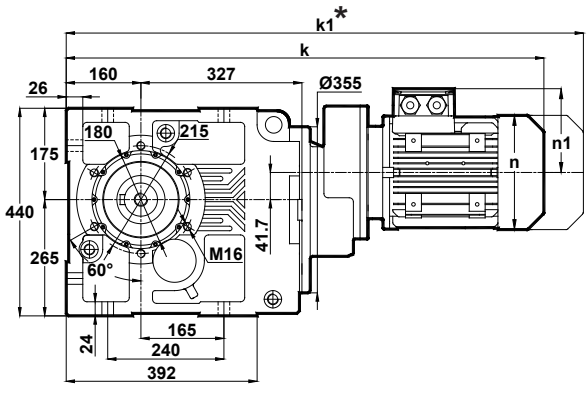
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

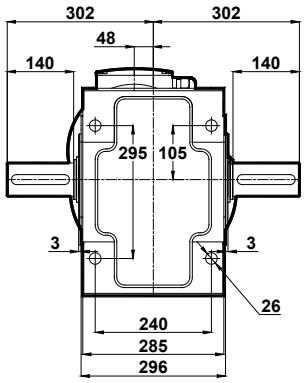
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

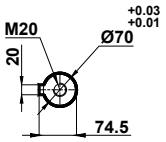
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR674.04

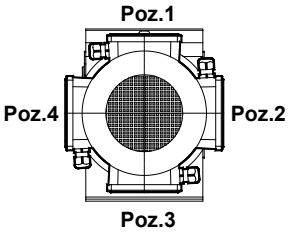






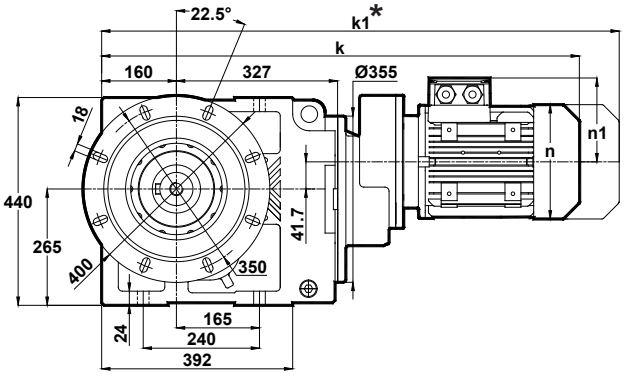
	80	90S	90L	100L
k	829.5	868.5	868.5	913.5
k1	922.5	972	972	1022
n	155	176	176	193
n1	123	132	132	149

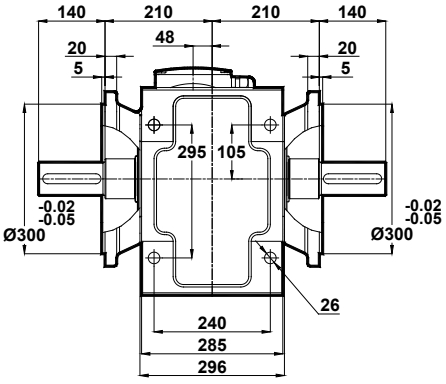
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

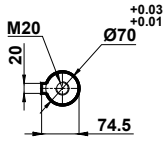


80-90-100
Tip / *Type* / Typ

KR674.05



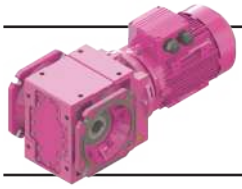




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

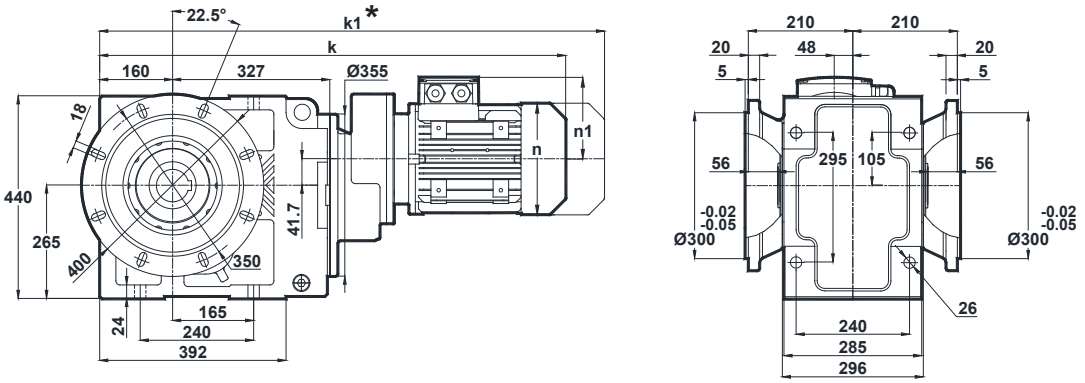
	80	90S	90L	100L
k	829.5	868.5	868.5	913.5
k1	922.5	972	972	1022
n	155	176	176	193
n1	123	132	132	149

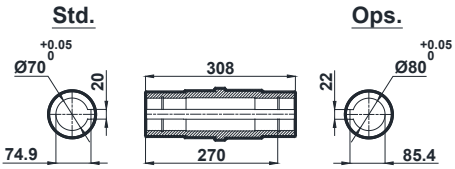
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

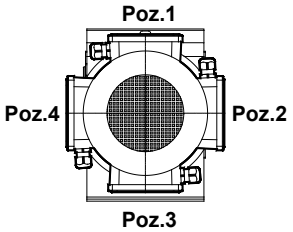
KR674.08





	80	90S	90L	100L
k	829.5	868.5	868.5	913.5
k1	922.5	972	972	1022
n	155	176	176	193
n1	123	132	132	149

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



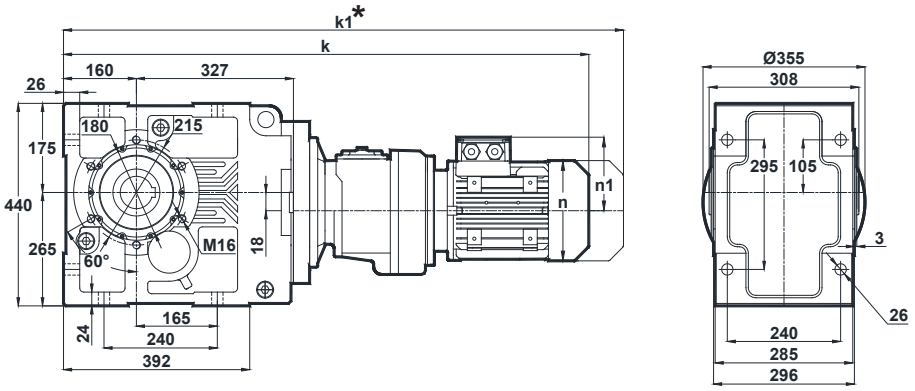
80-90-100
Tip / *Type* / Typ

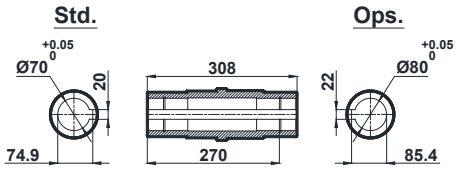
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

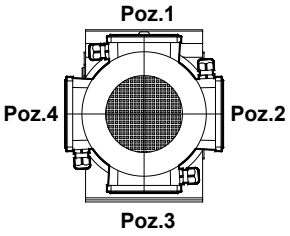
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR675.00
KR676.00





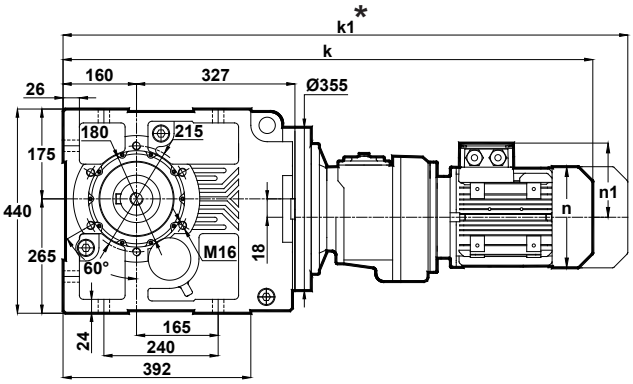
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

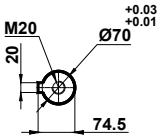


71-80-90
Tip / *Type* / Typ

	71	80	90S
k	941.5	975.5	1014.5
k1	1032.5	1068.5	1118
n	137	155	176
n1	112	123	132

KR675.01
KR676.01





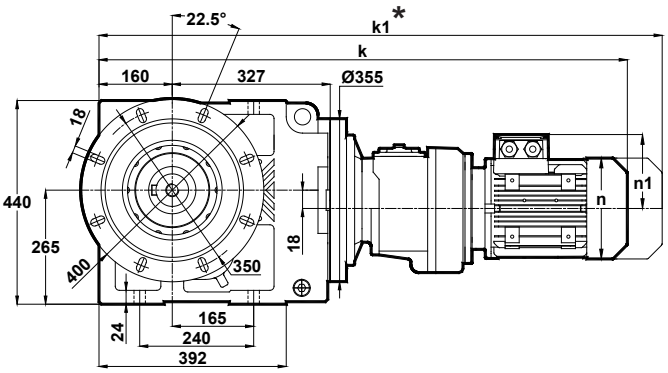
	71	80	90S
k	941.5	975.5	1014.5
k1	1032.5	1068.5	1118
n	137	155	176
n1	112	123	132

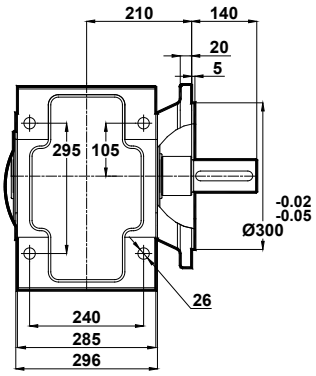
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

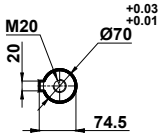
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR675.02
KR676.02

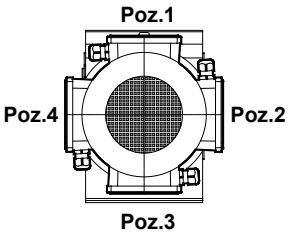






	71	80	90S
k	941.5	975.5	1014.5
k1	1032.5	1068.5	1118
n	137	155	176
n1	112	123	132

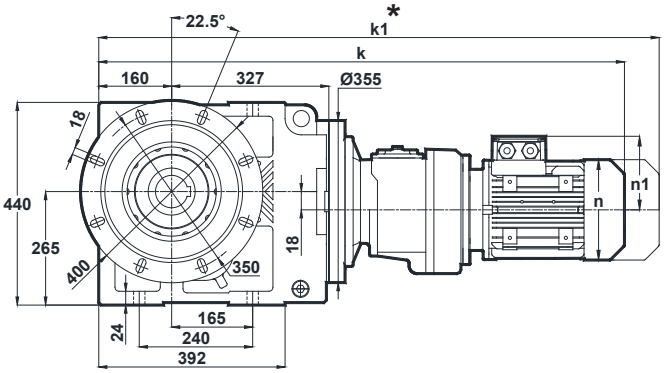
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

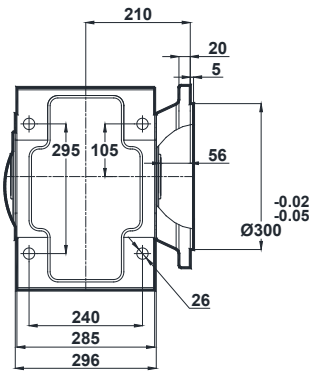


71-80-90
Tip / *Type* / Typ

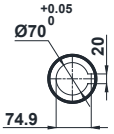
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

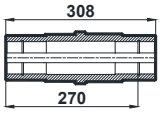
KR675.03
KR676.03



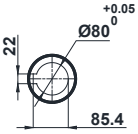


Std.





Ops.



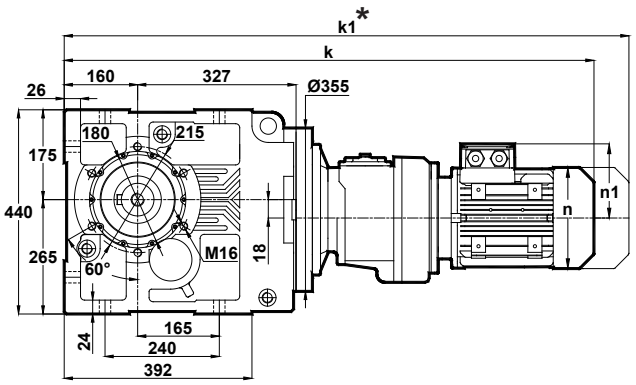
	71	80	90S
k	941.5	975.5	1014.5
k1	1032.5	1068.5	1118
n	137	155	176
n1	112	123	132

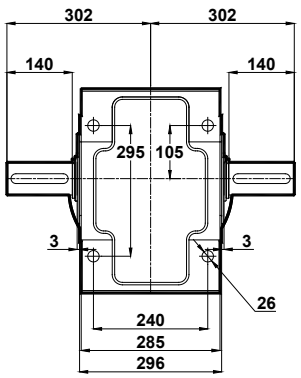
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

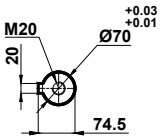
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

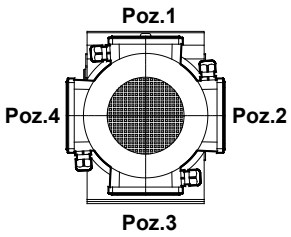
KR675.04
KR676.04







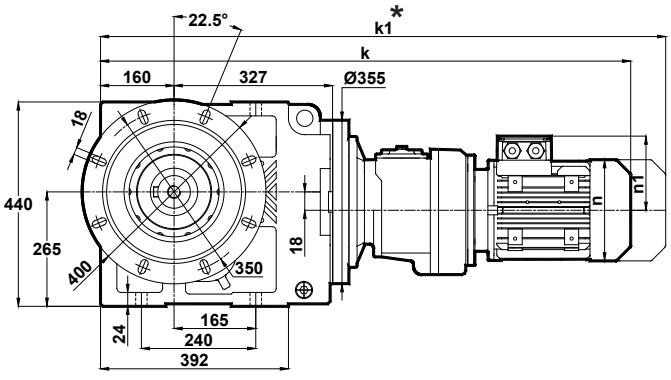
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

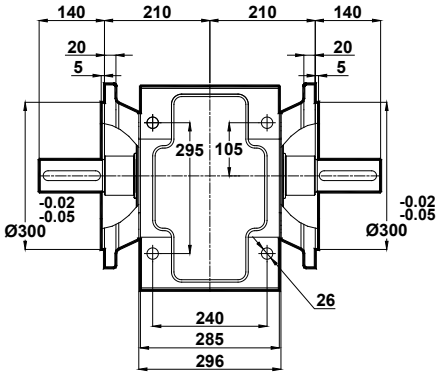


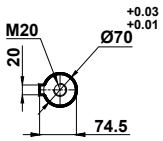
71-80-90
Tip / *Type* / Typ

	71	80	90S
k	941.5	975.5	1014.5
k1	1032.5	1068.5	1118
n	137	155	176
n1	112	123	132

KR675.05
KR676.05



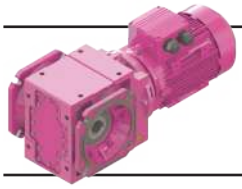




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

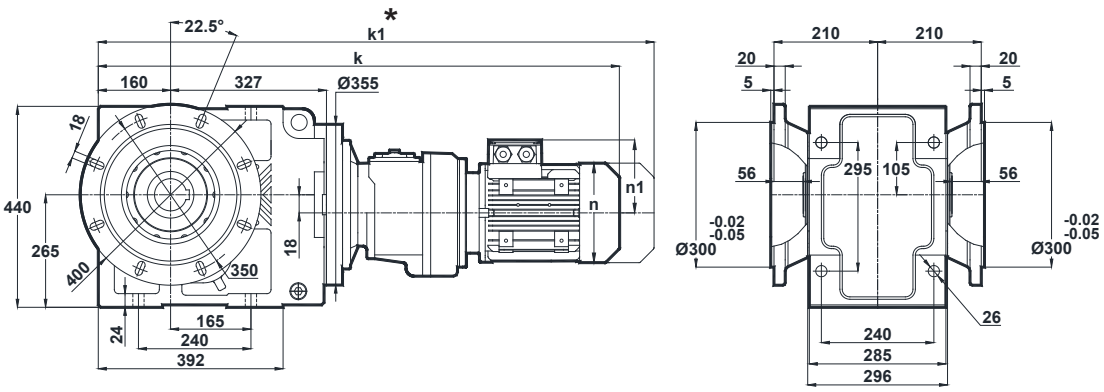
	71	80	90S
k	941.5	975.5	1014.5
k1	1032.5	1068.5	1118
n	137	155	176
n1	112	123	132

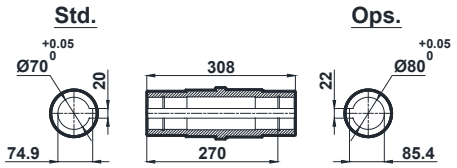
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

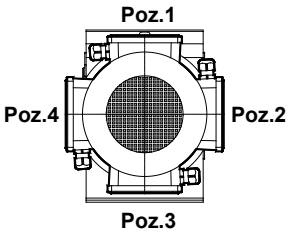
KR675.08
KR676.08





	71	80	90S
k	941.5	975.5	1014.5
k1	1032.5	1068.5	1118
n	137	155	176
n1	112	123	132

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80-90
Tip / *Type* / Typ

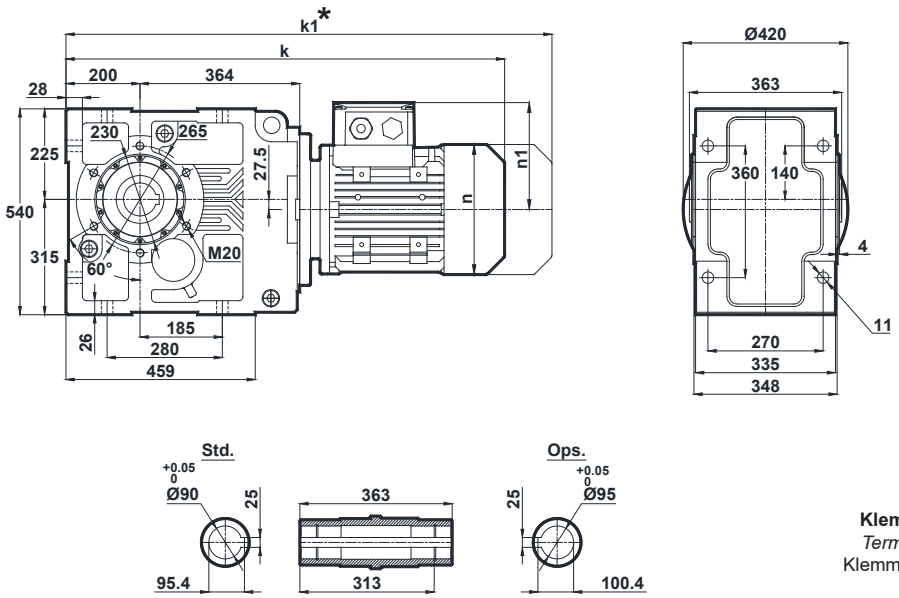
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

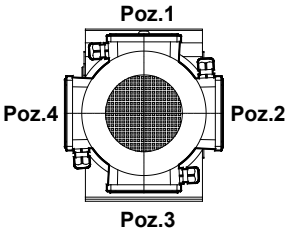
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR773.00



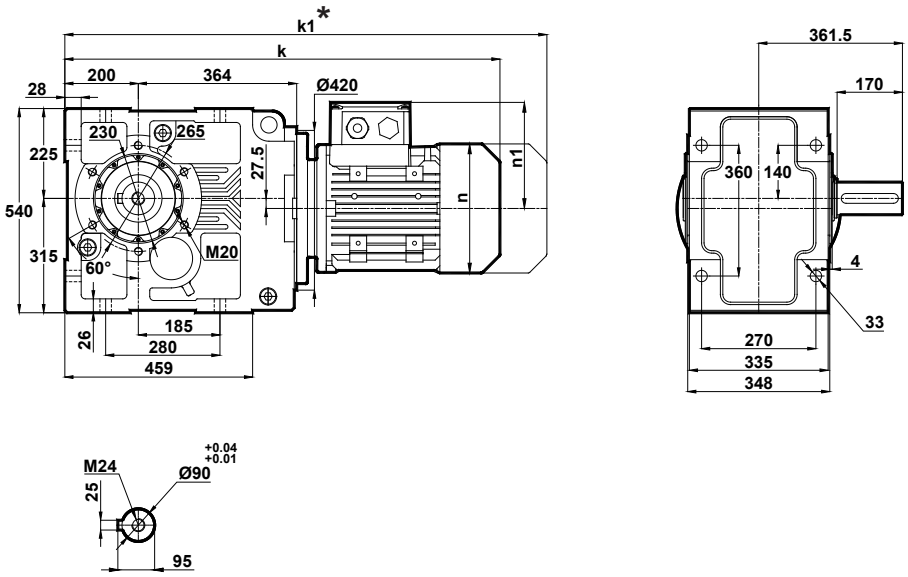
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	980.5	980.5	1076.5	1076.5	1148.5	1148.5	1194.5	1221.5	1246.5	1338.5
k1	1110.5	1110.5	1224.5	1224.5	1307	1307	1381	1386.5	1411.5	1509
n	257	257	316	316	348	348	396	438	438	481
n1	181	181	224	224	250	250	287	316	316	335

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



132-160-180-200-225-250
Tip / *Type* / Typ

KR773.01

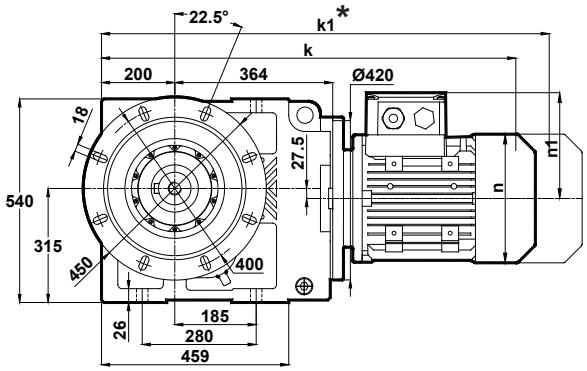


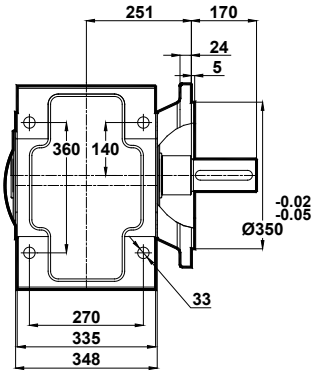
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	980.5	980.5	1076.5	1076.5	1148.5	1148.5	1194.5	1221.5	1246.5	1338.5
k1	1110.5	1110.5	1224.5	1224.5	1307	1307	1381	1386.5	1411.5	1509
n	257	257	316	316	348	348	396	438	438	481
n1	181	181	224	224	250	250	287	316	316	335

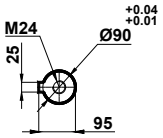
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

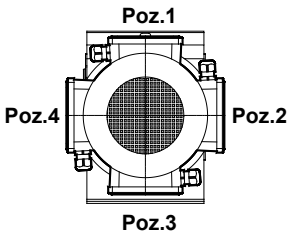
KR773.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

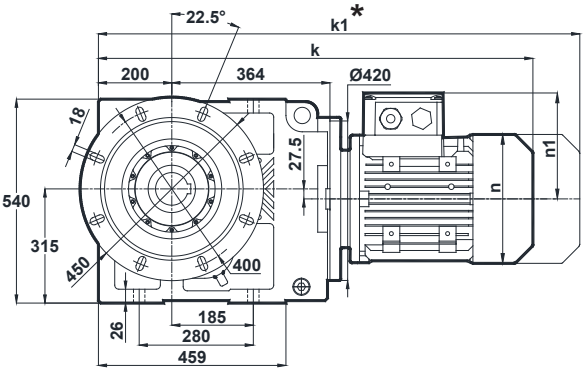


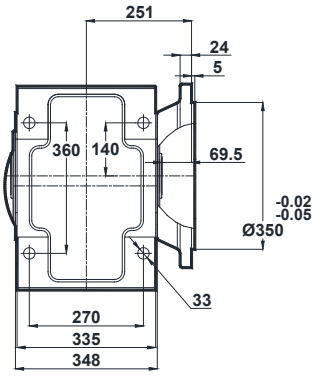
132-160-180-200-225-250
Tip / *Type* / Typ

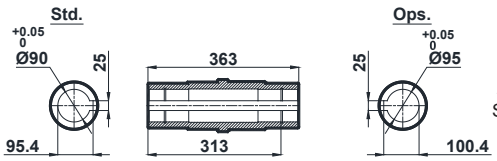
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	980.5	980.5	1076.5	1076.5	1148.5	1148.5	1194.5	1221.5	1246.5	1338.5
k1	1110.5	1110.5	1224.5	1224.5	1307	1307	1381	1386.5	1411.5	1509
n	257	257	316	316	348	348	396	438	438	481
n1	181	181	224	224	250	250	287	316	316	335

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR773.03







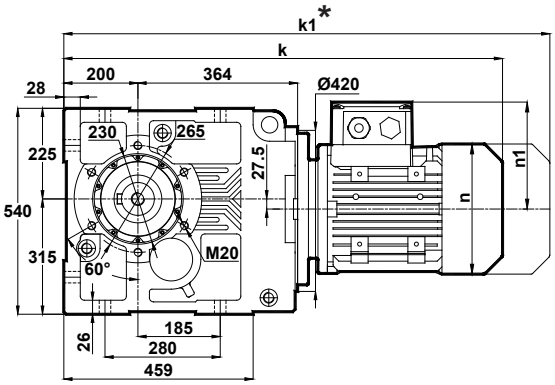
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

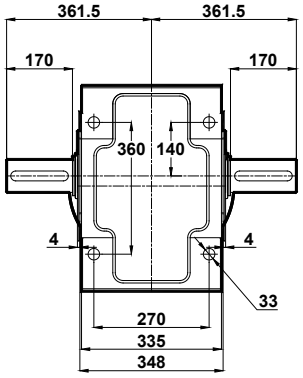
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	980.5	980.5	1076.5	1076.5	1148.5	1148.5	1194.5	1221.5	1246.5	1338.5
k1	1110.5	1110.5	1224.5	1224.5	1307	1307	1381	1386.5	1411.5	1509
n	257	257	316	316	348	348	396	438	438	481
n1	181	181	224	224	250	250	287	316	316	335

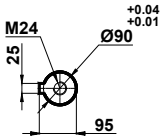
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR773.04

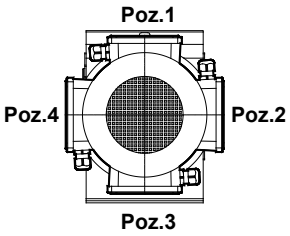






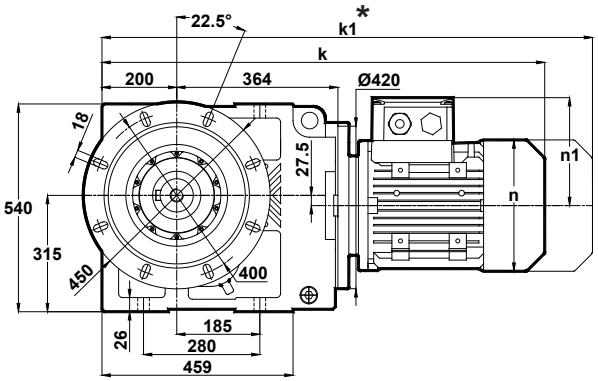
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	980.5	980.5	1076.5	1076.5	1148.5	1148.5	1194.5	1221.5	1246.5	1338.5
k1	1110.5	1110.5	1224.5	1224.5	1307	1307	1381	1386.5	1411.5	1509
n	257	257	316	316	348	348	396	438	438	481
n1	181	181	224	224	250	250	287	316	316	335

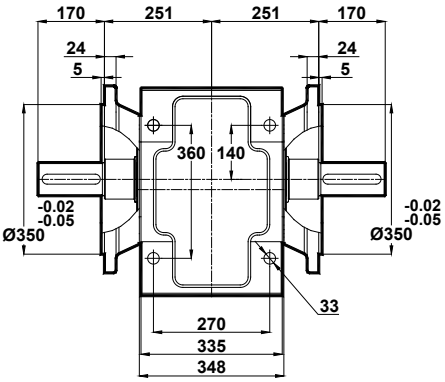
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

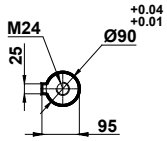


132-160-180-200-225-250
Tip / *Type* / Typ

KR773.05



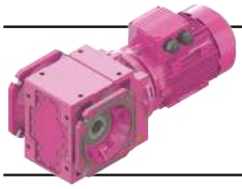




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

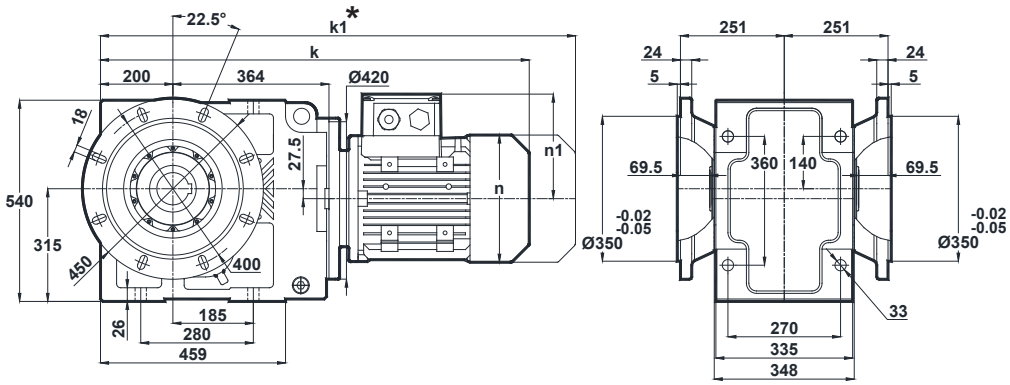
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	980.5	980.5	1076.5	1076.5	1148.5	1148.5	1194.5	1221.5	1246.5	1338.5
k1	1110.5	1110.5	1224.5	1224.5	1307	1307	1381	1386.5	1411.5	1509
n	257	257	316	316	348	348	396	438	438	481
n1	181	181	224	224	250	250	287	316	316	335

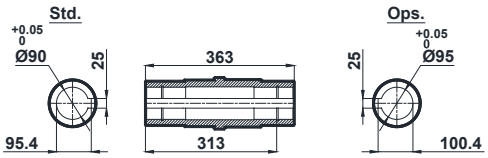
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

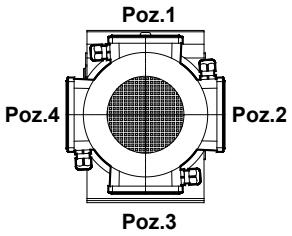
KR773.08





	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	980.5	980.5	1076.5	1076.5	1148.5	1148.5	1194.5	1221.5	1246.5	1338.5
k1	1110.5	1110.5	1224.5	1224.5	1307	1307	1381	1386.5	1411.5	1509
n	257	257	316	316	348	348	396	438	438	481
n1	181	181	224	224	250	250	287	316	316	335

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



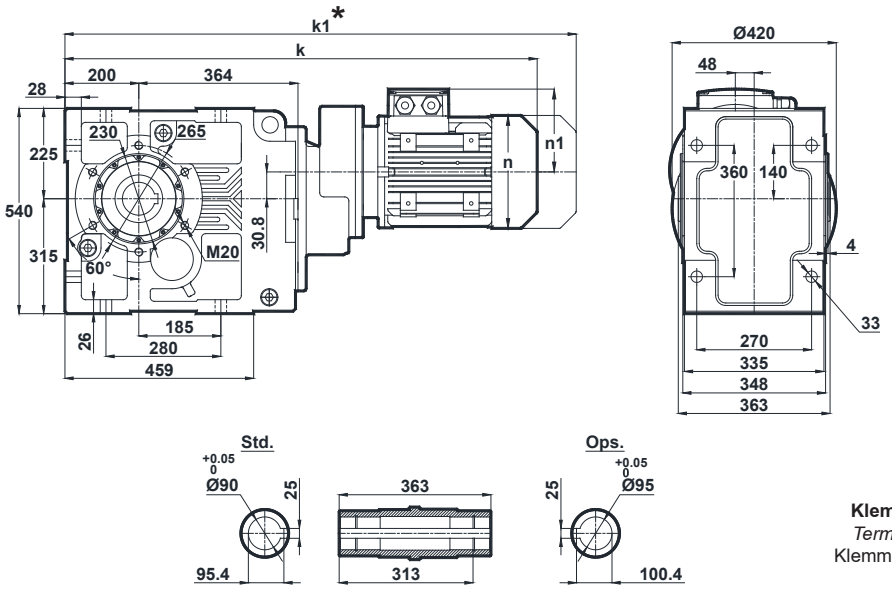
132-160-180-200-225-250
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

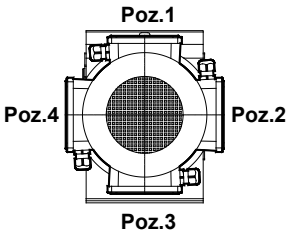
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR774.00



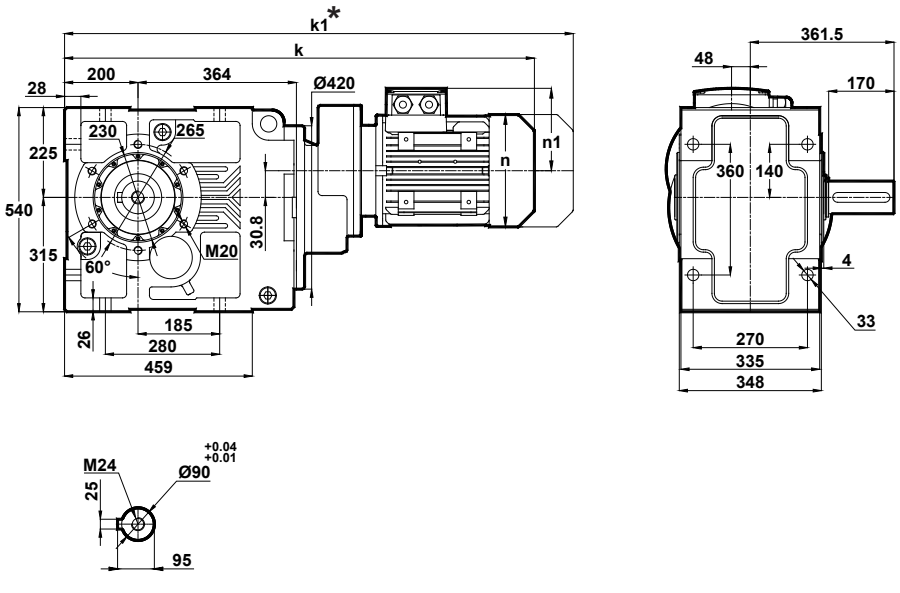
	90S	90L	100L	112M	132S	132M
k	945.5	945.5	990.5	1014.5	1099.5	1099.5
k1	1049	1049	1099	1119	1229.5	1229.5
n	176	176	193	215	257	257
n1	132	132	149	161	181	181

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



90-100-112-132
Tip / *Type* / Typ

KR774.01

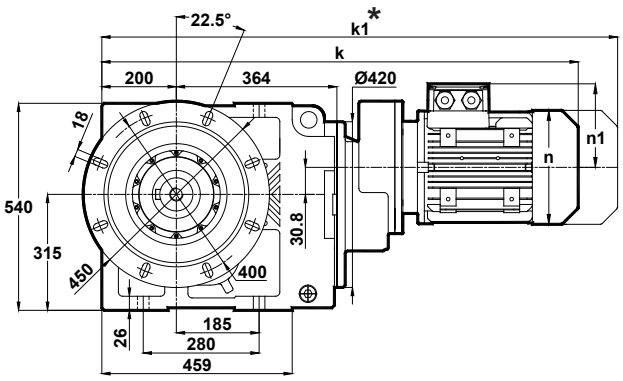


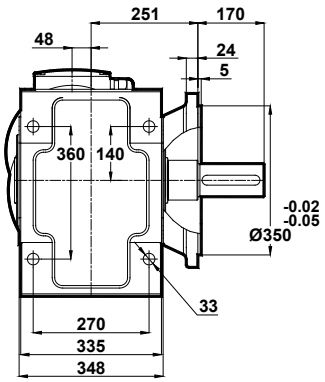
	90S	90L	100L	112M	132S	132M
k	945.5	945.5	990.5	1014.5	1099.5	1099.5
k1	1049	1049	1099	1119	1229.5	1229.5
n	176	176	193	215	257	257
n1	132	132	149	161	181	181

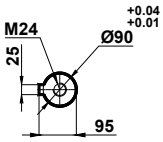
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR774.02

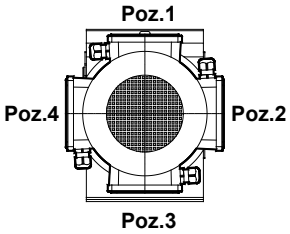






	90S	90L	100L	112M	132S	132M
k	945.5	945.5	990.5	1014.5	1099.5	1099.5
k1	1049	1049	1099	1119	1229.5	1229.5
n	176	176	193	215	257	257
n1	132	132	149	161	181	181

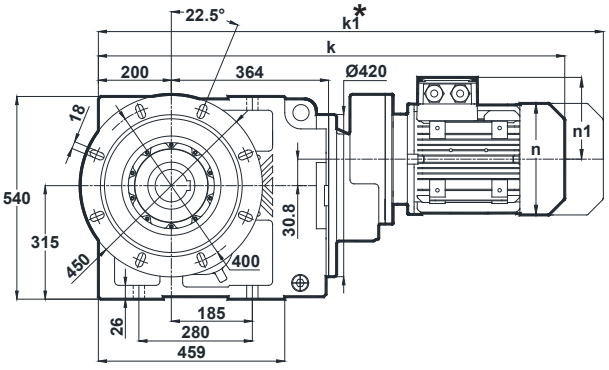
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

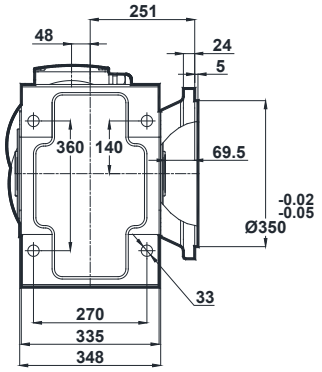


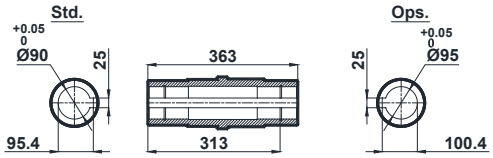
90-100-112-132
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR774.03







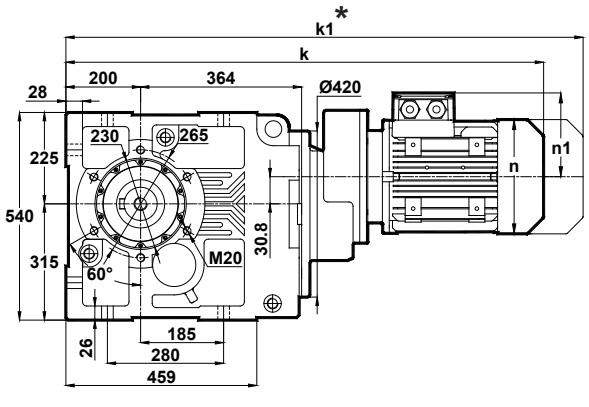
	90S	90L	100L	112M	132S	132M
k	945.5	945.5	990.5	1014.5	1099.5	1099.5
k1	1049	1049	1099	1119	1229.5	1229.5
n	176	176	193	215	257	257
n1	132	132	149	161	181	181

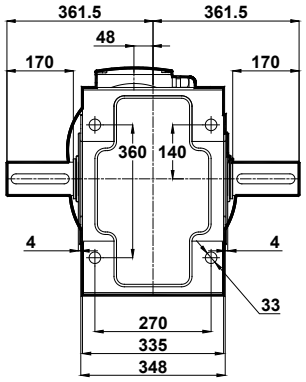
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

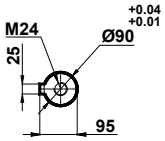
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR774.04

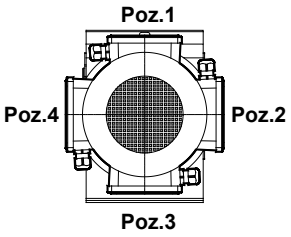






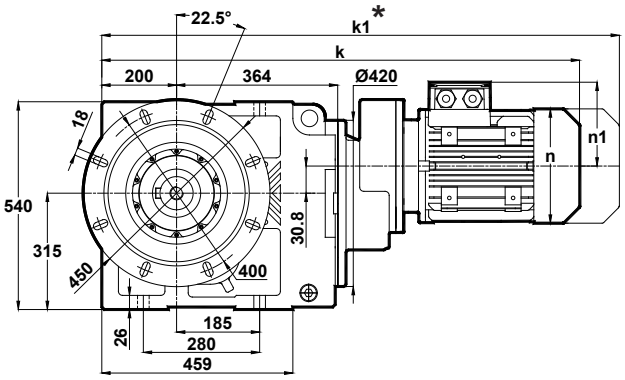
	90S	90L	100L	112M	132S	132M
k	945.5	945.5	990.5	1014.5	1099.5	1099.5
k1	1049	1049	1099	1119	1229.5	1229.5
n	176	176	193	215	257	257
n1	132	132	149	161	181	181

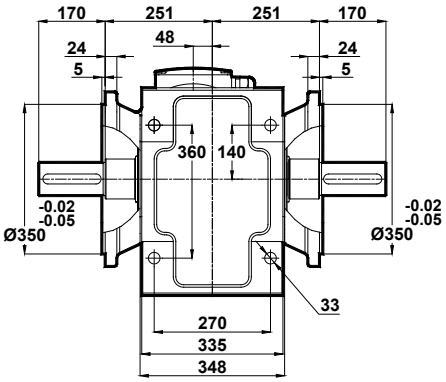
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

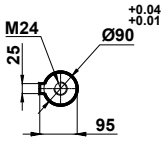


90-100-112-132
Tip / *Type* / Typ

KR774.05



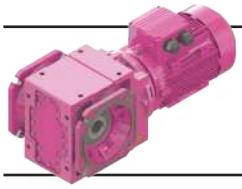




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

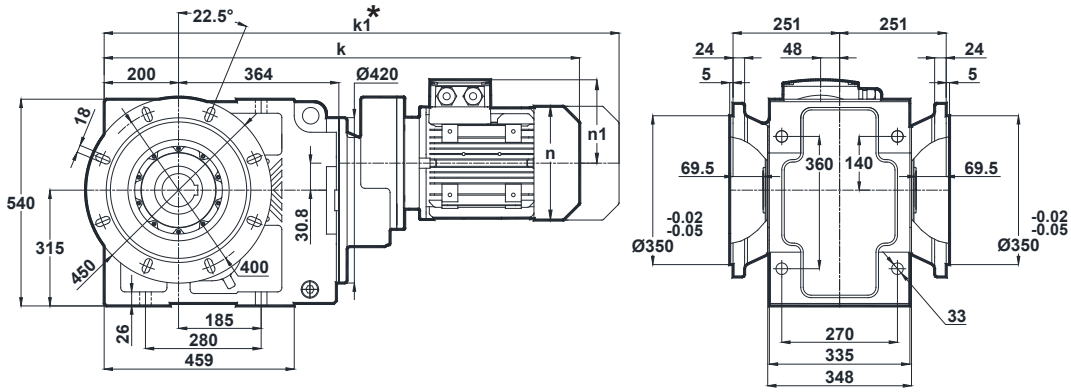
	90S	90L	100L	112M	132S	132M
k	945.5	945.5	990.5	1014.5	1099.5	1099.5
k1	1049	1049	1099	1119	1229.5	1229.5
n	176	176	193	215	257	257
n1	132	132	149	161	181	181

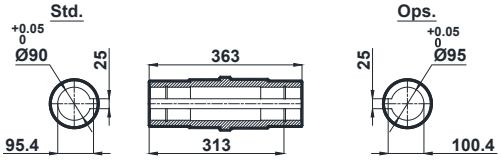
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

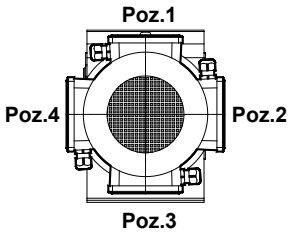
KR774.08





	90S	90L	100L	112M	132S	132M
k	945.5	945.5	990.5	1014.5	1099.5	1099.5
k1	1049	1049	1099	1119	1229.5	1229.5
n	176	176	193	215	257	257
n1	132	132	149	161	181	181

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



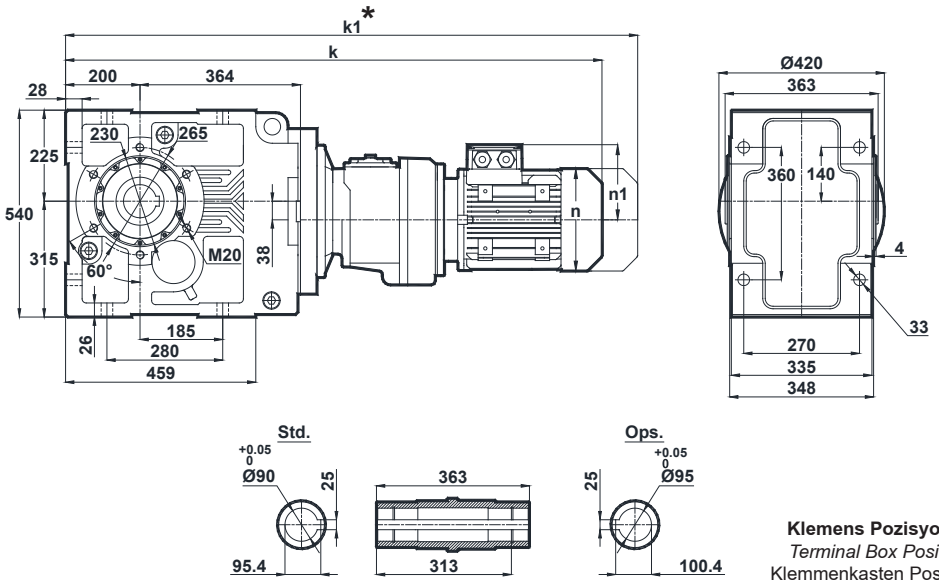
90-100-112-132
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

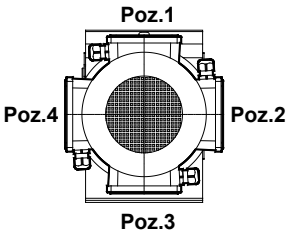
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR775.00
KR776.00



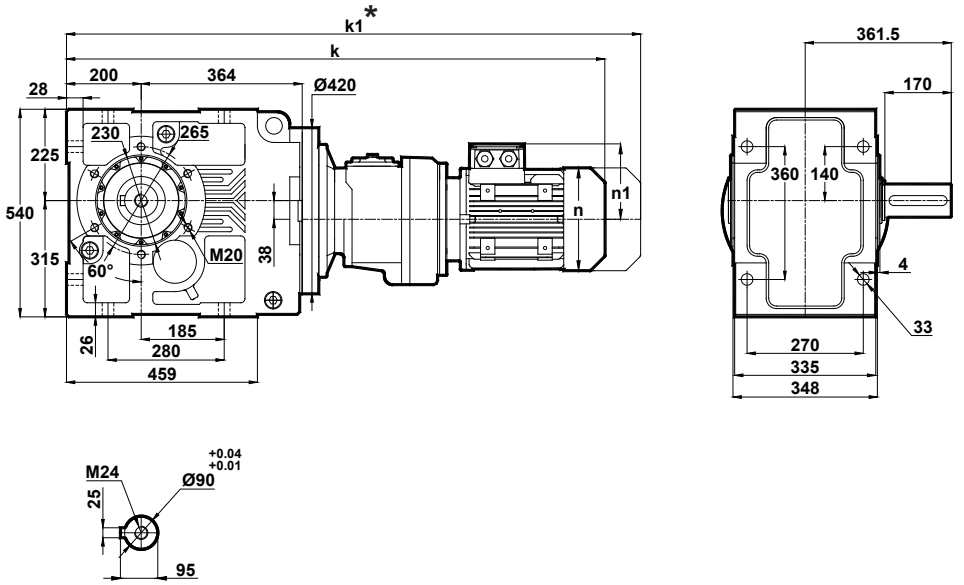
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80-90-100
Tip / *Type* / Typ

	71	80	90S	90L	100L
k	1018.5	1052.5	1091.5	1091.5	1139.5
k1	1109.5	1145.5	1195	1195	1248
n	137	155	176	176	193
n1	112	123	132	132	149

KR775.01
KR776.01



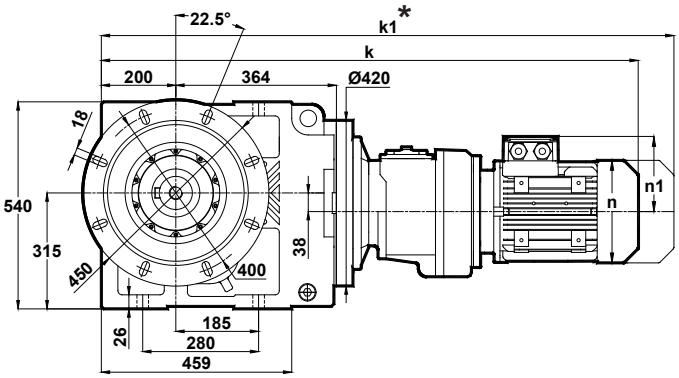
	71	80	90S	90L	100L
k	1018.5	1052.5	1091.5	1091.5	1139.5
k1	1109.5	1145.5	1195	1195	1248
n	137	155	176	176	193
n1	112	123	132	132	149

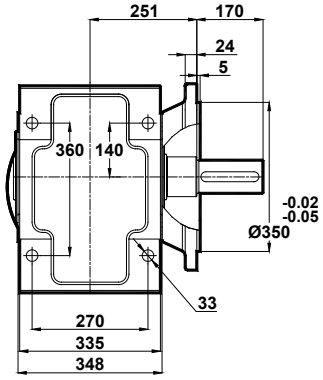
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

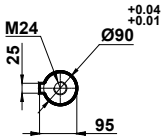
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

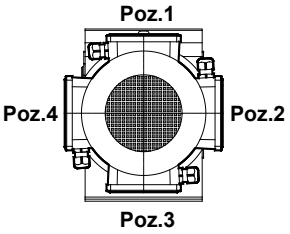
KR775.02
KR776.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

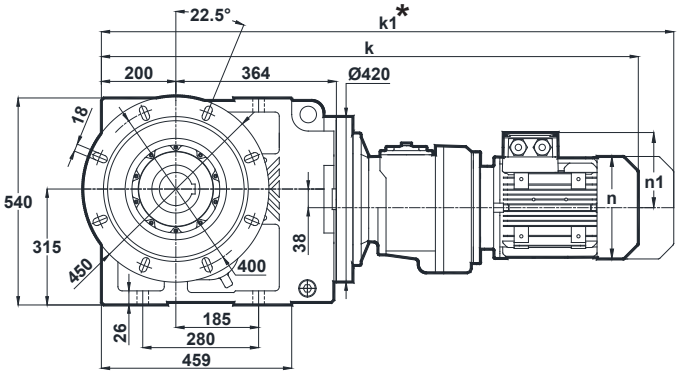


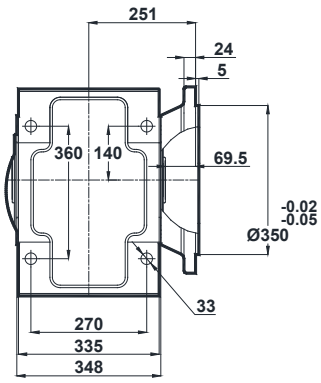
71-80-90-100
Tip / *Type* / Typ

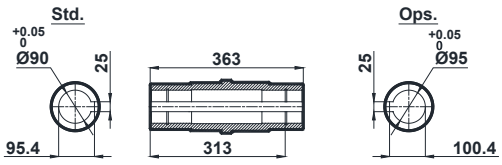
	71	80	90S	90L	100L
k	1018.5	1052.5	1091.5	1091.5	1139.5
k1	1109.5	1145.5	1195	1195	1248
n	137	155	176	176	193
n1	112	123	132	132	149

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR775.03
KR776.03







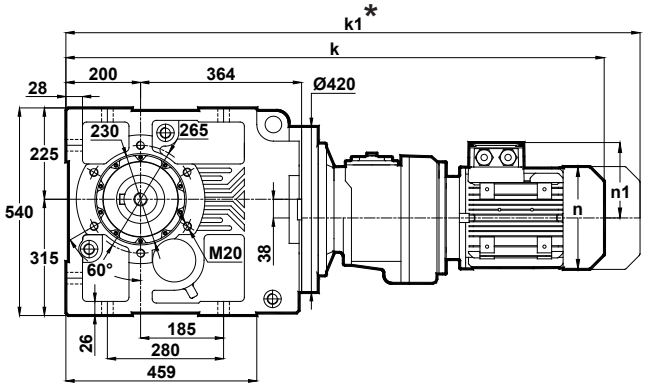
	71	80	90S	90L	100L
k	1018.5	1052.5	1091.5	1091.5	1139.5
k1	1109.5	1145.5	1195	1195	1248
n	137	155	176	176	193
n1	112	123	132	132	149

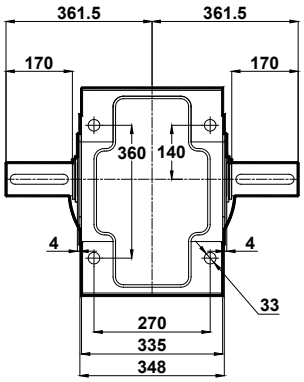
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

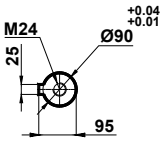
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

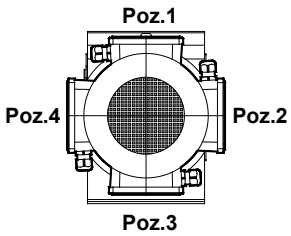
KR775.04
KR776.04







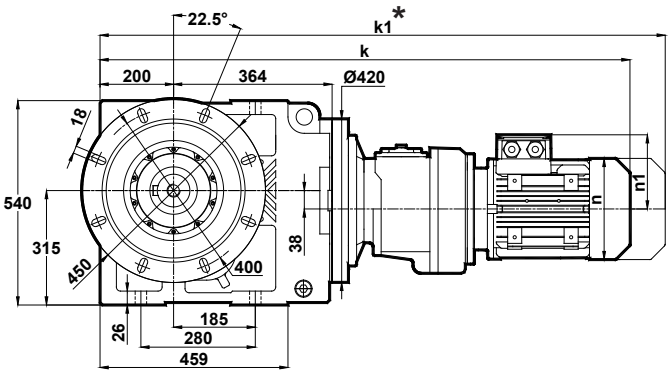
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

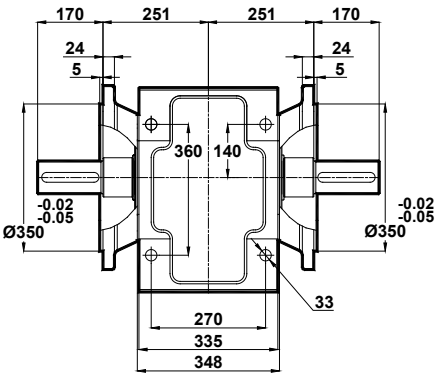


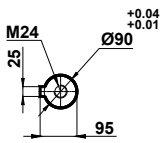
71-80-90-100
Tip / *Type* / Typ

	71	80	90S	90L	100L
k	1018.5	1052.5	1091.5	1091.5	1139.5
k1	1109.5	1145.5	1195	1195	1248
n	137	155	176	176	193
n1	112	123	132	132	149

KR775.05
KR776.05



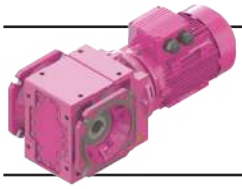




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	71	80	90S	90L	100L
k	1018.5	1052.5	1091.5	1091.5	1139.5
k1	1109.5	1145.5	1195	1195	1248
n	137	155	176	176	193
n1	112	123	132	132	149

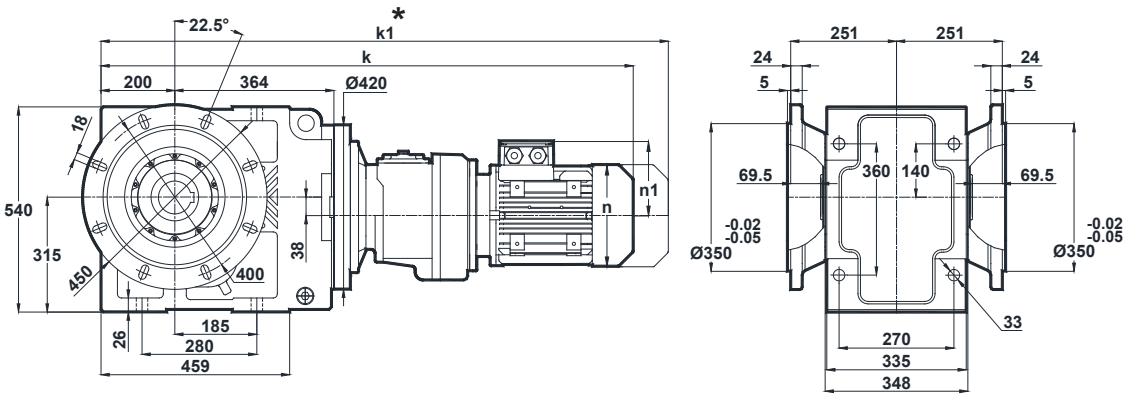
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

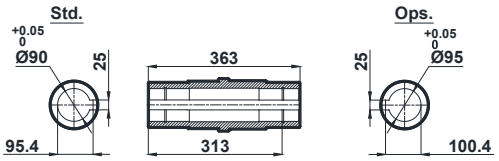


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

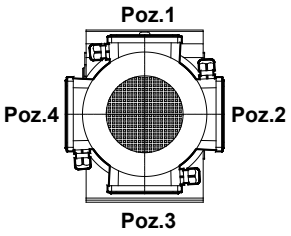
KR775.08
KR776.08





Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

	71	80	90S	90L	100L
k	1018.5	1052.5	1091.5	1091.5	1139.5
k1	1109.5	1145.5	1195	1195	1248
n	137	155	176	176	193
n1	112	123	132	132	149



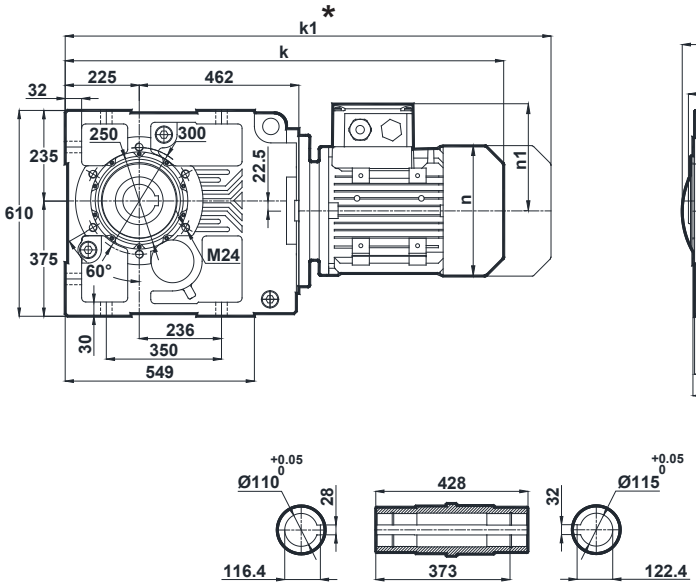
71-80-90-100
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

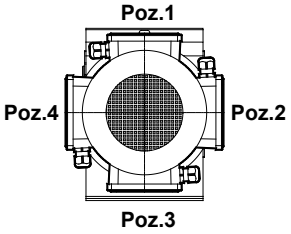
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR873.00



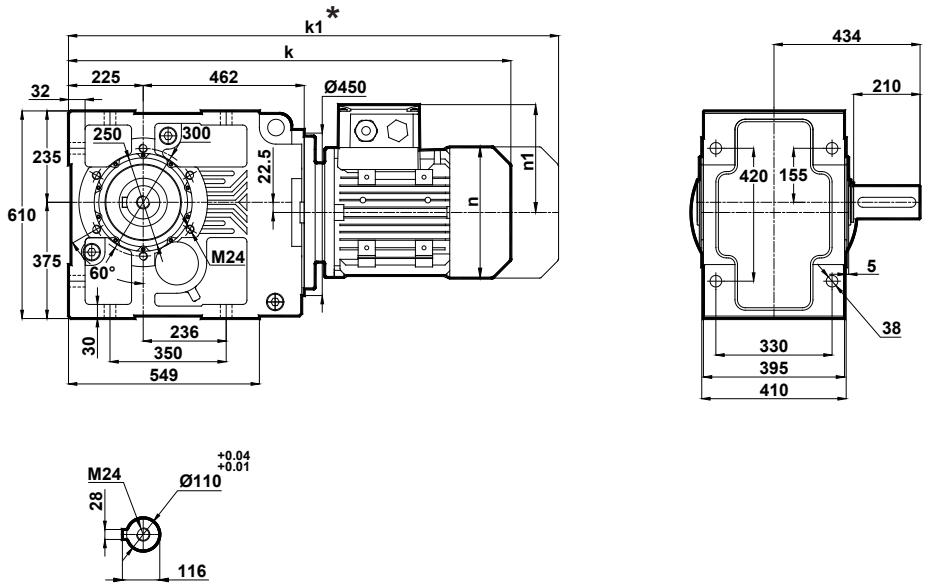
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1091,5	1091,5	1187.5	1187.5	1259.5	1259.5	1305.5	1335	1360	1450.5	1512.5	1512.5
k1	1213,5	1213,5	1335.5	1335.5	1418	1418	1492	1500	1525	1621	1685.5	1691.5
n	257	257	316	316	348	348	396	438	438	481	547	547
n1	181	181	224	224	250	250	287	316	316	335	402	402

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



132-160-180-200-225-250-280
Tip / *Type* / Typ

KR873.01



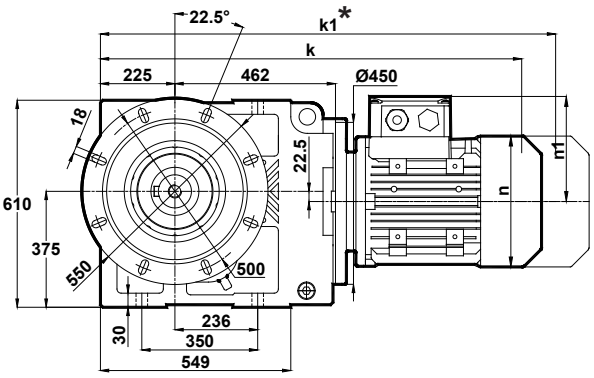
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1091,5	1091,5	1187.5	1187.5	1259.5	1259.5	1305.5	1335	1360	1450.5	1512.5	1512.5
k1	1213,5	1213,5	1335.5	1335.5	1418	1418	1492	1500	1525	1621	1685.5	1691.5
n	257	257	316	316	348	348	396	438	438	481	547	547
n1	181	181	224	224	250	250	287	316	316	335	402	402

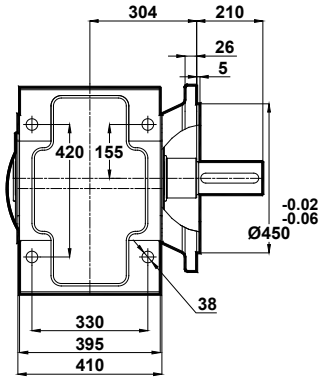
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

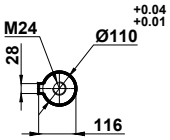
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR873.02

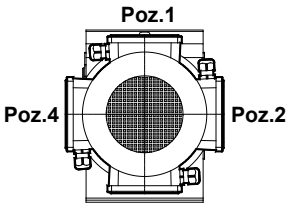






	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1091,5	1091,5	1187.5	1187.5	1259.5	1259.5	1305.5	1335	1360	1450.5	1512.5	1512.5
k1	1213,5	1213,5	1335.5	1335.5	1418	1418	1492	1500	1525	1621	1685.5	1691.5
n	257	257	316	316	348	348	396	438	438	481	547	547
n1	181	181	224	224	250	250	287	316	316	335	402	402

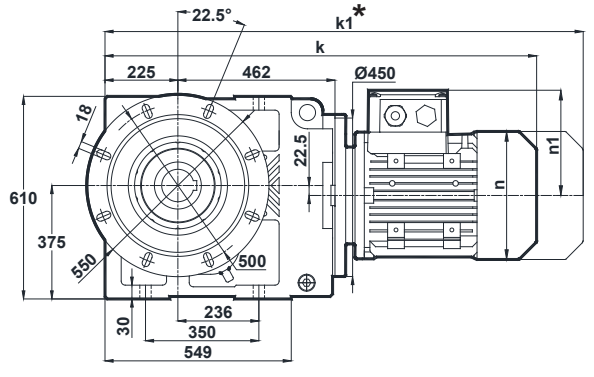
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

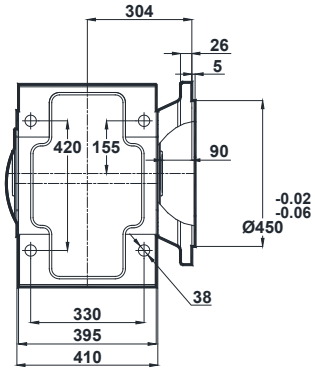


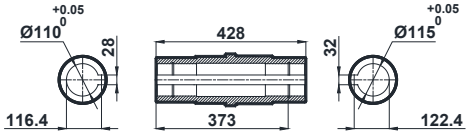
132-160-180-200-225-250-280
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR873.03







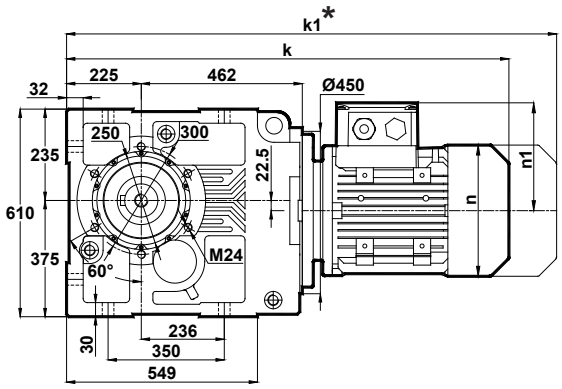
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

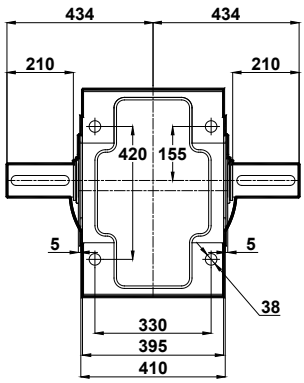
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1091,5	1091,5	1187.5	1187.5	1259.5	1259.5	1305.5	1335	1360	1450.5	1512.5	1512.5
k1	1213,5	1213,5	1335.5	1335.5	1418	1418	1492	1500	1525	1621	1685.5	1691.5
n	257	257	316	316	348	348	396	438	438	481	547	547
n1	181	181	224	224	250	250	287	316	316	335	402	402

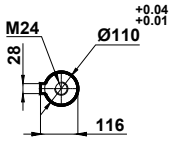
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR873.04

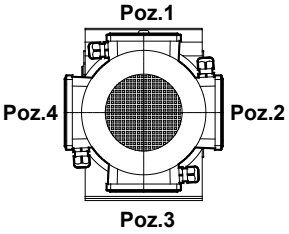






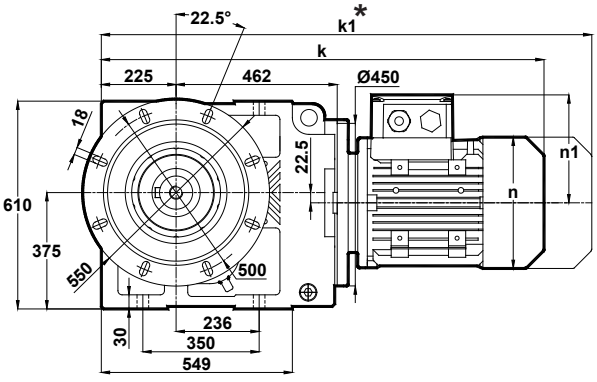
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1091,5	1091,5	1187.5	1187.5	1259.5	1259.5	1305.5	1335	1360	1450.5	1512.5	1512.5
k1	1213,5	1213,5	1335.5	1335.5	1418	1418	1492	1500	1525	1621	1685.5	1691.5
n	257	257	316	316	348	348	396	438	438	481	547	547
n1	181	181	224	224	250	250	287	316	316	335	402	402

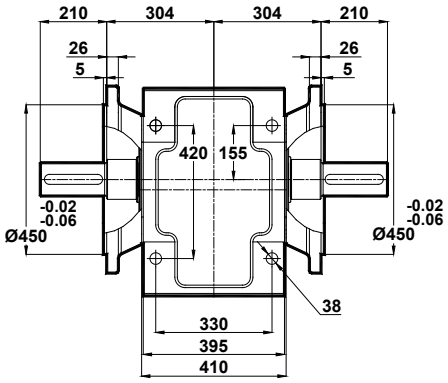
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

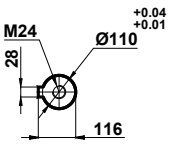


132-160-180-200-225-250-280
Tip / *Type* / Typ

KR873.05



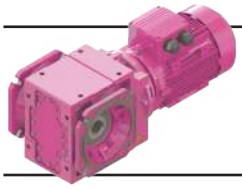




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1091,5	1091,5	1187.5	1187.5	1259.5	1259.5	1305.5	1335	1360	1450.5	1512.5	1512.5
k1	1213,5	1213,5	1335.5	1335.5	1418	1418	1492	1500	1525	1621	1685.5	1691.5
n	257	257	316	316	348	348	396	438	438	481	547	547
n1	181	181	224	224	250	250	287	316	316	335	402	402

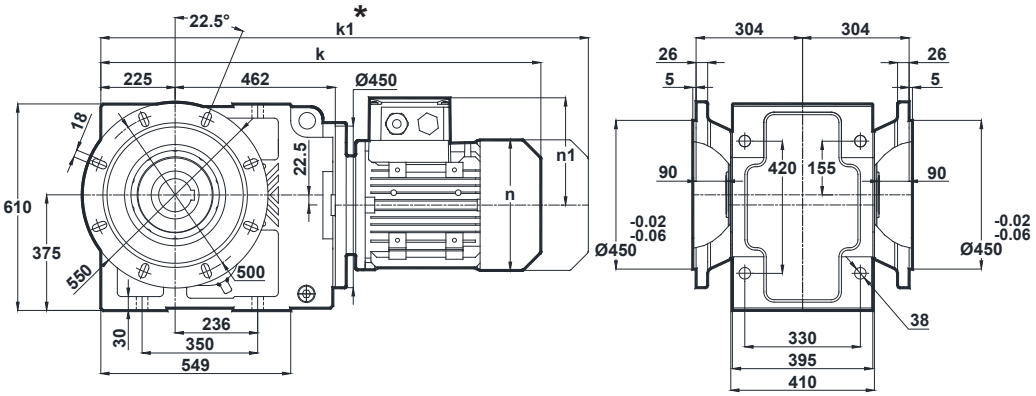
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

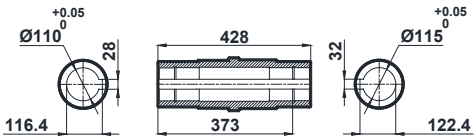


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

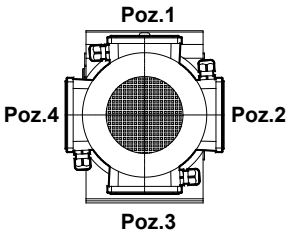
KR873.08





	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1091,5	1091,5	1187.5	1187.5	1259.5	1259.5	1305.5	1335	1360	1450.5	1512.5	1512.5
k1	1213,5	1213,5	1335.5	1335.5	1418	1418	1492	1500	1525	1621	1685.5	1691.5
n	257	257	316	316	348	348	396	438	438	481	547	547
n1	181	181	224	224	250	250	287	316	316	335	402	402

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



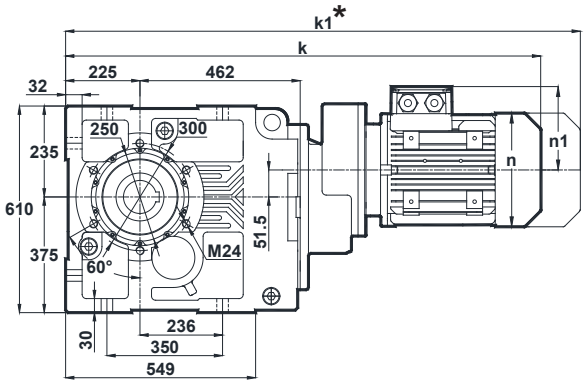
132-160-180-200-225-250-280
Tip / *Type* / Typ

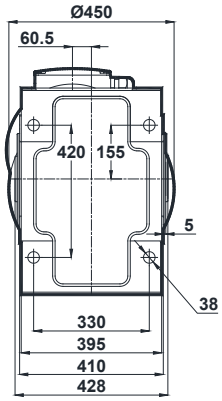
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

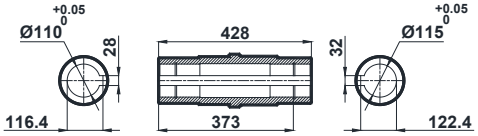
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR874.00

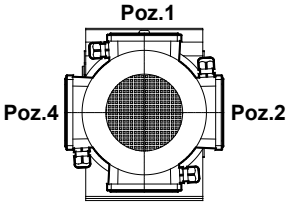






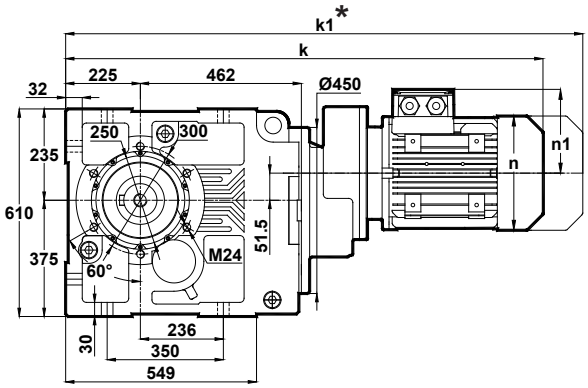
	100L	112M	132S	132M	160M	160L	180M
k	1123	1147	1233.5	1233.5	1329.5	1329.5	1401.5
k1	1231.5	1251.5	1363.5	1363.5	1477.5	1477.5	1560
n	193	215	257	257	316	316	348
n1	149	161	181	181	224	224	250

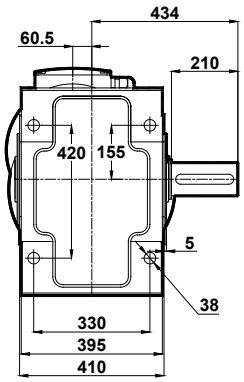
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

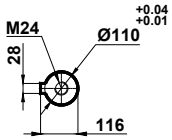


100-112-132-160-180
Tip / *Type* / Typ

KR874.01







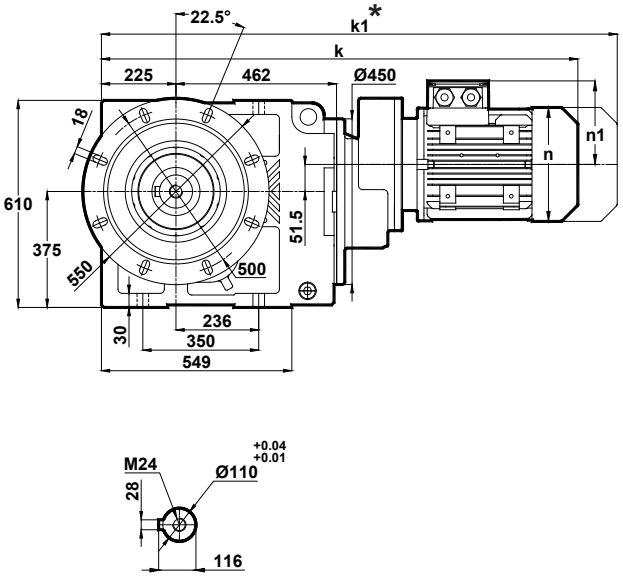
	100L	112M	132S	132M	160M	160L	180M
k	1123	1147	1233.5	1233.5	1329.5	1329.5	1401.5
k1	1231.5	1251.5	1363.5	1363.5	1477.5	1477.5	1560
n	193	215	257	257	316	316	348
n1	149	161	181	181	224	224	250

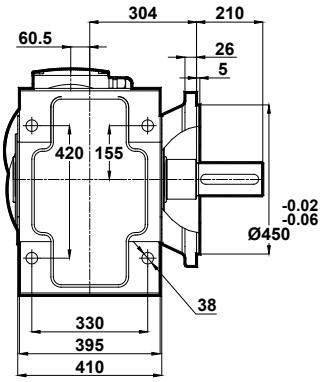
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

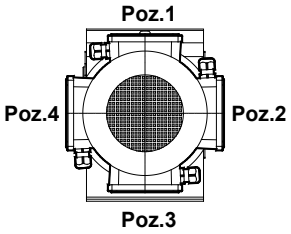
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR874.02





Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

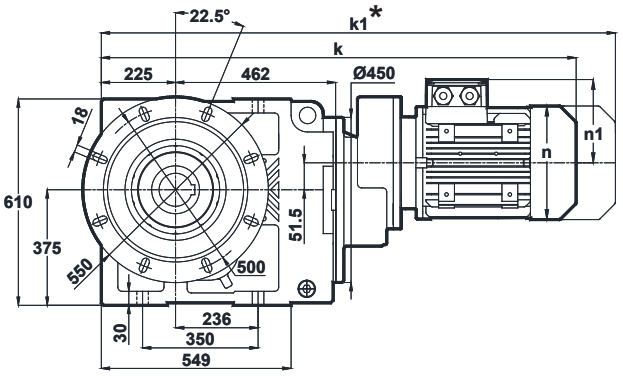


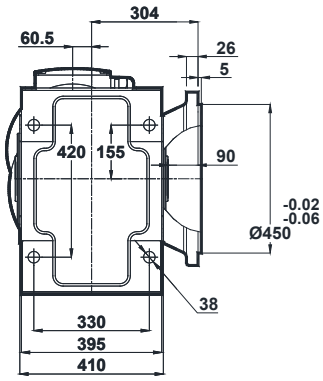
100-112-132-160-180
Tip / *Type* / Typ

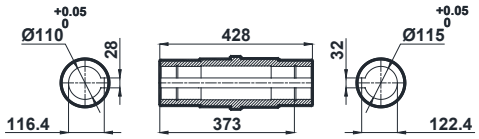
	100L	112M	132S	132M	160M	160L	180M
k	1123	1147	1233.5	1233.5	1329.5	1329.5	1401.5
k1	1231.5	1251.5	1363.5	1363.5	1477.5	1477.5	1560
n	193	215	257	257	316	316	348
n1	149	161	181	181	224	224	250

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR874.03







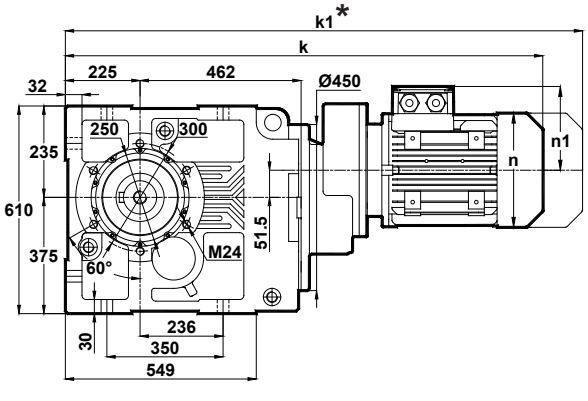
	100L	112M	132S	132M	160M	160L	180M
k	1123	1147	1233.5	1233.5	1329.5	1329.5	1401.5
k1	1231.5	1251.5	1363.5	1363.5	1477.5	1477.5	1560
n	193	215	257	257	316	316	348
n1	149	161	181	181	224	224	250

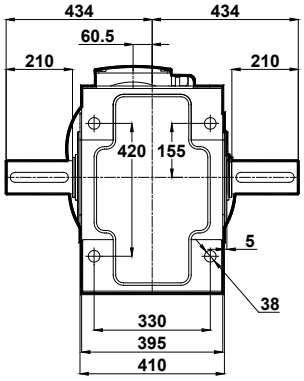
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

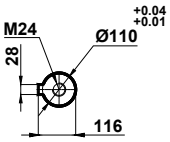
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR874.04

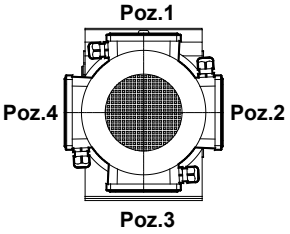






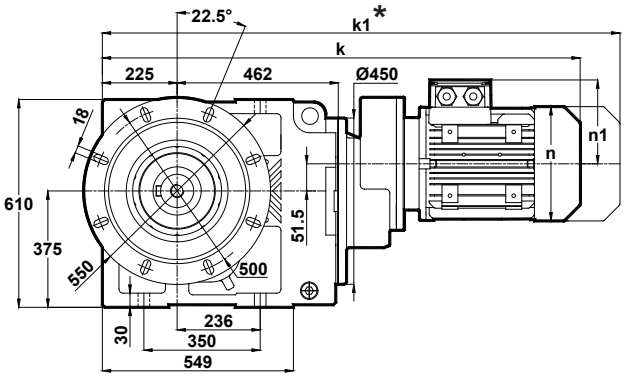
	100L	112M	132S	132M	160M	160L	180M
k	1123	1147	1233.5	1233.5	1329.5	1329.5	1401.5
k1	1231.5	1251.5	1363.5	1363.5	1477.5	1477.5	1560
n	193	215	257	257	316	316	348
n1	149	161	181	181	224	224	250

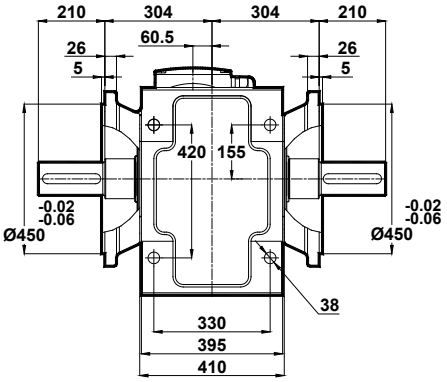
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

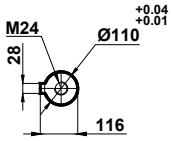


100-112-132-160-180
Tip / *Type* / Typ

KR874.05



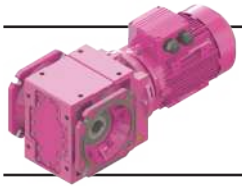




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	100L	112M	132S	132M	160M	160L	180M
k	1123	1147	1233.5	1233.5	1329.5	1329.5	1401.5
k1	1231.5	1251.5	1363.5	1363.5	1477.5	1477.5	1560
n	193	215	257	257	316	316	348
n1	149	161	181	181	224	224	250

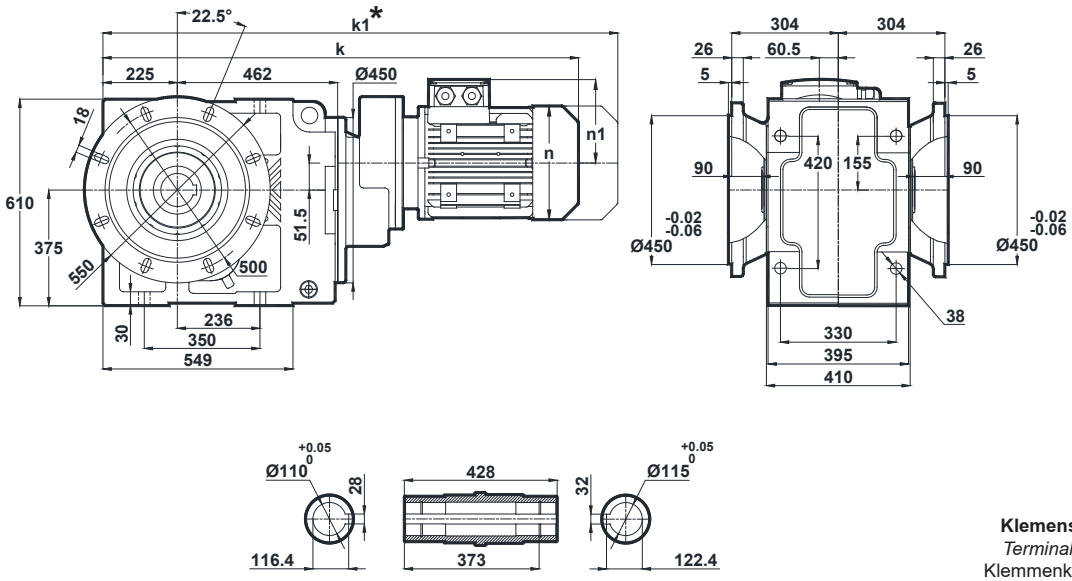
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

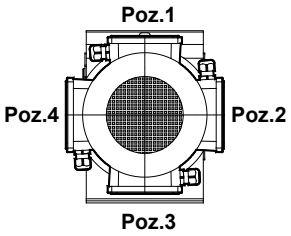
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR874.08



	100L	112M	132S	132M	160M	160L	180M
k	1123	1147	1233.5	1233.5	1329.5	1329.5	1401.5
k1	1231.5	1251.5	1363.5	1363.5	1477.5	1477.5	1560
n	193	215	257	257	316	316	348
n1	149	161	181	181	224	224	250

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



100-112-132-160-180
Tip / *Type* / Typ

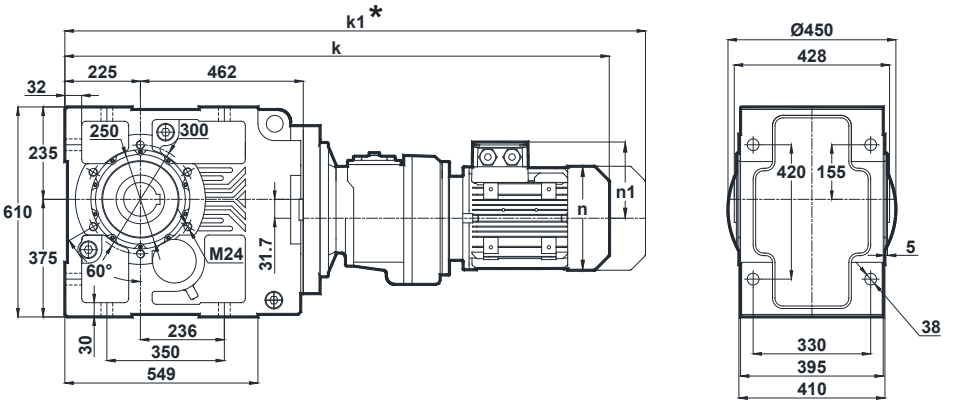
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

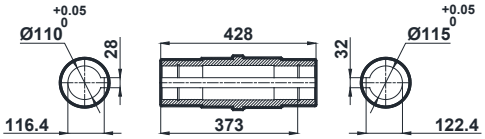
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

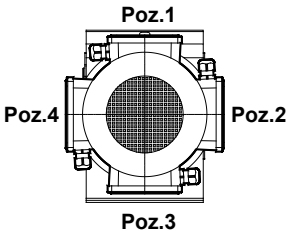
KR875.00
KR876.00





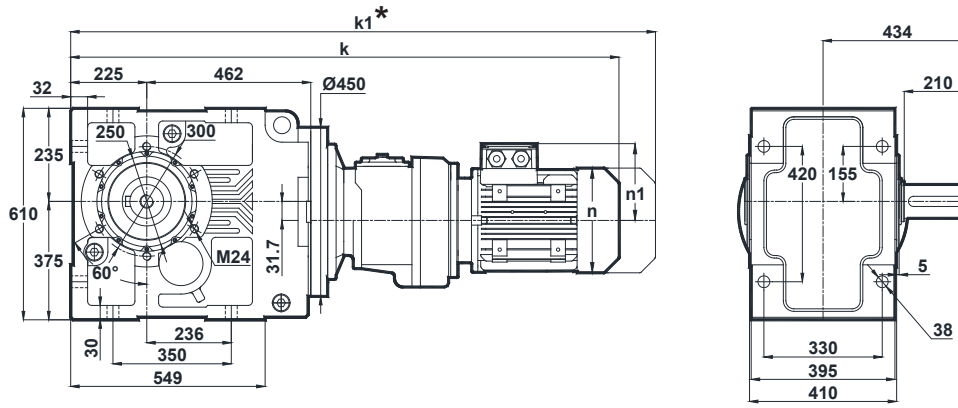
	71	80	90S	90L	100L	112M	132S	132M
k	1141.5	1175.5	1214.5	1214.5	1262.5	1286.5	1373	1373
k1	1232.5	1268.5	1318	1318	1371	1391	1495	1495
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181

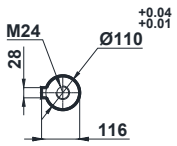
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80-90-100-112-132
Tip / *Type* / Typ

KR875.01
KR876.01





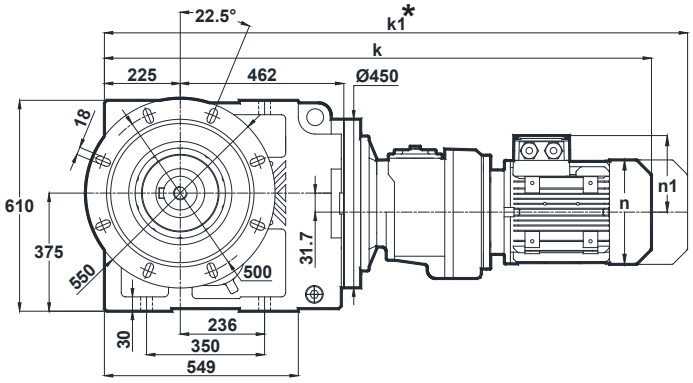
	71	80	90S	90L	100L	112M	132S	132M
k	1141.5	1175.5	1214.5	1214.5	1262.5	1286.5	1373	1373
k1	1232.5	1268.5	1318	1318	1371	1391	1495	1495
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181

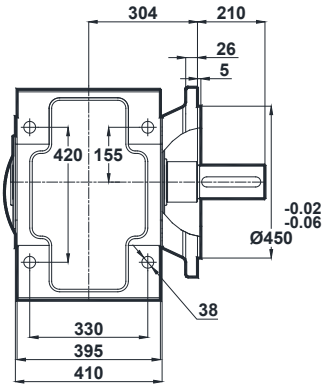
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

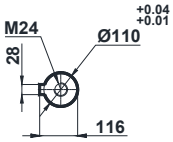
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

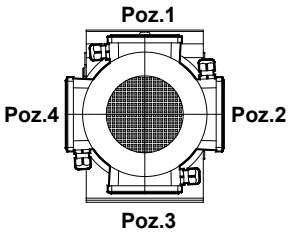
KR875.02
KR876.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

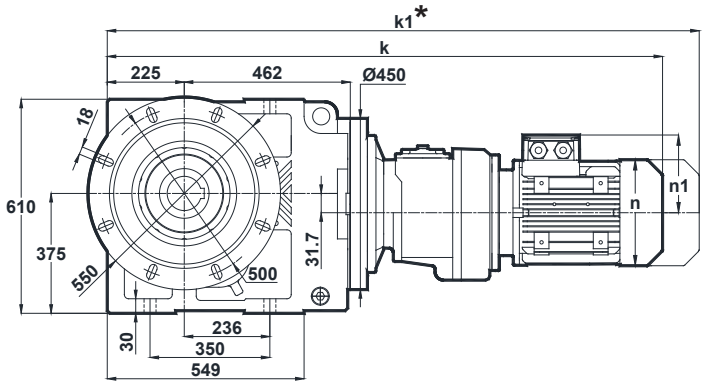


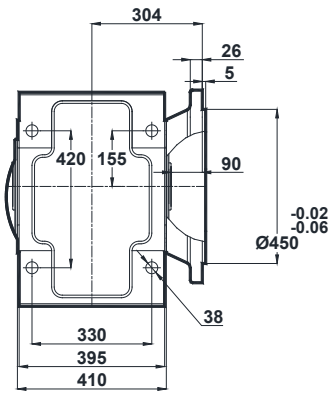
71-80-90-100-112-132
Tip / *Type* / Typ

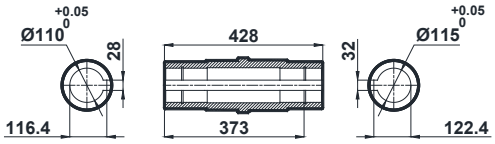
	71	80	90S	90L	100L	112M	132S	132M
k	1141.5	1175.5	1214.5	1214.5	1262.5	1286.5	1373	1373
k1	1232.5	1268.5	1318	1318	1371	1391	1495	1495
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KR875.03
KR876.03







	71	80	90S	90L	100L	112M	132S	132M
k	1141.5	1175.5	1214.5	1214.5	1262.5	1286.5	1373	1373
k1	1232.5	1268.5	1318	1318	1371	1391	1495	1495
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181

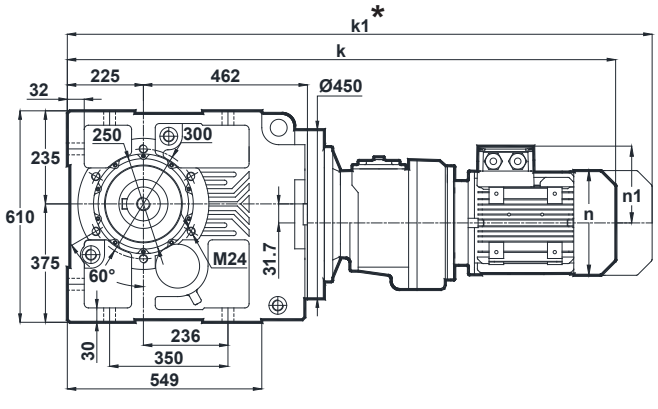
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

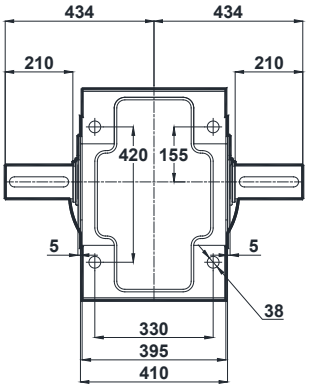
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

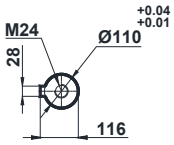
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR875.04
KR876.04

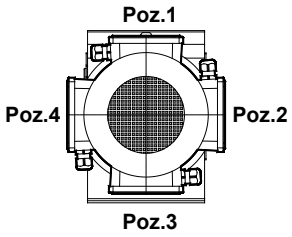






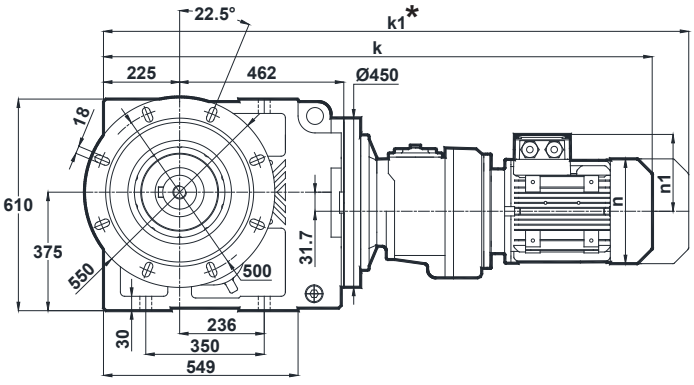
	71	80	90S	90L	100L	112M	132S	132M
k	1141.5	1175.5	1214.5	1214.5	1262.5	1286.5	1373	1373
k1	1232.5	1268.5	1318	1318	1371	1391	1495	1495
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181

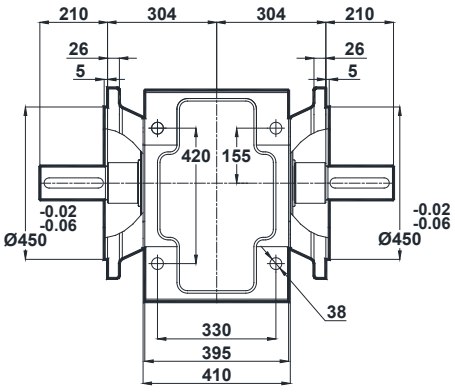
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

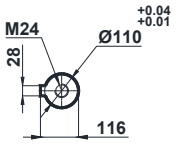


71-80-90-100-112-132
Tip / *Type* / Typ

KR875.05
KR876.05



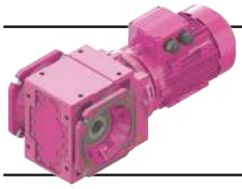




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	71	80	90S	90L	100L	112M	132S	132M
k	1141.5	1175.5	1214.5	1214.5	1262.5	1286.5	1373	1373
k1	1232.5	1268.5	1318	1318	1371	1391	1495	1495
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181

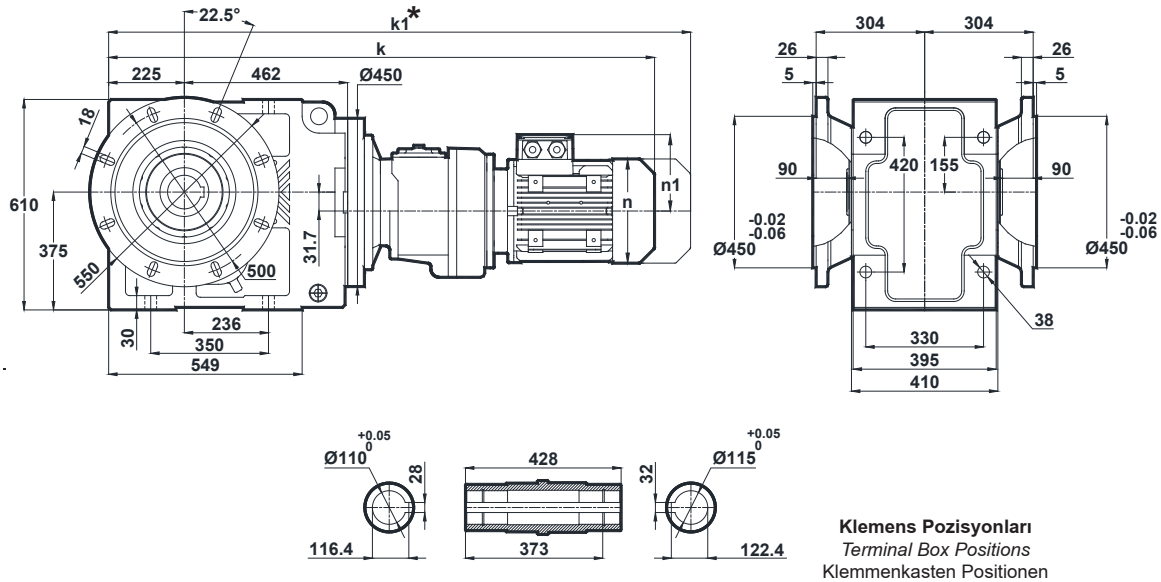
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



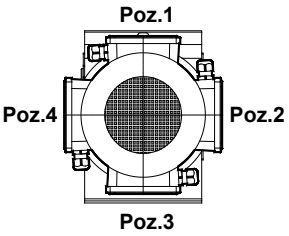
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR875.08
KR876.08



Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80-90-100-112-132
Tip / *Type* / Typ

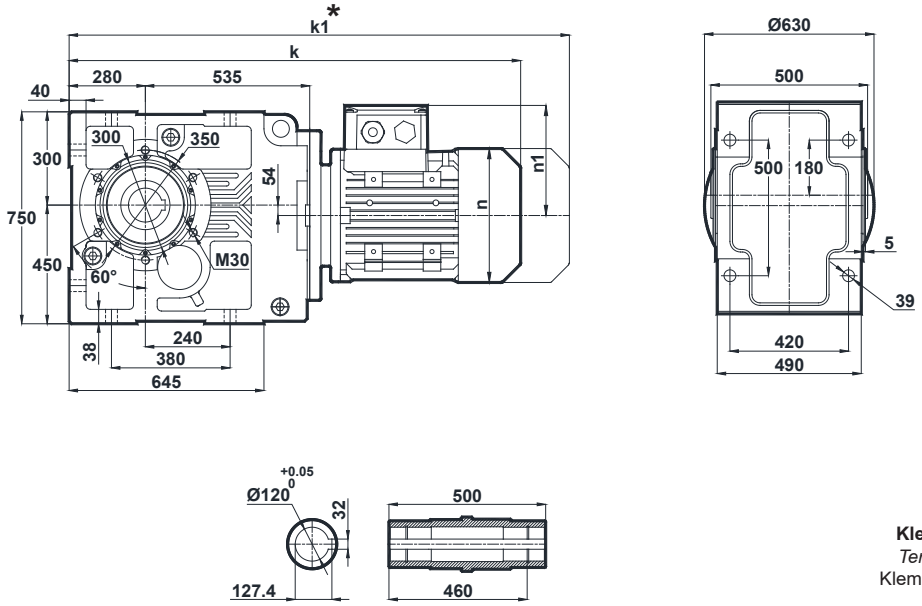
	71	80	90S	90L	100L	112M	132S	132M
k	1141.5	1175.5	1214.5	1214.5	1262.5	1286.5	1373	1373
k1	1232.5	1268.5	1318	1318	1371	1391	1495	1495
n	137	155	176	176	193	215	257	257
n1	112	123	132	132	149	161	181	181

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

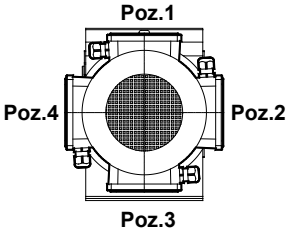
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR973.00



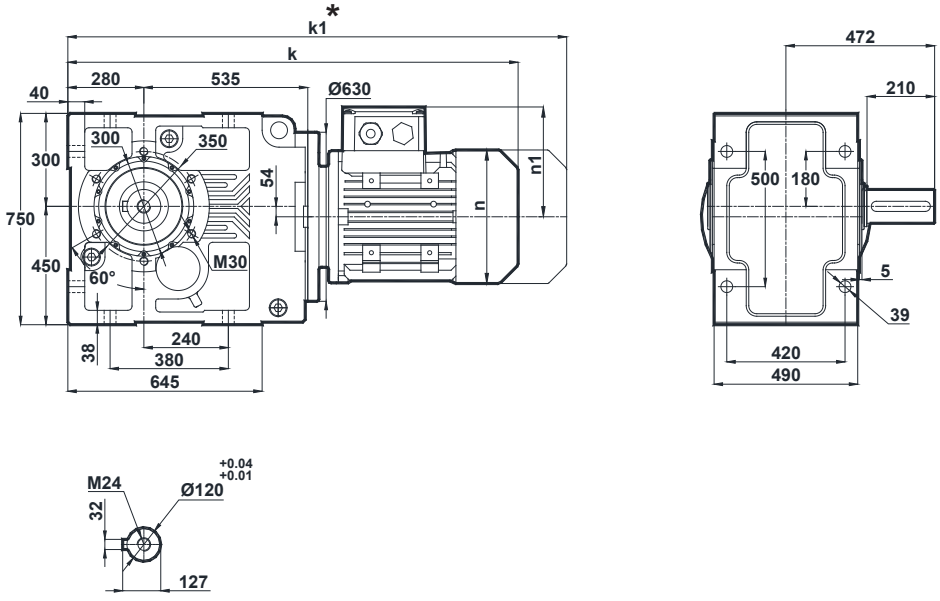
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M
k	1307.5	1307.5	1379.5	1379.5	1432	1490	1490	1571.5	1665	1665	1773.5	1773.5
k1	1455.5	1455.5	1538	1538	1614	1672.5	1672.5	1729	1863	1863	-	-
n	316	316	348	348	396	438	438	481	547	547	614	614
n1	224	224	250	250	287	316	316	335	402	402	510	510

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



160-180-200-225-250-280-315
Tip / *Type* / Typ

KR973.01



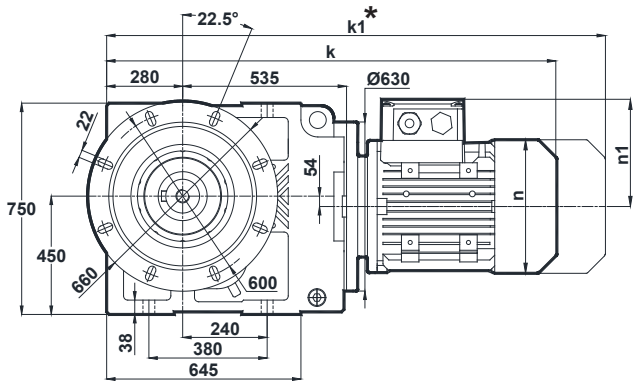
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M
k	1307.5	1307.5	1379.5	1379.5	1432	1490	1490	1571.5	1665	1665	1773.5	1773.5
k1	1455.5	1455.5	1538	1538	1614	1672.5	1672.5	1729	1863	1863	-	-
n	316	316	348	348	396	438	438	481	547	547	614	614
n1	224	224	250	250	287	316	316	335	402	402	510	510

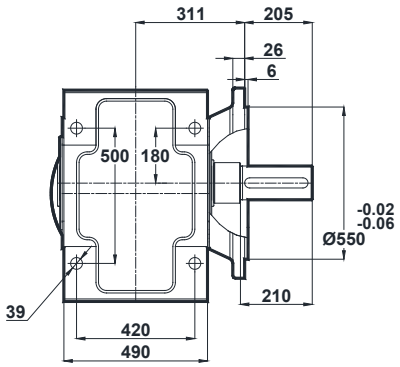
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

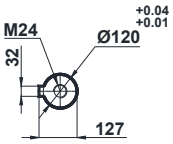
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR973.02

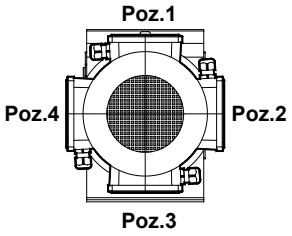






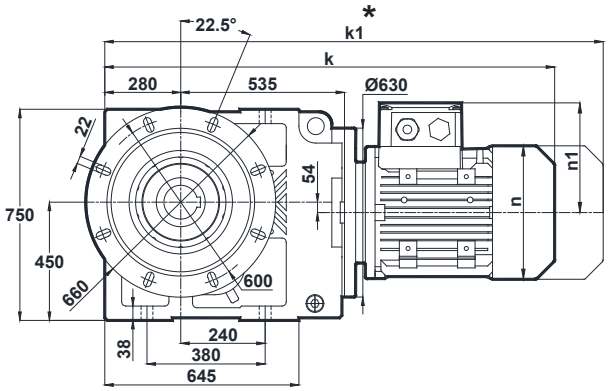
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M
k	1307.5	1307.5	1379.5	1379.5	1432	1490	1490	1571.5	1665	1665	1773.5	1773.5
k1	1455.5	1455.5	1538	1538	1614	1672.5	1672.5	1729	1863	1863	-	-
n	316	316	348	348	396	438	438	481	547	547	614	614
n1	224	224	250	250	287	316	316	335	402	402	510	510

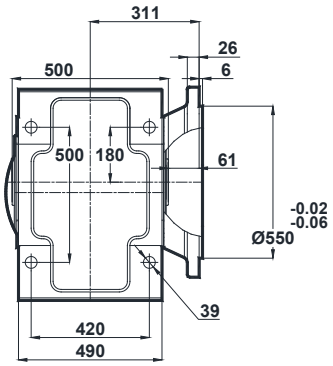
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

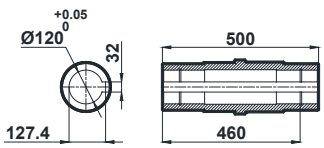


160-180-200-225-250-280-315
Tip / *Type* / Typ

KR973.03





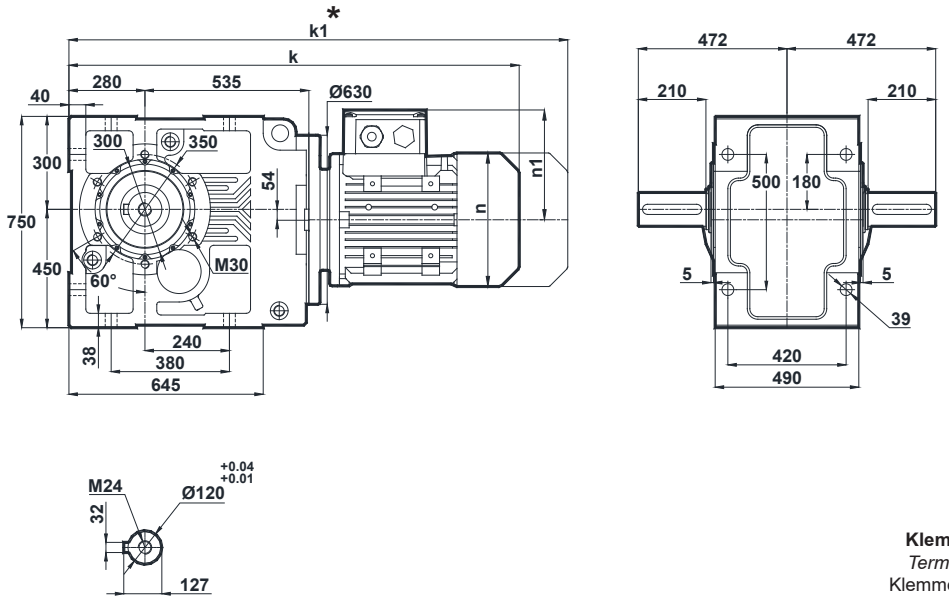


	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M
k	1307.5	1307.5	1379.5	1379.5	1432	1490	1490	1571.5	1665	1665	1773.5	1773.5
k1	1455.5	1455.5	1538	1538	1614	1672.5	1672.5	1729	1863	1863	-	-
n	316	316	348	348	396	438	438	481	547	547	614	614
n1	224	224	250	250	287	316	316	335	402	402	510	510

* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

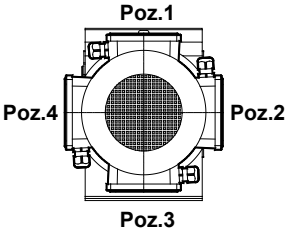
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR973.04



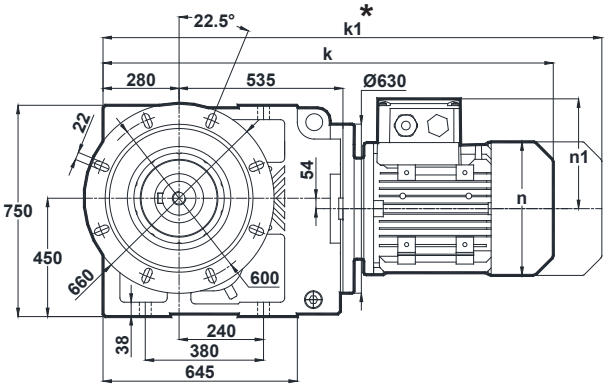
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M
k	1307.5	1307.5	1379.5	1379.5	1432	1490	1490	1571.5	1665	1665	1773.5	1773.5
k1	1455.5	1455.5	1538	1538	1614	1672.5	1672.5	1729	1863	1863	-	-
n	316	316	348	348	396	438	438	481	547	547	614	614
n1	224	224	250	250	287	316	316	335	402	402	510	510

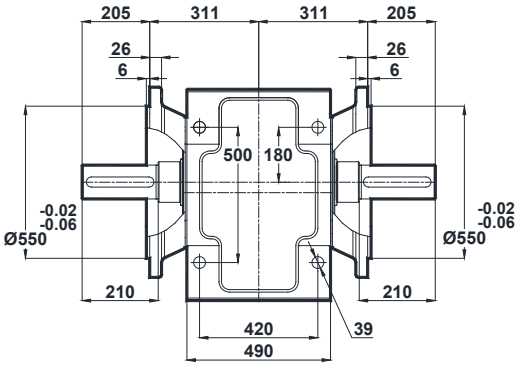
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

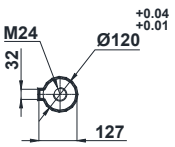


160-180-200-225-250-280-315
Tip / *Type* / Typ

KR973.05

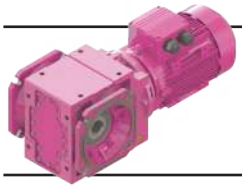






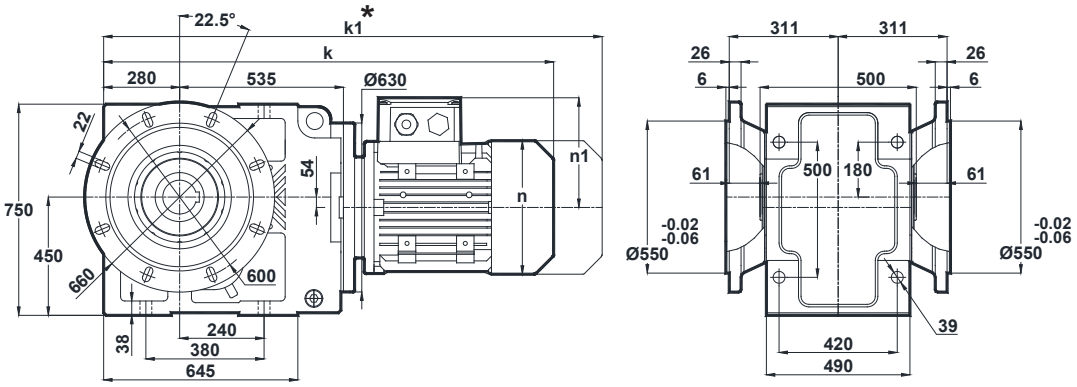
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M
k	1307.5	1307.5	1379.5	1379.5	1432	1490	1490	1571.5	1665	1665	1773.5	1773.5
k1	1455.5	1455.5	1538	1538	1614	1672.5	1672.5	1729	1863	1863	-	-
n	316	316	348	348	396	438	438	481	547	547	614	614
n1	224	224	250	250	287	316	316	335	402	402	510	510

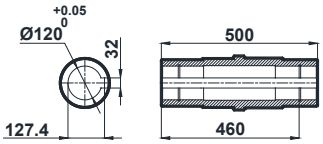
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

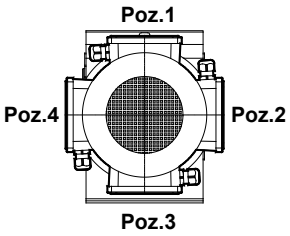
KR973.08





	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M
k	1307.5	1307.5	1379.5	1379.5	1432	1490	1490	1571.5	1665	1665	1773.5	1773.5
k1	1455.5	1455.5	1538	1538	1614	1672.5	1672.5	1729	1863	1863	-	-
n	316	316	348	348	396	438	438	481	547	547	614	614
n1	224	224	250	250	287	316	316	335	402	402	510	510

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

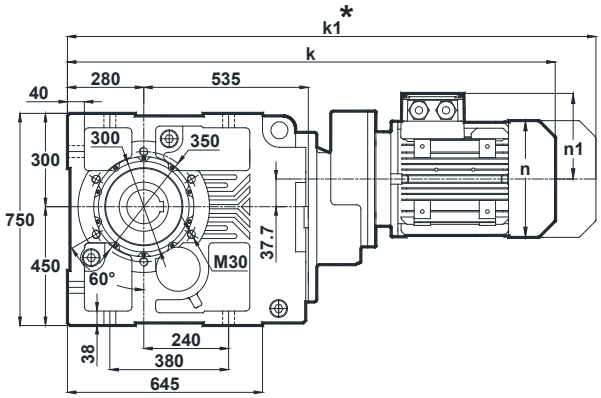


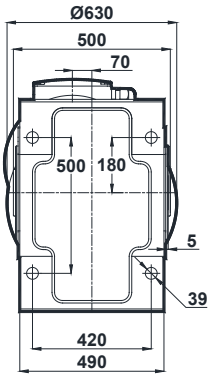
160-180-200-225-250-280-315
Tip / *Type* / Typ

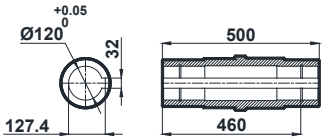
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR974.00

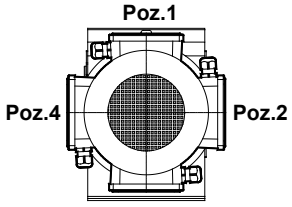






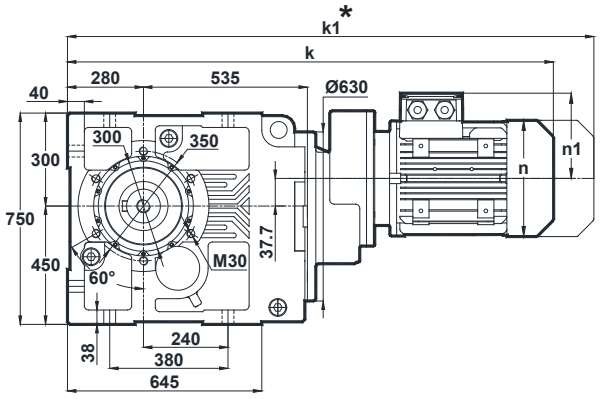
	100L	112M	132S	132M	160M	160L	180M	180L
k	1277	1301	1387.5	1387.5	1483.5	1483.5	1555.5	1555.5
k1	1385.5	1405.5	1517.5	1517.5	1631.5	1631.5	1714	1714
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250

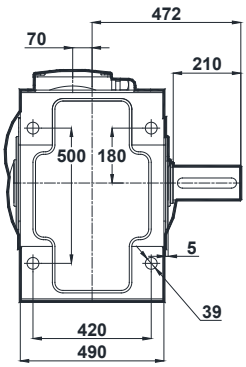
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

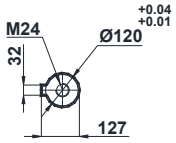


100-112-132-160-180
Tip / *Type* / Typ

KR974.01





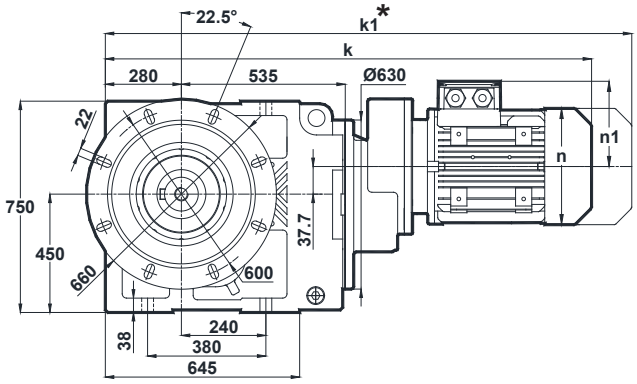


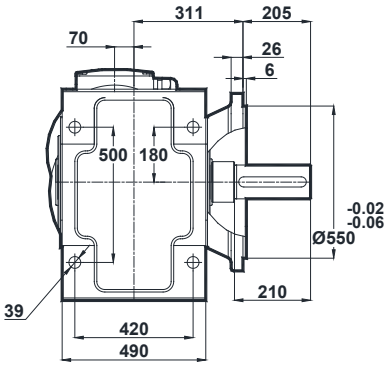
	100L	112M	132S	132M	160M	160L	180M	180L
k	1277	1301	1387.5	1387.5	1483.5	1483.5	1555.5	1555.5
k1	1385.5	1405.5	1517.5	1517.5	1631.5	1631.5	1714	1714
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250

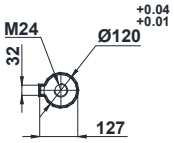
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR974.02

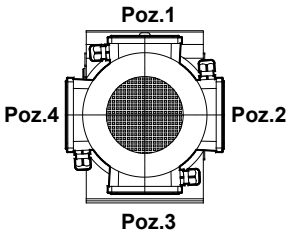






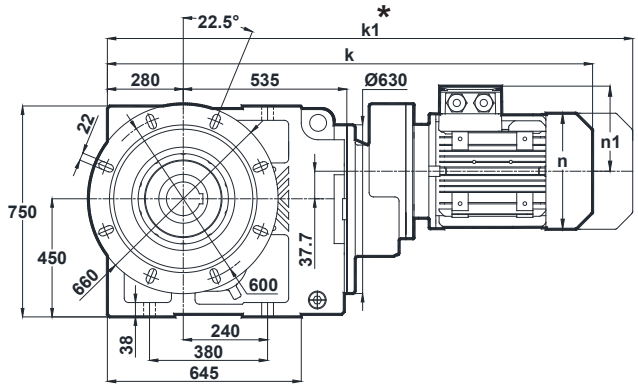
	100L	112M	132S	132M	160M	160L	180M	180L
k	1277	1301	1387.5	1387.5	1483.5	1483.5	1555.5	1555.5
k1	1385.5	1405.5	1517.5	1517.5	1631.5	1631.5	1714	1714
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250

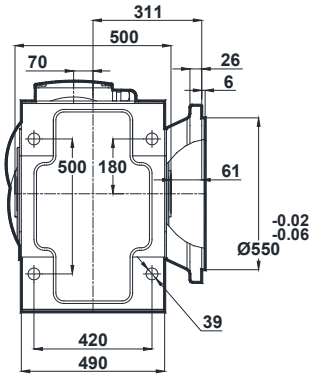
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

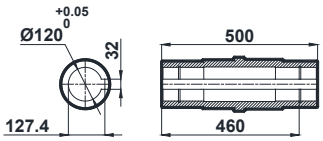


100-112-132-160-180
Tip / *Type* / Typ

KR974.03





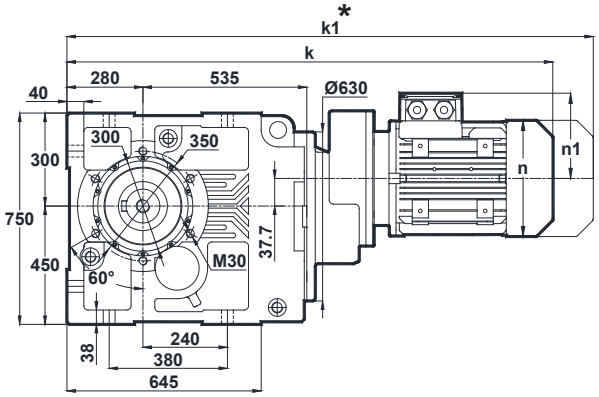


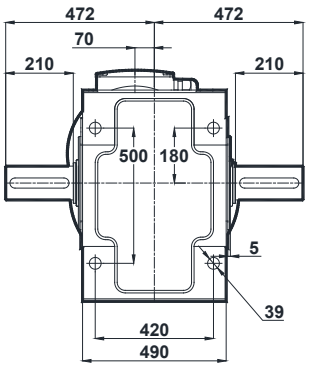
	100L	112M	132S	132M	160M	160L	180M	180L
k	1277	1301	1387.5	1387.5	1483.5	1483.5	1555.5	1555.5
k1	1385.5	1405.5	1517.5	1517.5	1631.5	1631.5	1714	1714
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250

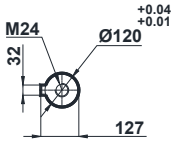
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR974.04

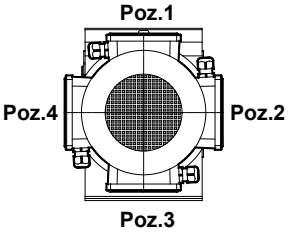






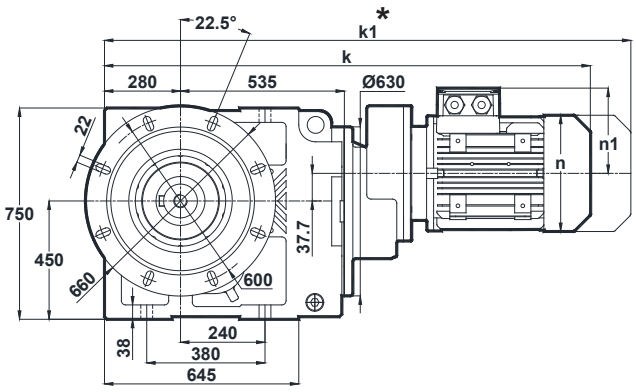
	100L	112M	132S	132M	160M	160L	180M	180L
k	1277	1301	1387.5	1387.5	1483.5	1483.5	1555.5	1555.5
k1	1385.5	1405.5	1517.5	1517.5	1631.5	1631.5	1714	1714
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250

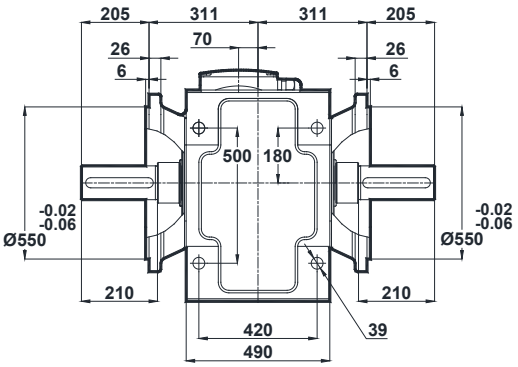
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

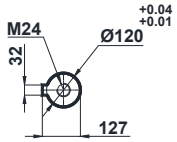


100-112-132-160-180
Tip / *Type* / Typ

KR974.05

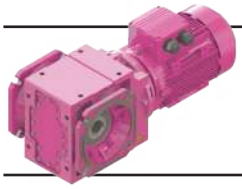






	100L	112M	132S	132M	160M	160L	180M	180L
k	1277	1301	1387.5	1387.5	1483.5	1483.5	1555.5	1555.5
k1	1385.5	1405.5	1517.5	1517.5	1631.5	1631.5	1714	1714
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250

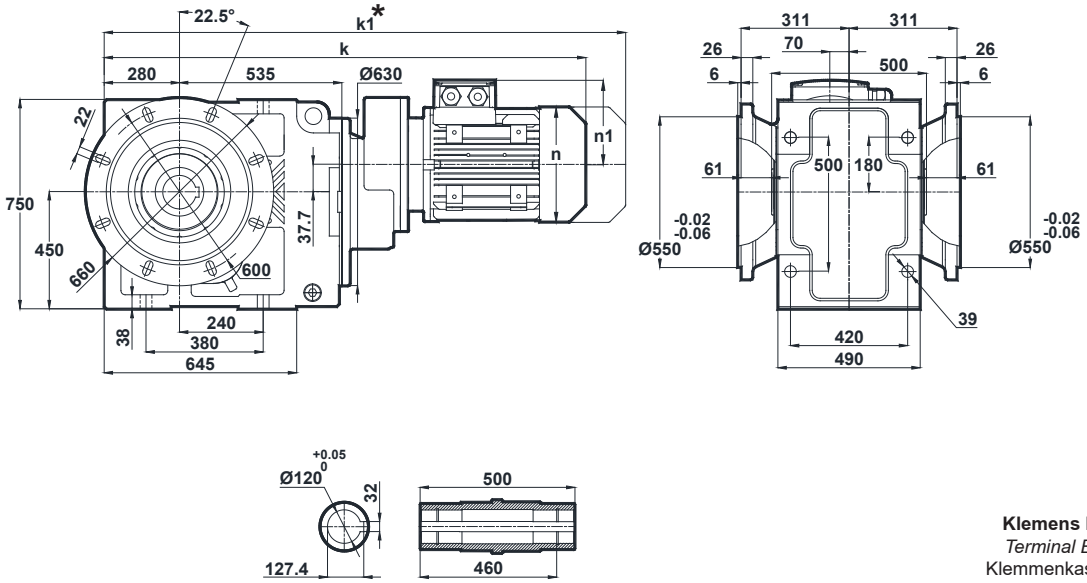
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

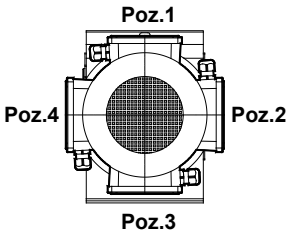
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR974.08



	100L	112M	132S	132M	160M	160L	180M	180L
k	1277	1301	1387.5	1387.5	1483.5	1483.5	1555.5	1555.5
k1	1385.5	1405.5	1517.5	1517.5	1631.5	1631.5	1714	1714
n	193	215	257	257	316	316	348	348
n1	149	161	181	181	224	224	250	250

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

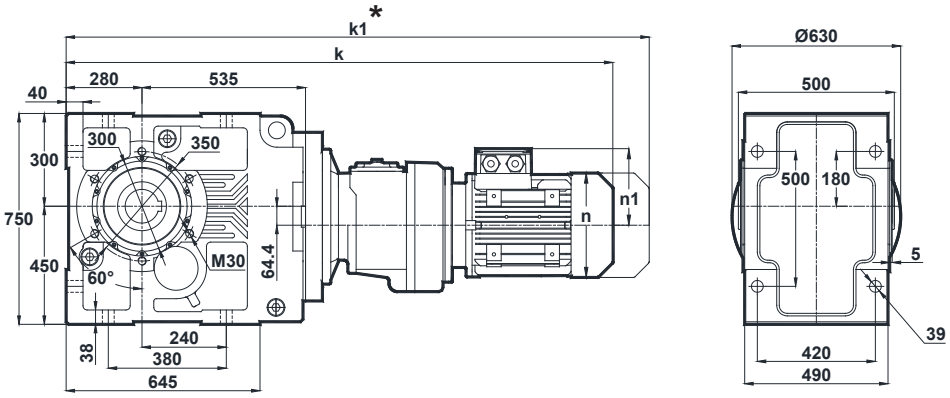


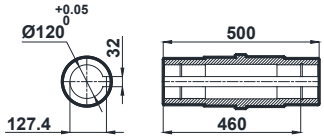
100-112-132-160-180
Tip / *Type* / Typ

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

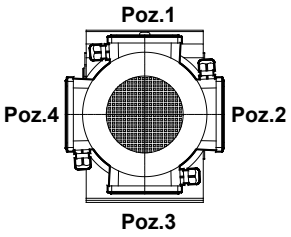
KR975.00
KR976.00





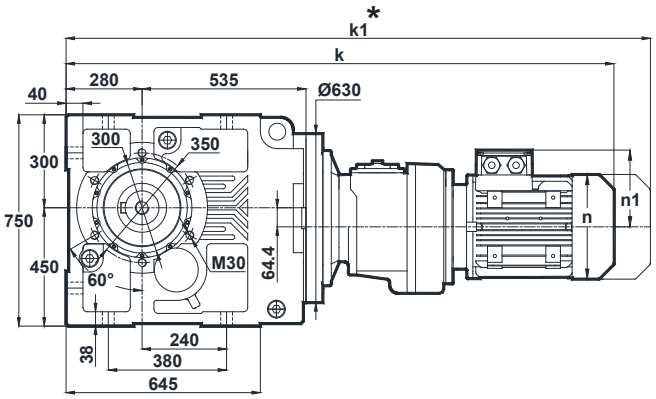
	80	90S	90L	100L	112M	132S	132M
k	1355.5	1394.5	1394.5	1439.5	1463.5	1548.5	1548.5
k1	1448.5	1498	1498	1548	1568	1678.5	1678.5
n	155	176	176	193	215	257	257
n1	123	132	132	149	161	181	181

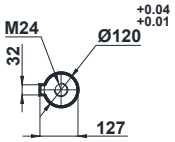
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



80-90-100-112-132
Tip / *Type* / Typ

KR975.01
KR976.01





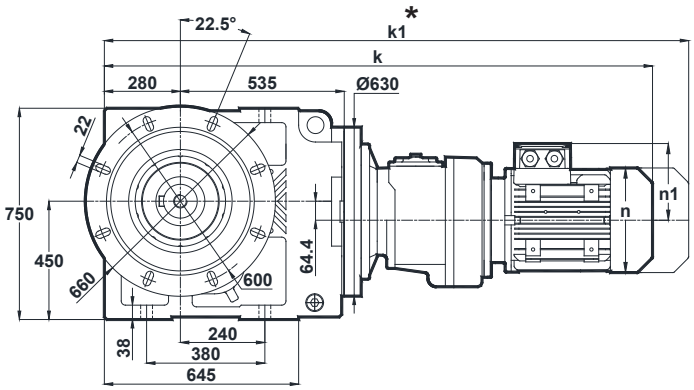
	80	90S	90L	100L	112M	132S	132M
k	1355.5	1394.5	1394.5	1439.5	1463.5	1548.5	1548.5
k1	1448.5	1498	1498	1548	1568	1678.5	1678.5
n	155	176	176	193	215	257	257
n1	123	132	132	149	161	181	181

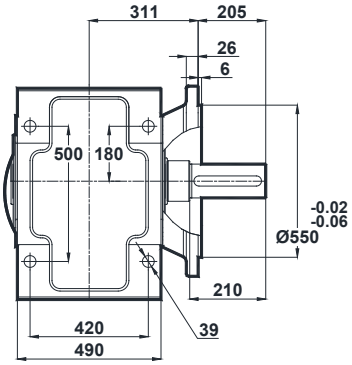
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

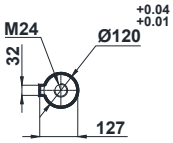
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR975.02
KR976.02

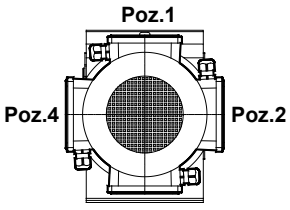






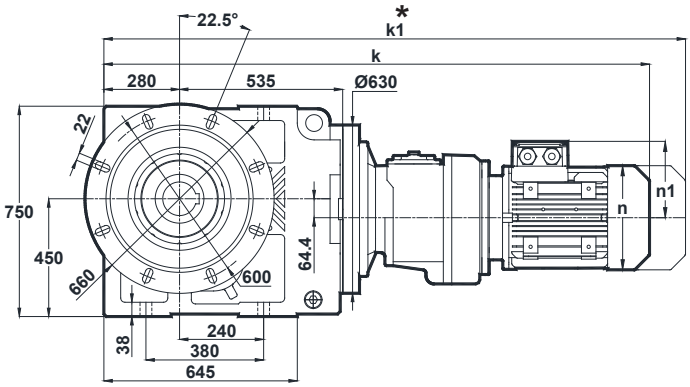
	80	90S	90L	100L	112M	132S	132M
k	1355.5	1394.5	1394.5	1439.5	1463.5	1548.5	1548.5
k1	1448.5	1498	1498	1548	1568	1678.5	1678.5
n	155	176	176	193	215	257	257
n1	123	132	132	149	161	181	181

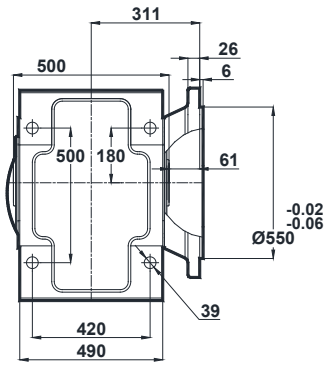
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

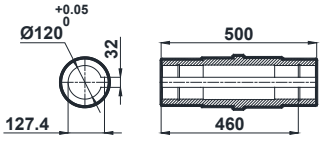


80-90-100-112-132
Tip / *Type* / Typ

KR975.03
KR976.03





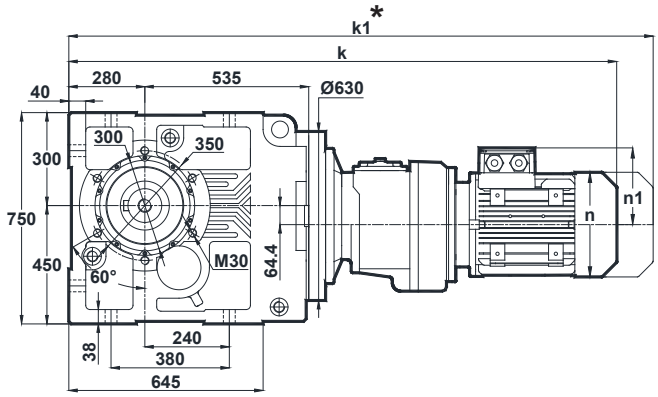


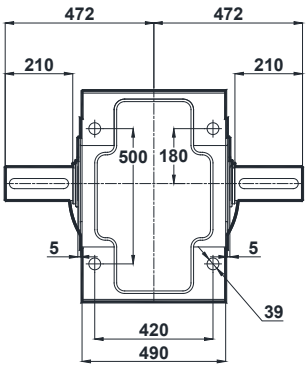
	80	90S	90L	100L	112M	132S	132M
k	1355.5	1394.5	1394.5	1439.5	1463.5	1548.5	1548.5
k1	1448.5	1498	1498	1548	1568	1678.5	1678.5
n	155	176	176	193	215	257	257
n1	123	132	132	149	161	181	181

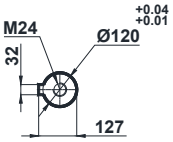
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR975.04
KR976.04

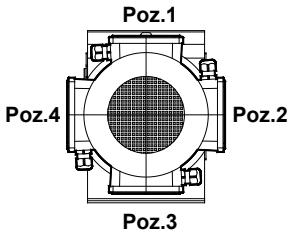






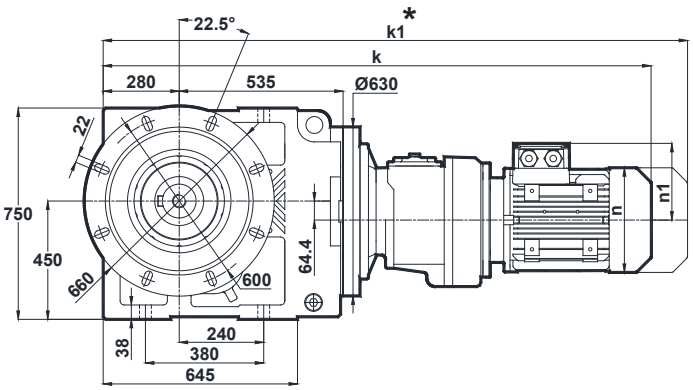
	80	90S	90L	100L	112M	132S	132M
k	1355.5	1394.5	1394.5	1439.5	1463.5	1548.5	1548.5
k1	1448.5	1498	1498	1548	1568	1678.5	1678.5
n	155	176	176	193	215	257	257
n1	123	132	132	149	161	181	181

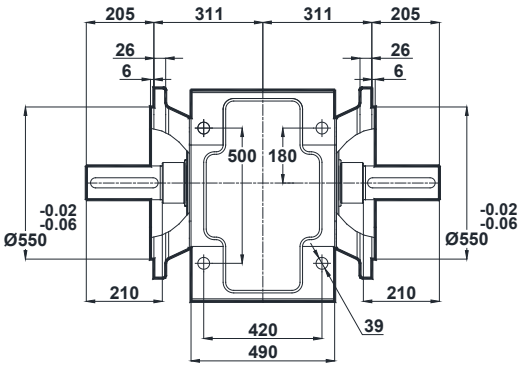
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

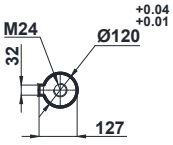


80-90-100-112-132
Tip / *Type* / Typ

KR975.05
KR976.05

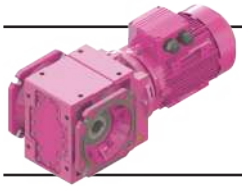






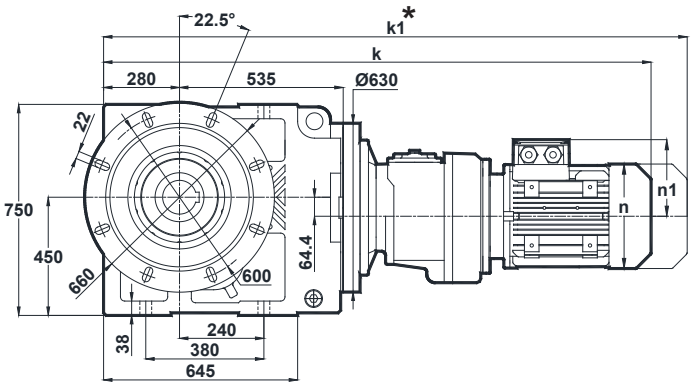
	80	90S	90L	100L	112M	132S	132M
k	1355.5	1394.5	1394.5	1439.5	1463.5	1548.5	1548.5
k1	1448.5	1498	1498	1548	1568	1678.5	1678.5
n	155	176	176	193	215	257	257
n1	123	132	132	149	161	181	181

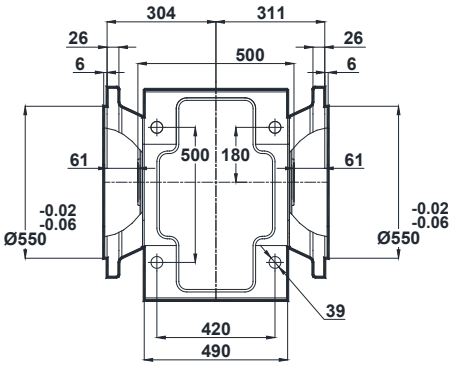
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

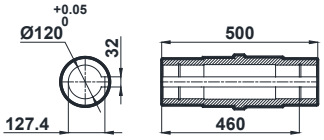


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KR975.08
KR976.08

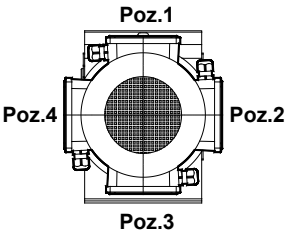






	80	90S	90L	100L	112M	132S	132M
k	1355.5	1394.5	1394.5	1439.5	1463.5	1548.5	1548.5
k1	1448.5	1498	1498	1548	1568	1678.5	1678.5
n	155	176	176	193	215	257	257
n1	123	132	132	149	161	181	181

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

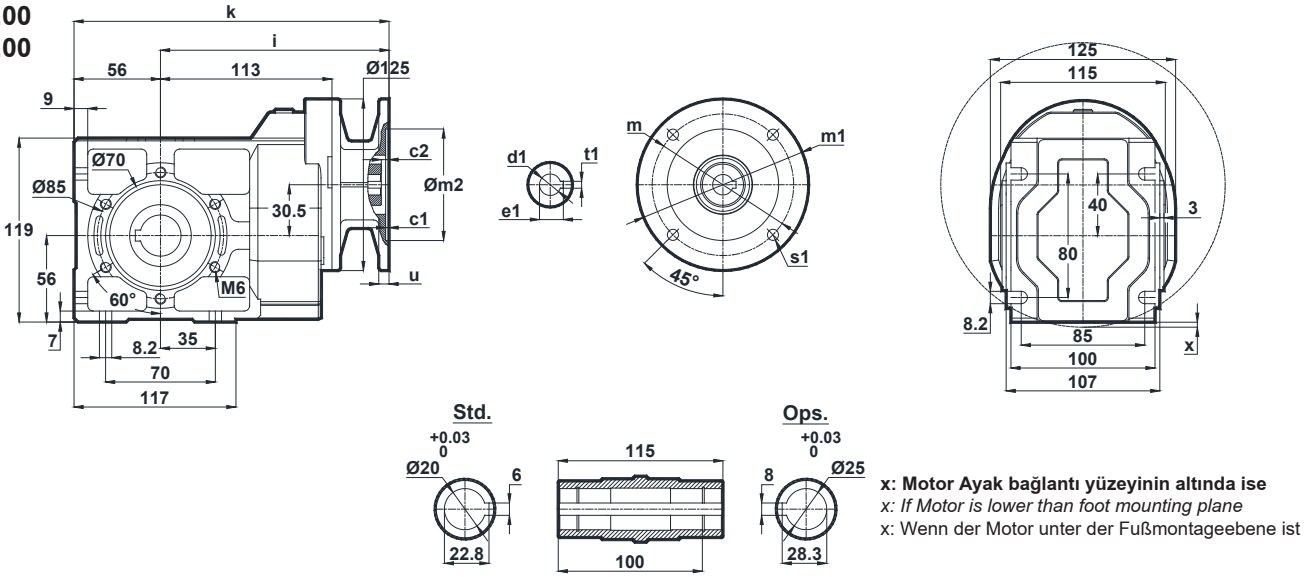


80-90-100-112-132
Tip / *Type* / Typ

***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

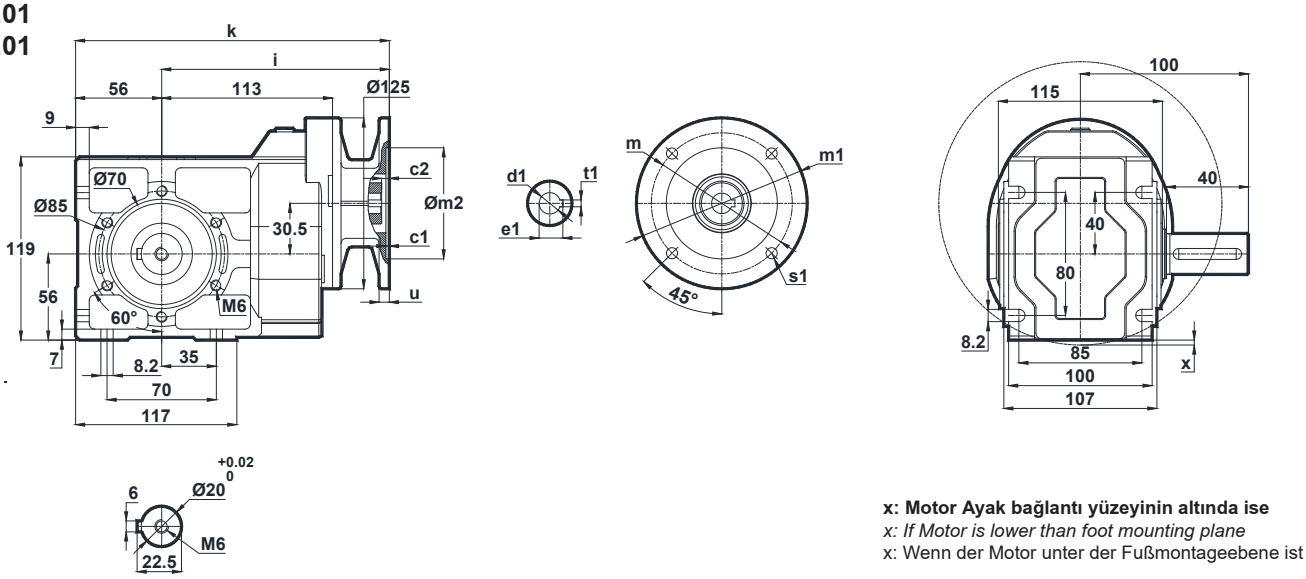
KN002.00
KN003.00



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	156	10	212	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	157.5	12 10	213.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	172.5	12	228.5	19	6	21.8	13.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	172.5	12	228.5	24	8	27.3	13.5 -

KN002.01
KN003.01



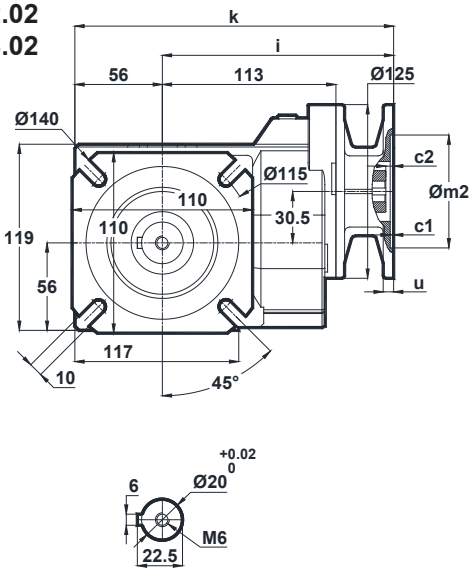
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

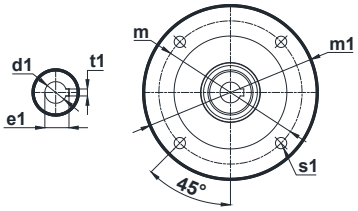
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	156	10	212	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	157.5	12 10	213.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	172.5	12	228.5	19	6	21.8	13.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	172.5	12	228.5	24	8	27.3	13.5 -

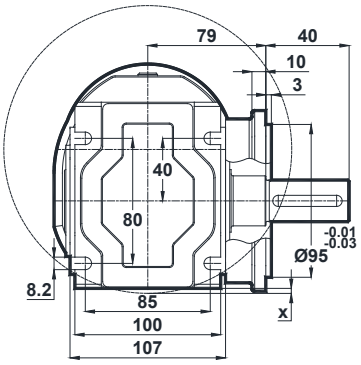
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN002.02
KN003.02





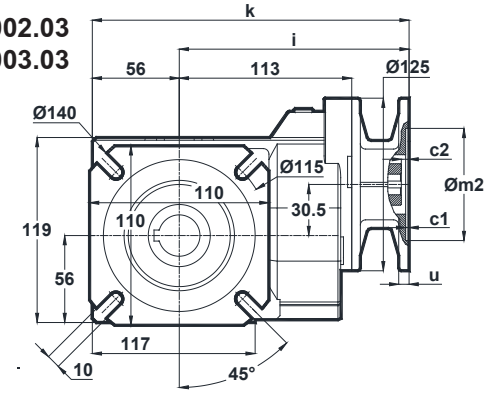


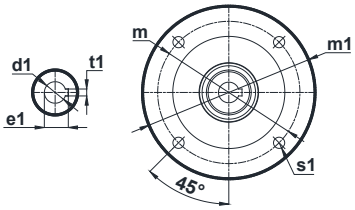
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

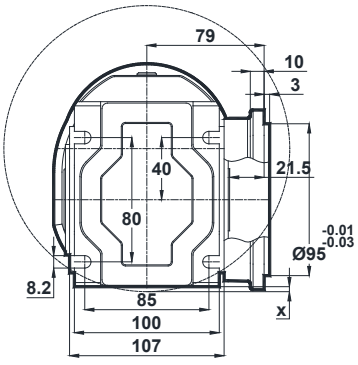
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

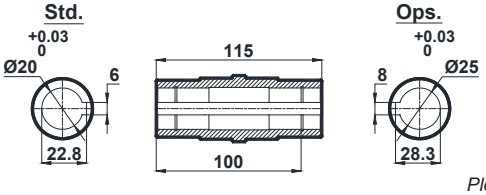
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	156	10	212	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	157.5	12 10	213.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	172.5	12	228.5	19	6	21.8	13.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	172.5	12	228.5	24	8	27.3	13.5 -

KN002.03
KN003.03









x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

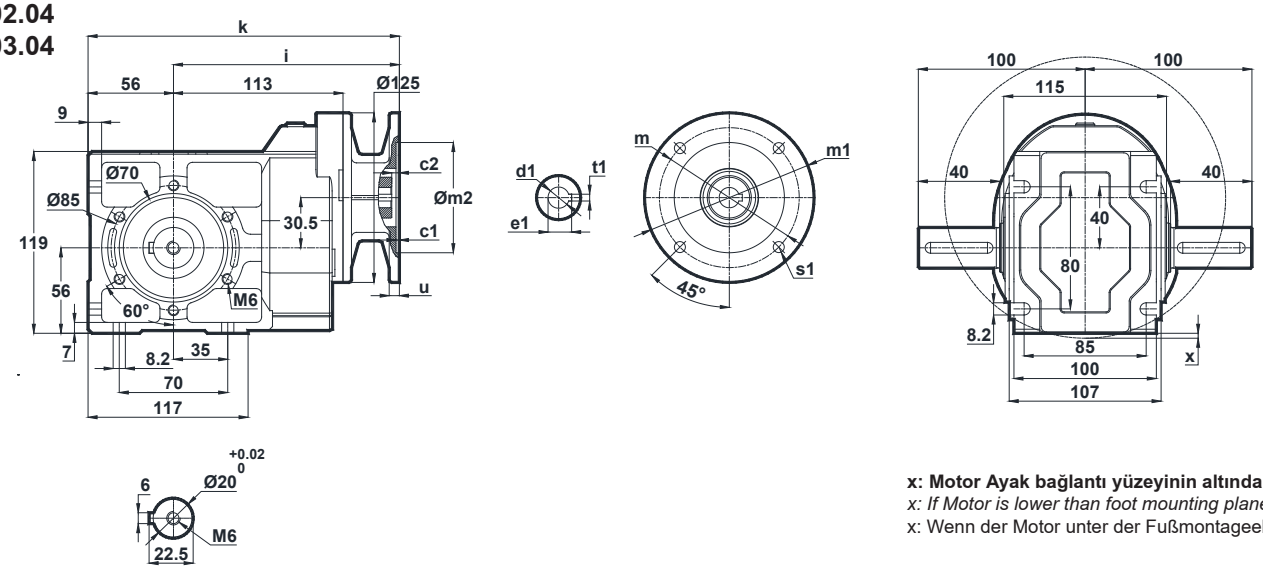
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	156	10	212	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	157.5	12 10	213.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	172.5	12	228.5	19	6	21.8	13.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	172.5	12	228.5	24	8	27.3	13.5 -

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

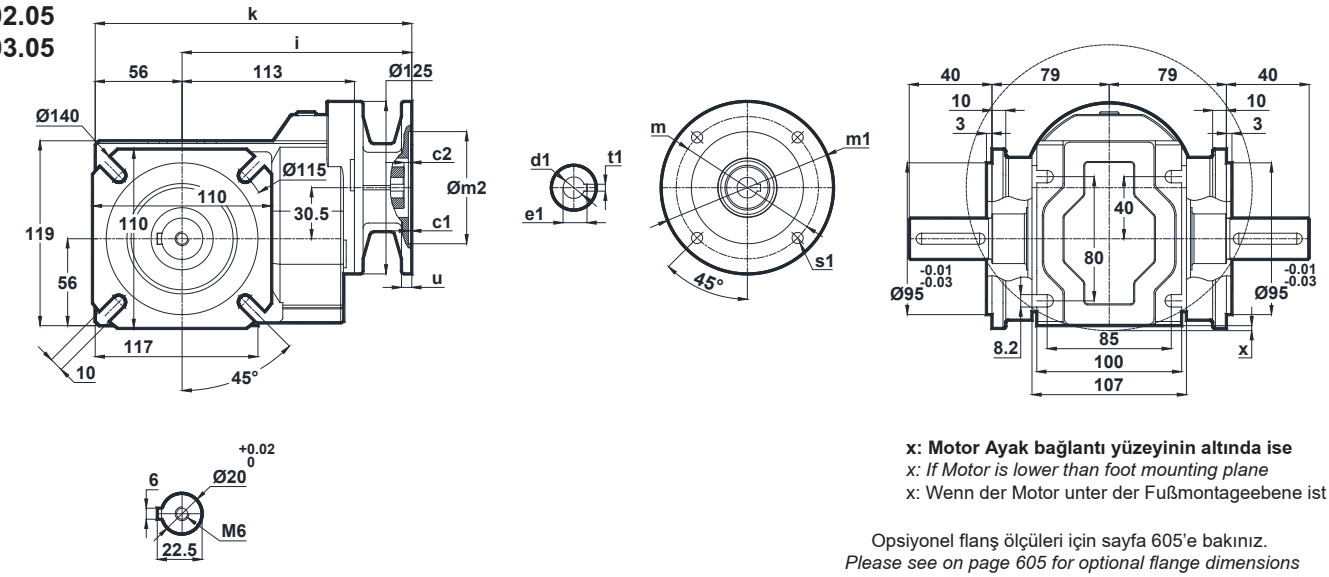
KN002.04
KN003.04



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	156	10	212	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	157.5	12 10	213.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	172.5	12	228.5	19	6	21.8	13.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	172.5	12	228.5	24	8	27.3	13.5 -

KN002.05
KN003.05



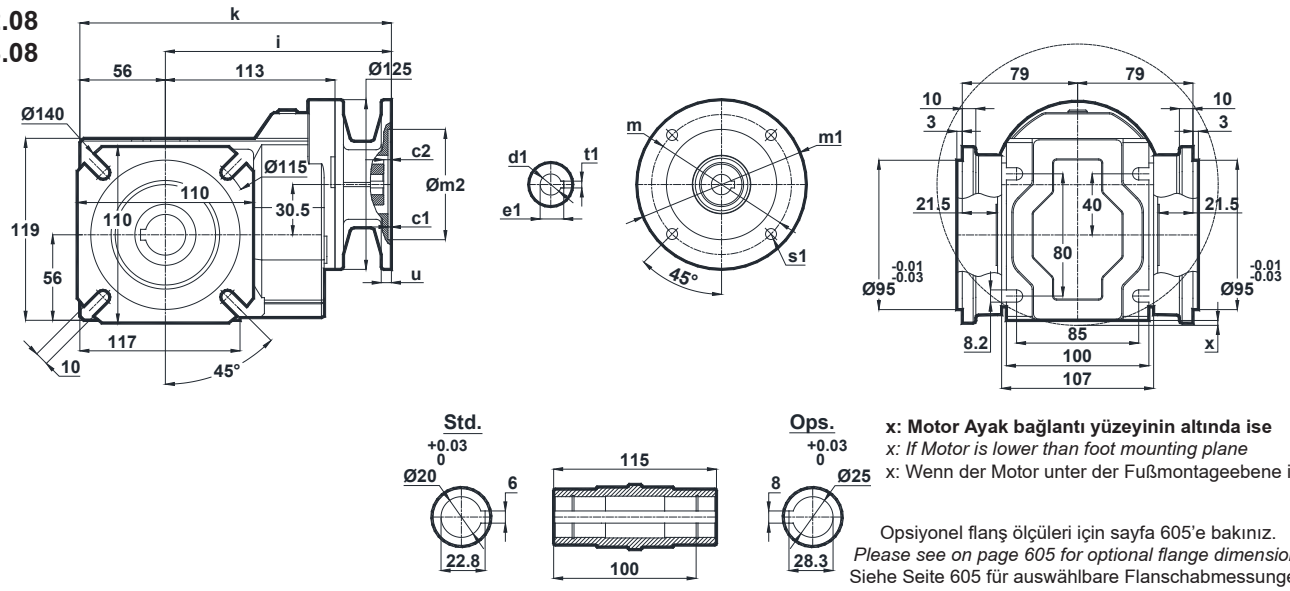
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	156	10	212	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	157.5	12 10	213.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	172.5	12	228.5	19	6	21.8	13.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	172.5	12	228.5	24	8	27.3	13.5 -

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN002.08
KN003.08



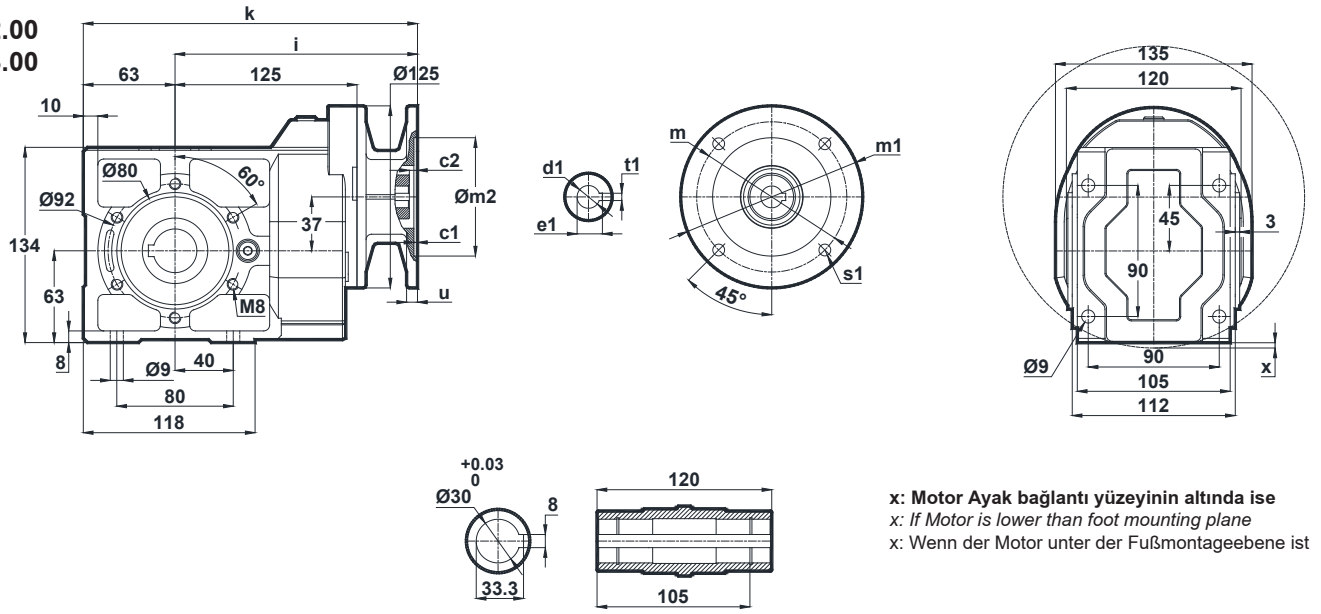
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	156	10	212	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	157.5	12 10	213.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	172.5	12	228.5	19	6	21.8	13.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	172.5	12	228.5	24	8	27.3	13.5 -

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

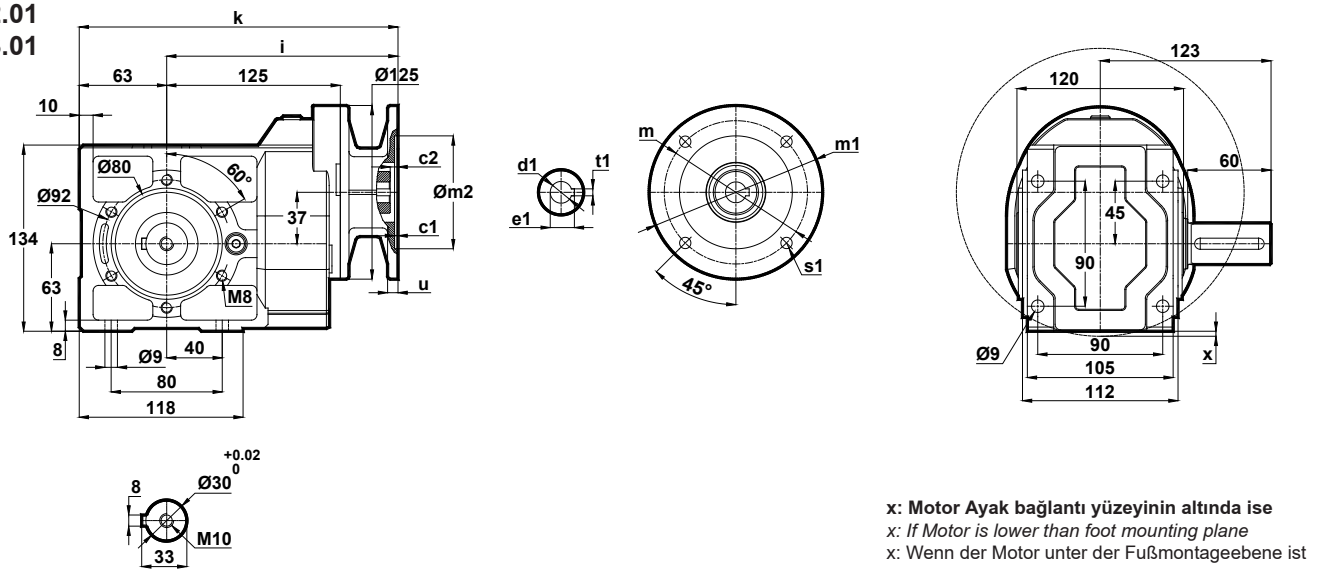
KN102.00
KN103.00



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	168	10	231	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	169.5	12 10	232.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	184.5	12	247.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	184.5	12	247.5	24	8	27.3	-

KN102.01
KN103.01

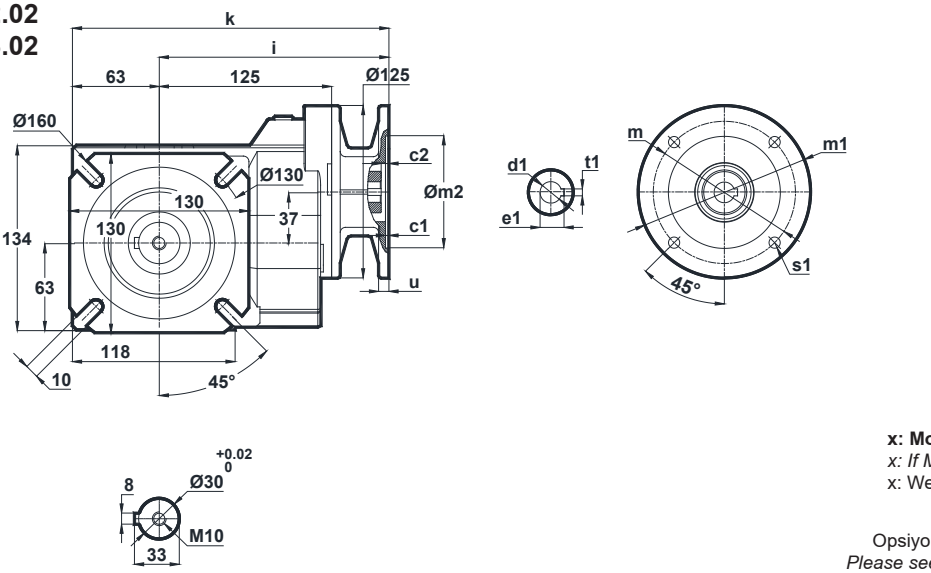


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	168	10	231	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	169.5	12 10	232.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	184.5	12	247.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	184.5	12	247.5	24	8	27.3	-

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN102.02
KN103.02

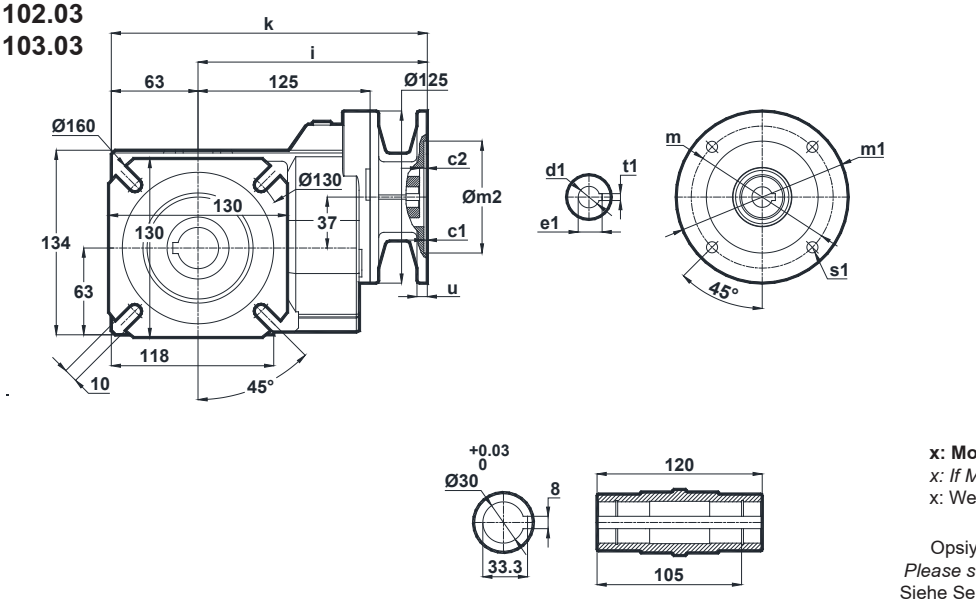


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	168	10	231	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	169.5	12 10	232.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	184.5	12	247.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	184.5	12	247.5	24	8	27.3	-

KN102.03
KN103.03



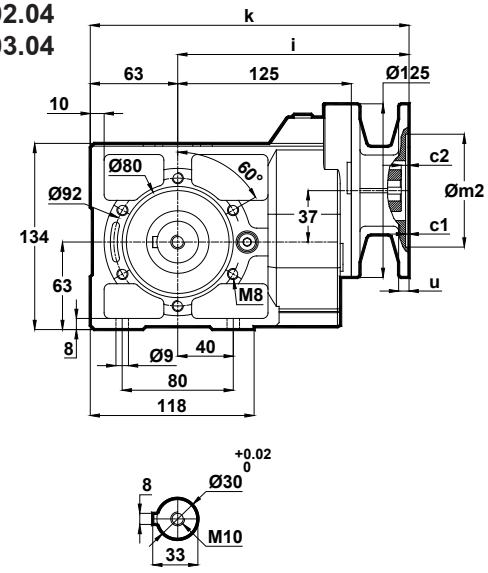
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

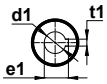
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

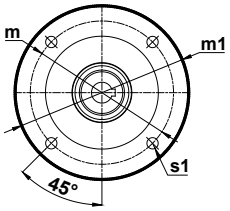
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	168	10	231	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	169.5	12 10	232.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	184.5	12	247.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	184.5	12	247.5	24	8	27.3	-

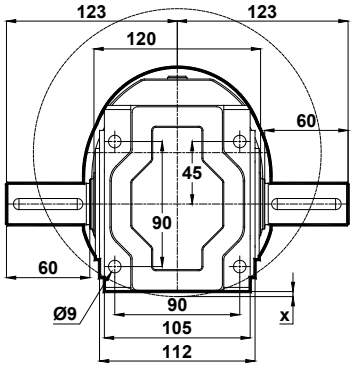
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN102.04
KN103.04





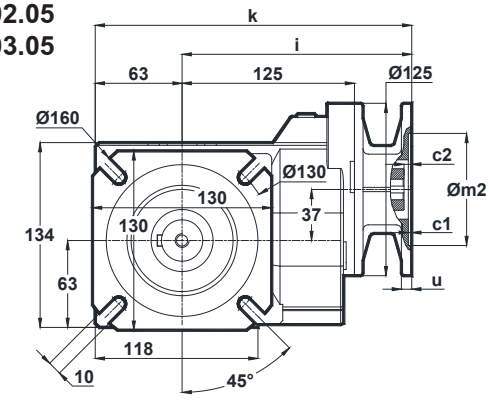


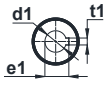


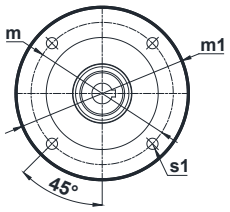
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

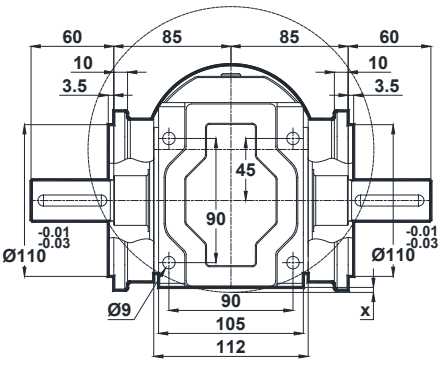
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	168	10	231	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	169.5	12 10	232.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	184.5	12	247.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	184.5	12	247.5	24	8	27.3	-

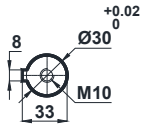
KN102.05
KN103.05











x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

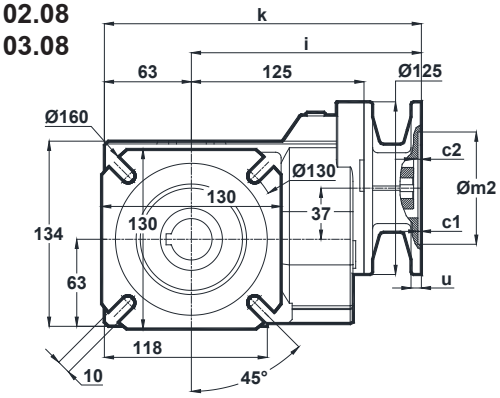
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

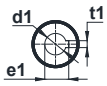
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	168	10	231	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	169.5	12 10	232.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	184.5	12	247.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	184.5	12	247.5	24	8	27.3	-

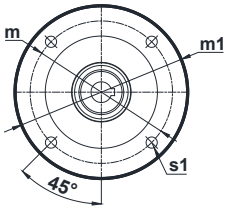
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

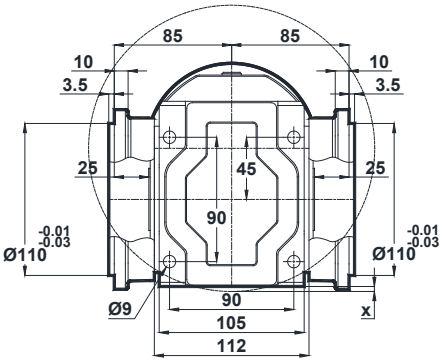
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

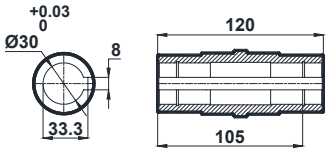
KN102.08
KN103.08







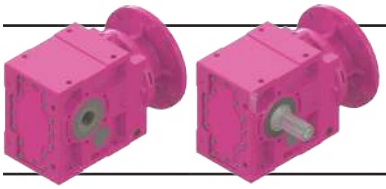




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

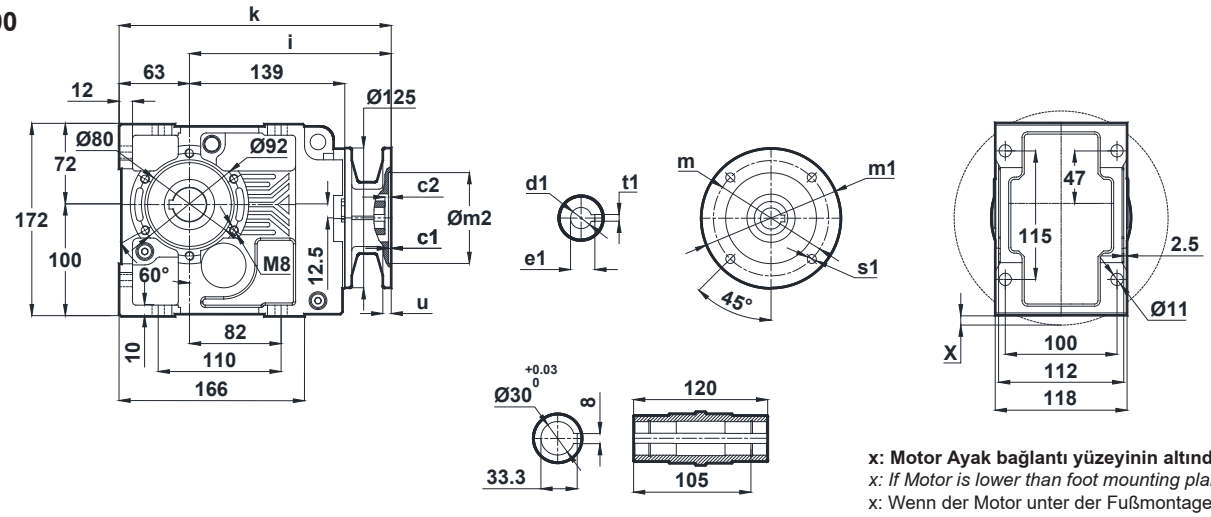
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	168	10	231	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	169.5	12 10	232.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	184.5	12	247.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	184.5	12	247.5	24	8	27.3	-



Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

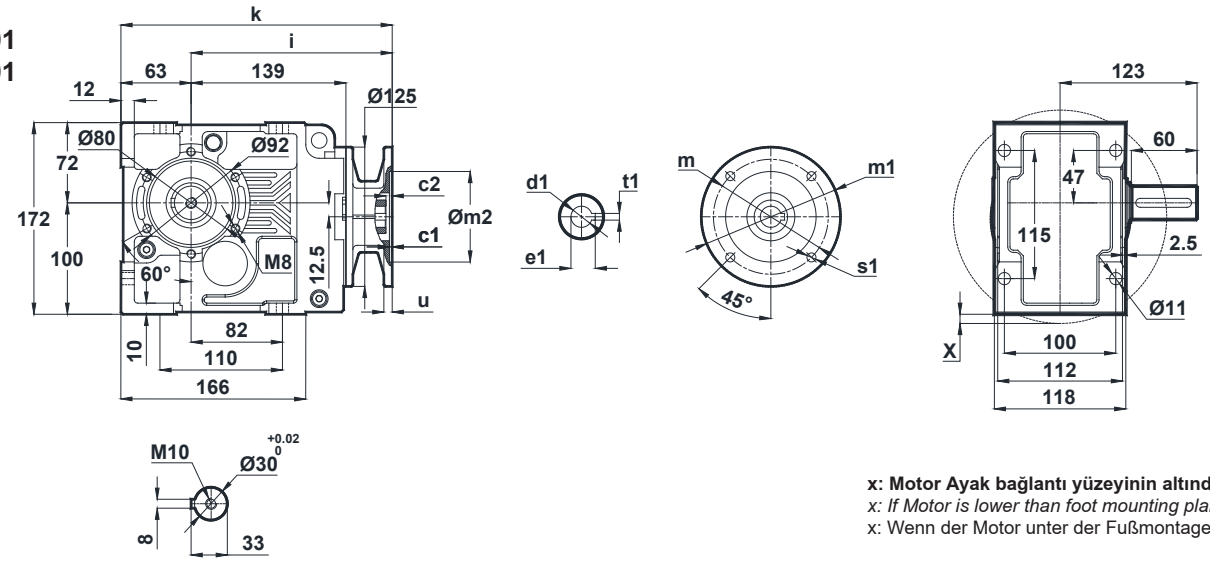
KN172.00
KN173.00



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	182	10	245	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	183.5	12 10	246.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	198.5	12	261.5	19	6	21.8	12.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	198.5	12	261.5	24	8	27.3	12.5 -
100-112/B5 **100-112/B14**	4.5 4	5 5.5	15 9	215 130	250 160	180 110	209.5	12	272.5	28	8	31.3	37.5 -

KN172.01
KN173.01



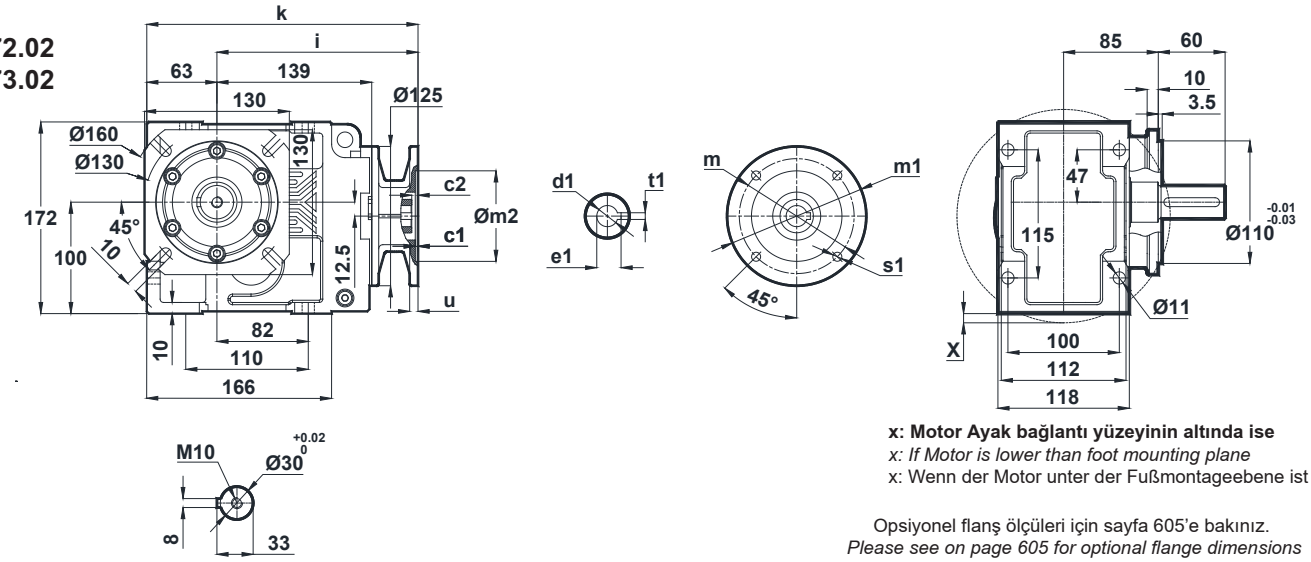
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	182	10	245	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	183.5	12 10	246.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	198.5	12	261.5	19	6	21.8	12.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	198.5	12	261.5	24	8	27.3	12.5 -
100-112/B5 **100-112/B14**	4.5 4	5 5.5	15 9	215 130	250 160	180 110	209.5	12	272.5	28	8	31.3	37.5 -

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN172.02
KN173.02

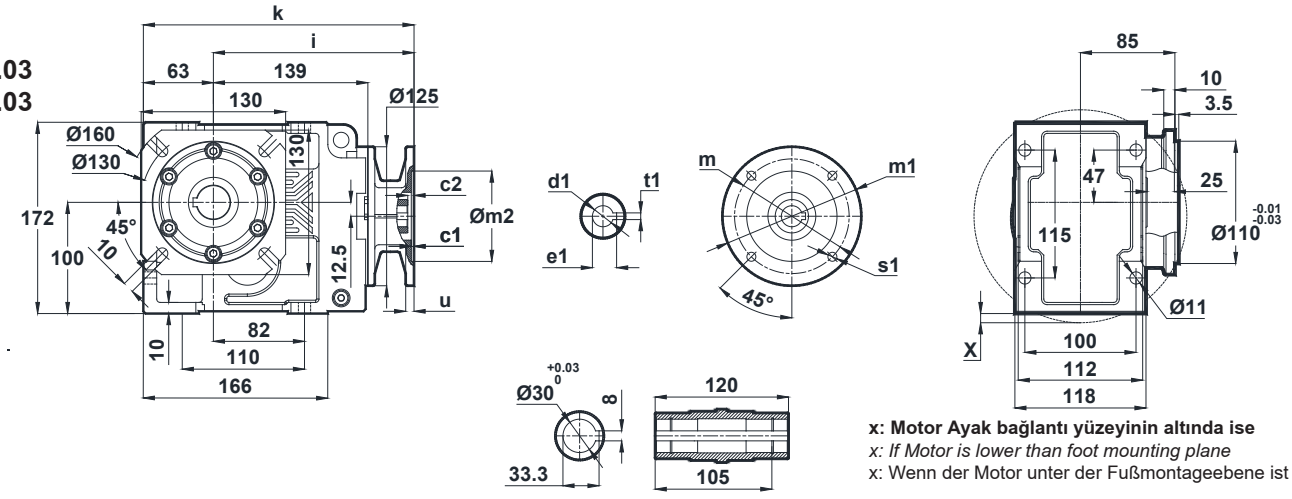


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	182	10	245	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	183.5	12 10	246.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	198.5	12	261.5	19	6	21.8	12.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	198.5	12	261.5	24	8	27.3	12.5 -
100-112/B5 **100-112/B14**	4.5 4	5 5.5	15 9	215 130	250 160	180 110	209.5	12	272.5	28	8	31.3	37.5 -

KN172.03
KN173.03



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

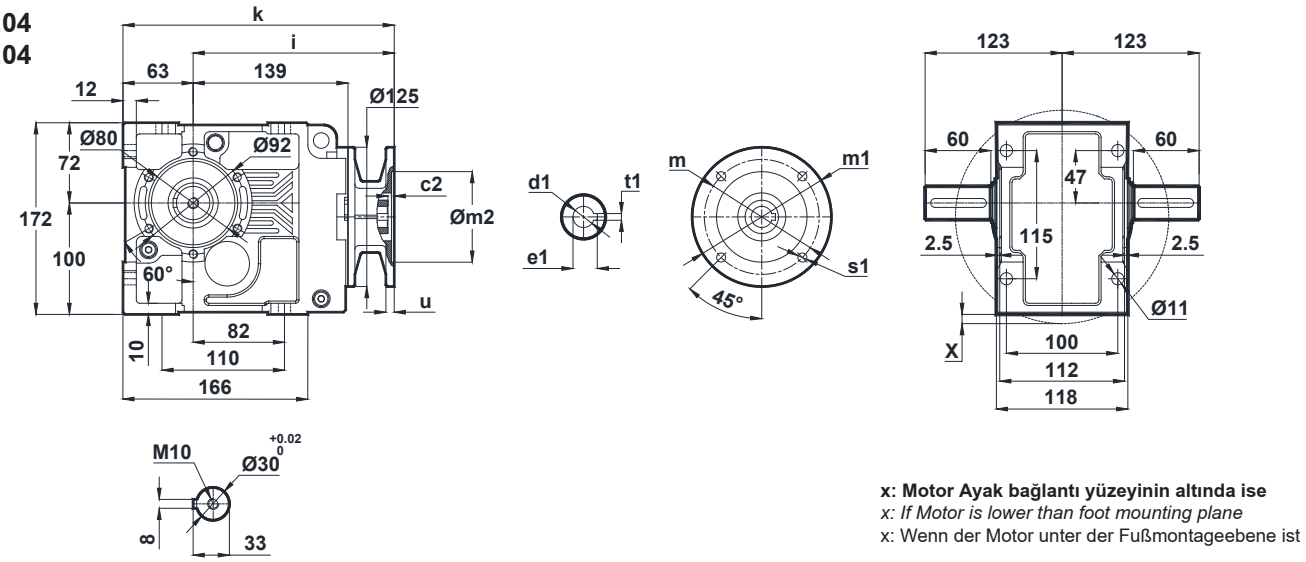
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	182	10	245	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	183.5	12 10	246.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	198.5	12	261.5	19	6	21.8	12.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	198.5	12	261.5	24	8	27.3	12.5 -
100-112/B5 **100-112/B14**	4.5 4	5 5.5	15 9	215 130	250 160	180 110	209.5	12	272.5	28	8	31.3	37.5 -

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

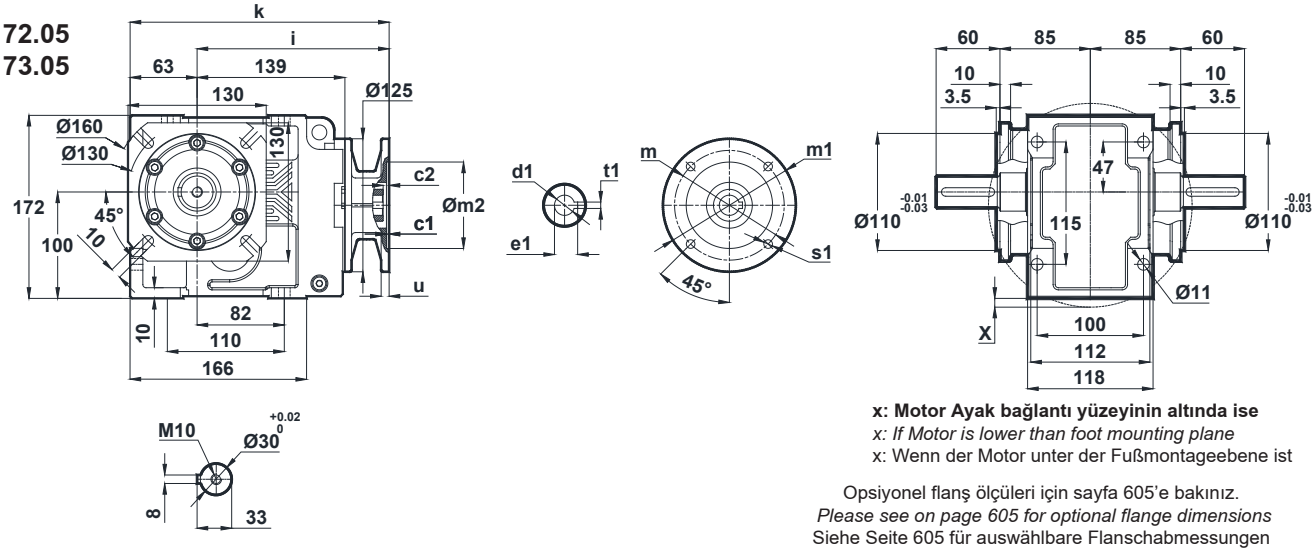
KN172.04
KN173.04



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	182	10	245	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	183.5	12 10	246.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	198.5	12	261.5	19	6	21.8	12.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	198.5	12	261.5	24	8	27.3	12.5 -
100-112/B5 **100-112/B14**	4.5 4	5 5.5	15 9	215 130	250 160	180 110	209.5	12	272.5	28	8	31.3	37.5 -

KN172.05
KN173.05



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

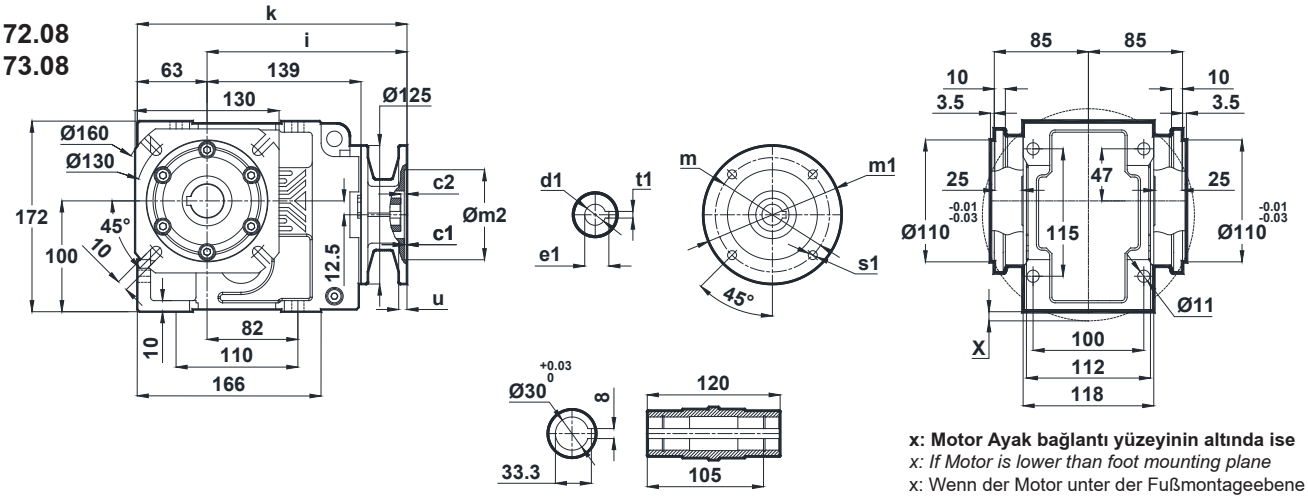
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	182	10	245	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	183.5	12 10	246.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	198.5	12	261.5	19	6	21.8	12.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	198.5	12	261.5	24	8	27.3	12.5 -
100-112/B5 **100-112/B14**	4.5 4	5 5.5	15 9	215 130	250 160	180 110	209.5	12	272.5	28	8	31.3	37.5 -

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

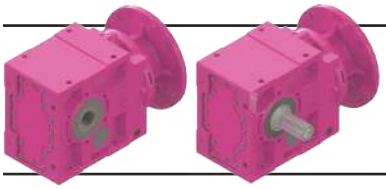
KN172.08
KN173.08



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

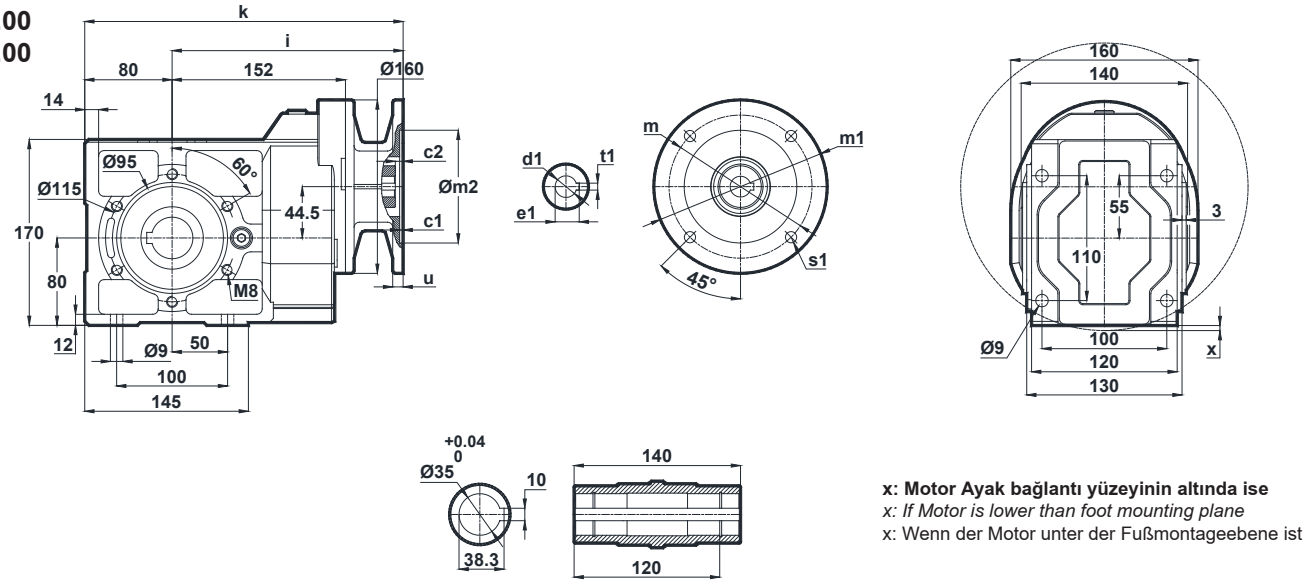
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	182	10	245	11	4	12.8	-
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	183.5	12 10	246.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	198.5	12	261.5	19	6	21.8	12.5 -
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	198.5	12	261.5	24	8	27.3	12.5 -
100-112/B5 **100-112/B14**	4.5 4	5 5.5	15 9	215 130	250 160	180 110	209.5	12	272.5	28	8	31.3	37.5 -



Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

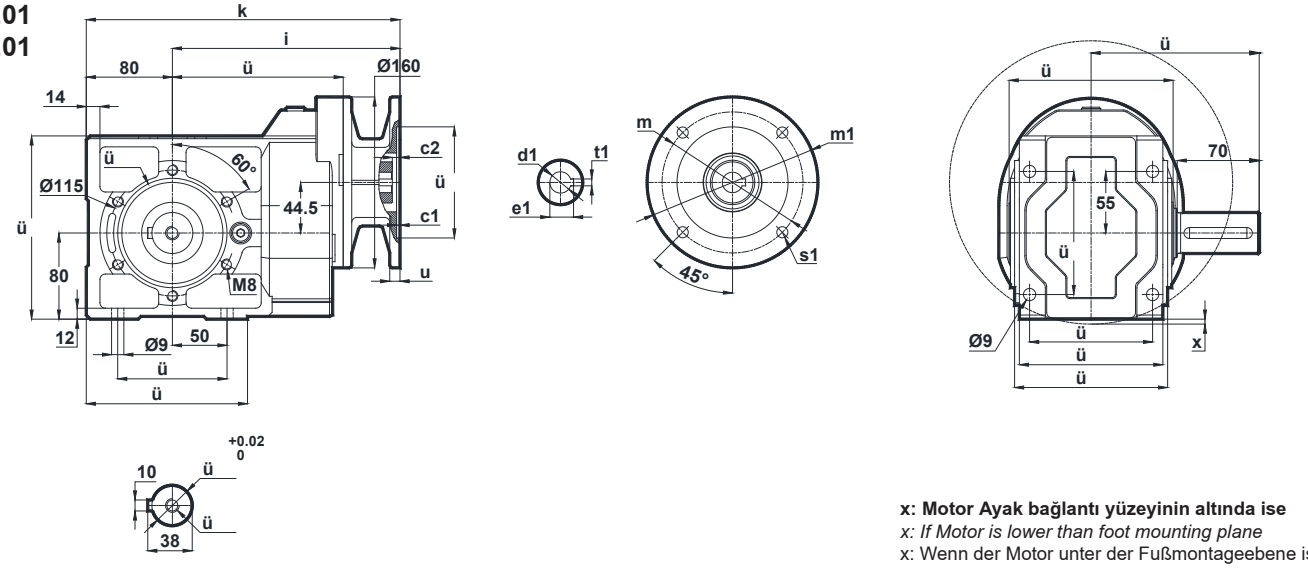
KN202.00
KN203.00



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	196.5	12 10	276.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	225.5	12	305.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	225.5	12	305.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	218.5	12	298.5	28	8	31.3	0.5 -

KN202.01
KN203.01

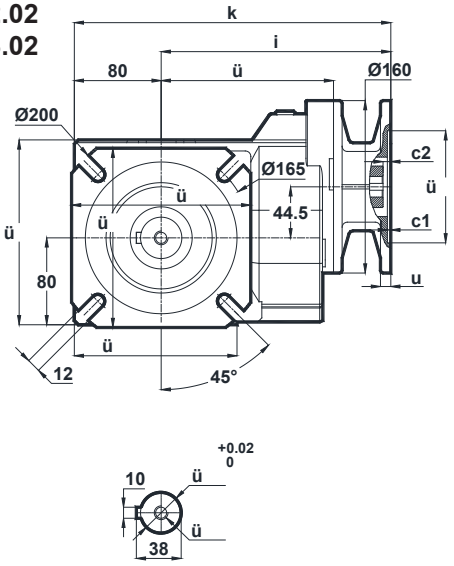


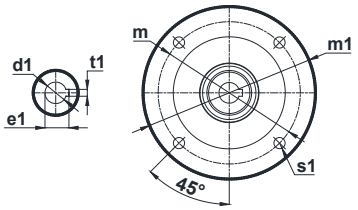
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

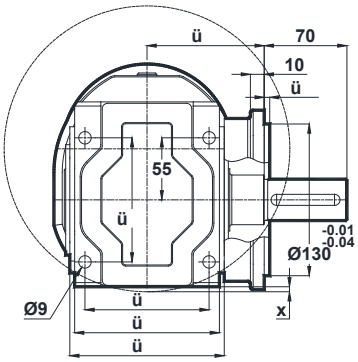
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	196.5	12 10	276.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	225.5	12	305.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	225.5	12	305.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	218.5	12	298.5	28	8	31.3	0.5 -

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN202.02
KN203.02





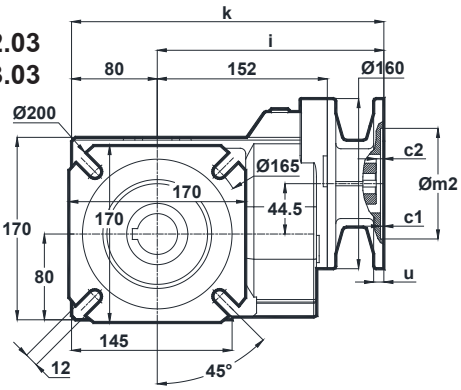


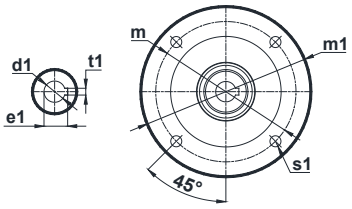
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

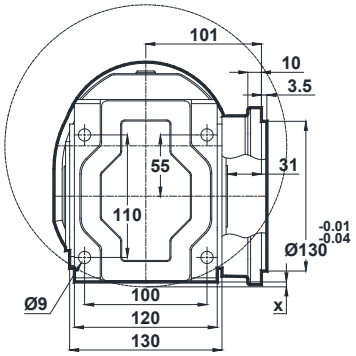
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

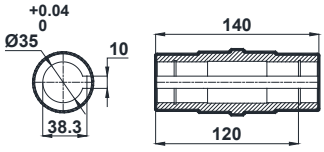
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	196.5	12 10	276.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	225.5	12	305.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	225.5	12	305.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	218.5	12	298.5	28	8	31.3	0.5 -

KN202.03
KN203.03









x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

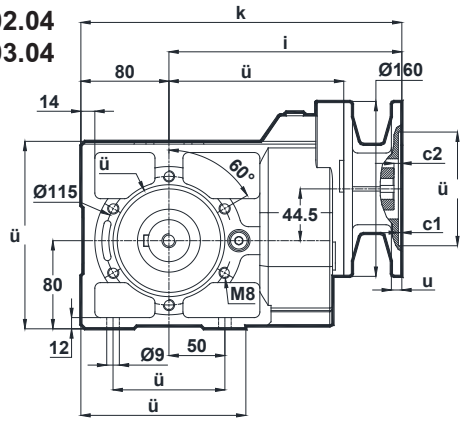
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

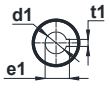
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	196.5	12 10	276.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	225.5	12	305.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	225.5	12	305.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	218.5	12	298.5	28	8	31.3	0.5 -

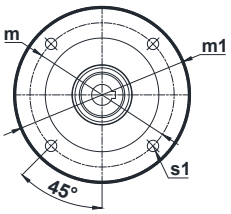
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

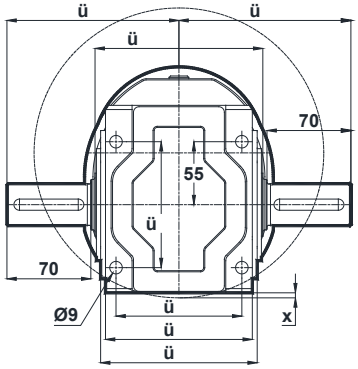
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

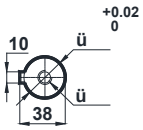
KN202.04
KN203.04







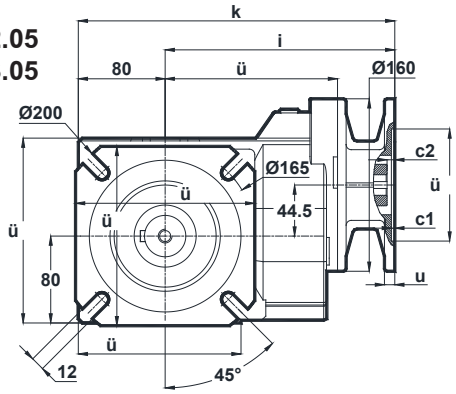


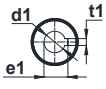


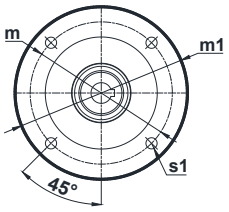
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

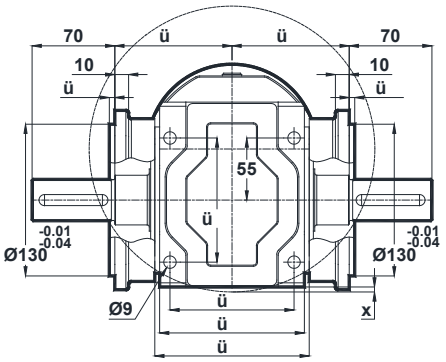
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	196.5	12 10	276.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	225.5	12	305.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	225.5	12	305.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	218.5	12	298.5	28	8	31.3	0.5 -

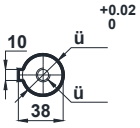
KN202.05
KN203.05











x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

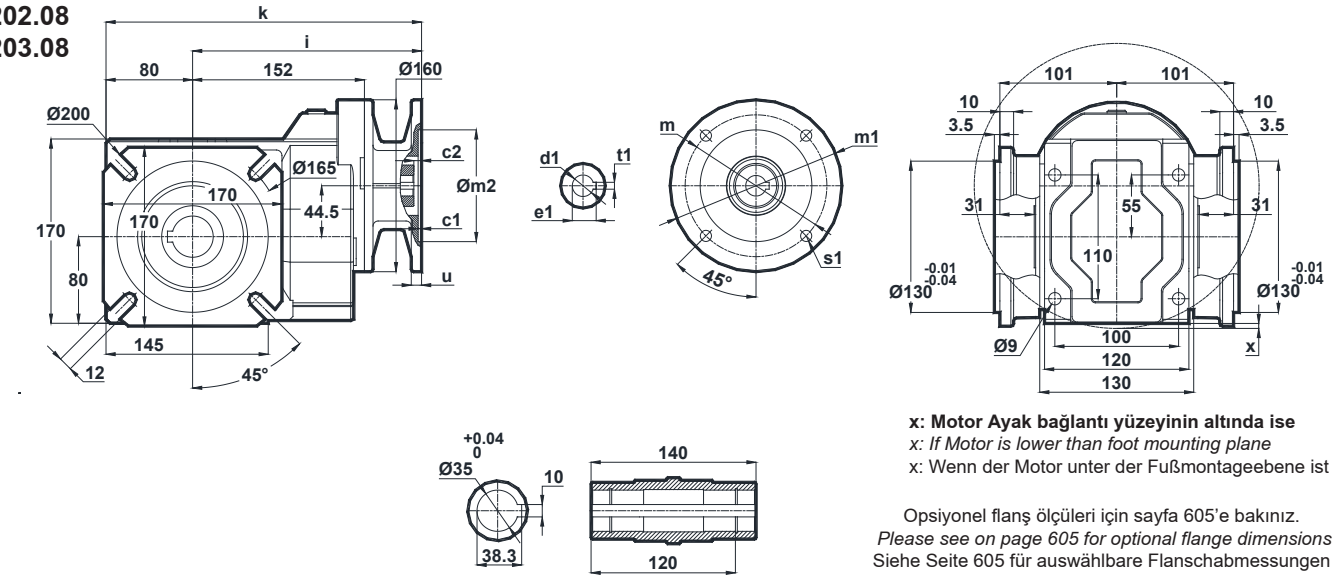
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	196.5	12 10	276.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	225.5	12	305.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	225.5	12	305.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	218.5	12	298.5	28	8	31.3	0.5 -

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN202.08
KN203.08



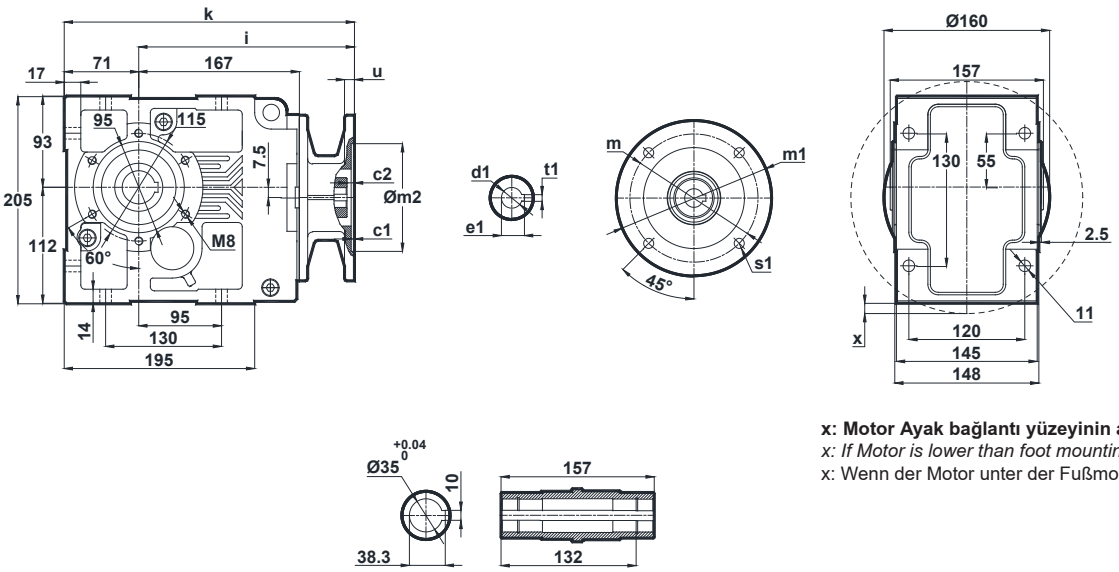
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	196.5	12 10	276.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	225.5	12	305.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	225.5	12	305.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	218.5	12	298.5	28	8	31.3	0.5 -

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

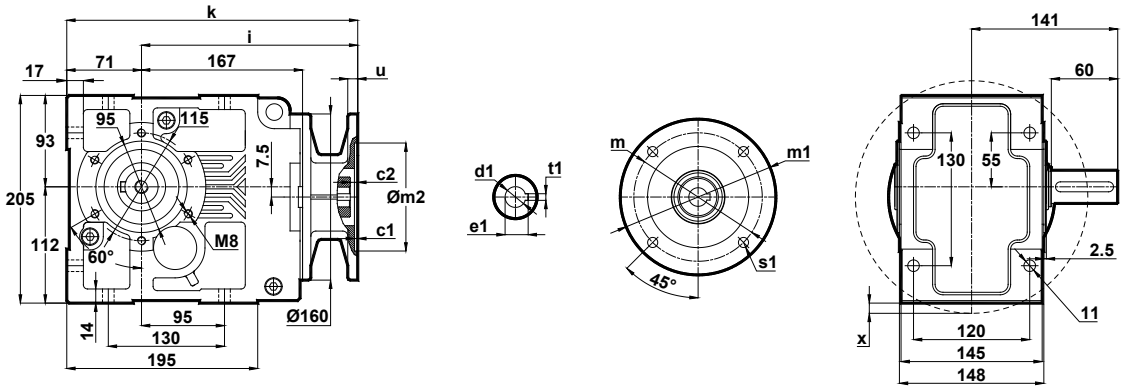
KN273.00

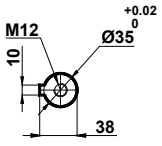


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	240.5	12	311.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	211.5	12 10	282.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	240.5	12	311.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	240.5	12	311.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	233.5	12	304.5	28	8	31.3	20.5 -
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	276	20	347	38	10	41,3	24 -

KN273.01



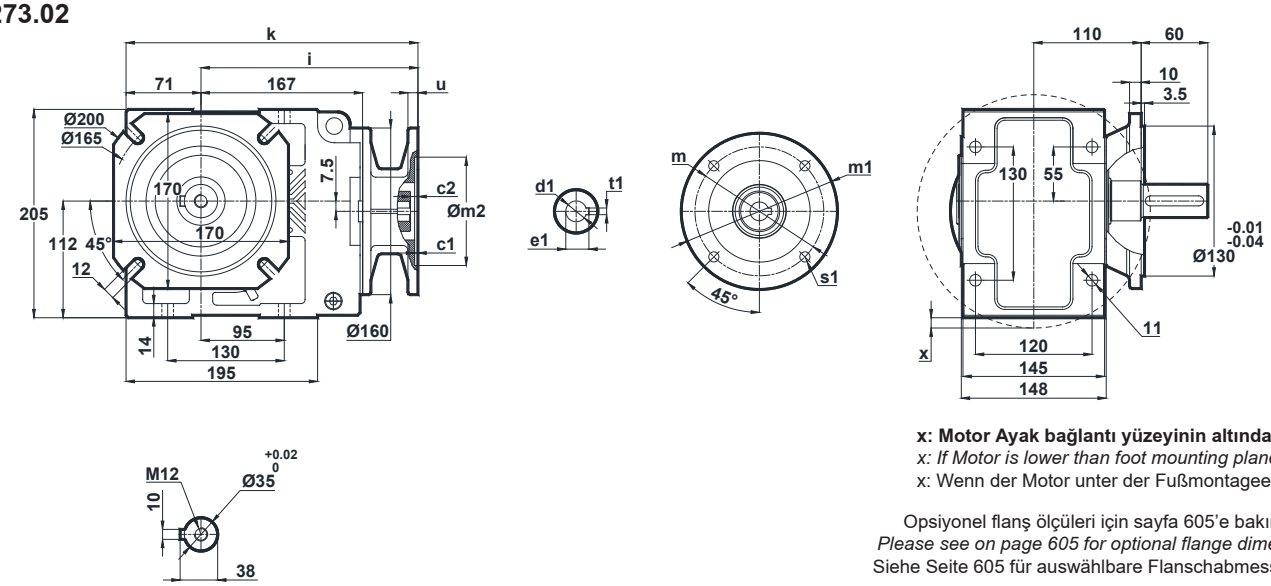


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	240.5	12	311.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	211.5	12 10	282.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	240.5	12	311.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	240.5	12	311.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	233.5	12	304.5	28	8	31.3	20.5 -
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	276	20	347	38	10	41,3	24 -

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN273.02

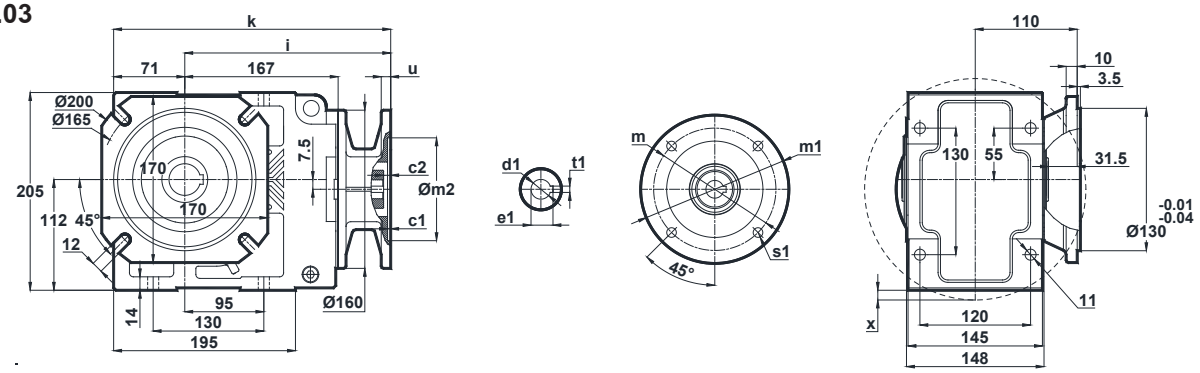


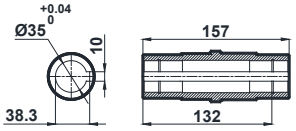
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	240.5	12	311.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	211.5	12 10	282.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	240.5	12	311.5	19	6	21.8	-
90/B5 **90//B14**	4	5	12 9	165 115	200 140	130 95	240.5	12	311.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	233.5	12	304.5	28	8	31.3	20.5 -
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	276	20	347	38	10	41,3	24 -

KN273.03





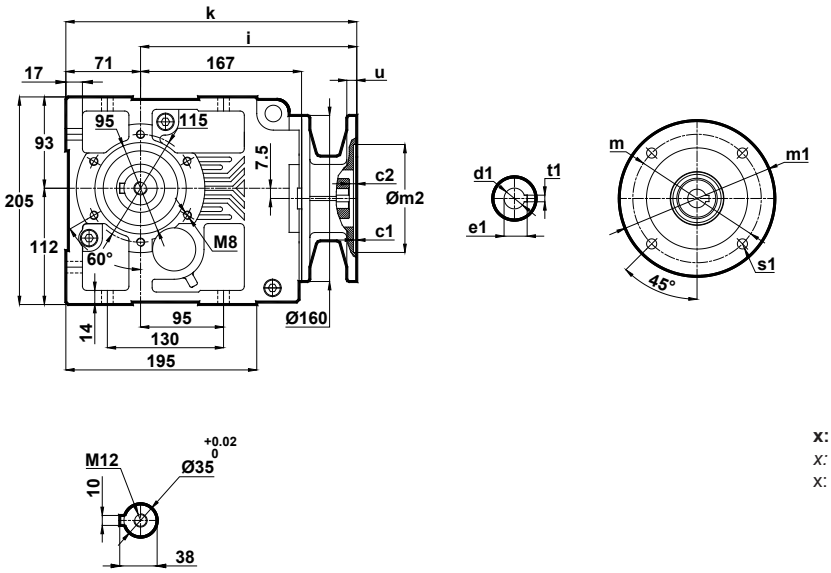
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	240.5	12	311.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	211.5	12 10	282.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	240.5	12	311.5	19	6	21.8	-
90/B5 **90//B14**	4	5	12 9	165 115	200 140	130 95	240.5	12	311.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	233.5	12	304.5	28	8	31.3	20.5 -
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	276	20	347	38	10	41,3	24 -

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

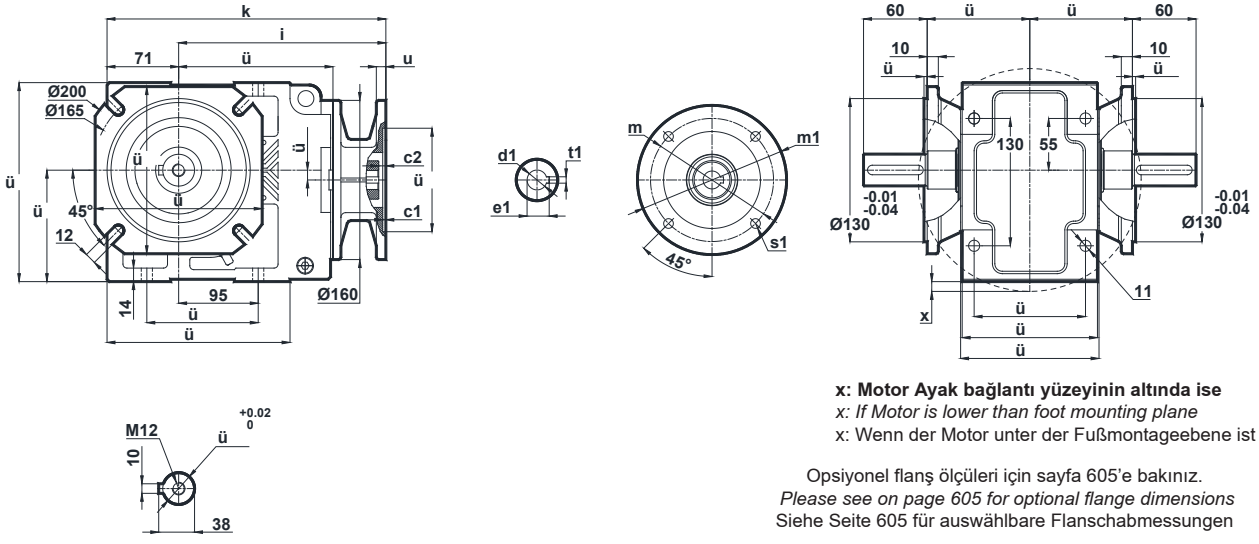
KN273.04



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	240.5	12	311.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	211.5	12 10	282.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	240.5	12	311.5	19	6	21.8	-
90/B5 **90//B14**	4	5	12 9	165 115	200 140	130 95	240.5	12	311.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	233.5	12	304.5	28	8	31.3	20.5 -
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	276	20	347	38	10	41,3	24 -

KN273.05



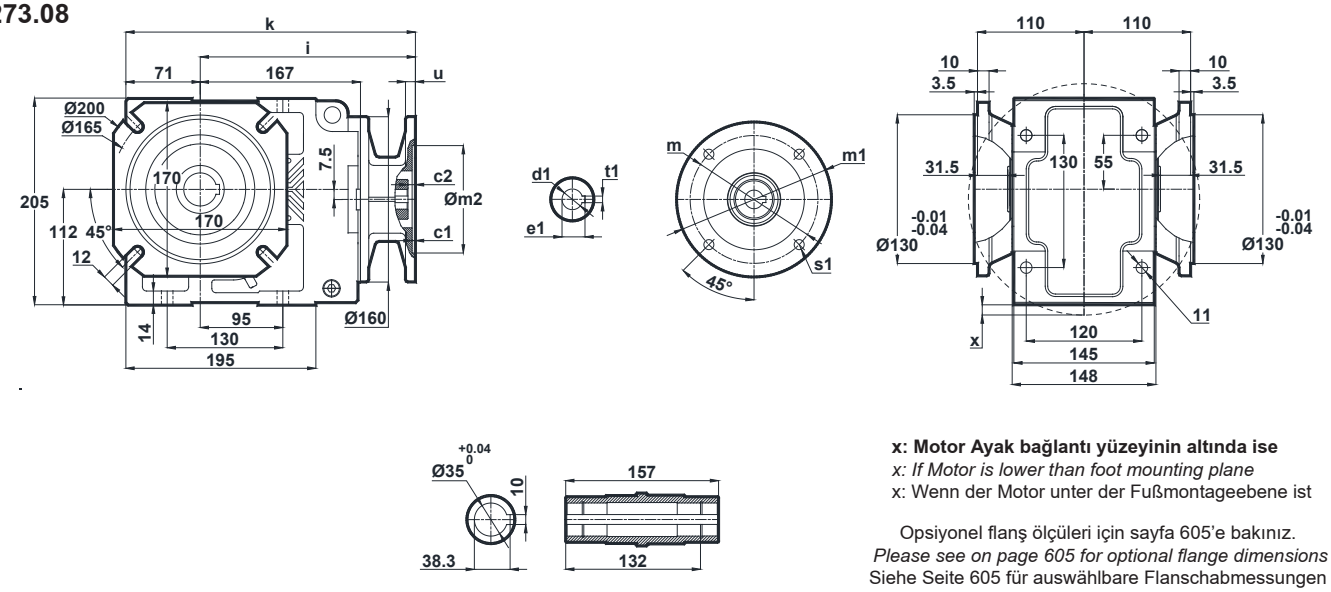
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	240.5	12	311.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	211.5	12 10	282.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	240.5	12	311.5	19	6	21.8	-
90/B5 **90//B14**	4	5	12 9	165 115	200 140	130 95	240.5	12	311.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	233.5	12	304.5	28	8	31.3	20.5 -
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	276	20	347	38	10	41,3	24 -

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN273.08



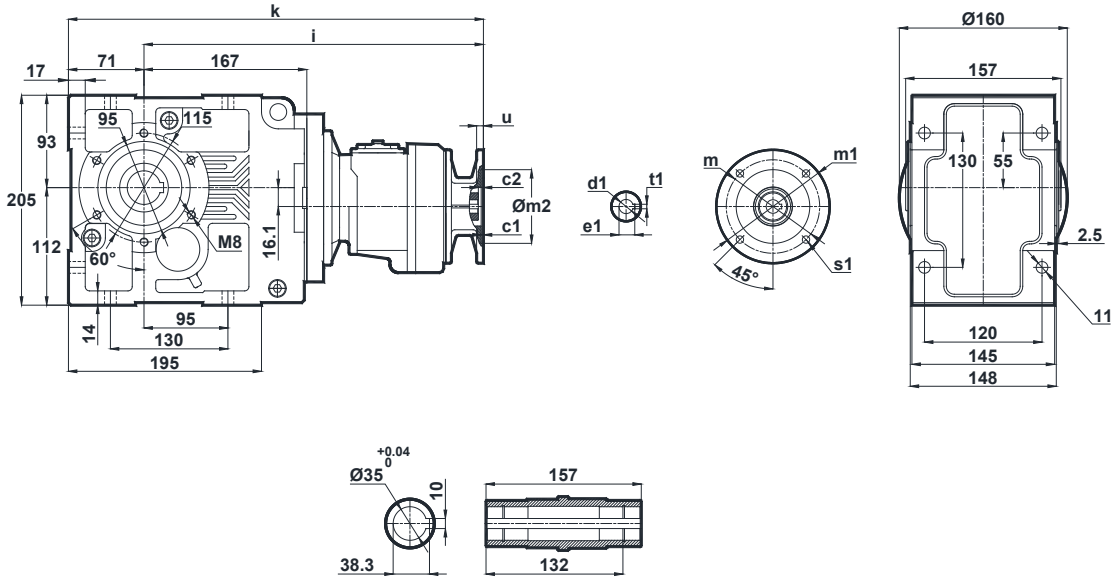
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	9	115	140	95	240.5	12	311.5	11	4	12.8	-
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	211.5	12 10	282.5	14	5	16.3	-
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	240.5	12	311.5	19	6	21.8	-
90/B5 **90//B14**	4	5	12 9	165 115	200 140	130 95	240.5	12	311.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	5.5	15 9	215 130	250 160	180 110	233.5	12	304.5	28	8	31.3	20.5 -
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	276	20	347	38	10	41,3	24 -

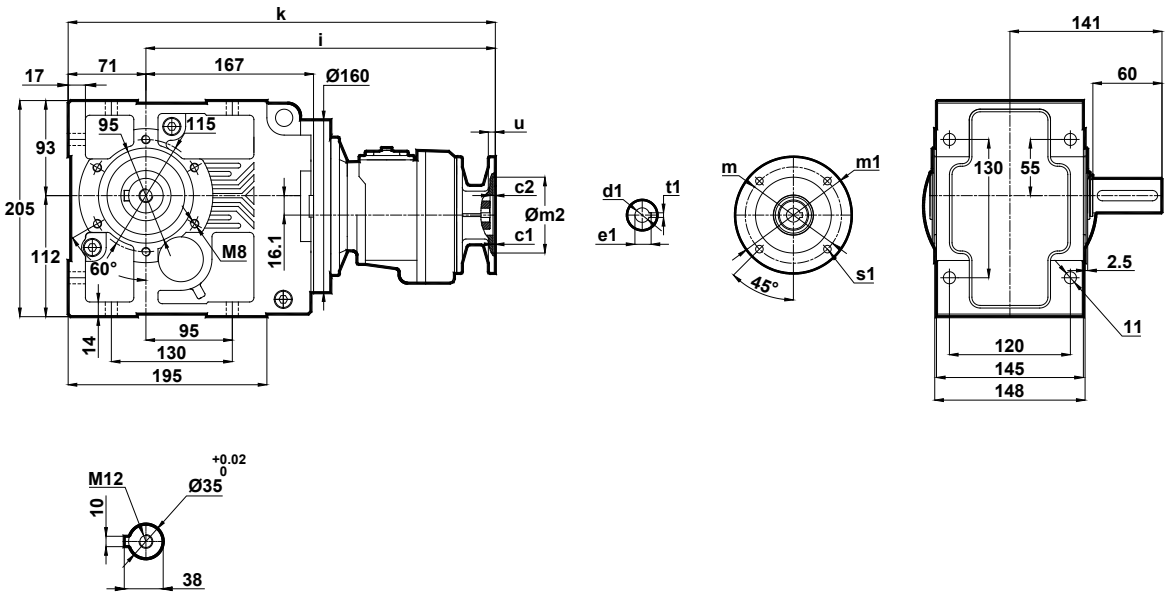
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN275.00
KN276.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	356	10	427	11	4	12.8
63/B14	2.5		5.5	75	90	60						
71/B5	4	4.5	11	130	160	110	357.5	12	428.5	14	5	16.3
71/B14	3		7	85	105	70		10				
80/B5	4	5	12	165	200	130	372.5	12	443.5	19	6	21.8
80/B14			7	100	120	80						

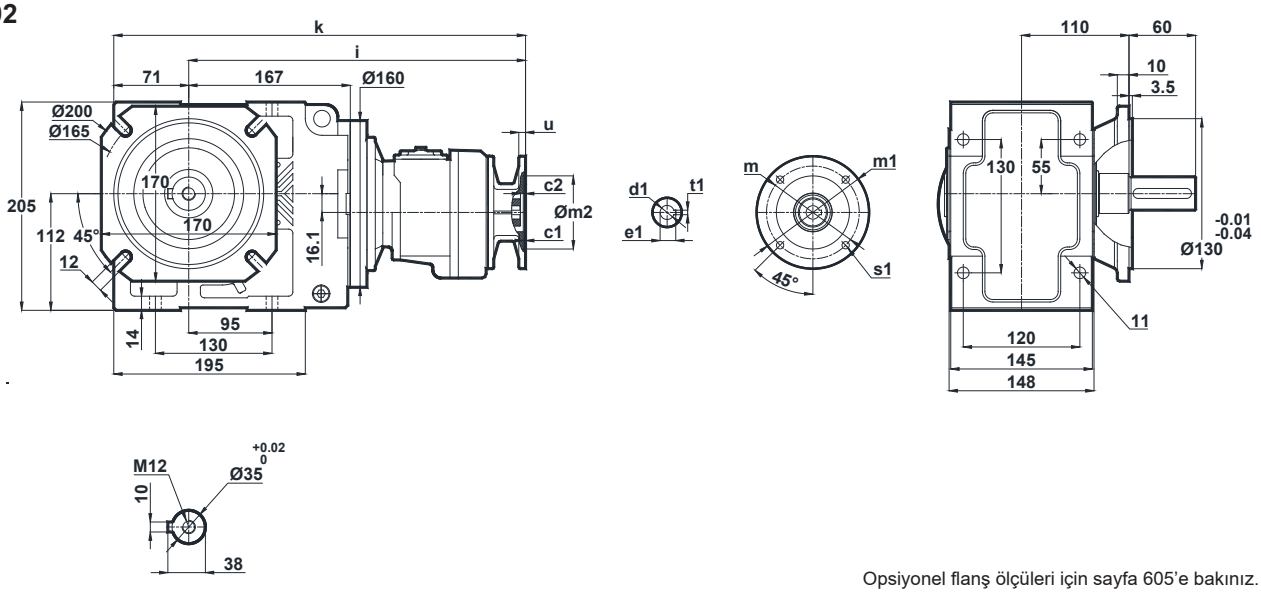
KN275.01
KN276.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	356	10	427	11	4	12.8
63/B14	2.5		5.5	75	90	60						
71/B5	4	4.5	11	130	160	110	357.5	12	428.5	14	5	16.3
71/B14	3		7	85	105	70		10				
80/B5	4	5	12	165	200	130	372.5	12	443.5	19	6	21.8
80/B14			7	100	120	80						

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

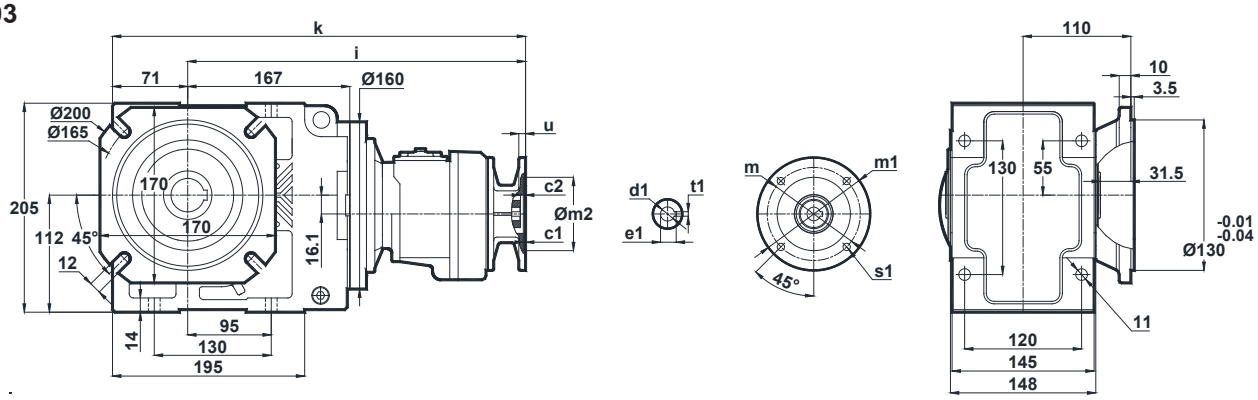
KN275.02
KN276.02

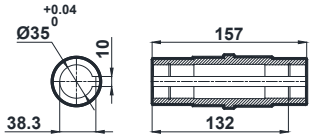


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	356	10	427	11	4	12.8
63/B14	2.5		5.5	75	90	60						
71/B5	4	4.5	11	130	160	110	357.5	12	428.5	14	5	16.3
71/B14	3		7	85	105	70		10				
80/B5	4	5	12	165	200	130	372.5	12	443.5	19	6	21.8
80/B14			7	100	120	80						

KN275.03
KN276.03



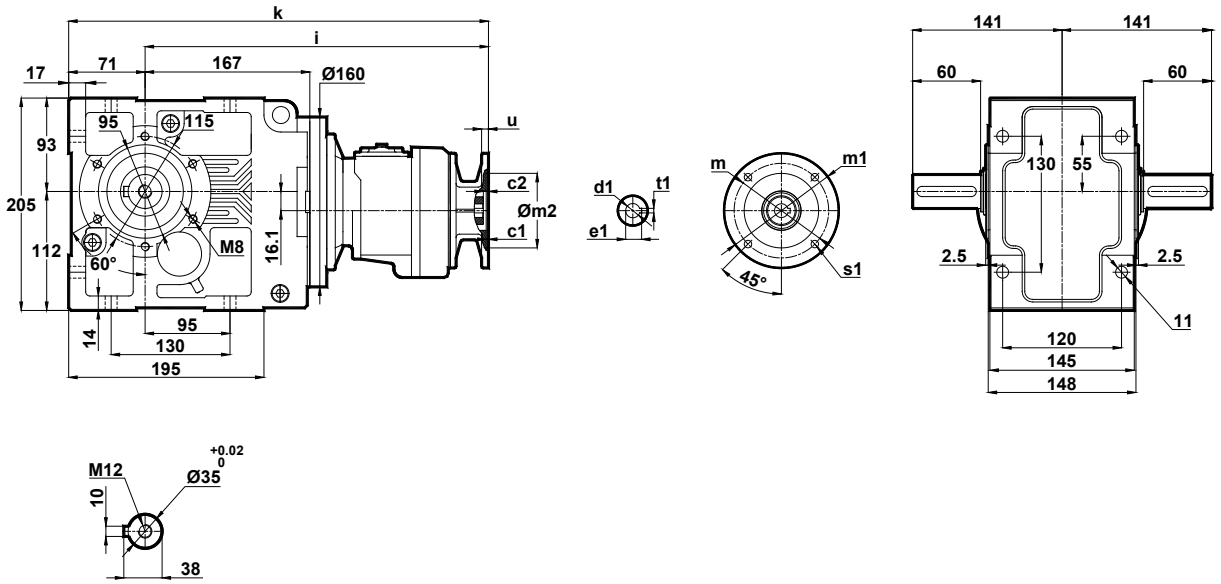


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	356	10	427	11	4	12.8
63/B14	2.5		5.5	75	90	60						
71/B5	4	4.5	11	130	160	110	357.5	12	428.5	14	5	16.3
71/B14	3		7	85	105	70		10				
80/B5	4	5	12	165	200	130	372.5	12	443.5	19	6	21.8
80/B14			7	100	120	80						

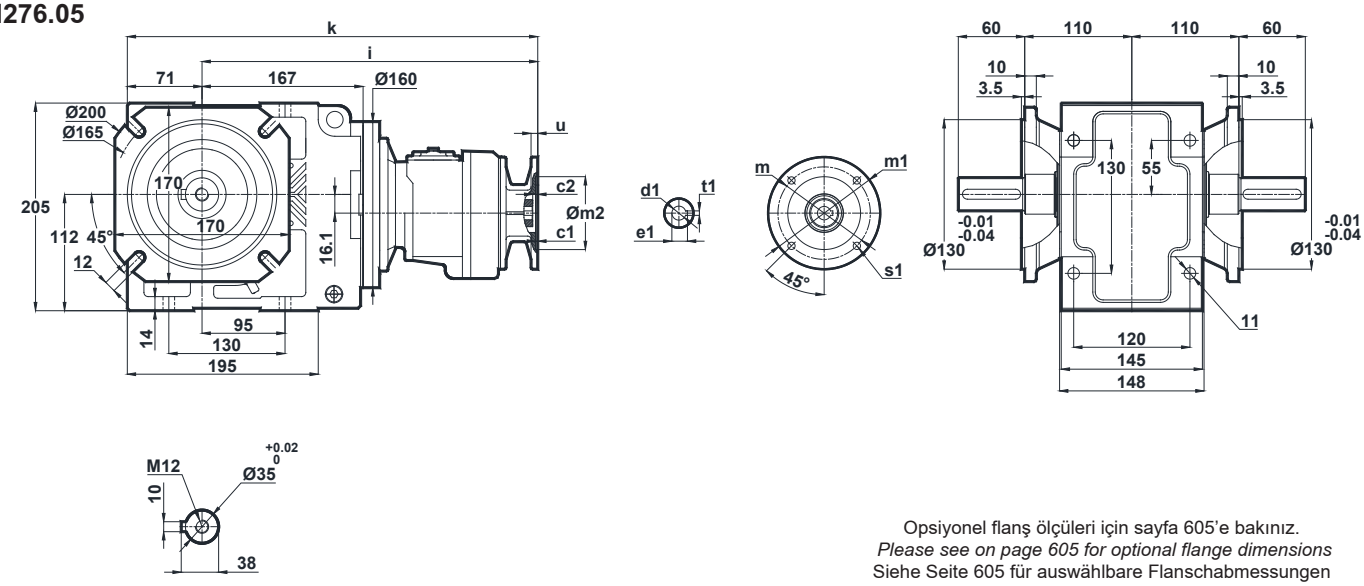
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN275.04
KN276.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	356	10	427	11	4	12.8
63/B14	2.5		5.5	75	90	60						
71/B5	4	4.5	11	130	160	110	357.5	12	428.5	14	5	16.3
71/B14	3		7	85	105	70		10				
80/B5	4	5	12	165	200	130	372.5	12	443.5	19	6	21.8
80/B14			7	100	120	80						

KN275.05
KN276.05



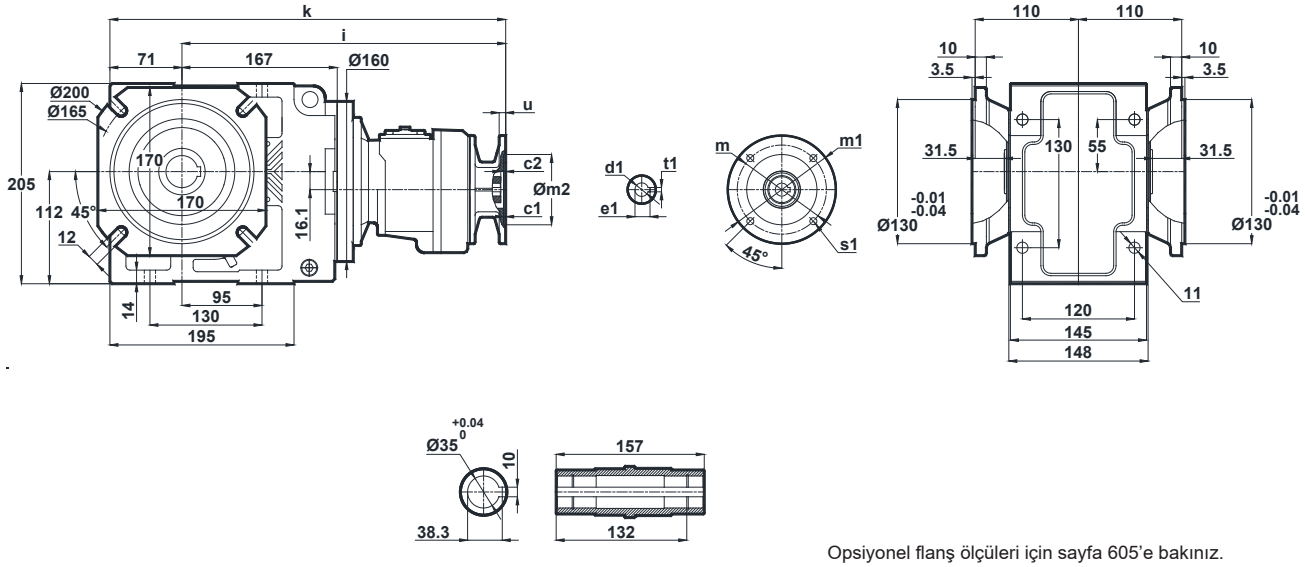
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	356	10	427	11	4	12.8
63/B14	2.5		5.5	75	90	60						
71/B5	4	4.5	11	130	160	110	357.5	12	428.5	14	5	16.3
71/B14	3		7	85	105	70		10				
80/B5	4	5	12	165	200	130	372.5	12	443.5	19	6	21.8
80/B14			7	100	120	80						

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN275.08
KN276.08

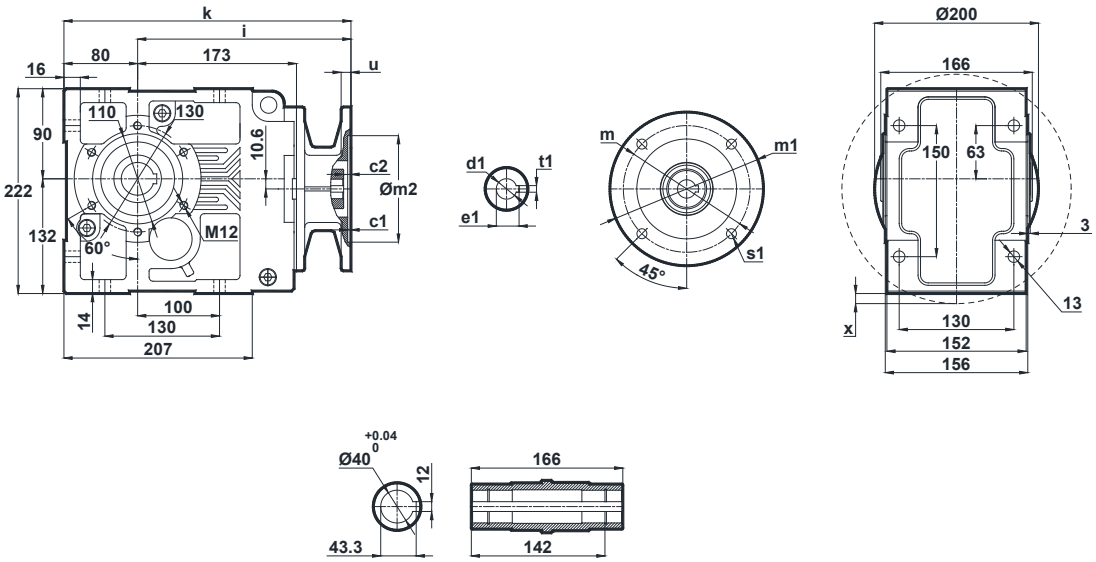


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	356	10	427	11	4	12.8
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	357.5	12 10	428.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	372.5	12	443.5	19	6	21.8

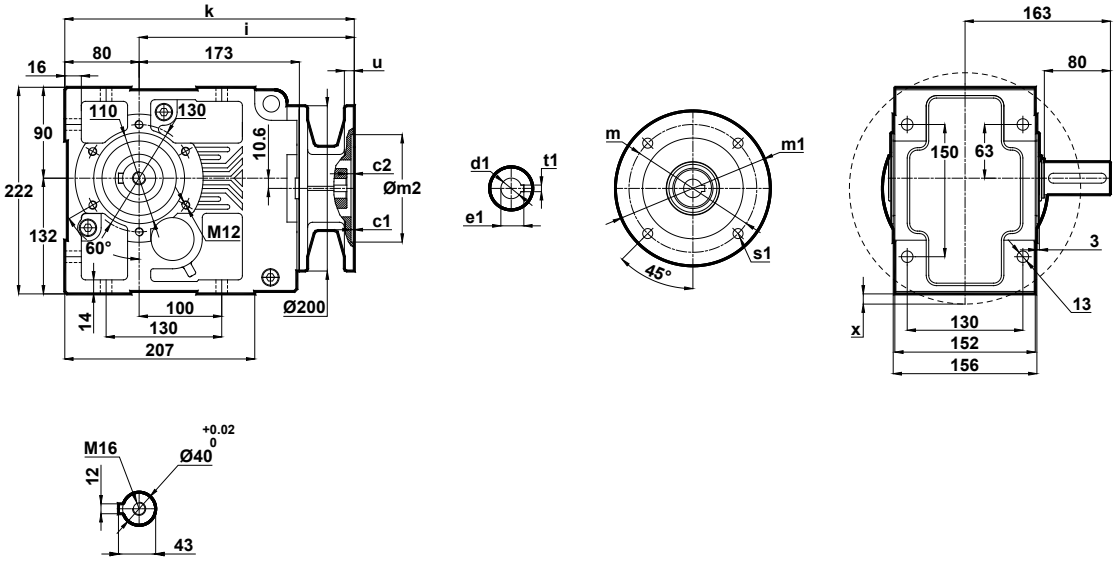
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN283.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	239.5	12	319.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	239.5	12	319.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	239.5	12	319.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	256.5	15	336.5	28	8	31.3	3.6 -
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	276.5	15	356.5	38	10	41.3	28.6 -

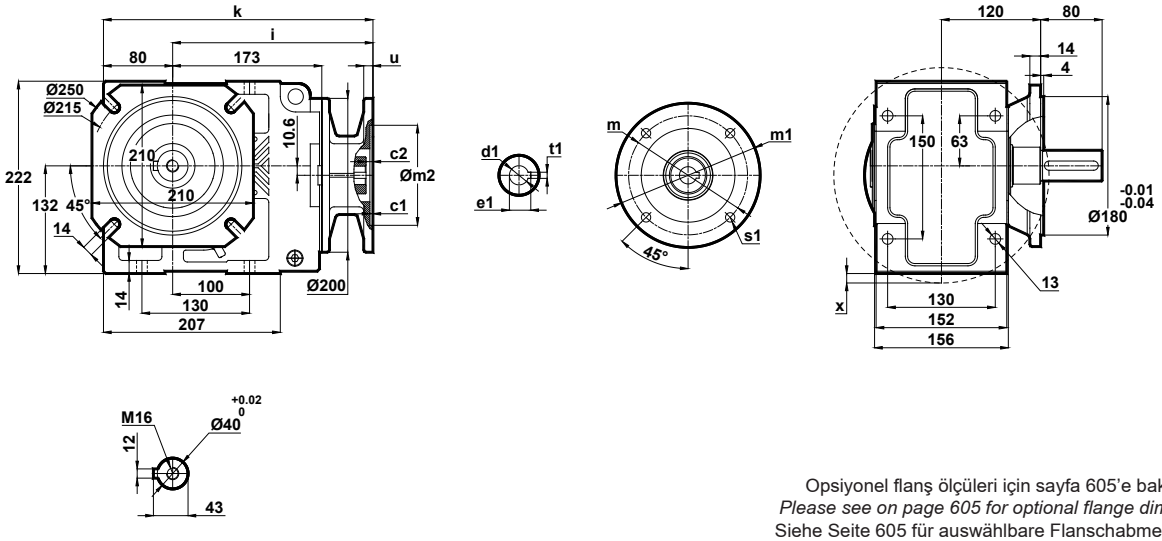
KN283.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	239.5	12	319.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	239.5	12	319.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	239.5	12	319.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	256.5	15	336.5	28	8	31.3	3.6 -
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	276.5	15	356.5	38	10	41.3	28.6 -

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

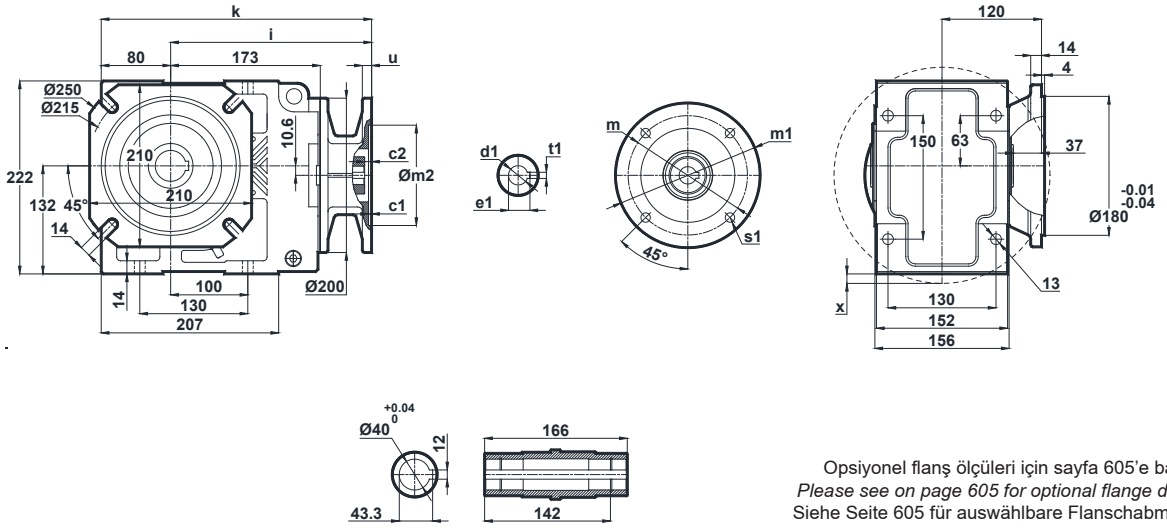
KN283.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	239.5	12	319.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	239.5	12	319.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	239.5	12	319.5	24	8	27.3	-
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	256.5	15	336.5	28	8	31.3	3.6 -
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	276.5	15	356.5	38	10	41.3	28.6 -

KN283.03

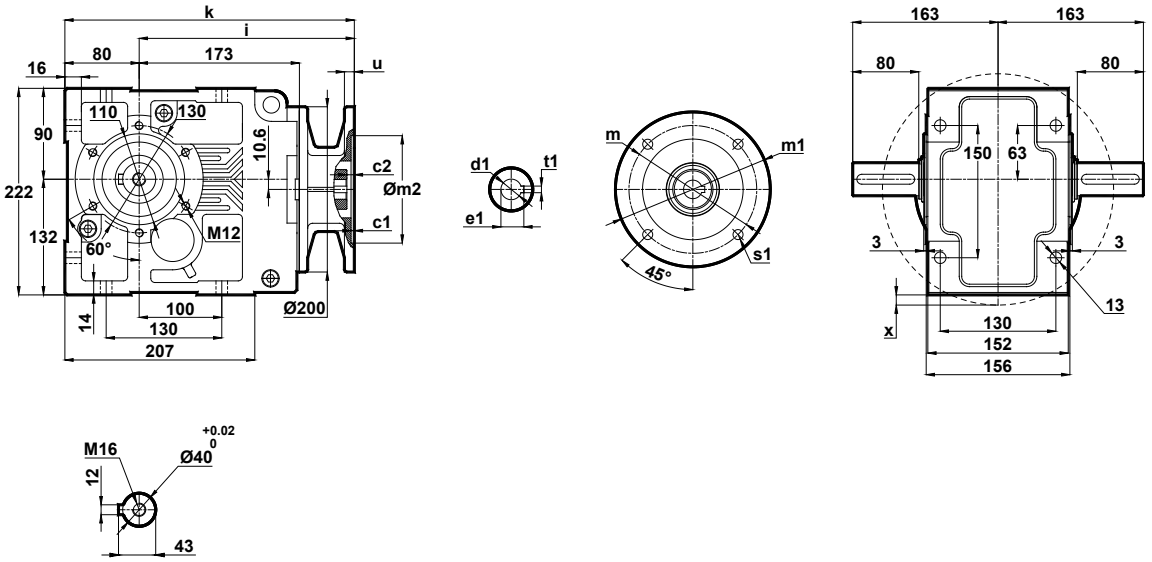


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	239.5	12	319.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	239.5	12	319.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	239.5	12	319.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	256.5	15	336.5	28	8	31.3	3.6 -
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	276.5	15	356.5	38	10	41.3	28.6 -

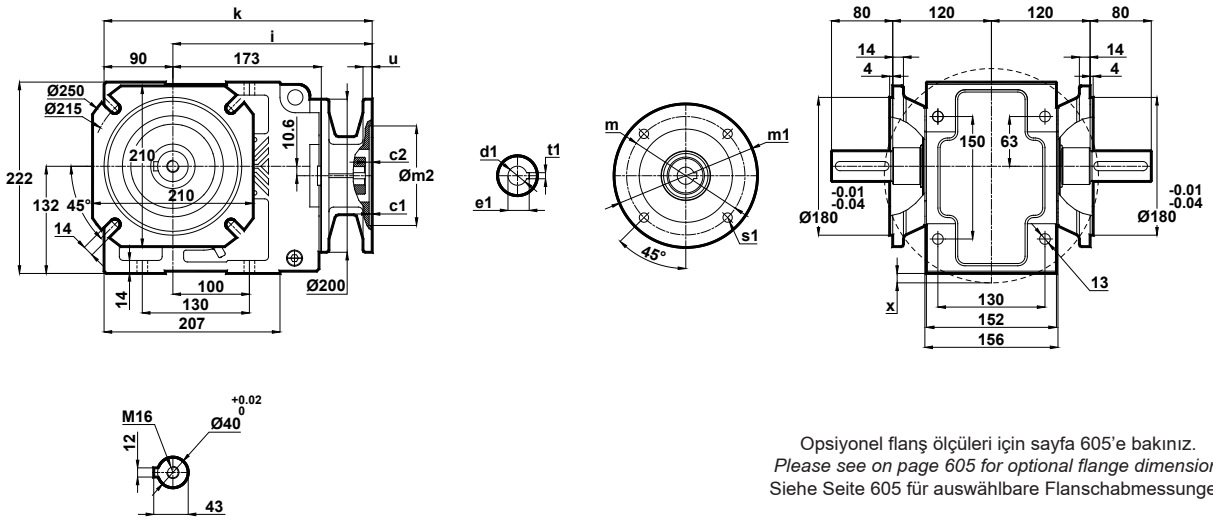
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN283.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	239.5	12	319.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	239.5	12	319.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	239.5	12	319.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	256.5	15	336.5	28	8	31.3	3.6 -
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	276.5	15	356.5	38	10	41.3	28.6 -

KN283.05

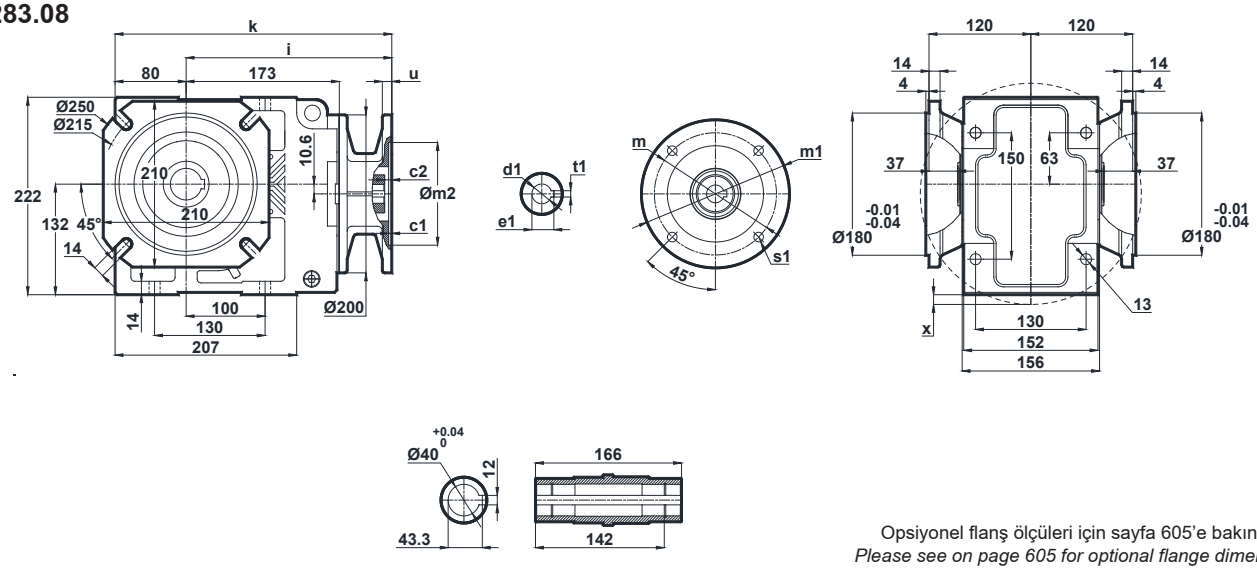


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	239.5	12	319.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	239.5	12	319.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	239.5	12	319.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	256.5	15	336.5	28	8	31.3	3.6 -
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	276.5	15	356.5	38	10	41.3	28.6 -

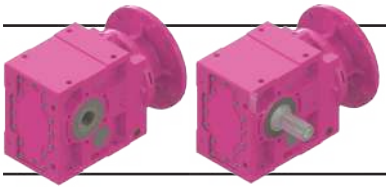
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN283.08



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

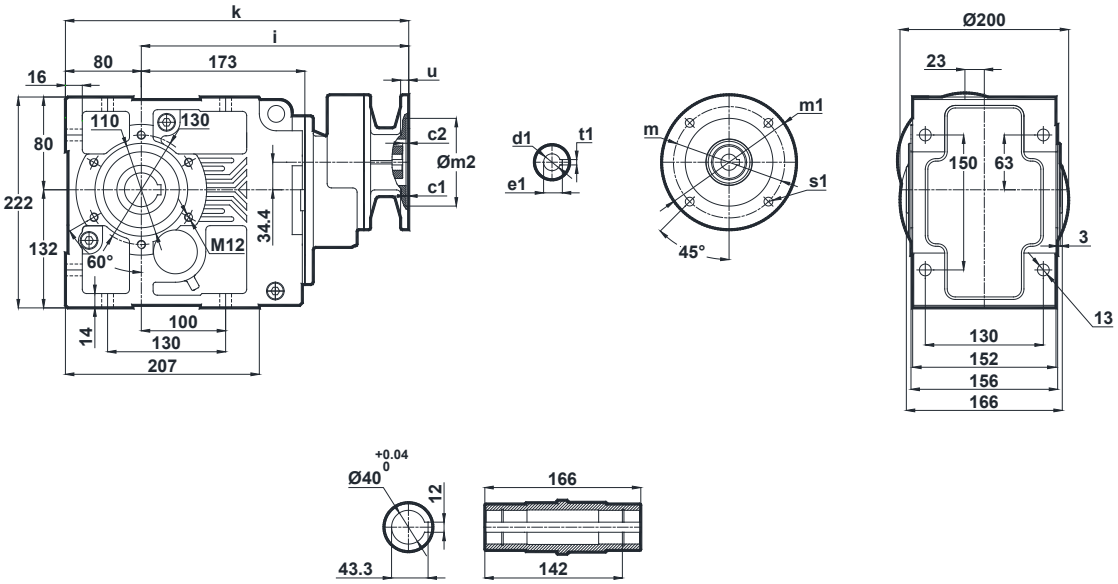
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	239.5	12	319.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	239.5	12	319.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	239.5	12	319.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	256.5	15	336.5	28	8	31.3	3.6 -
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	276.5	15	356.5	38	10	41.3	28.6 -



Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

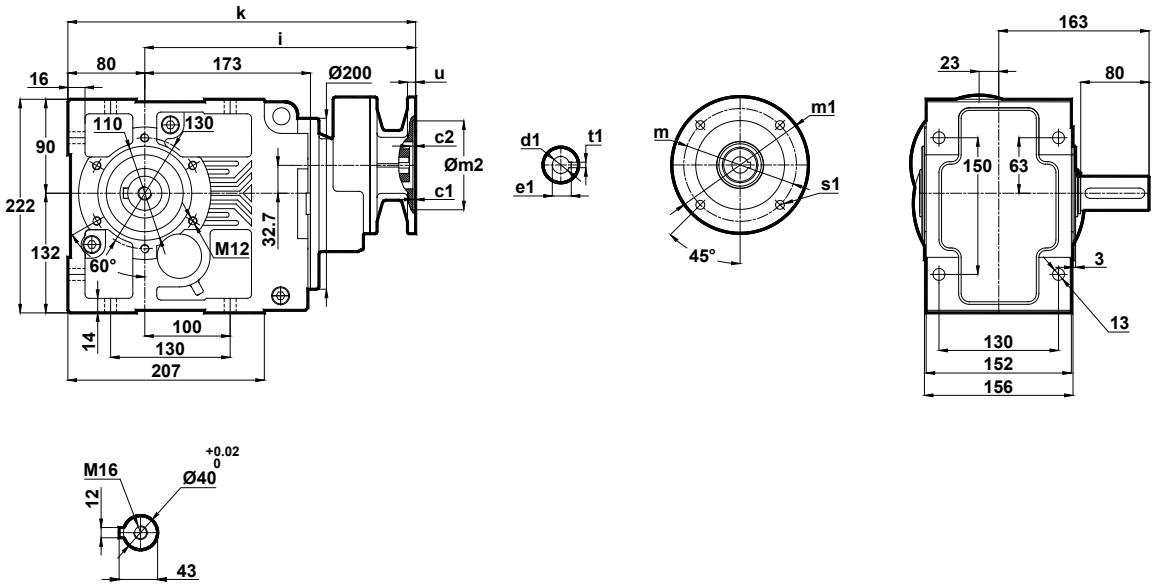
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN284.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	316.5	12	396.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	287.5	12 10	367.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	316.5	12	396.5	19	6	21.8

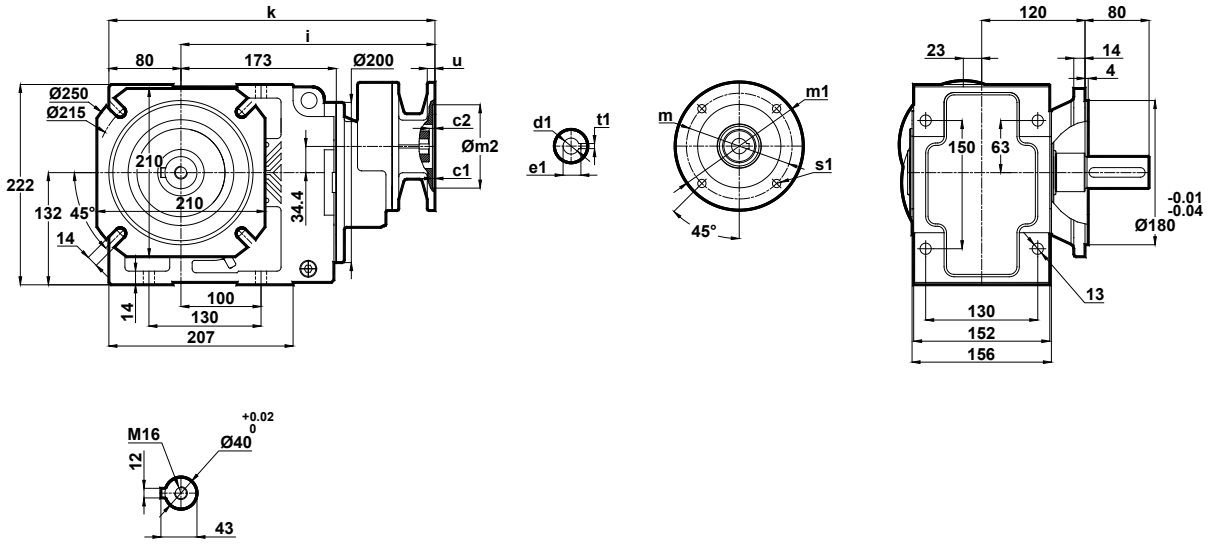
KN284.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	316.5	12	396.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	287.5	12 10	367.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	316.5	12	396.5	19	6	21.8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

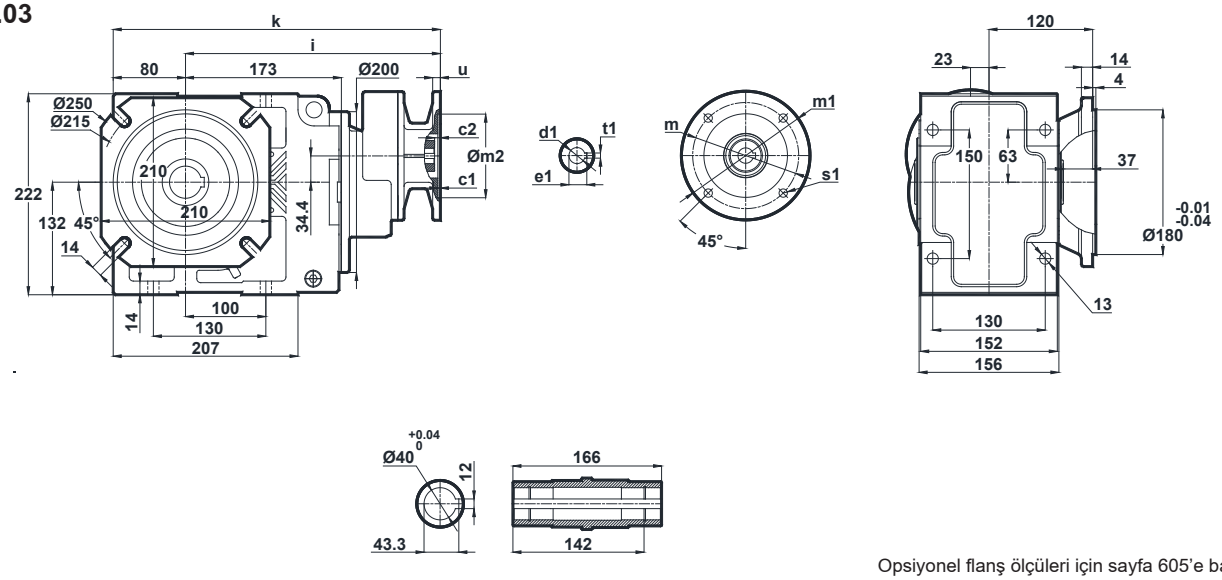
KN284.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	316.5	12	396.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	287.5	12 10	367.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	316.5	12	396.5	19	6	21.8

KN284.03

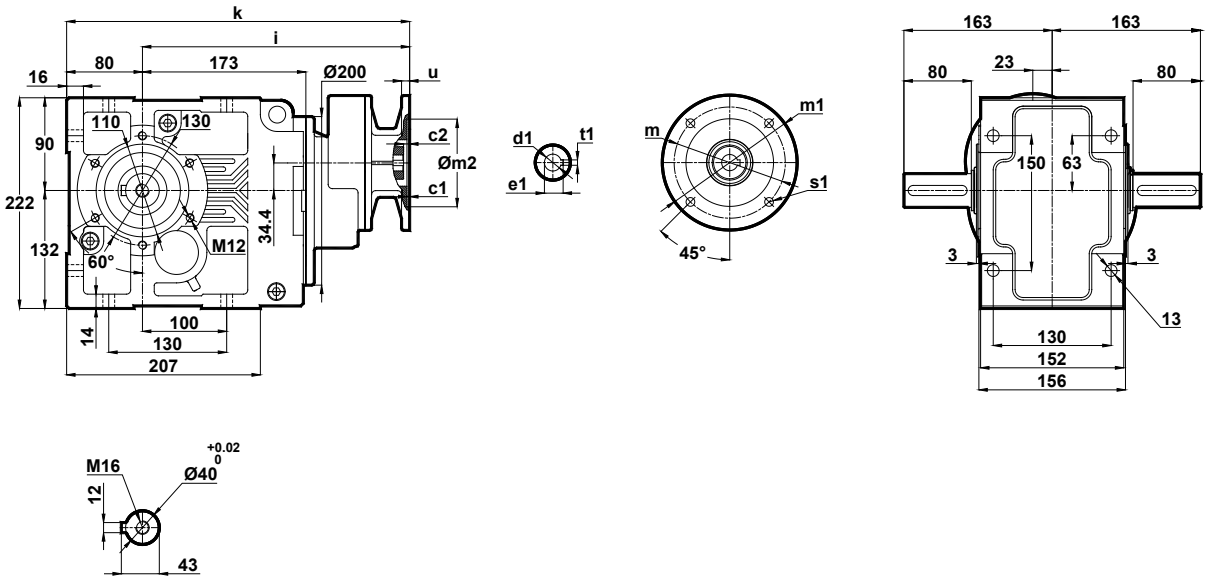


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	316.5	12	396.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	287.5	12 10	367.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	316.5	12	396.5	19	6	21.8

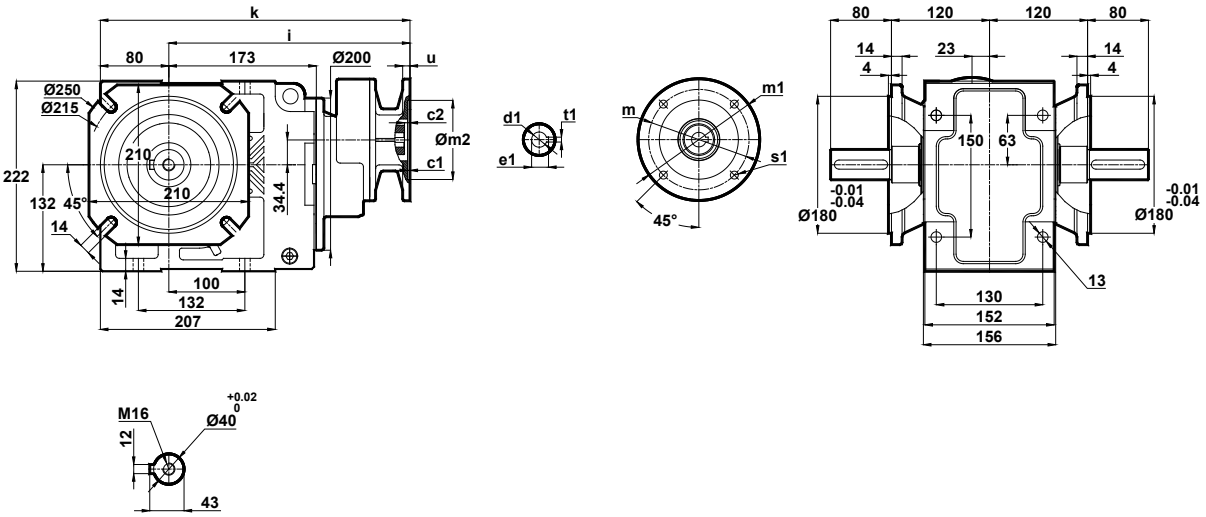
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN284.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	316.5	12	396.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	287.5	12 10	367.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	316.5	12	396.5	19	6	21.8

KN284.05

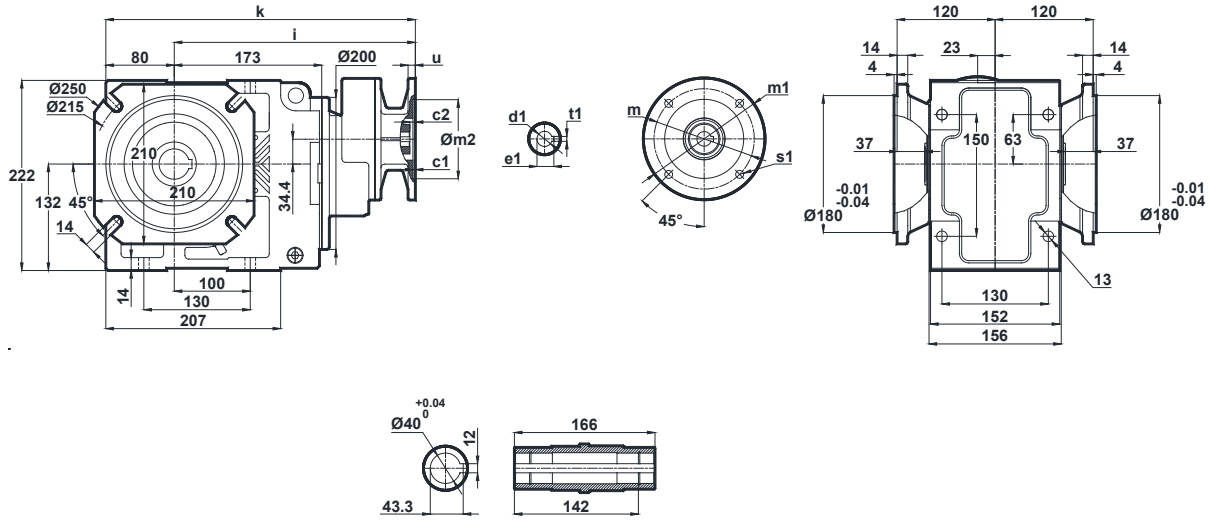


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	316.5	12	396.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	287.5	12 10	367.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	316.5	12	396.5	19	6	21.8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN284.08

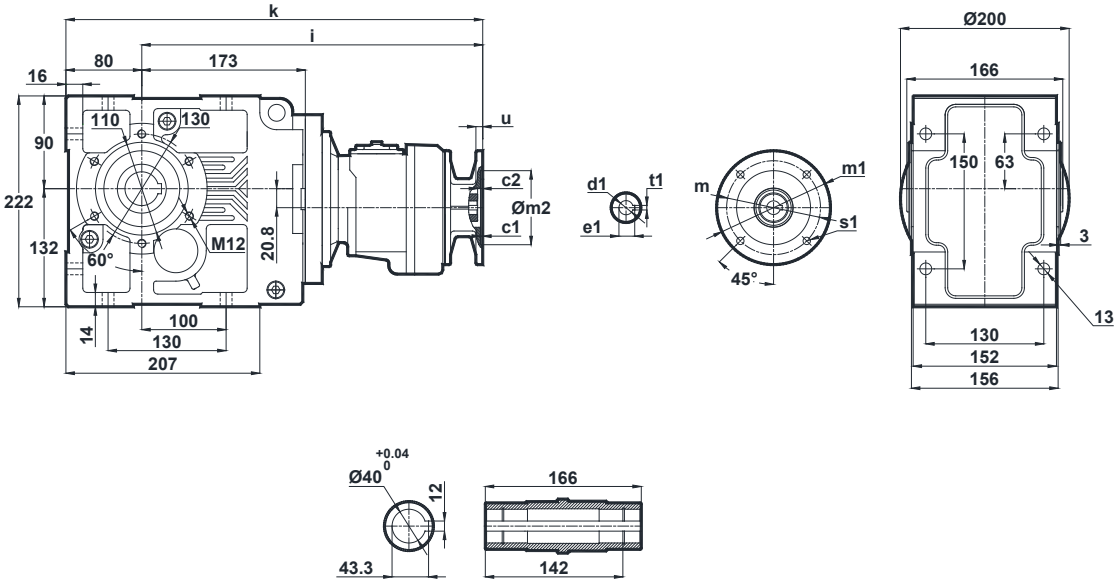


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	316.5	12	396.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	287.5	12 10	367.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	316.5	12	396.5	19	6	21.8

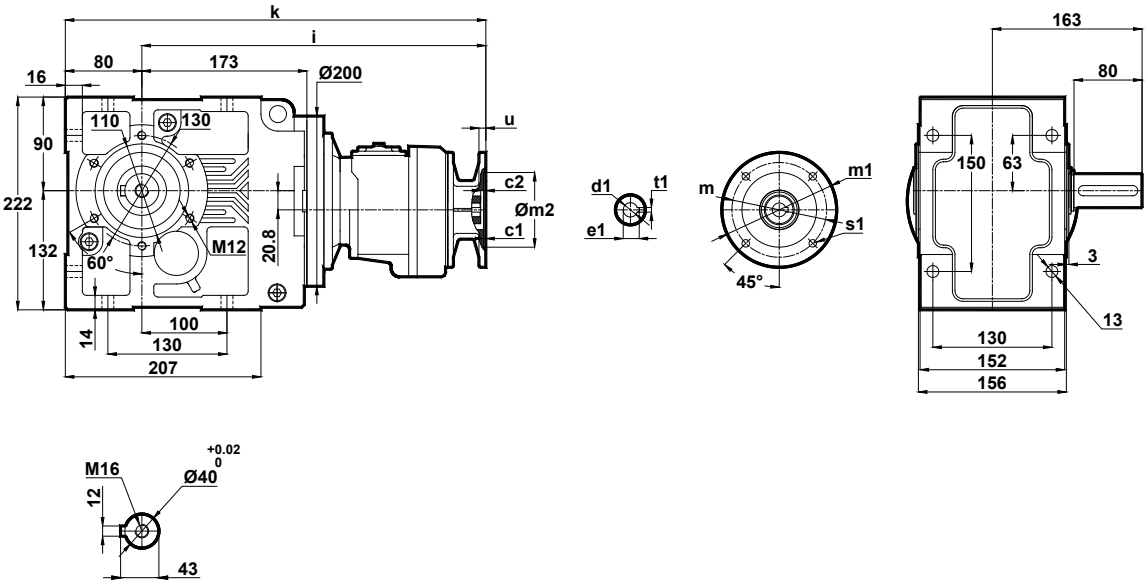
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN285.00
KN286.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	382	10	549	11	4	12.8

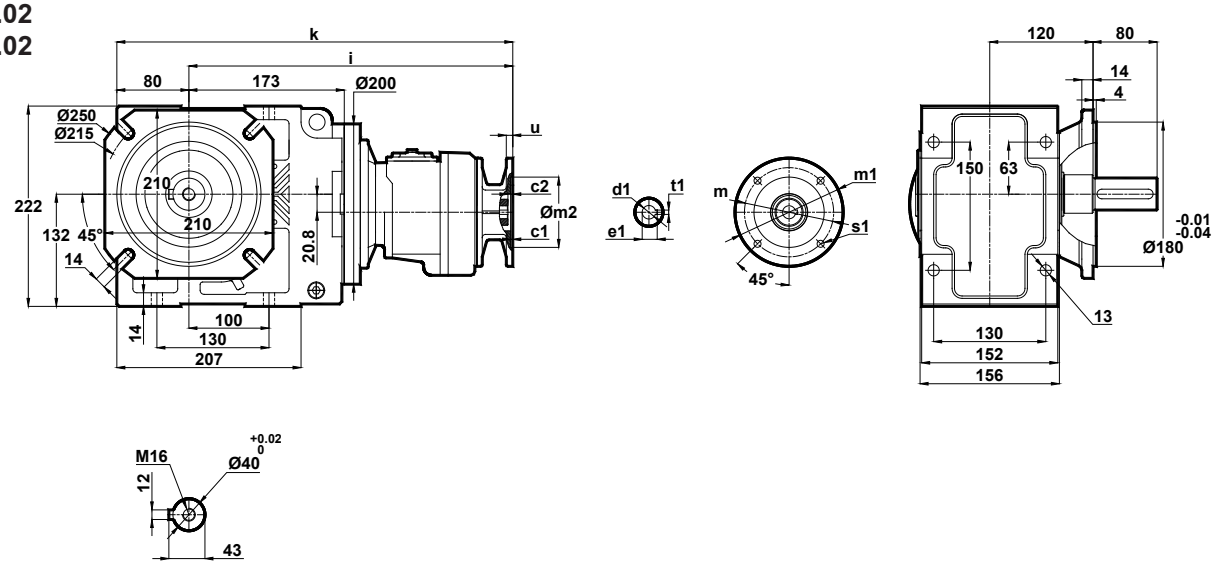
KN285.01
KN286.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	382	10	549	11	4	12.8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

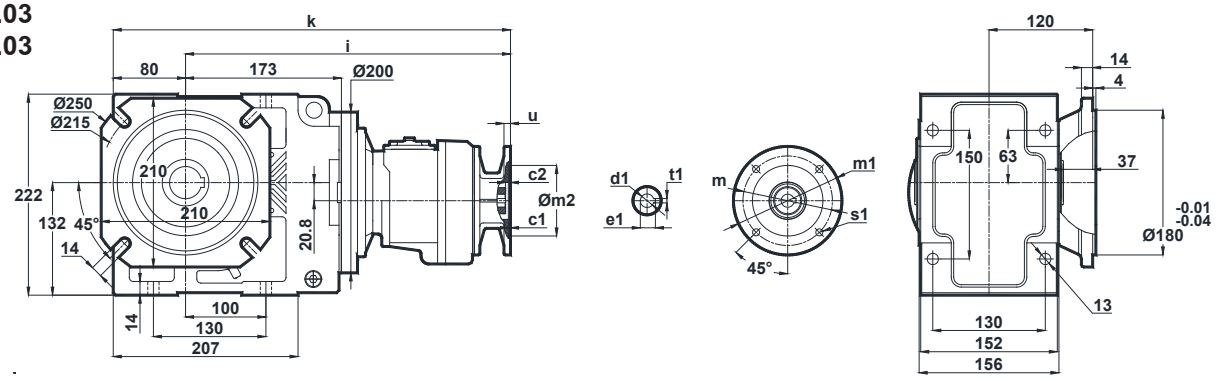
KN285.02
KN286.02

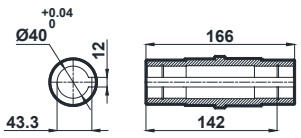


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	382	10	549	11	4	12.8

KN285.03
KN286.03



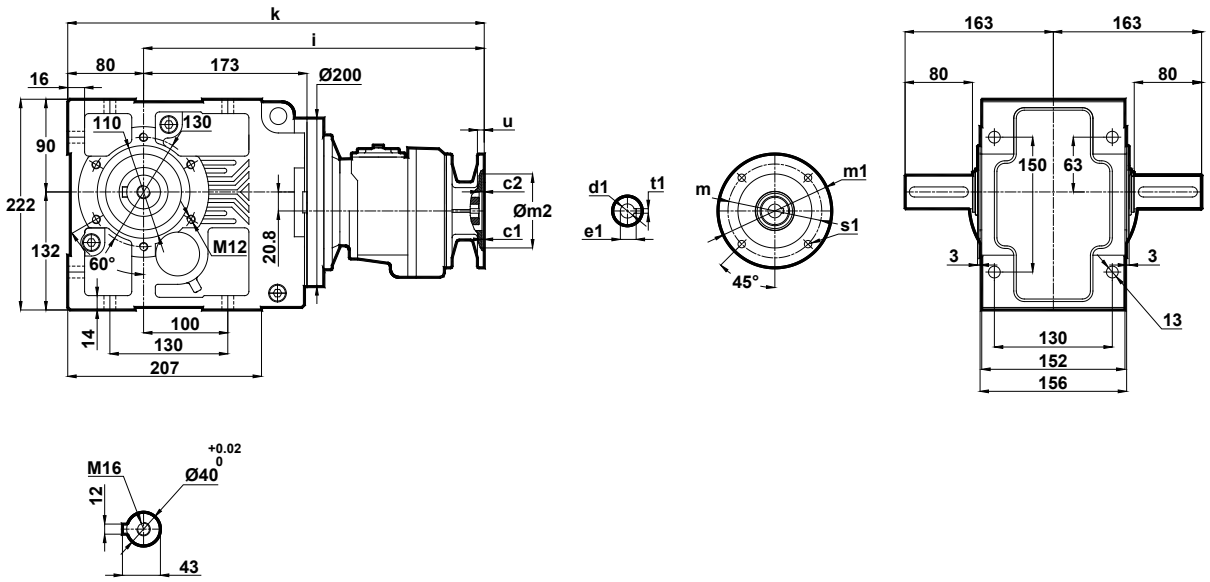


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	382	10	549	11	4	12.8

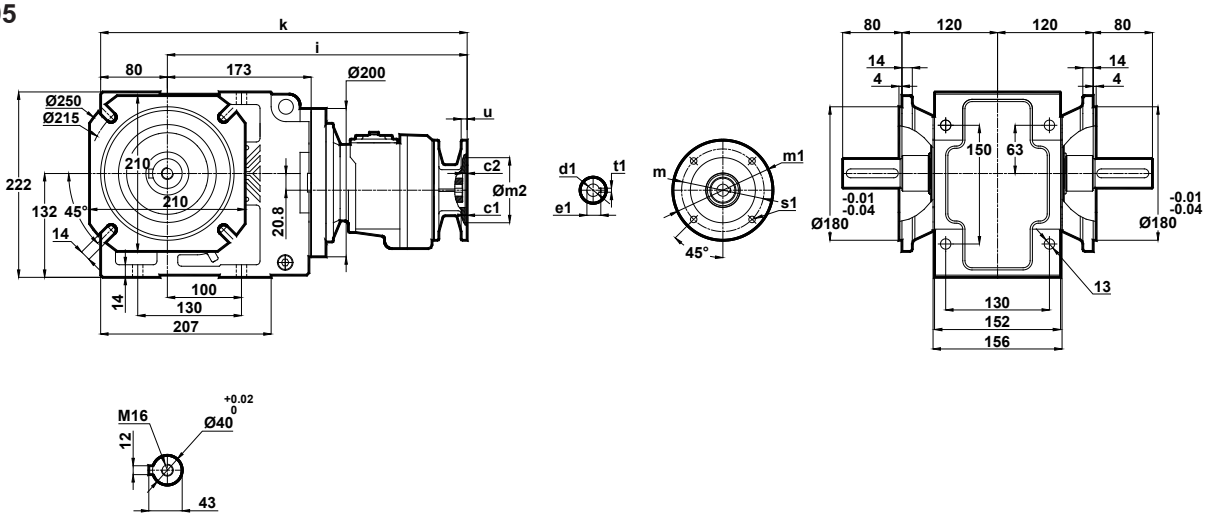
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN285.04
KN286.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	382	10	549	11	4	12.8

KN285.05
KN286.05

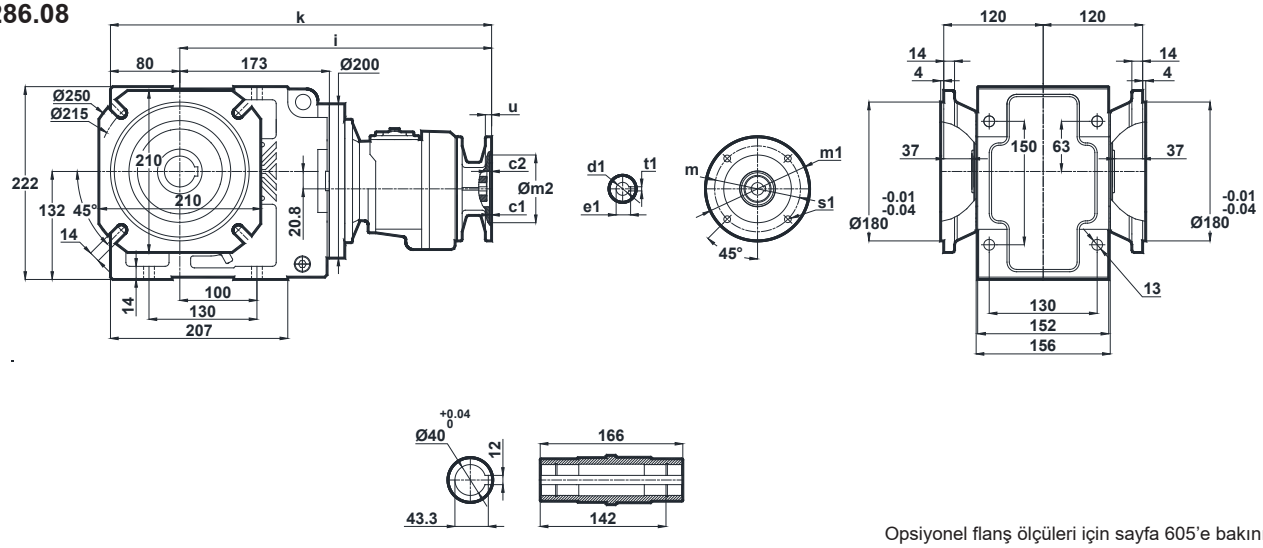


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	382	10	549	11	4	12.8

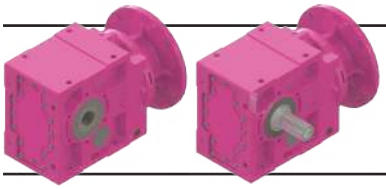
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN285.08
KN286.08



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

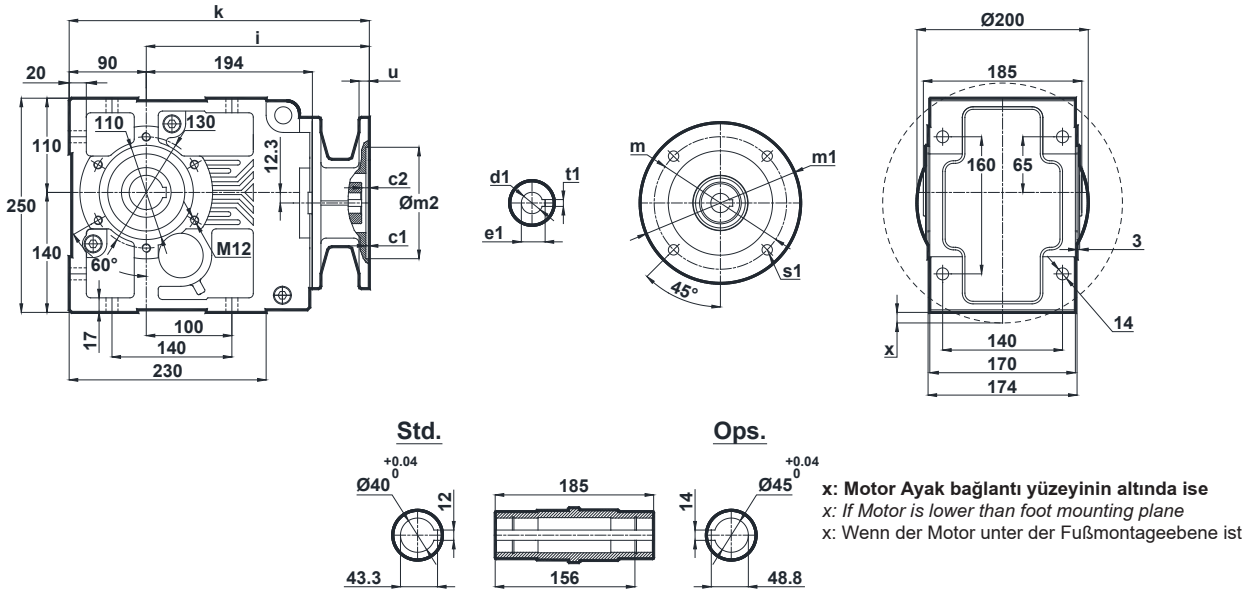
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	382	10	549	11	4	12.8



Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN373.00

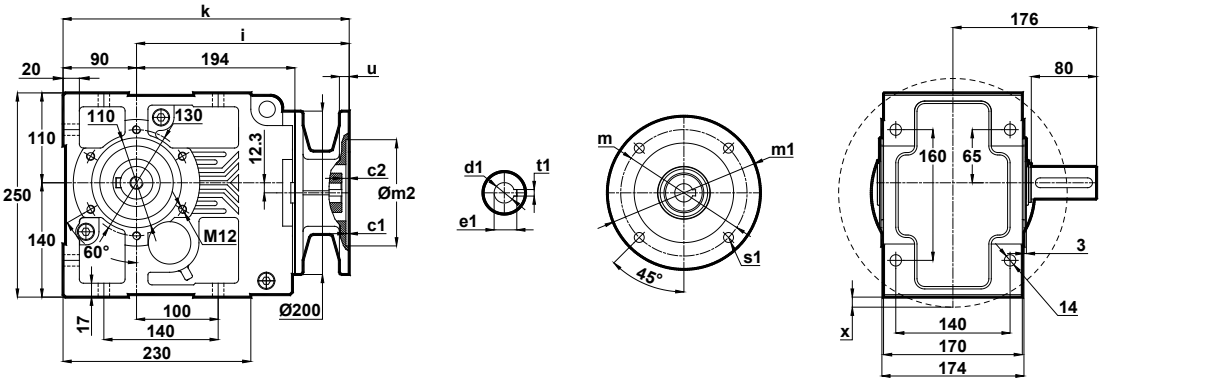


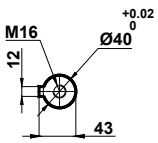
Std. **Ops.**

x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	260.5	12	350.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	260.5	12	350.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	260.5	12	350.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	277.5	15	367.5	28	8	31.3	-
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	297.5	15	387.5	38	10	41.3	22.3 -

KN373.01



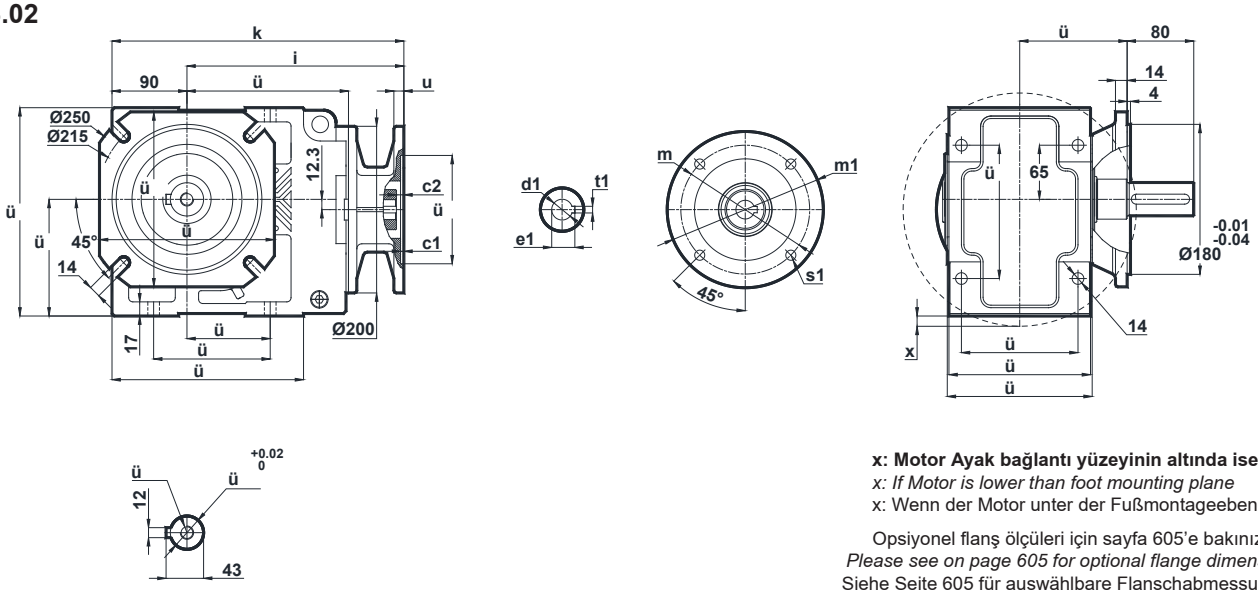


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	260.5	12	350.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	260.5	12	350.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	260.5	12	350.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	277.5	15	367.5	28	8	31.3	-
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	297.5	15	387.5	38	10	41.3	22.3 -

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN373.02

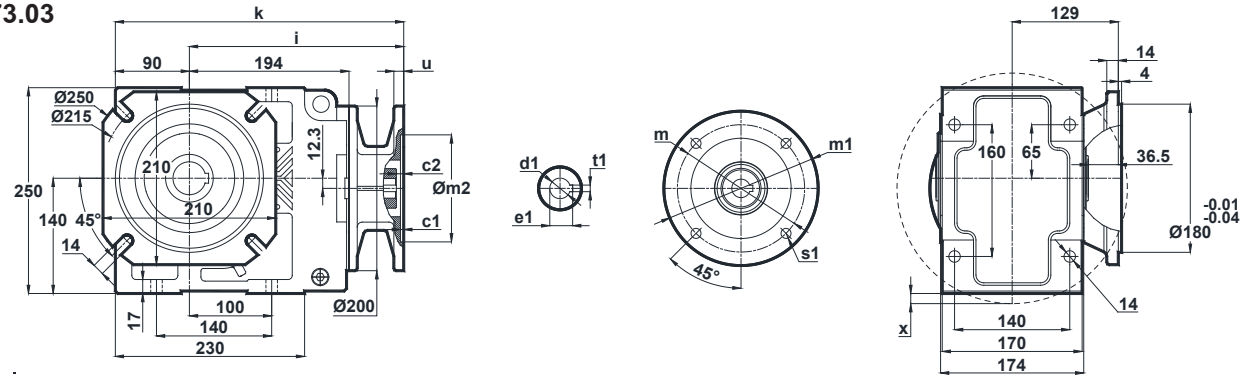


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	260.5	12	350.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	260.5	12	350.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	260.5	12	350.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	277.5	15	367.5	28	8	31.3	-
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	297.5	15	387.5	38	10	41.3	22.3 -

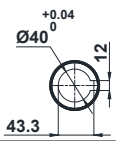
KN373.03

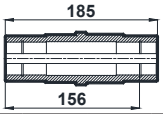


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

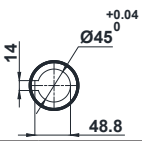
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

Std.





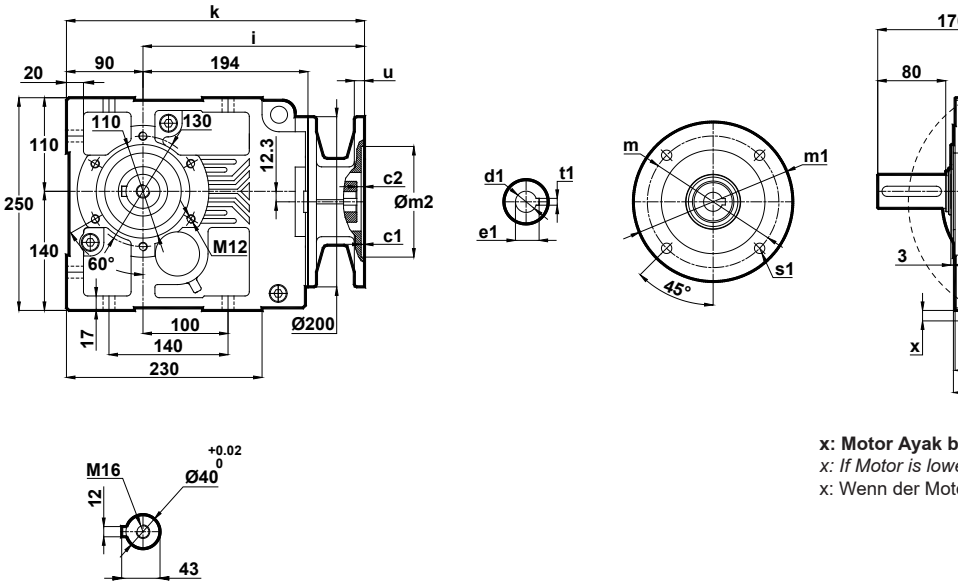
Ops.



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	260.5	12	350.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	260.5	12	350.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	260.5	12	350.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	277.5	15	367.5	28	8	31.3	-
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	297.5	15	387.5	38	10	41.3	22.3 -

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

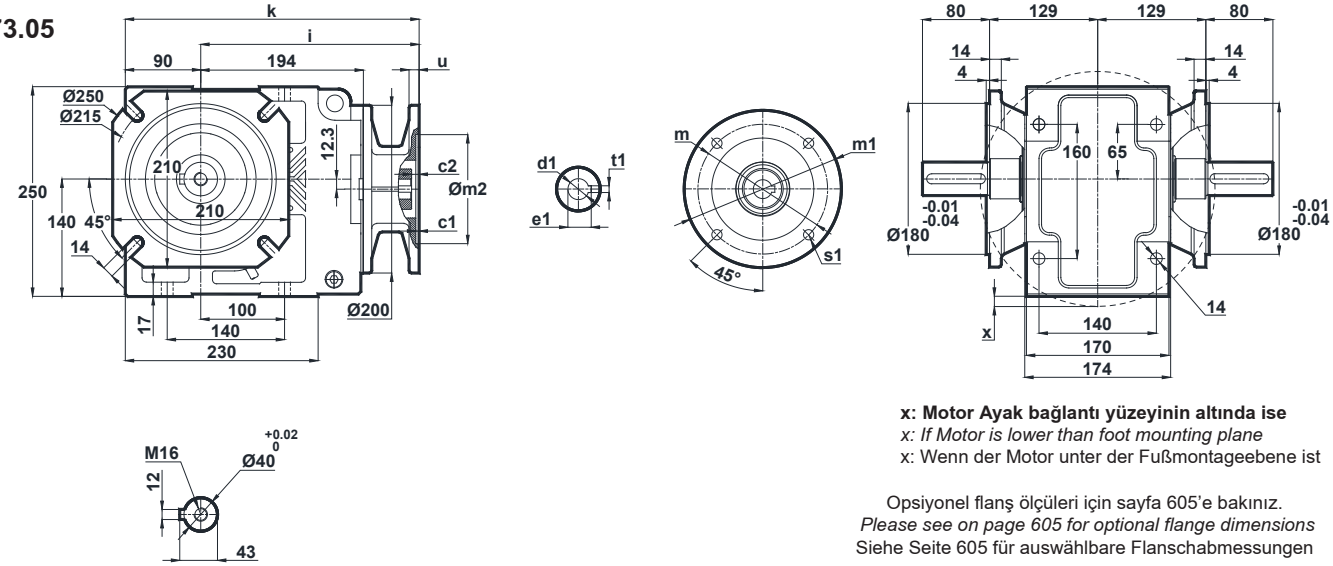
KN373.04



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	260.5	12	350.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	260.5	12	350.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	260.5	12	350.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	277.5	15	367.5	28	8	31.3	-
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	297.5	15	387.5	38	10	41.3	22.3 -

KN373.05



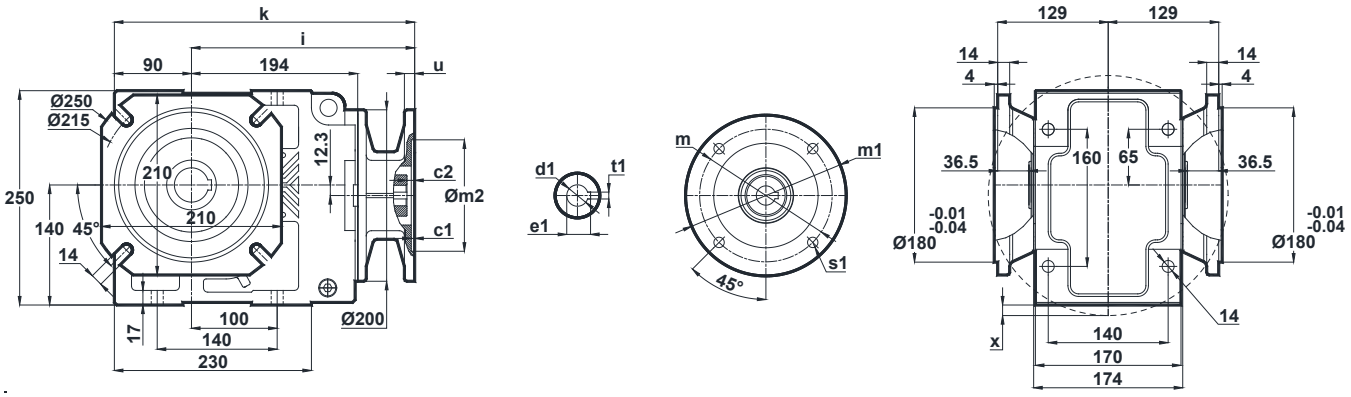
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

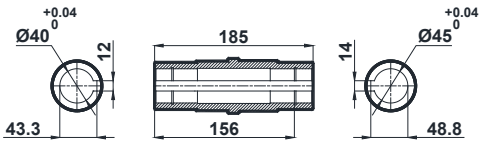
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	260.5	12	350.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	260.5	12	350.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	260.5	12	350.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	277.5	15	367.5	28	8	31.3	-
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	297.5	15	387.5	38	10	41.3	22.3 -

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN373.08





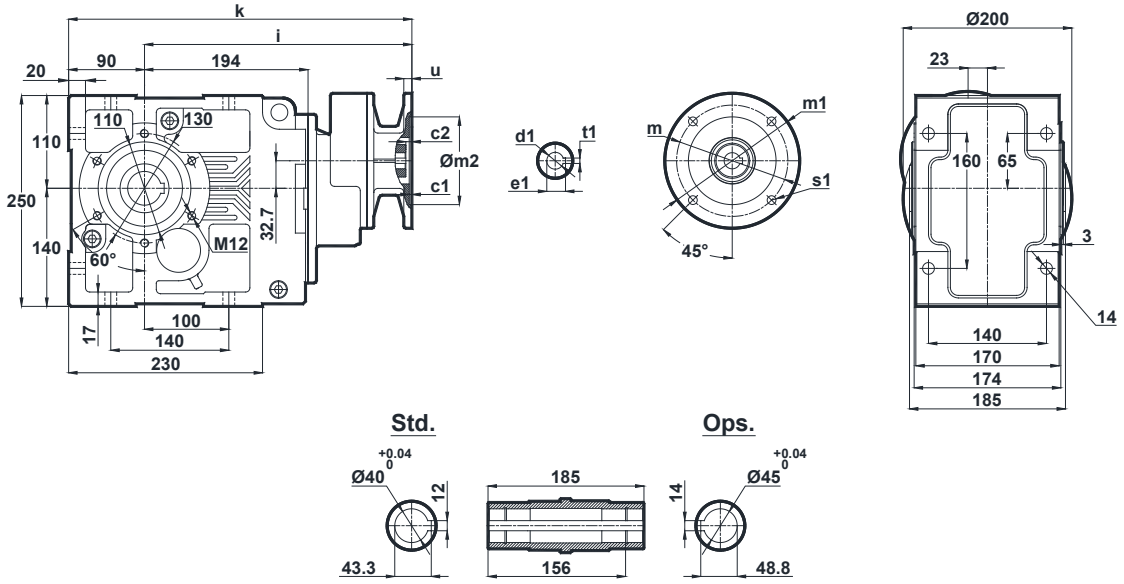
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	260.5	12	350.5	14	5	16.3	-
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	260.5	12	350.5	19	6	21.8	-
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	260.5	12	350.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	277.5	15	367.5	28	8	31.3	-
132/B5 **132/B14**	4.5	7	15 11	265 165	300 200	230 130	297.5	15	387.5	38	10	41.3	22.3 -

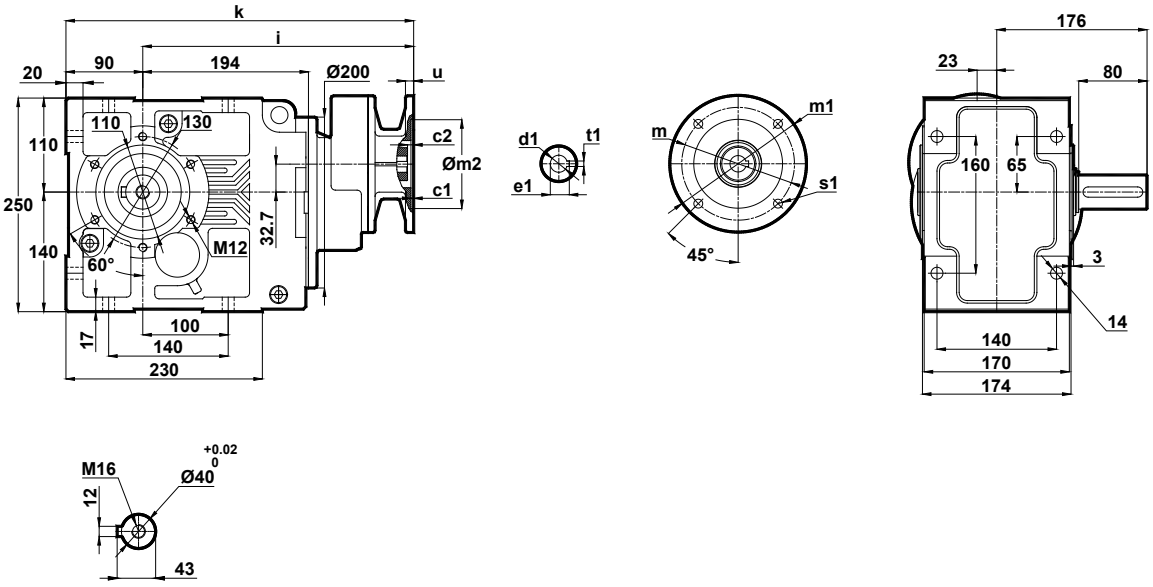
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN374.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	337.5	12	427.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	308.5	12 10	398.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	337.5	12	427.5	19	6	21.8

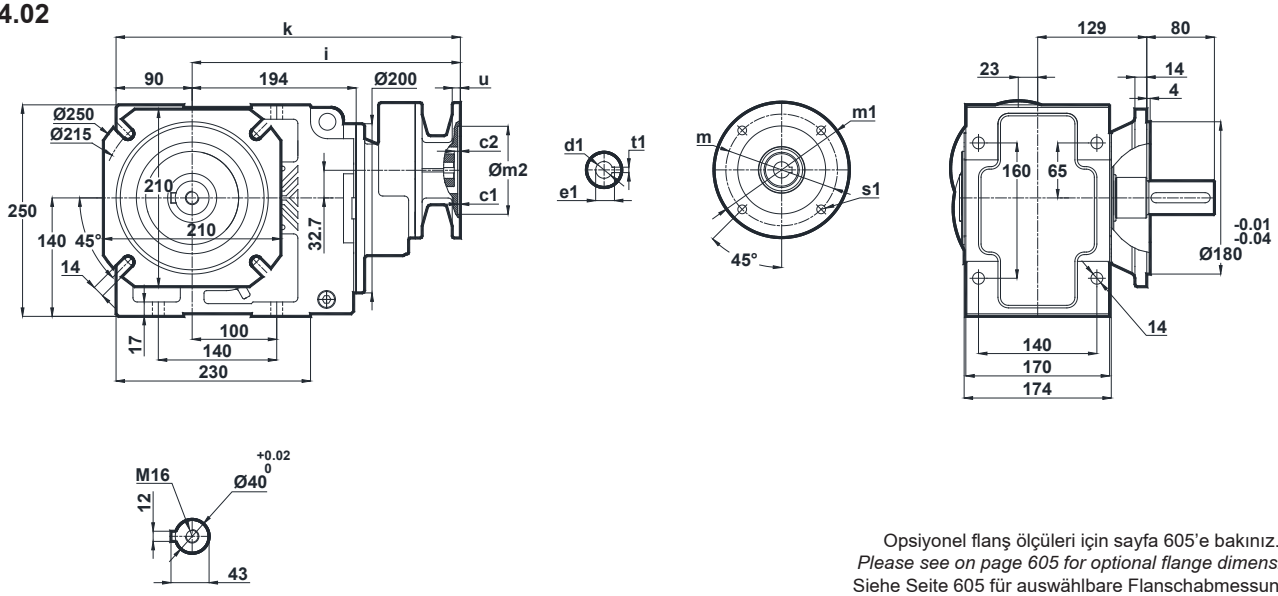
KN374.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	337.5	12	427.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	308.5	12 10	398.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	337.5	12	427.5	19	6	21.8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

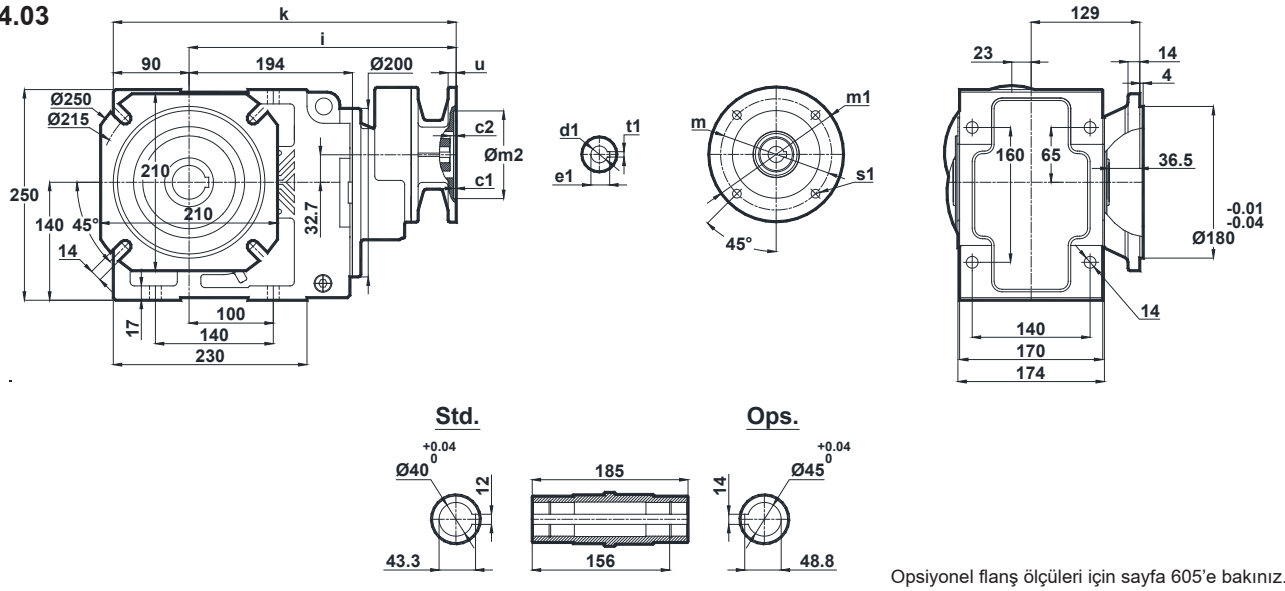
KN374.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	337.5	12	427.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	308.5	12 10	398.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	337.5	12	427.5	19	6	21.8

KN374.03

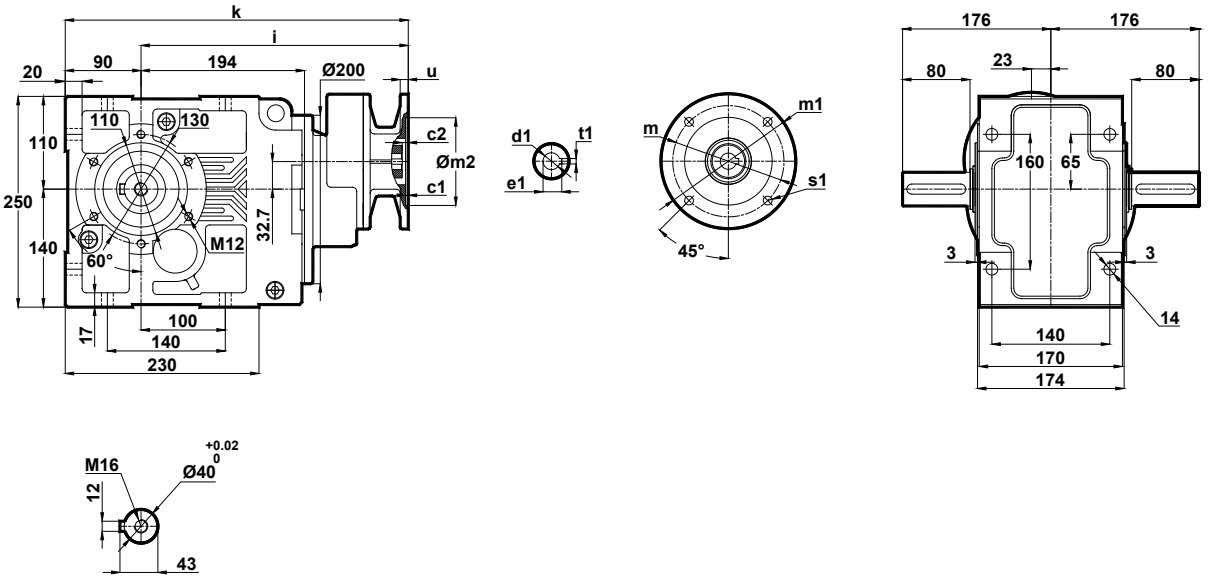


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	337.5	12	427.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	308.5	12 10	398.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	337.5	12	427.5	19	6	21.8

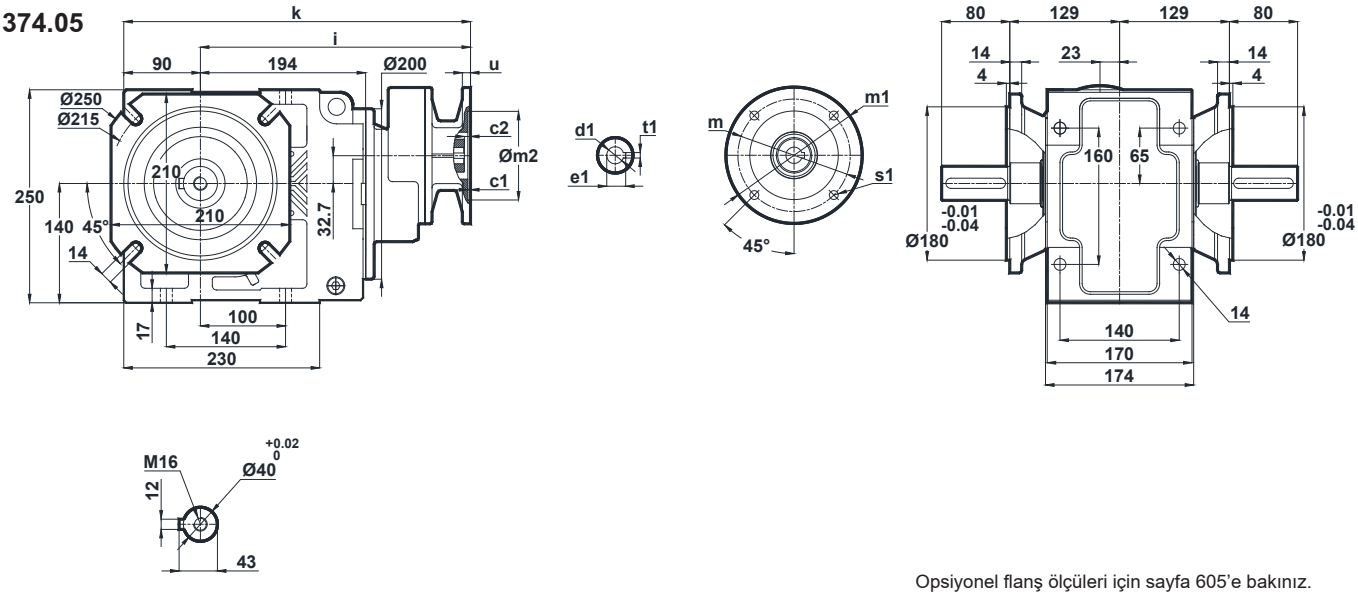
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN374.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	337.5	12	427.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	308.5	12 10	398.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	337.5	12	427.5	19	6	21.8

KN374.05

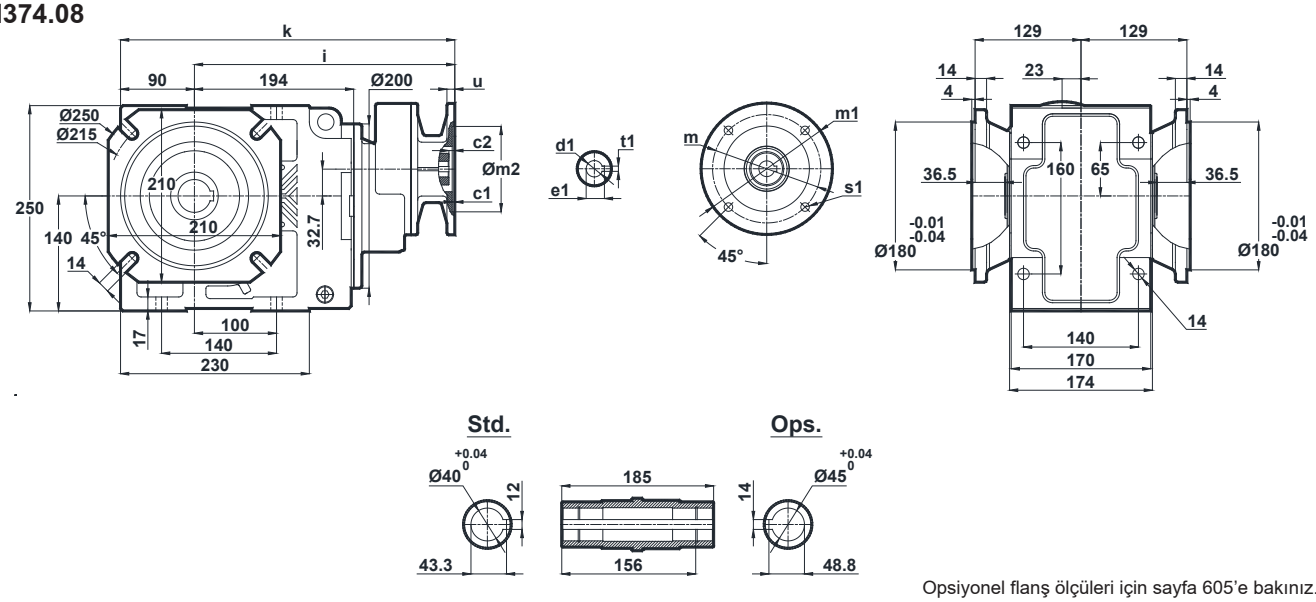


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	337.5	12	427.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	308.5	12 10	398.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	337.5	12	427.5	19	6	21.8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN374.08

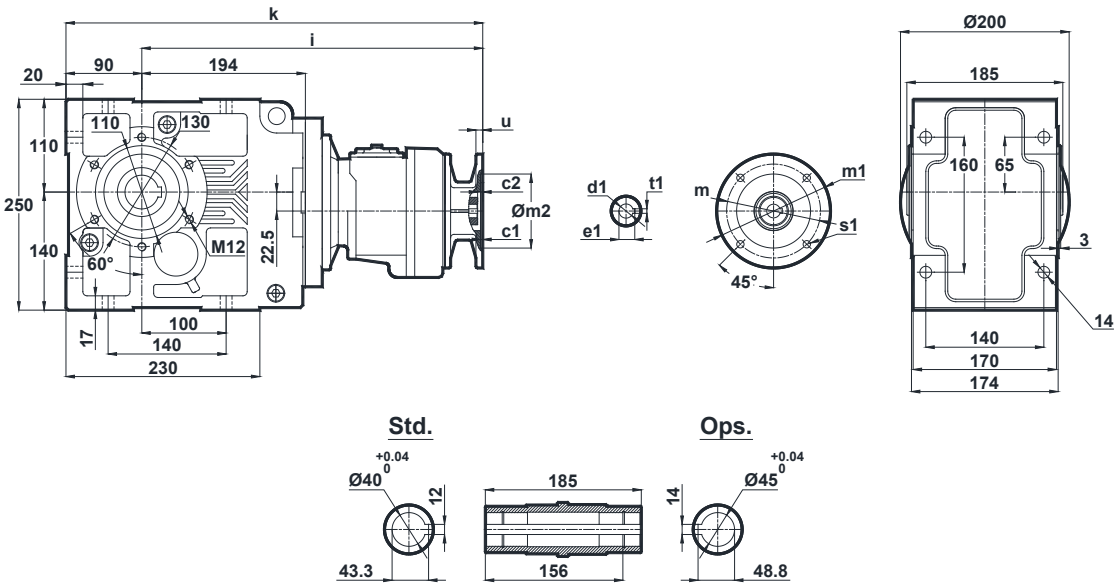


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	337.5	12	427.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	308.5	12 10	398.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	337.5	12	427.5	19	6	21.8

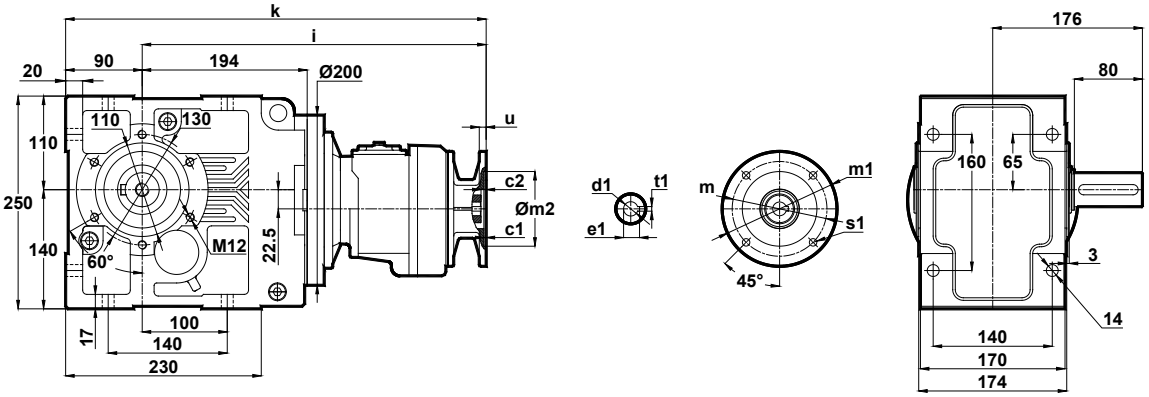
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

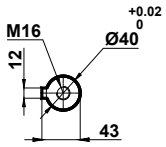
KN375.00
KN376.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	403	10	493	11	4	12.8
63/B14	2.5		5.5	75	90	60						
71/B5	4	4.5	11	130	160	110	404.5	12	494.5	14	5	16.3
71/B14	3		7	85	105	70		10				

KN375.01
KN376.01

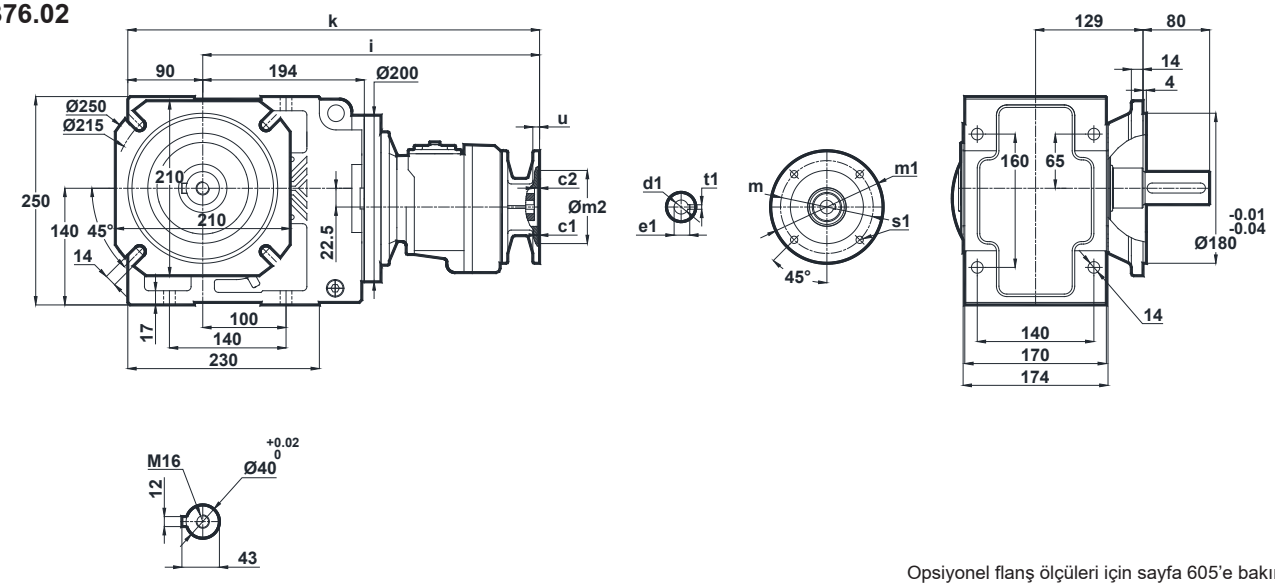




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	403	10	493	11	4	12.8
63/B14	2.5		5.5	75	90	60						
71/B5	4	4.5	11	130	160	110	404.5	12	494.5	14	5	16.3
71/B14	3		7	85	105	70		10				

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

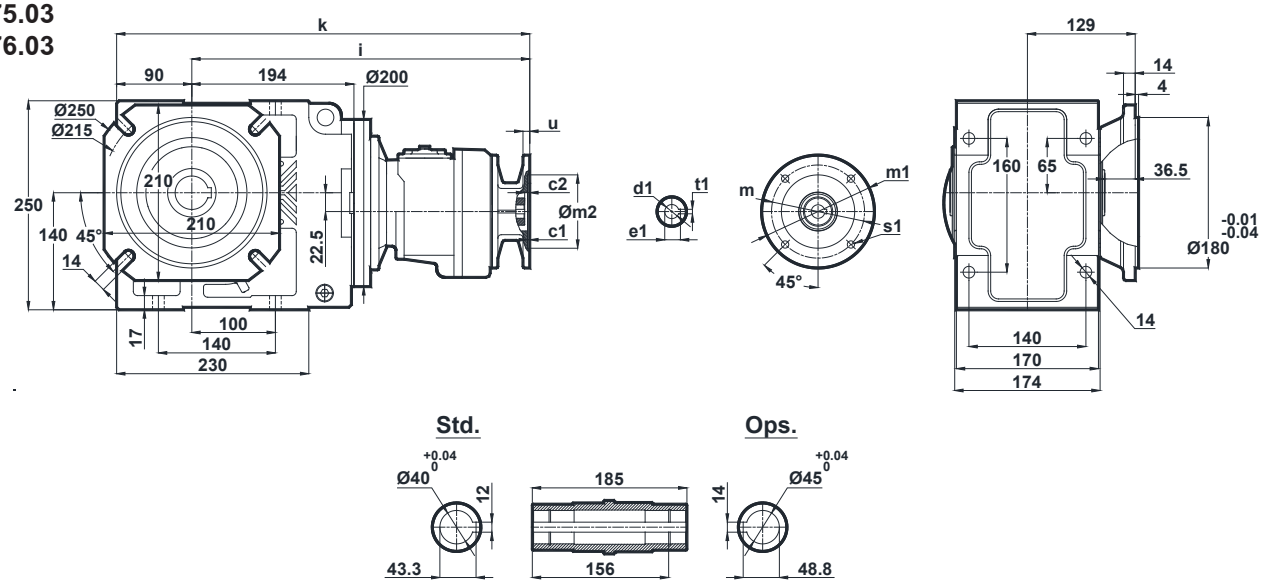
KN375.02
KN376.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	403	10	493	11	4	12.8
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	404.5	12 10	494.5	14	5	16.3

KN375.03
KN376.03



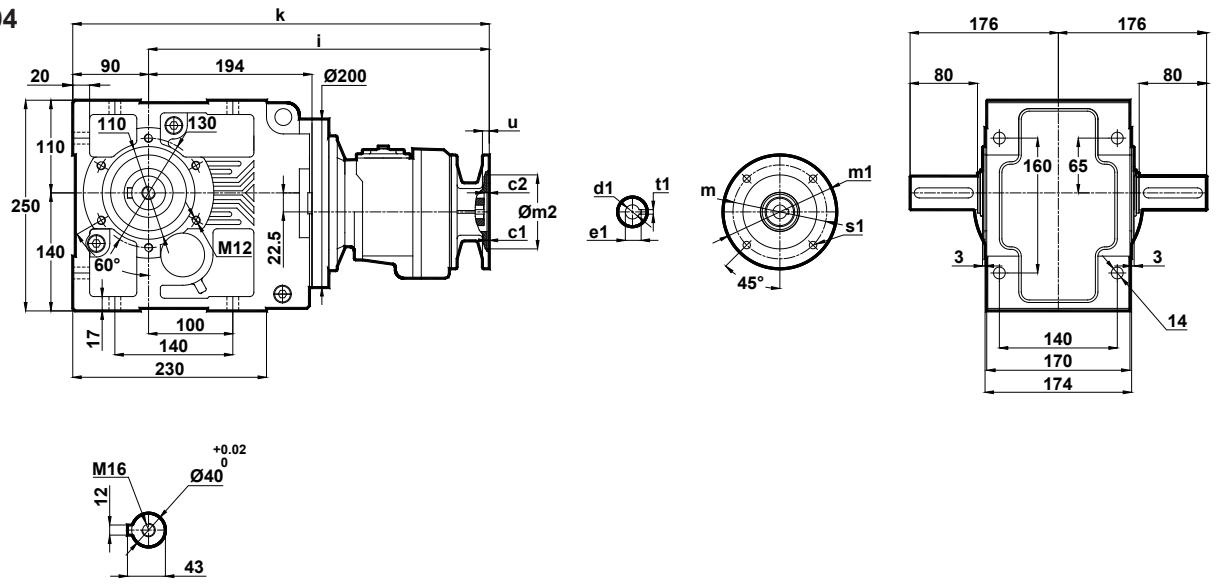
Std. **Ops.**

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5 **63/B14**	3.5 2.5	5	10 5.5	115 75	140 90	95 60	403	10	493	11	4	12.8
71/B5 **71/B14**	4 3	4.5	11 7	130 85	160 105	110 70	404.5	12 10	494.5	14	5	16.3

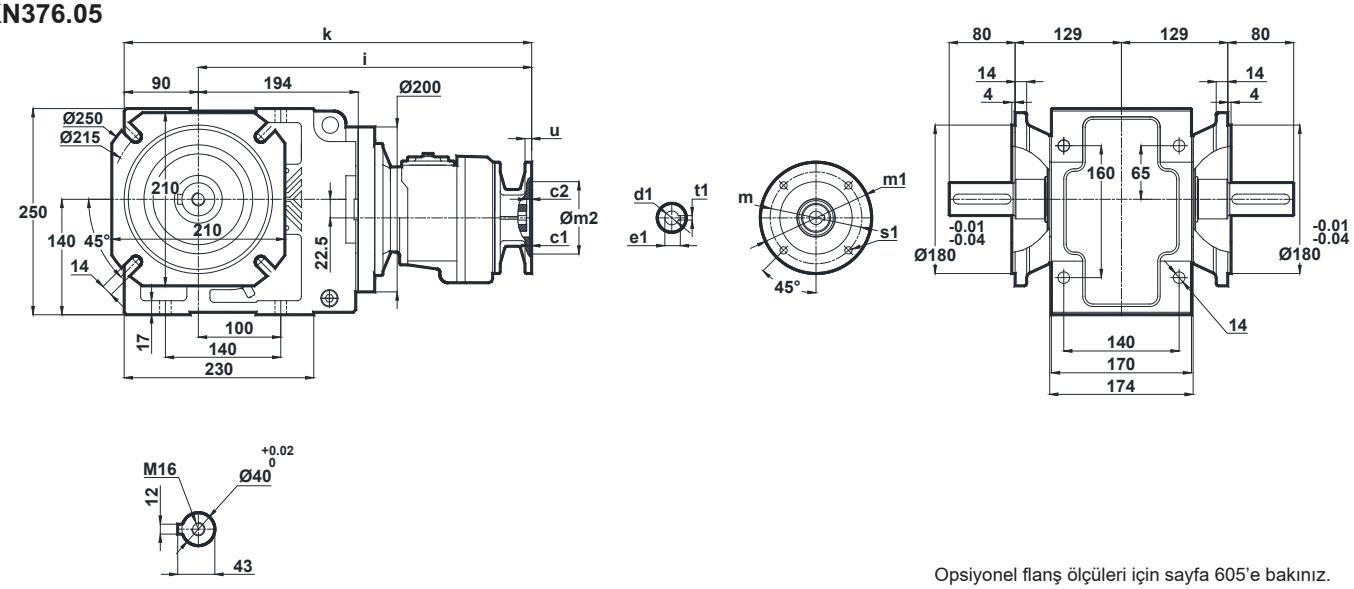
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN375.04
KN376.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	403	10	493	11	4	12.8
63/B14	2.5		5.5	75	90	60						
71/B5	4	4.5	11	130	160	110	404.5	12	494.5	14	5	16.3
71/B14	3		7	85	105	70		10				

KN375.05
KN376.05

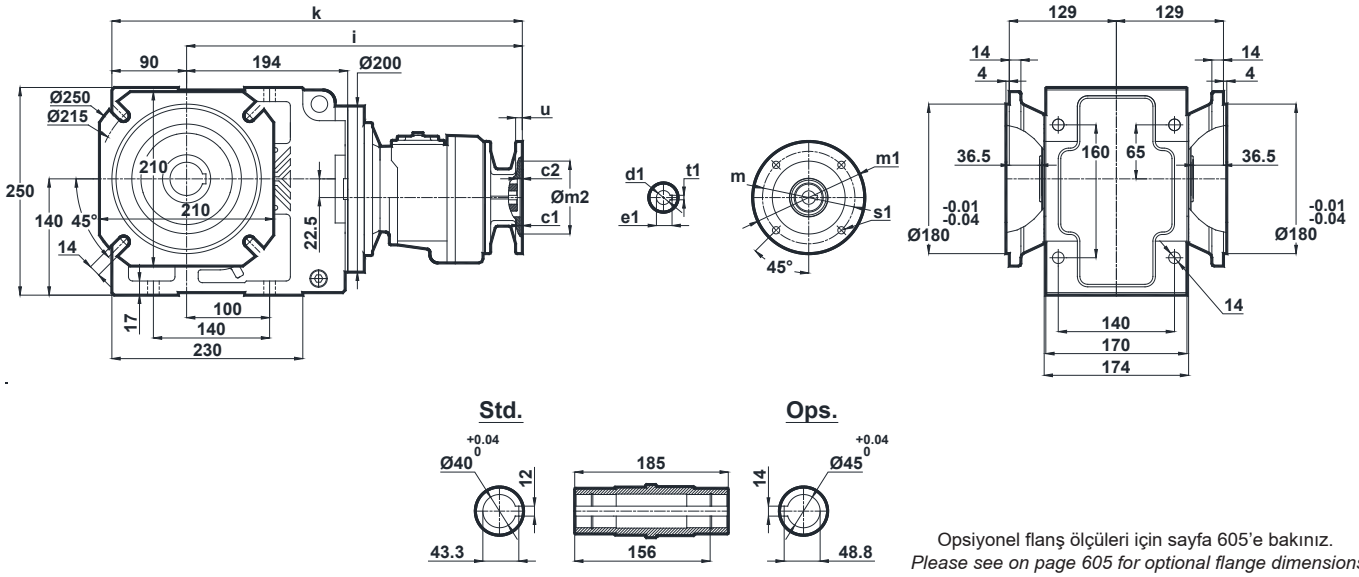


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	403	10	493	11	4	12.8
63/B14	2.5		5.5	75	90	60						
71/B5	4	4.5	11	130	160	110	404.5	12	494.5	14	5	16.3
71/B14	3		7	85	105	70		10				

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN375.08
KN376.08

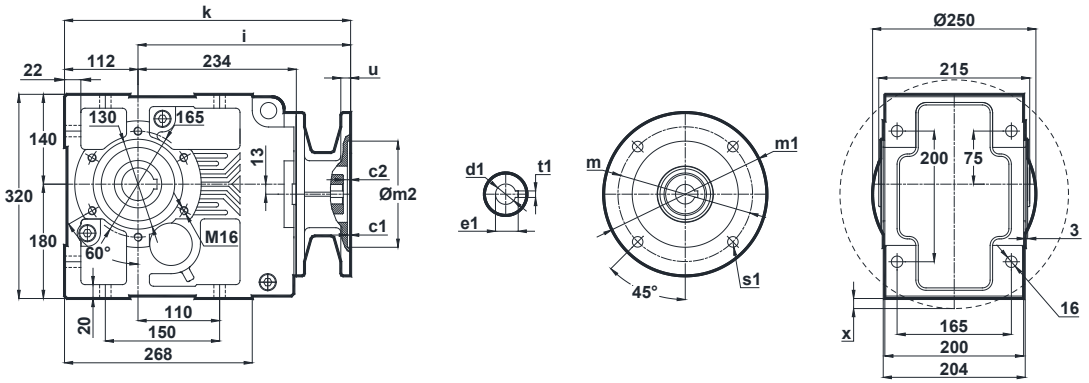


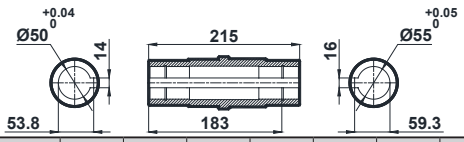
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	403	10	493	11	4	12.8
63/B14	2.5		5.5	75	90	60						
71/B5	4	4.5	11	130	160	110	404.5	12	494.5	14	5	16.3
71/B14	3		7	85	105	70		10				

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN473.00

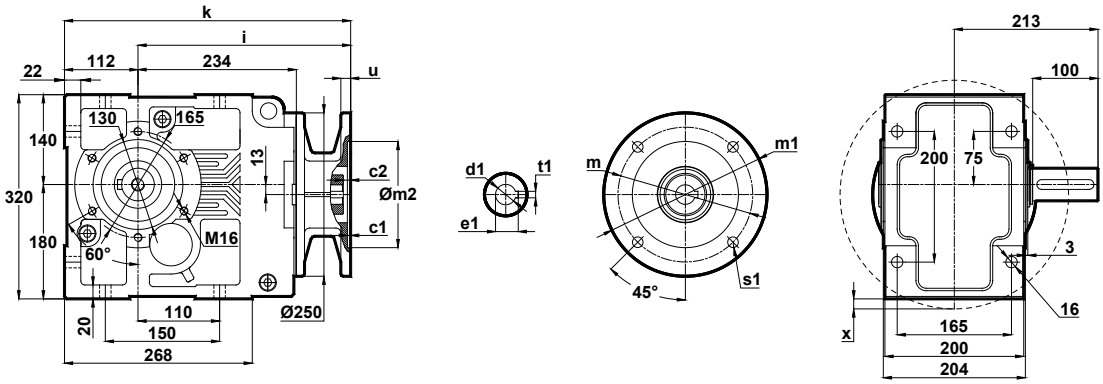


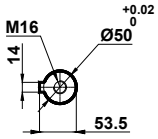


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	165	200	130	290.5	12	402.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	290.5	12	402.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	309	15	421	28	8	31.3	-
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	327.5	15	439.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	407	20	519	42	12	45.3	8
180/B5	5.5	10	19	300	350	250	407	20	519	48	14	51.8	8

KN473.01



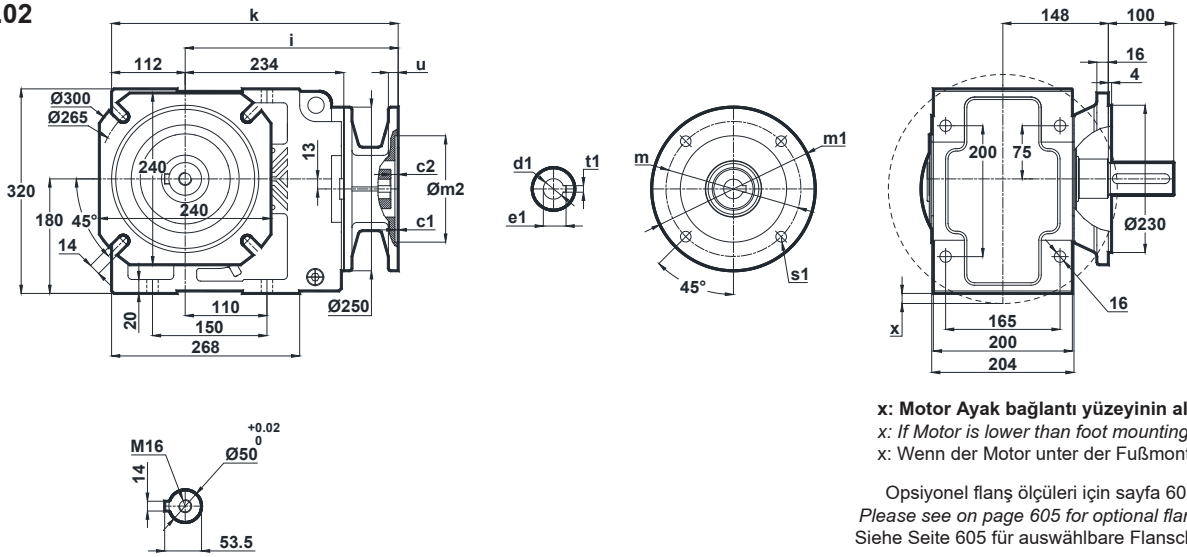


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	165	200	130	290.5	12	402.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	290.5	12	402.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	309	15	421	28	8	31.3	-
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	327.5	15	439.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	407	20	519	42	12	45.3	8
180/B5	5.5	10	19	300	350	250	407	20	519	48	14	51.8	8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN473.02

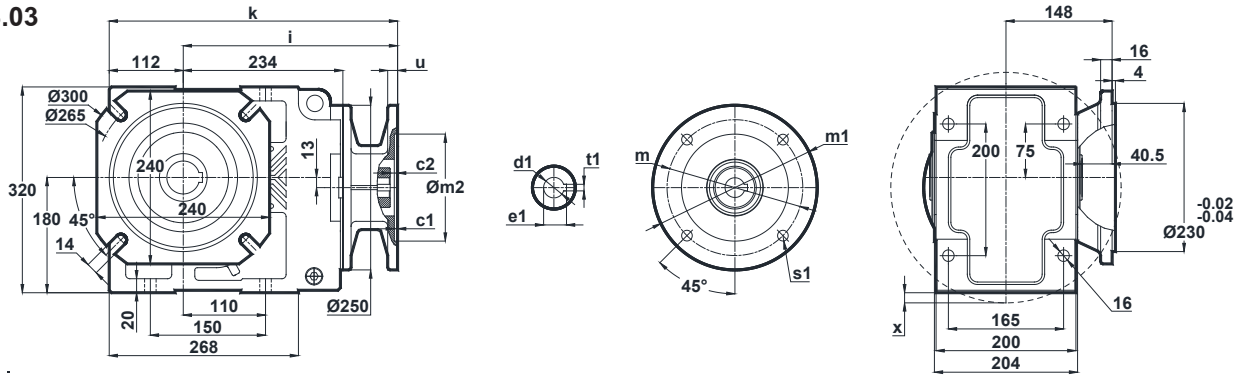


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

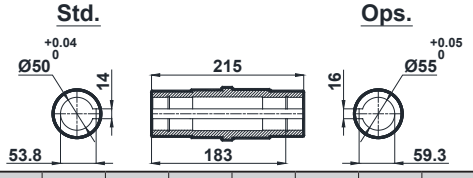
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	165	200	130	290.5	12	402.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	290.5	12	402.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	309	15	421	28	8	31.3	-
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	327.5	15	439.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	407	20	519	42	12	45.3	8
180/B5	5.5	10	19	300	350	250	407	20	519	48	14	51.8	8

KN473.03



Std. **Ops.**



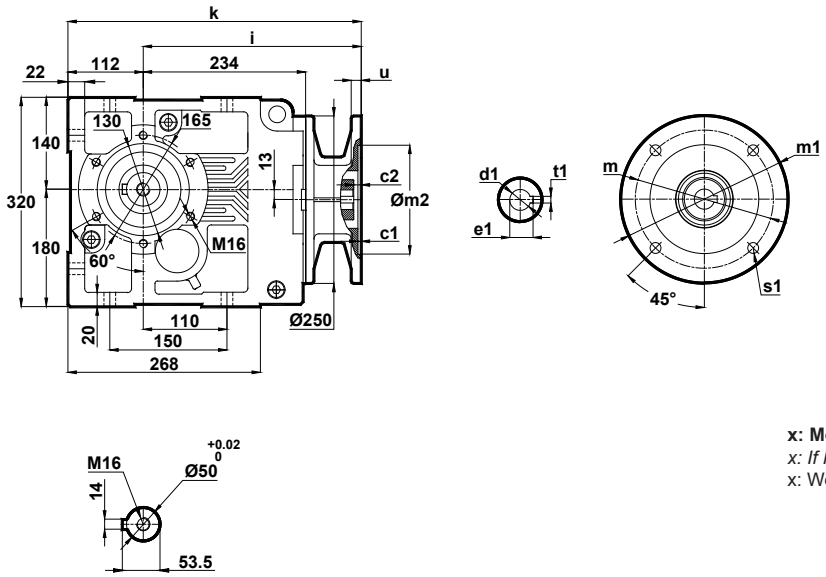
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	165	200	130	290.5	12	402.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	290.5	12	402.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	309	15	421	28	8	31.3	-
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	327.5	15	439.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	407	20	519	42	12	45.3	8
180/B5	5.5	10	19	300	350	250	407	20	519	48	14	51.8	8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

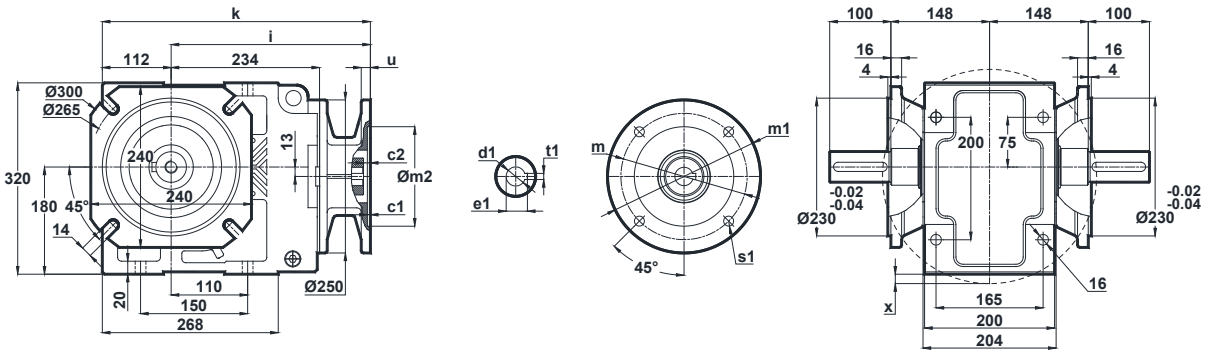
KN473.04

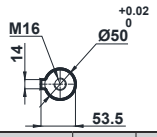


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	165	200	130	290.5	12	402.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	290.5	12	402.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	309	15	421	28	8	31.3	-
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	327.5	15	439.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	407	20	519	42	12	45.3	8
180/B5	5.5	10	19	300	350	250	407	20	519	48	14	51.8	8

KN473.05





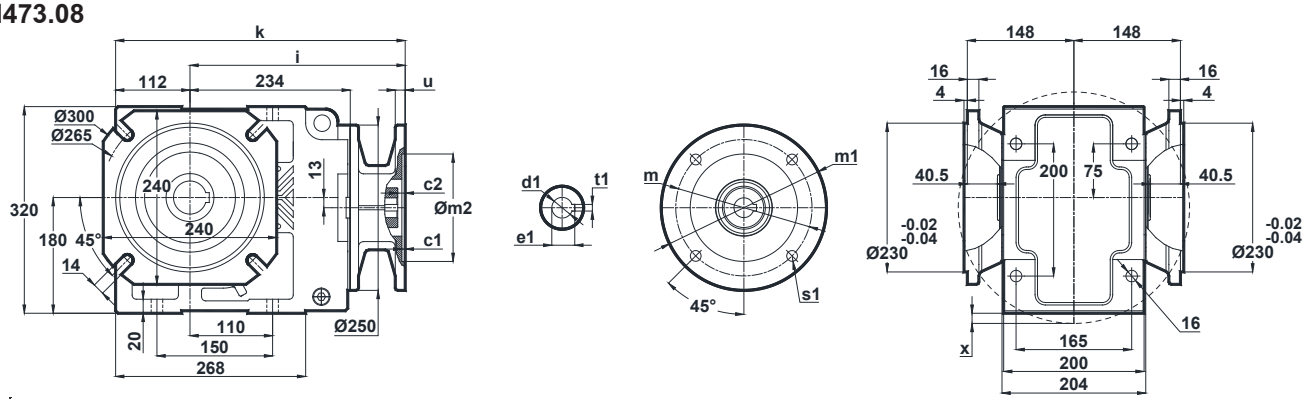
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

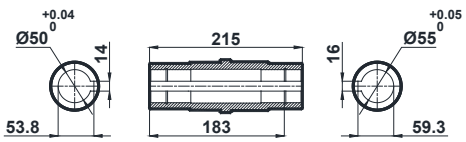
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	165	200	130	290.5	12	402.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	290.5	12	402.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	309	15	421	28	8	31.3	-
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	327.5	15	439.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	407	20	519	42	12	45.3	8
180/B5	5.5	10	19	300	350	250	407	20	519	48	14	51.8	8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN473.08





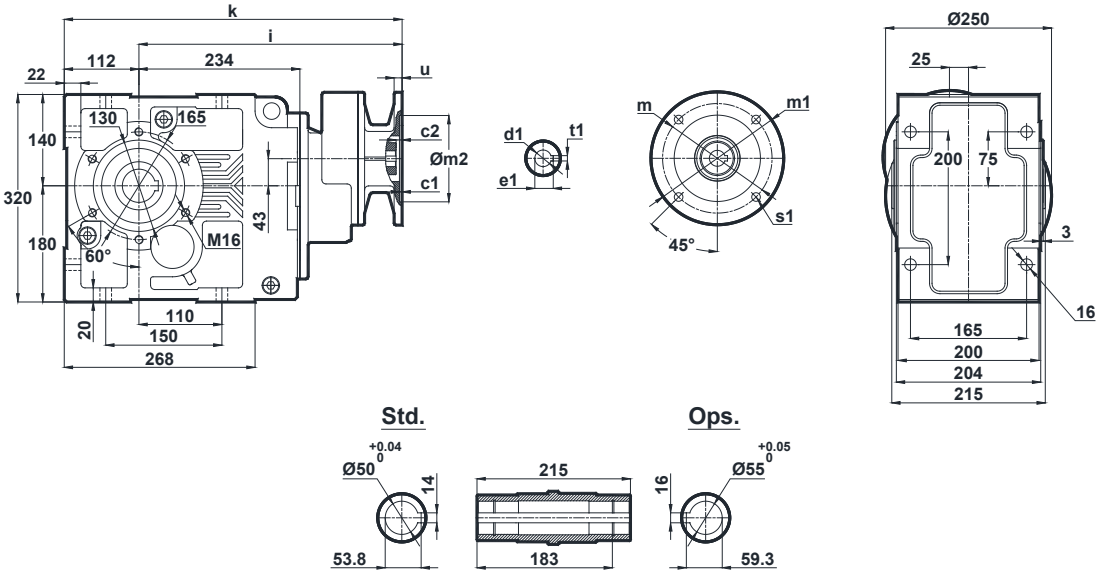
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	165	200	130	290.5	12	402.5	19	6	21.8	-
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	290.5	12	402.5	24	8	27.3	-
100-112/B5 **100-112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	309	15	421	28	8	31.3	-
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	327.5	15	439.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	407	20	519	42	12	45.3	8
180/B5	5.5	10	19	300	350	250	407	20	519	48	14	51.8	8

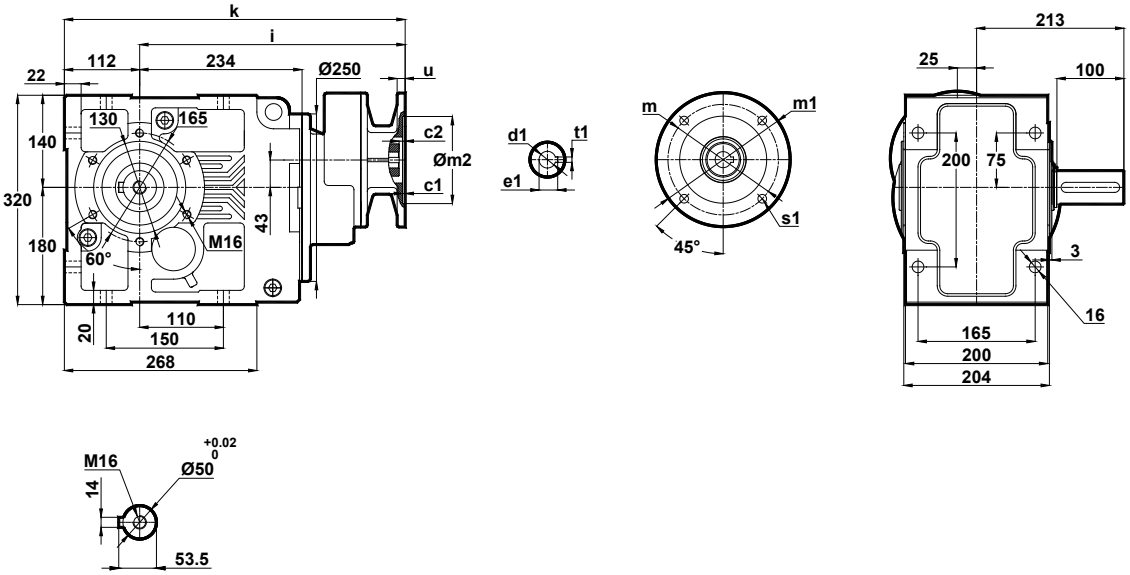
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN474.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	388.5	12	500.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	388.5	12	500.5	19	6	21.8

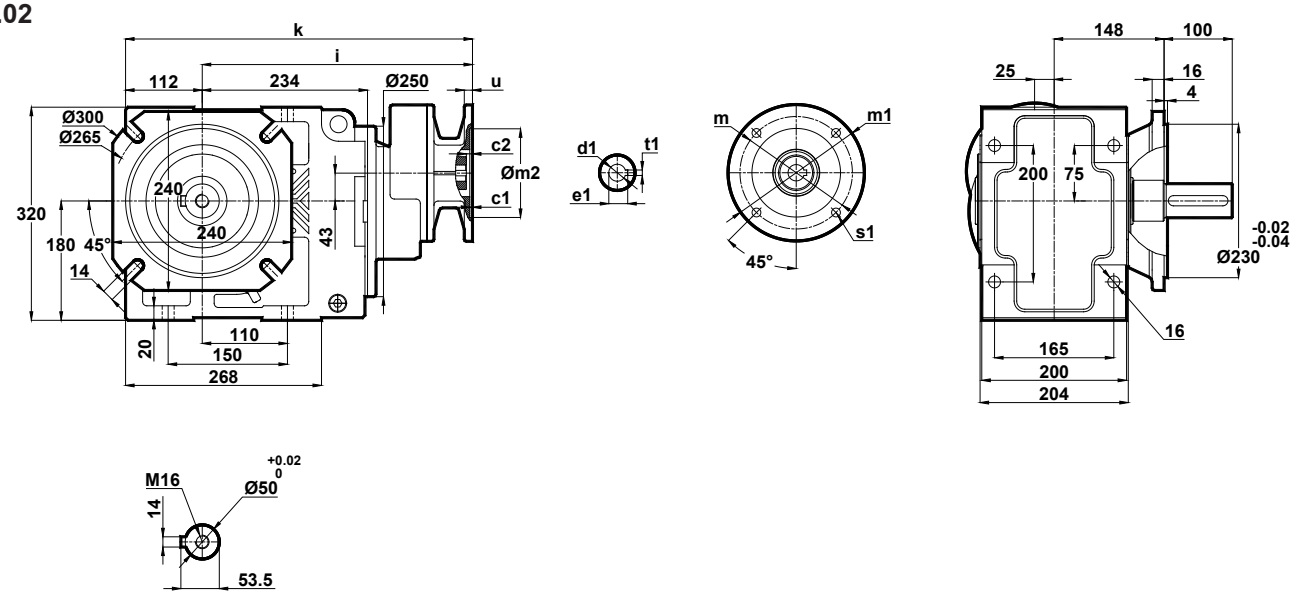
KN474.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	388.5	12	500.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	388.5	12	500.5	19	6	21.8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

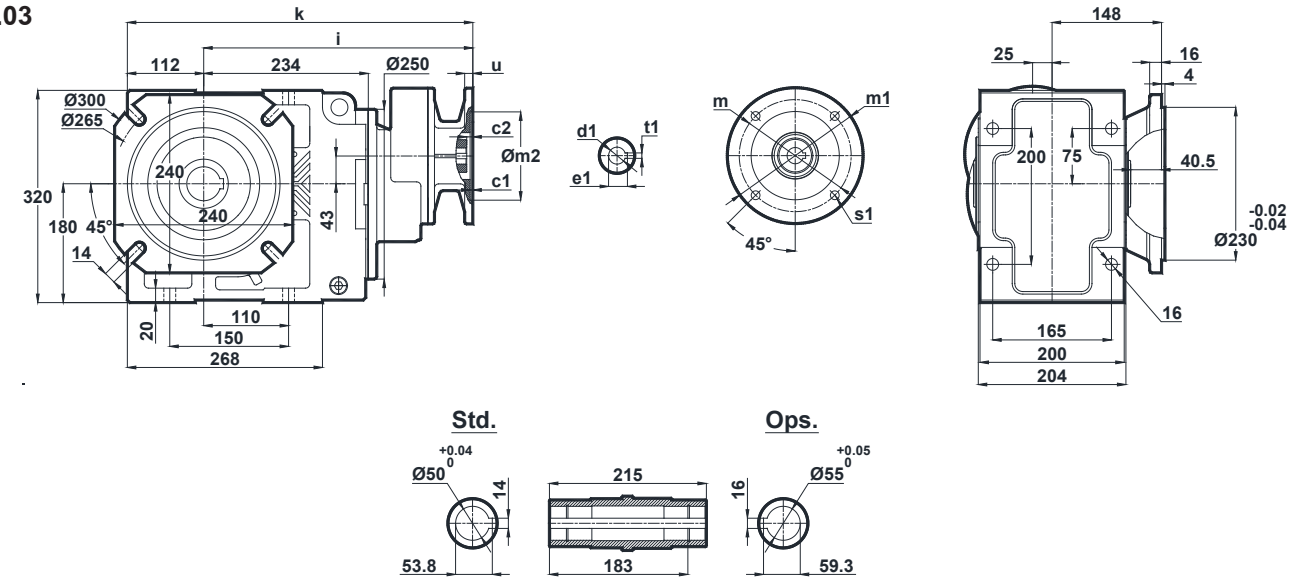
KN474.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	388.5	12	500.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	388.5	12	500.5	19	6	21.8

KN474.03



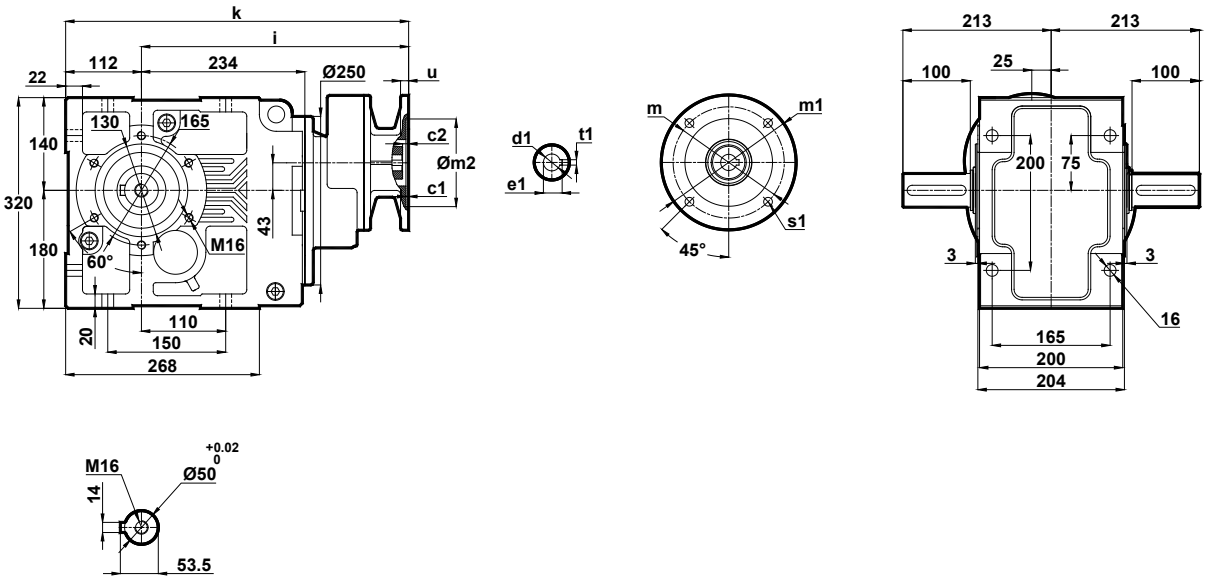
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	388.5	12	500.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	388.5	12	500.5	19	6	21.8

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

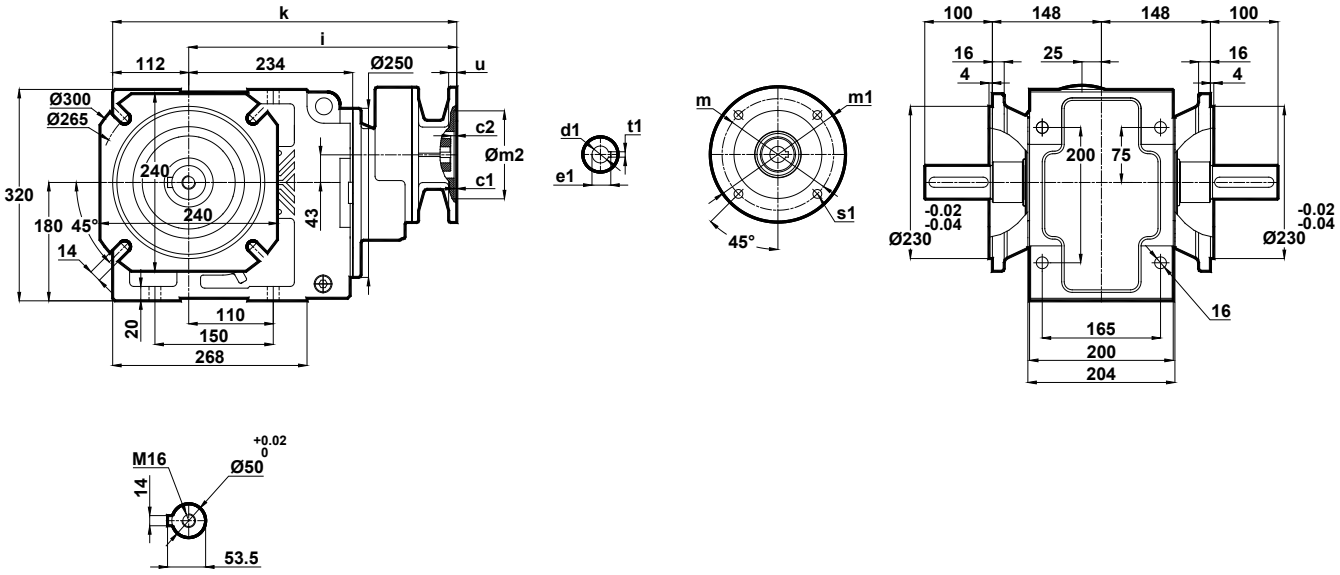
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN474.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	388.5	12	500.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	388.5	12	500.5	19	6	21.8

KN474.05

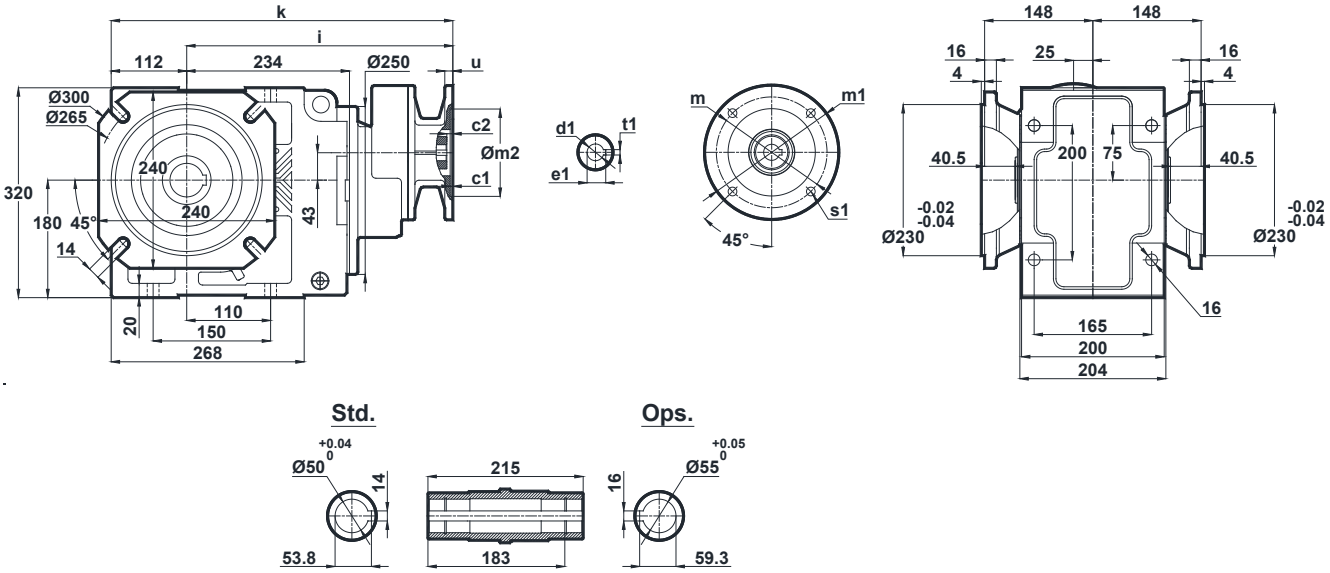


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	388.5	12	500.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	388.5	12	500.5	19	6	21.8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN474.08

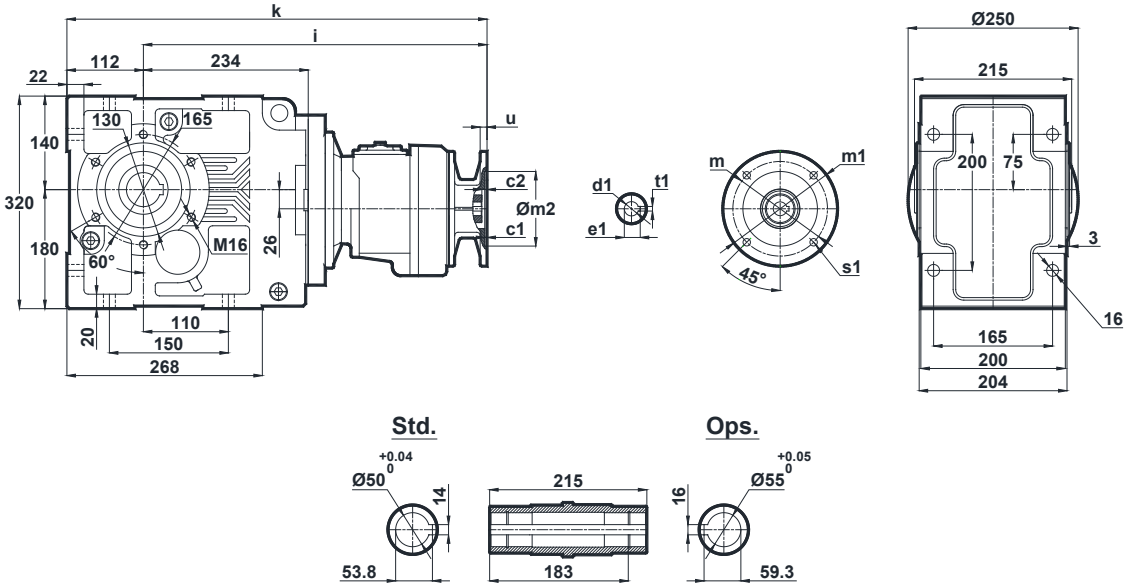


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	388.5	12	500.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	388.5	12	500.5	19	6	21.8

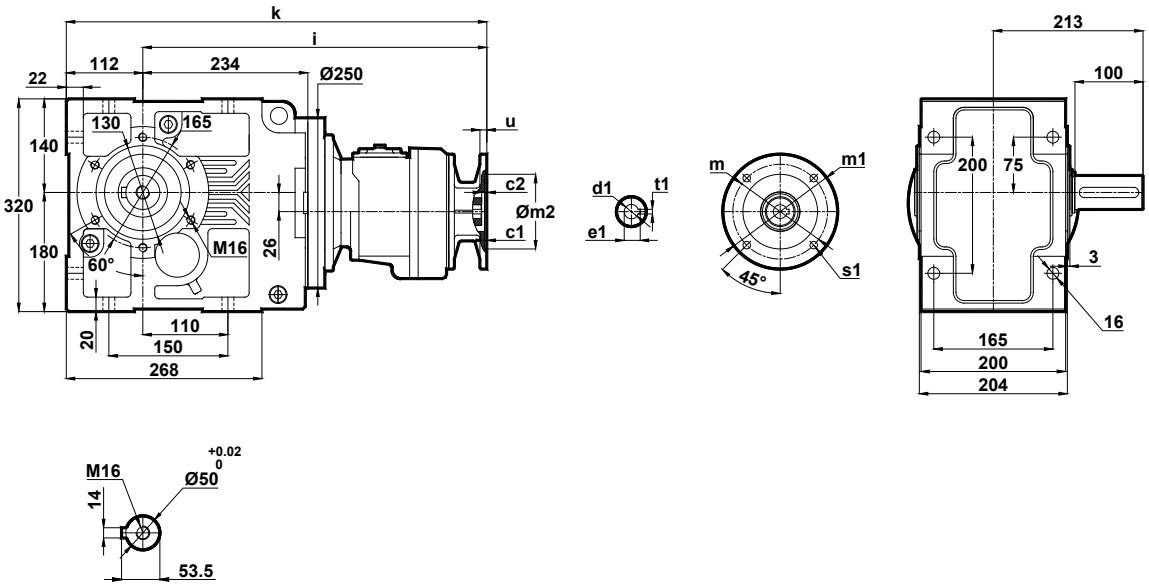
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN475.00
KN476.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	516.5	12	628.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	487.5	12 10	599.5	14	5	16.3

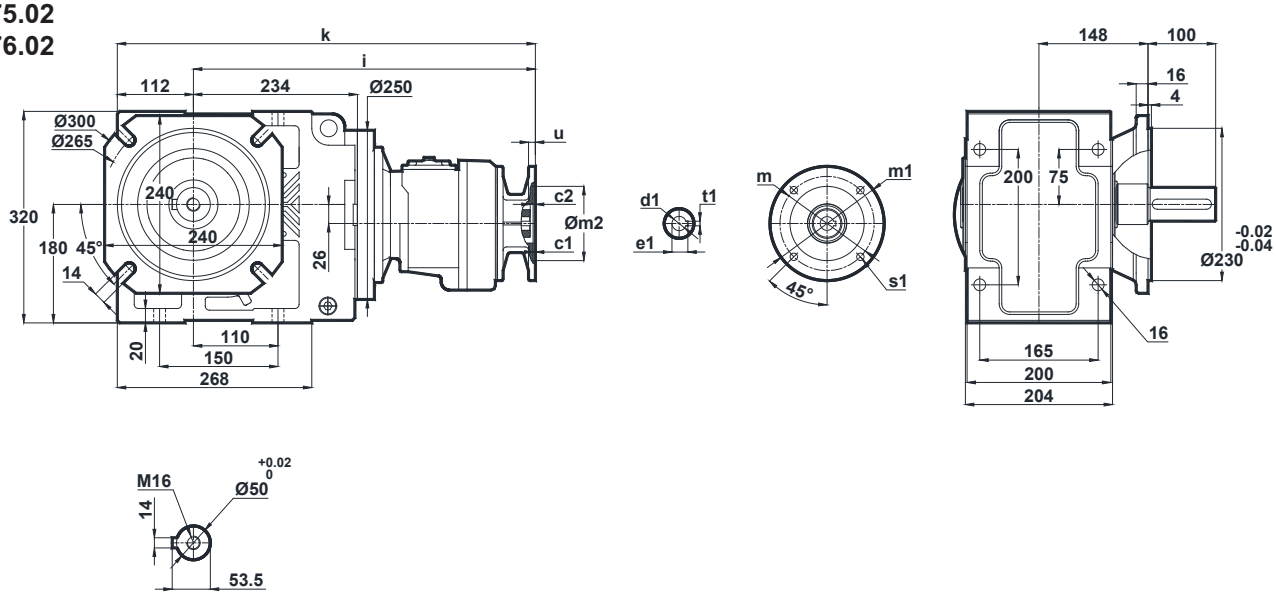
KN475.01
KN476.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	516.5	12	628.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	487.5	12 10	599.5	14	5	16.3

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

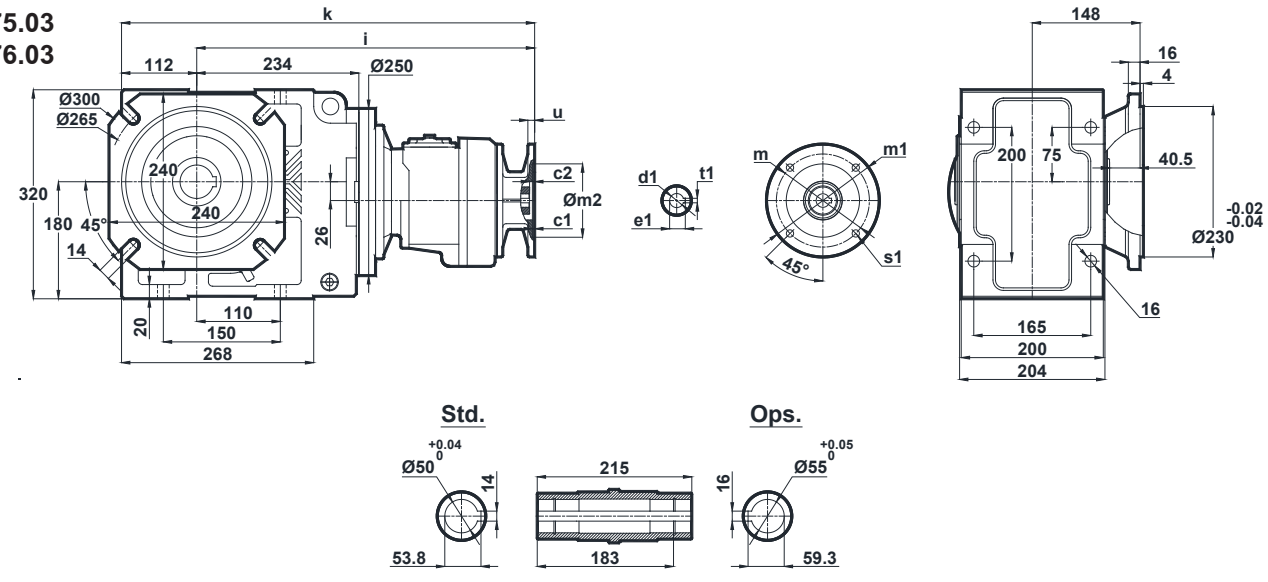
KN475.02
KN476.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	516.5	12	628.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	487.5	12 10	599.5	14	5	16.3

KN475.03
KN476.03



Std.

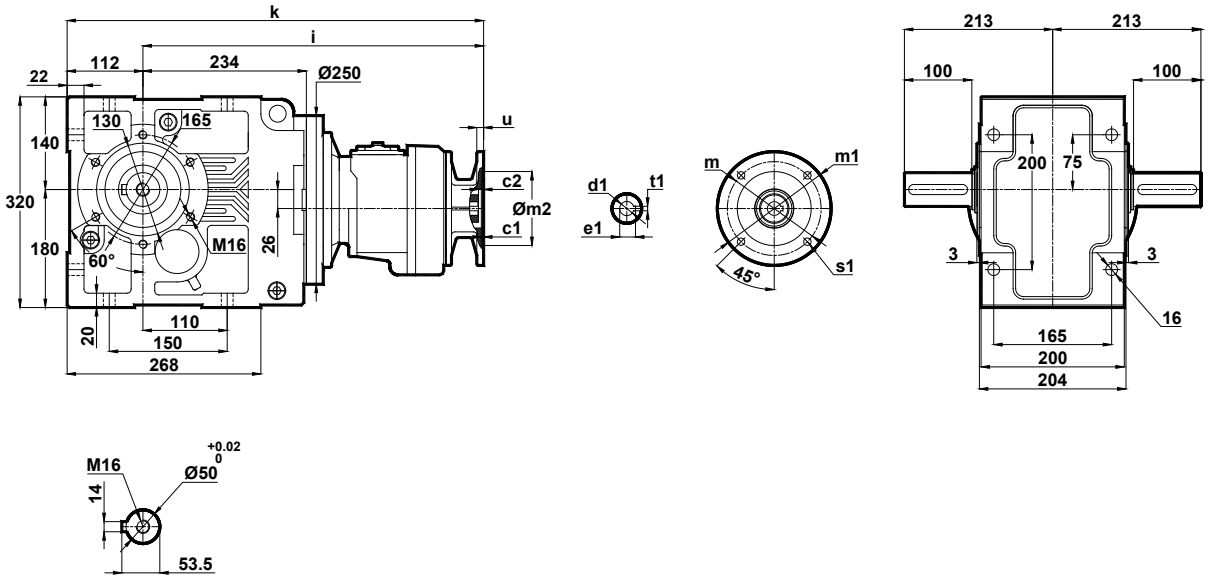
Ops.

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	516.5	12	628.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	487.5	12 10	599.5	14	5	16.3

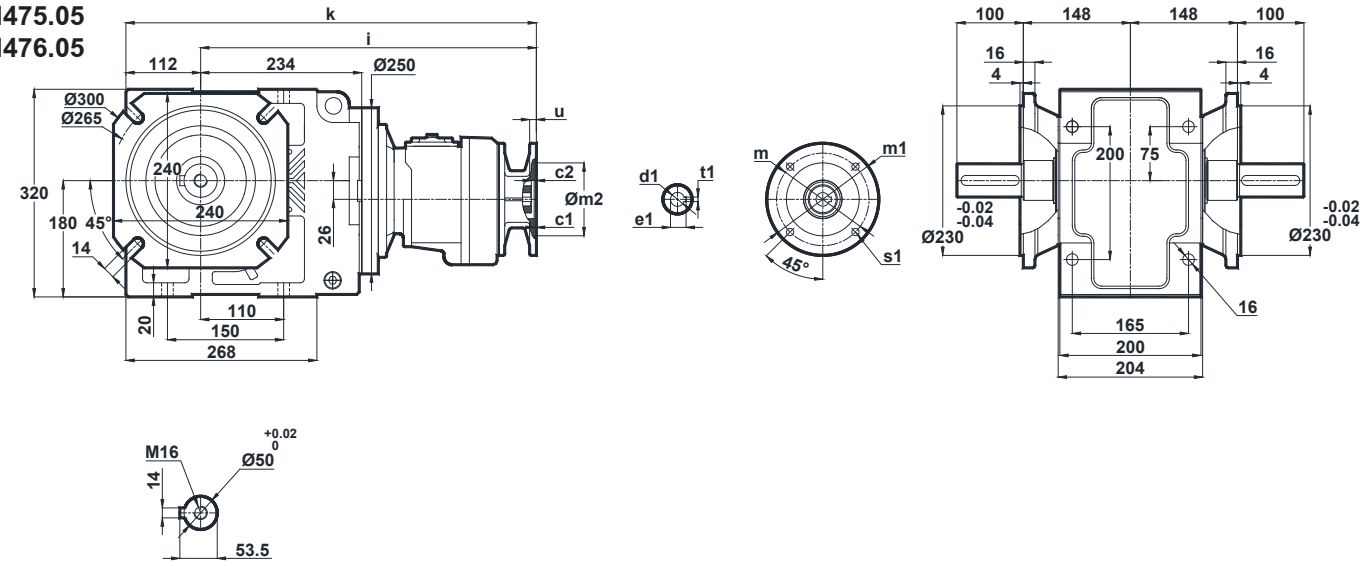
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN475.04
KN476.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	516.5	12	628.5	11	4	12.8
71/B5 71/B14	4 3	8.5	11 7	130 85	160 105	110 70	487.5	12 10	599.5	14	5	16.3

KN475.05
KN476.05

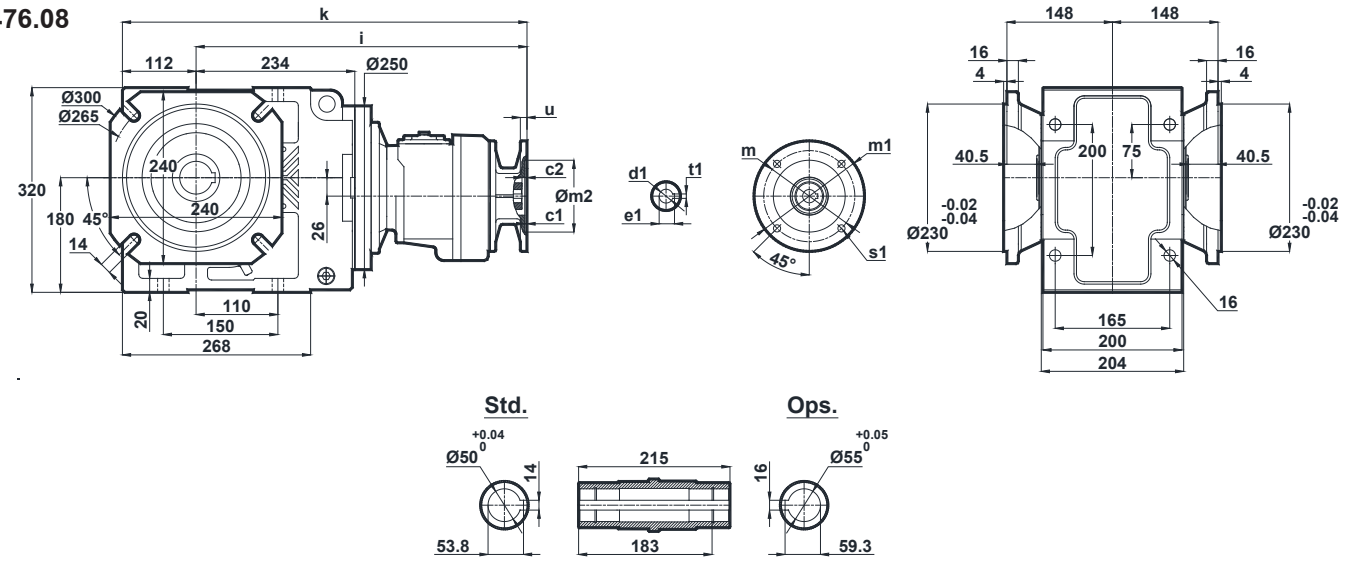


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	516.5	12	628.5	11	4	12.8
71/B5 71/B14	4 3	8.5	11 7	130 85	160 105	110 70	487.5	12 10	599.5	14	5	16.3

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN475.08
KN476.08

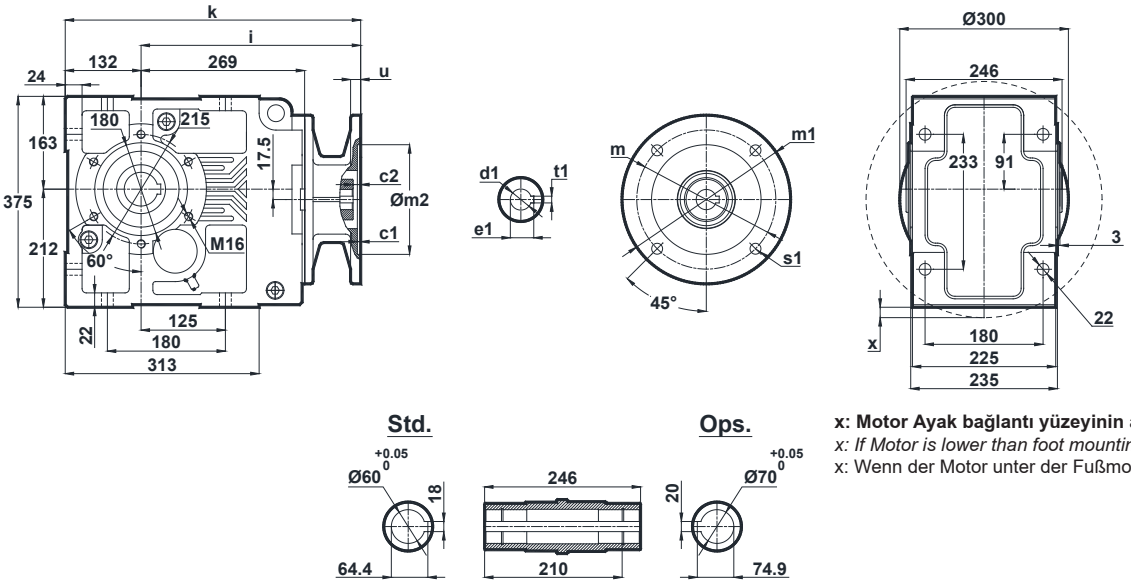


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	516.5	12	628.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	487.5	12 10	599.5	14	5	16.3

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

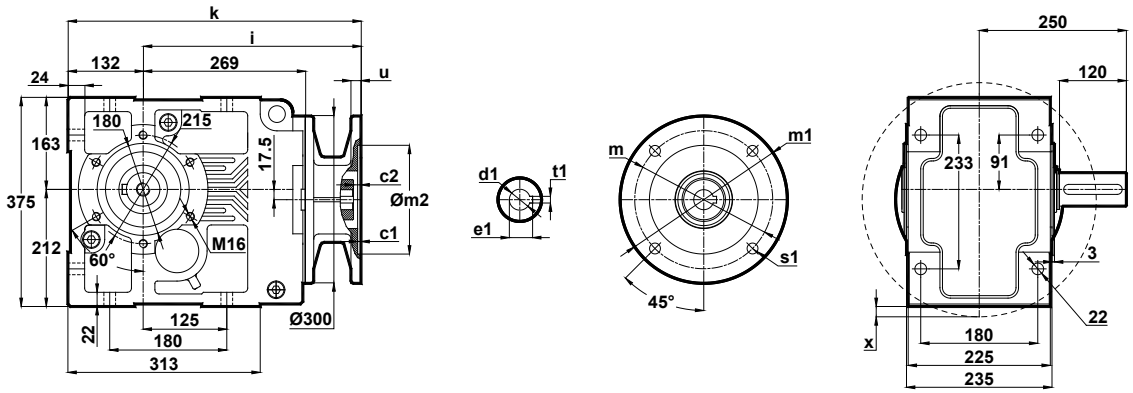
KN573.00

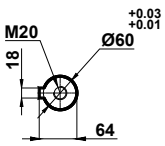


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100-112/B5	4.5	9	15	215	250	180	341.5	15	473.5	28	8	31.3	-
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	362.5	15	494.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	438	18	570	42	12	45.3	-
180/B5	5.5	10	19	300	350	250	438	18	570	48	14	51.8	-

KN573.01



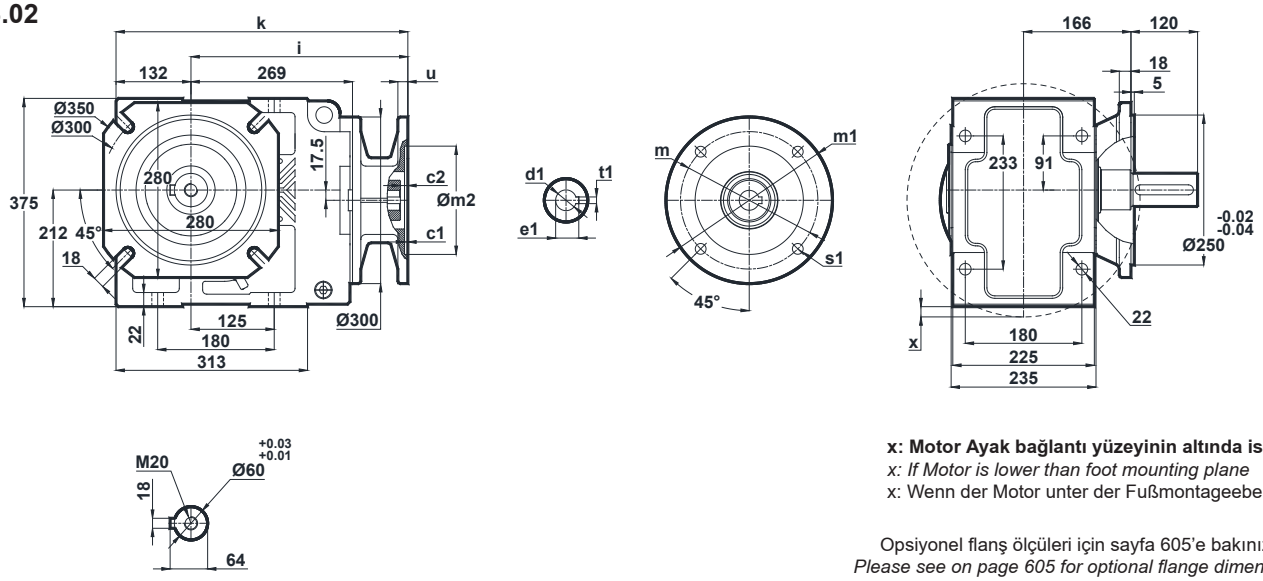


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100-112/B5	4.5	9	15	215	250	180	341.5	15	473.5	28	8	31.3	-
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	362.5	15	494.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	438	18	570	42	12	45.3	-
180/B5	5.5	10	19	300	350	250	438	18	570	48	14	51.8	-

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN573.02

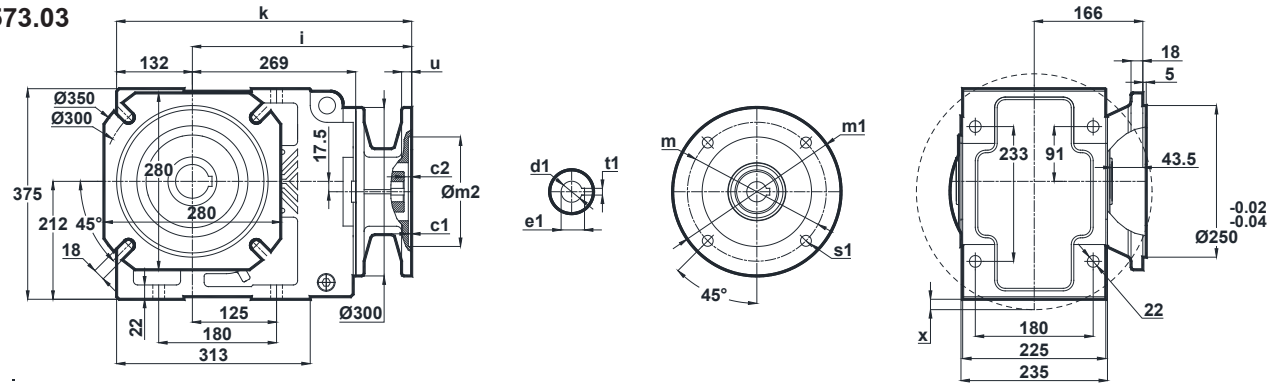


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

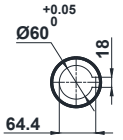
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

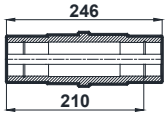
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100-112/B5	4.5	9	15	215	250	180	341.5	15	473.5	28	8	31.3	-
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	362.5	15	494.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	438	18	570	42	12	45.3	-
180/B5	5.5	10	19	300	350	250	438	18	570	48	14	51.8	-

KN573.03

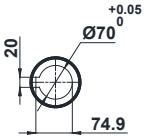


Std.





Ops.



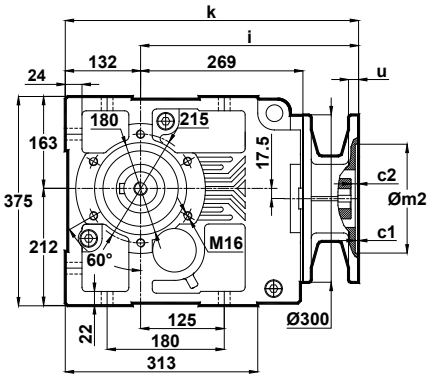
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

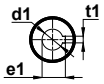
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

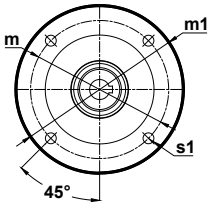
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100-112/B5	4.5	9	15	215	250	180	341.5	15	473.5	28	8	31.3	-
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	362.5	15	494.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	438	18	570	42	12	45.3	-
180/B5	5.5	10	19	300	350	250	438	18	570	48	14	51.8	-

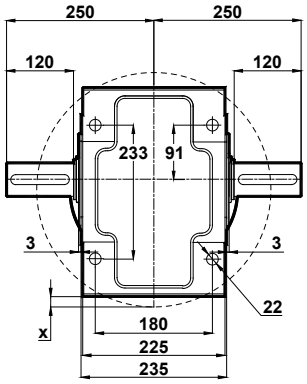
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

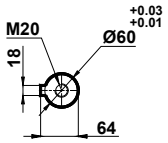
KN573.04







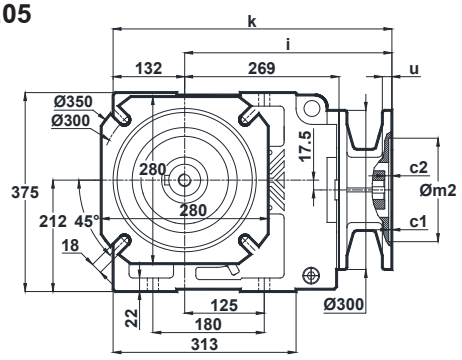


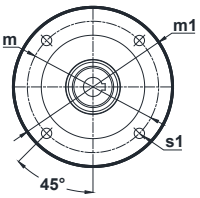


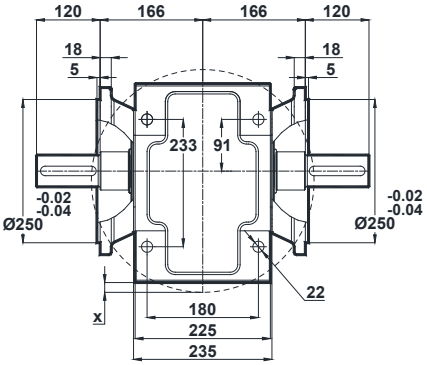
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

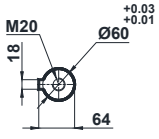
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100-112/B5	4.5	9	15	215	250	180	341.5	15	473.5	28	8	31.3	-
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	362.5	15	494.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	438	18	570	42	12	45.3	-
180/B5	5.5	10	19	300	350	250	438	18	570	48	14	51.8	-

KN573.05









x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

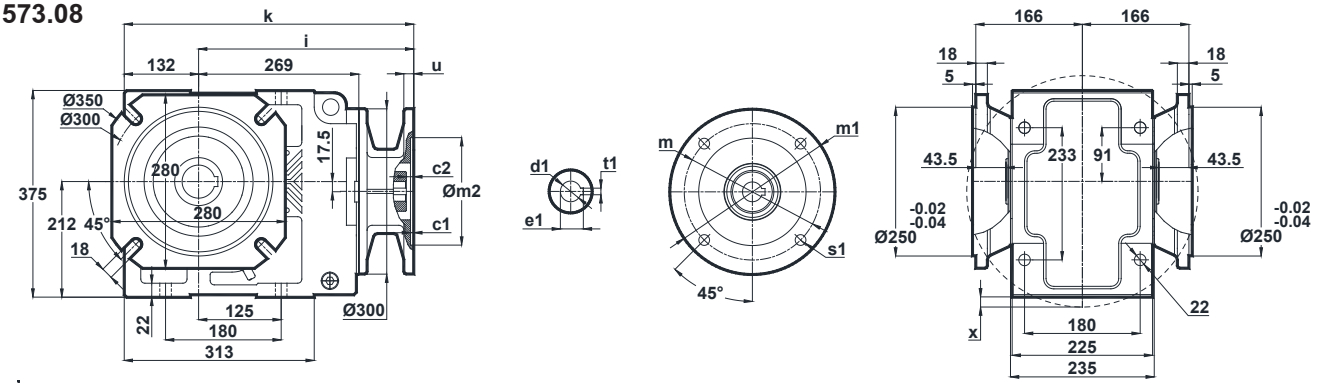
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

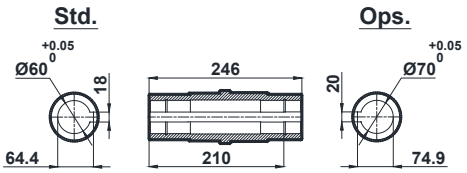
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100-112/B5	4.5	9	15	215	250	180	341.5	15	473.5	28	8	31.3	-
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	362.5	15	494.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	438	18	570	42	12	45.3	-
180/B5	5.5	10	19	300	350	250	438	18	570	48	14	51.8	-

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN573.08





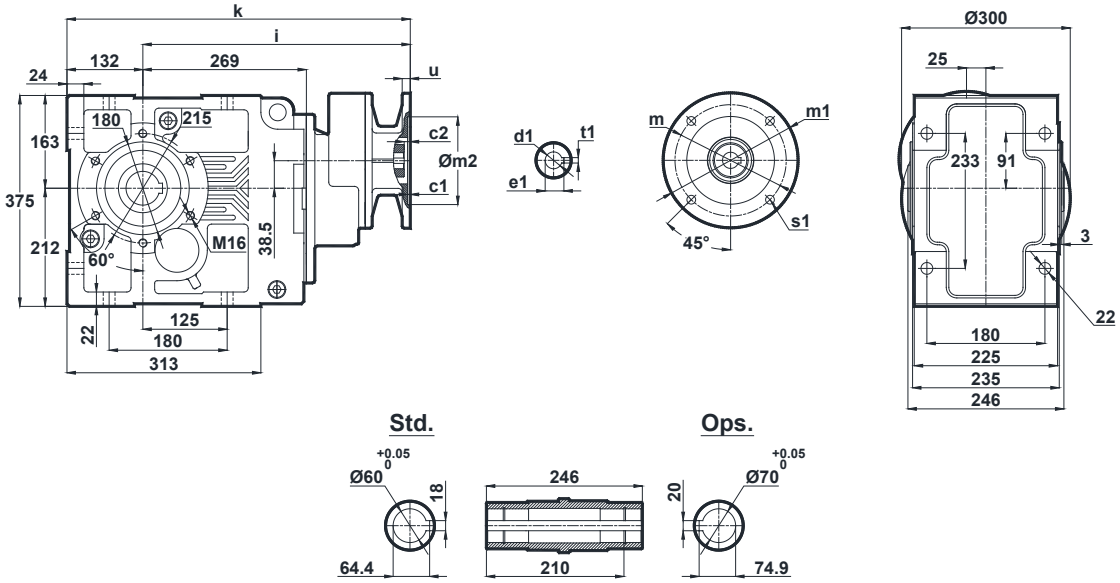
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100-112/B5	4.5	9	15	215	250	180	341.5	15	473.5	28	8	31.3	-
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	362.5	15	494.5	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	438	18	570	42	12	45.3	-
180/B5	5.5	10	19	300	350	250	438	18	570	48	14	51.8	-

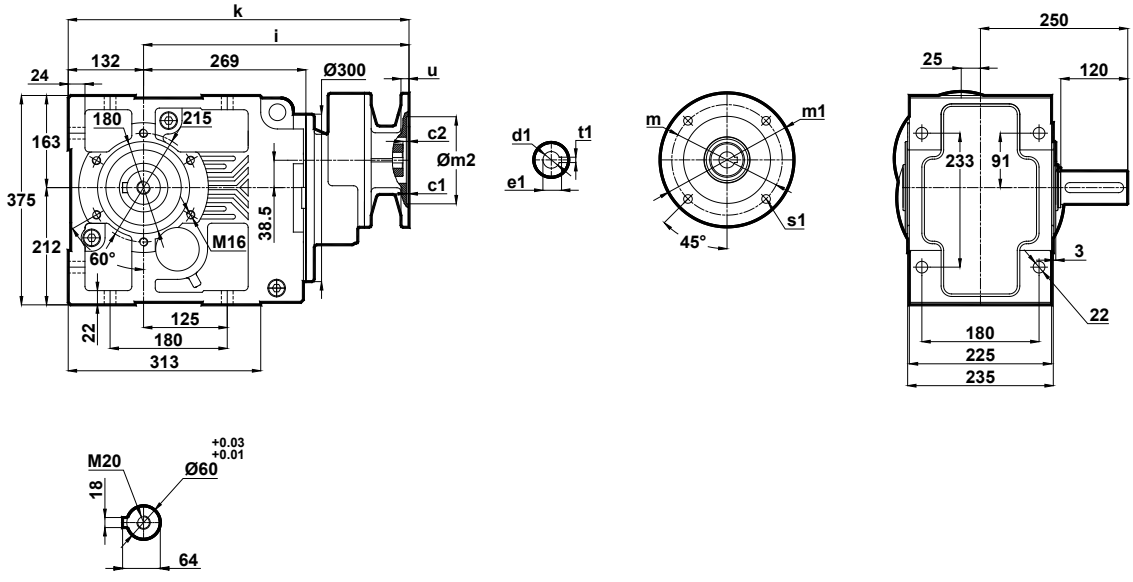
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN574.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	421.5	12	553.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	421.5	12	553.5	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	421.5	12	553.5	24	8	27.3
100/B5	4.5	9	15	215	250	180	438.5	15	570.5	28	8	31.3

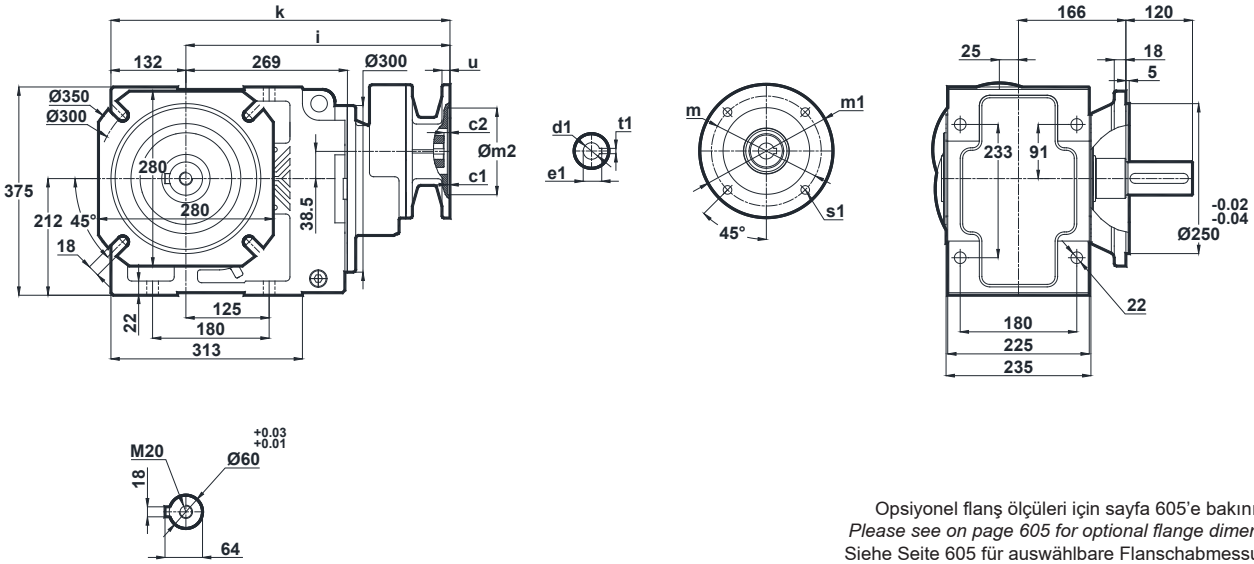
KN574.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	421.5	12	553.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	421.5	12	553.5	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	421.5	12	553.5	24	8	27.3
100/B5	4.5	9	15	215	250	180	438.5	15	570.5	28	8	31.3

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

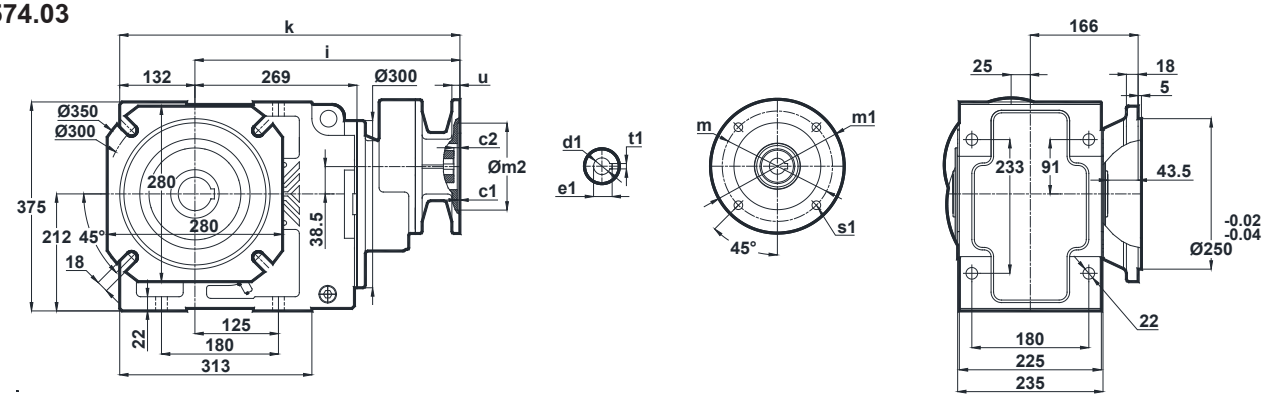
KN574.02



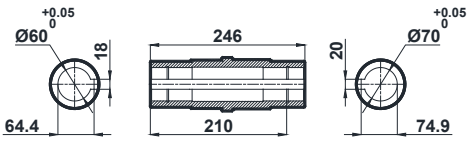
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	421.5	12	553.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	421.5	12	553.5	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	421.5	12	553.5	24	8	27.3
100/B5	4.5	9	15	215	250	180	438.5	15	570.5	28	8	31.3

KN574.03



Std. **Ops.**

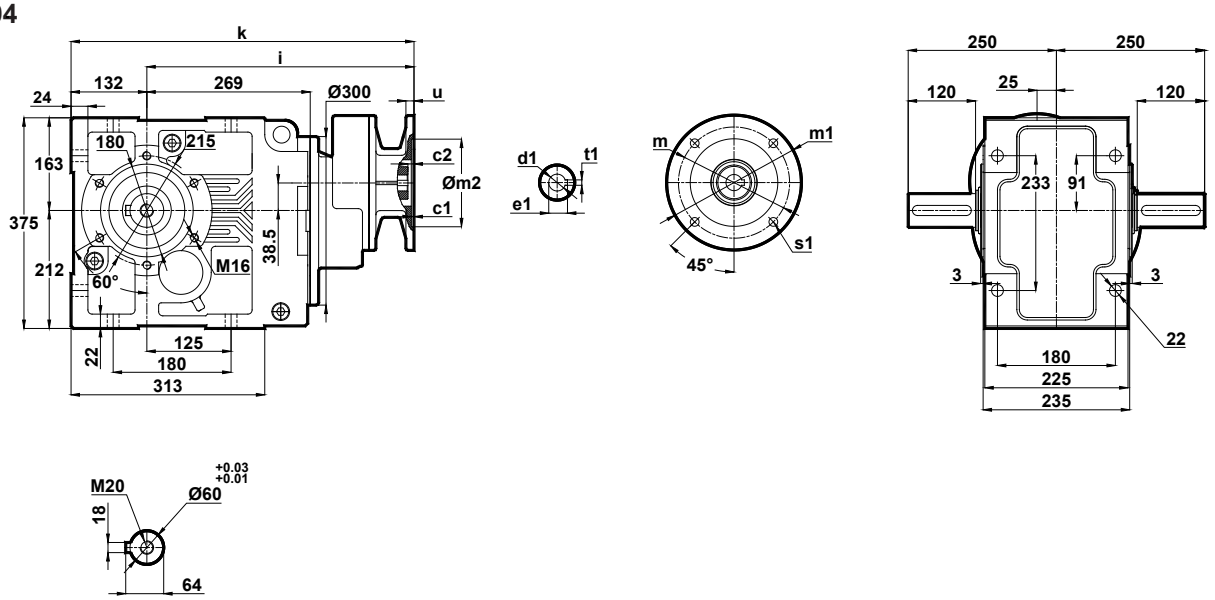


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	421.5	12	553.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	421.5	12	553.5	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	421.5	12	553.5	24	8	27.3
100/B5	4.5	9	15	215	250	180	438.5	15	570.5	28	8	31.3

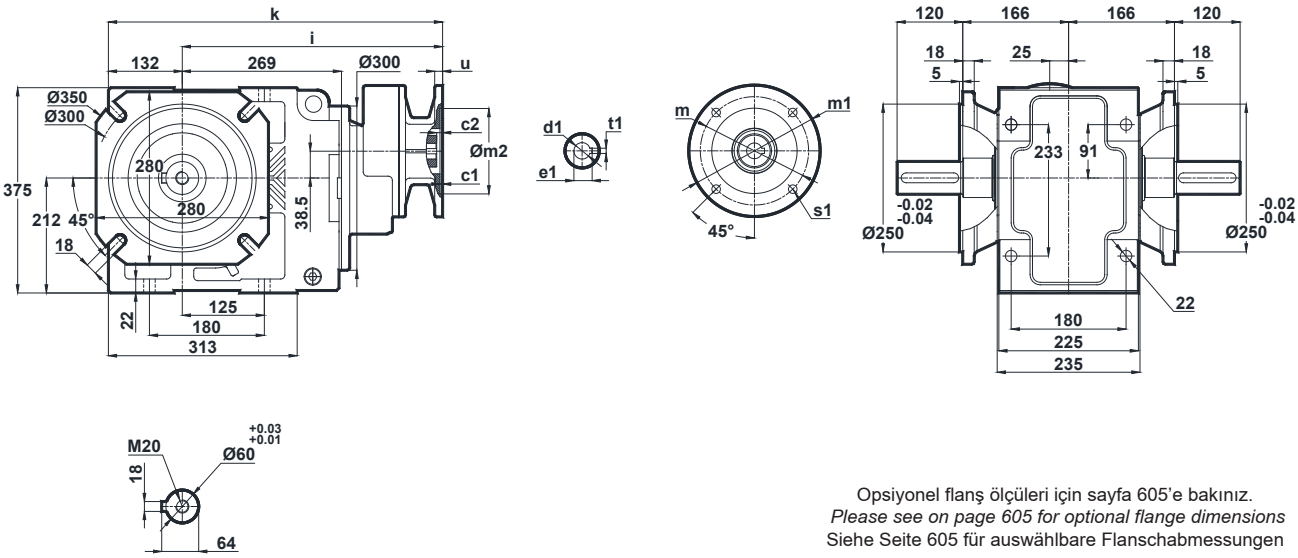
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN574.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	421.5	12	553.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	421.5	12	553.5	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	421.5	12	553.5	24	8	27.3
100/B5	4.5	9	15	215	250	180	438.5	15	570.5	28	8	31.3

KN574.05

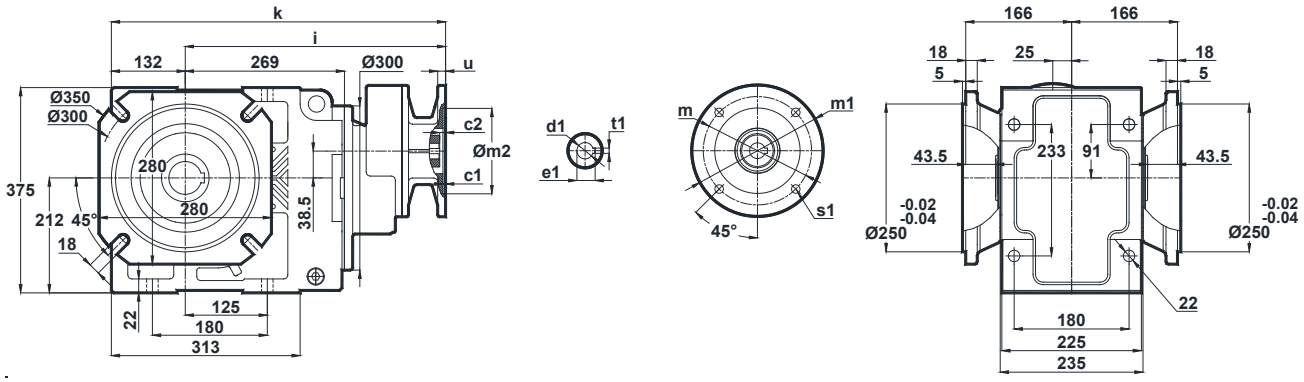


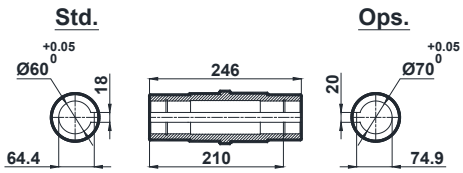
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	421.5	12	553.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	421.5	12	553.5	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	421.5	12	553.5	24	8	27.3
100/B5	4.5	9	15	215	250	180	438.5	15	570.5	28	8	31.3

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

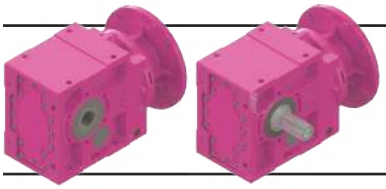
KN574.08





Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

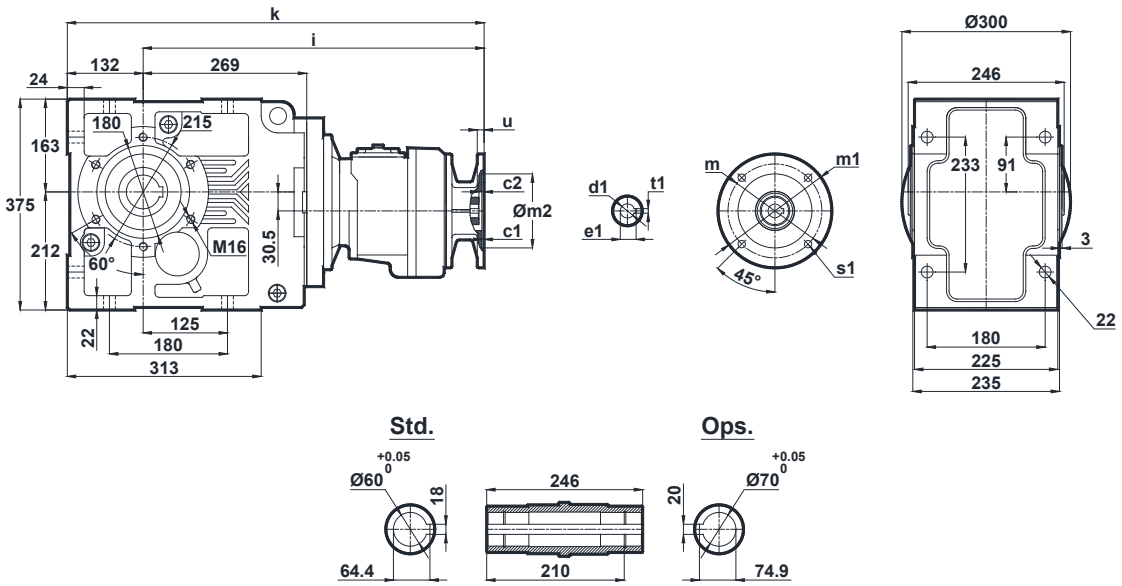
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	421.5	12	553.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	421.5	12	553.5	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	421.5	12	553.5	24	8	27.3
100/B5	4.5	9	15	215	250	180	438.5	15	570.5	28	8	31.3



Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

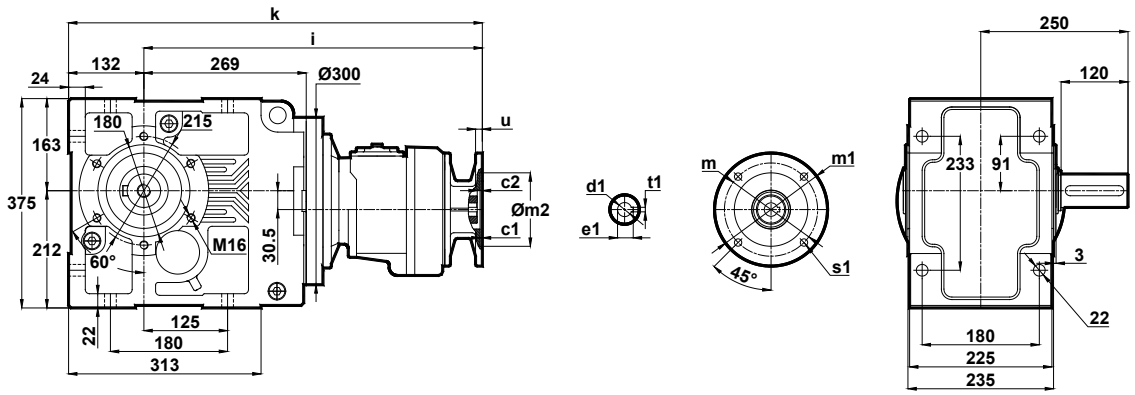
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

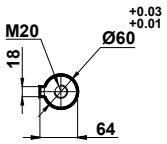
KN575.00
KN576.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	551.5	12	683.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	522.5	12 10	654.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	551.5	12	683.5	19	6	21.8

KN575.01
KN576.01

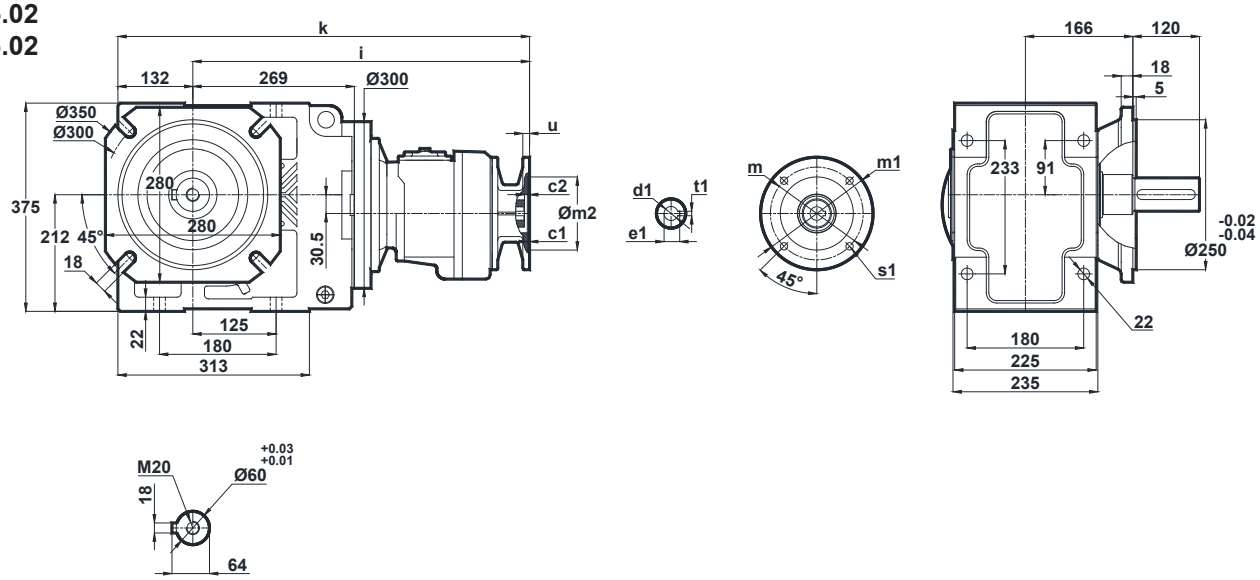




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	551.5	12	683.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	522.5	12 10	654.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	551.5	12	683.5	19	6	21.8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

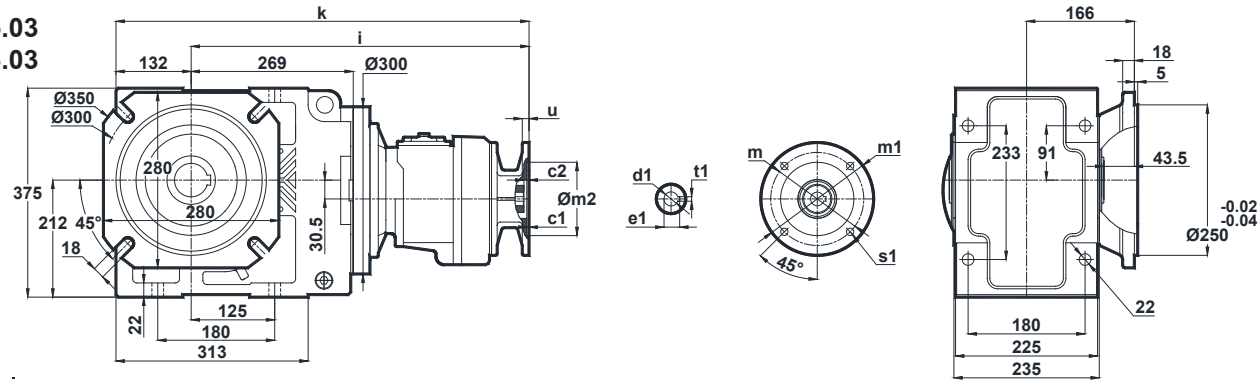
KN575.02
KN576.02



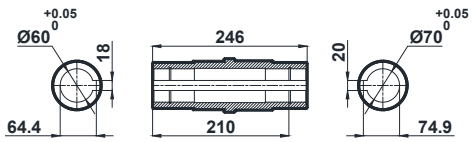
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	551.5	12	683.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	522.5	12 10	654.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	551.5	12	683.5	19	6	21.8

KN575.03
KN576.03



Std. **Ops.**

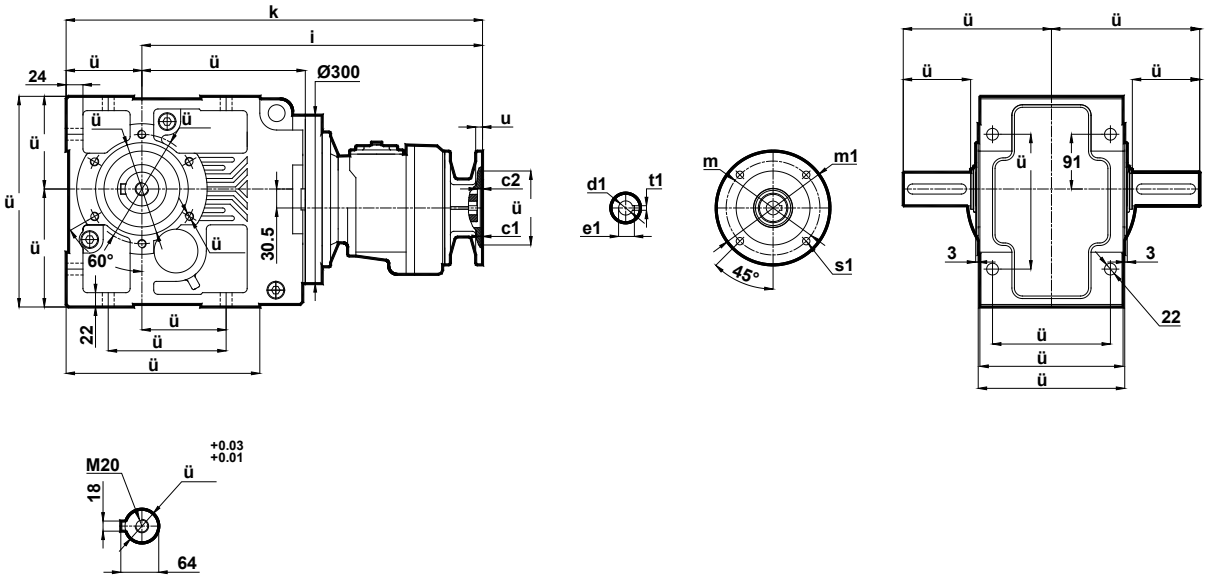


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	551.5	12	683.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	522.5	12 10	654.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	551.5	12	683.5	19	6	21.8

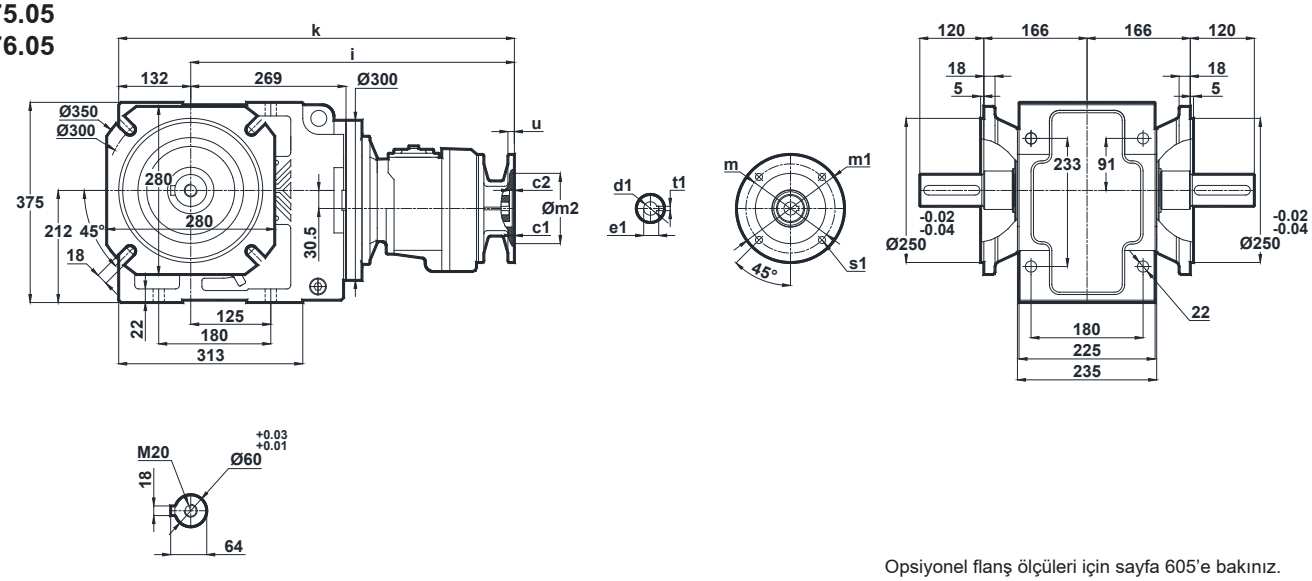
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN575.04
KN576.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	551.5	12	683.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	522.5	12 10	654.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	551.5	12	683.5	19	6	21.8

KN575.05
KN576.05

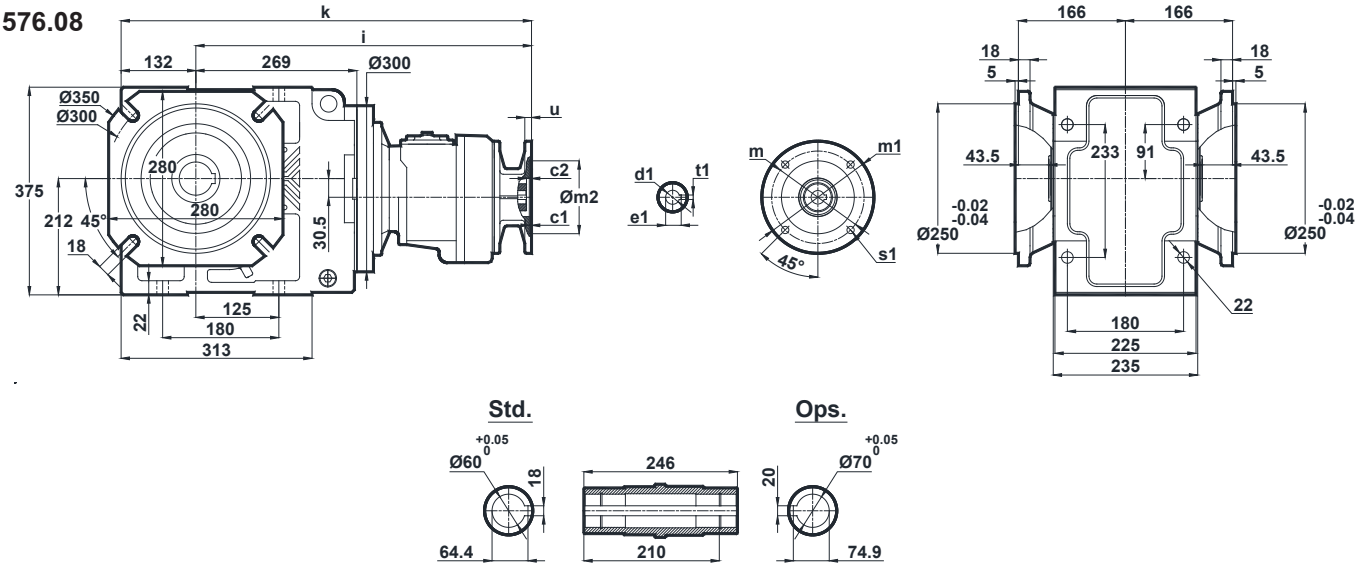


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	551.5	12	683.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	522.5	12 10	654.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	551.5	12	683.5	19	6	21.8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN575.08
KN576.08

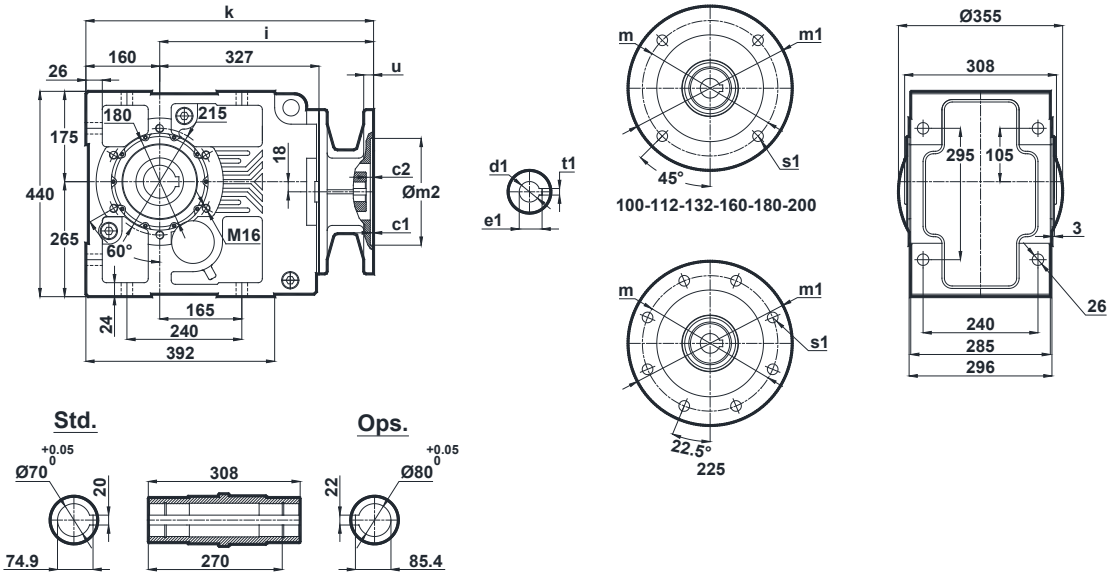


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	9	115	140	95	551.5	12	683.5	11	4	12.8
71/B5 **71/B14**	4 3	8.5	11 7	130 85	160 105	110 70	522.5	12 10	654.5	14	5	16.3
80/B5 **80/B14**	4	5	12 7	165 100	200 120	130 80	551.5	12	683.5	19	6	21.8

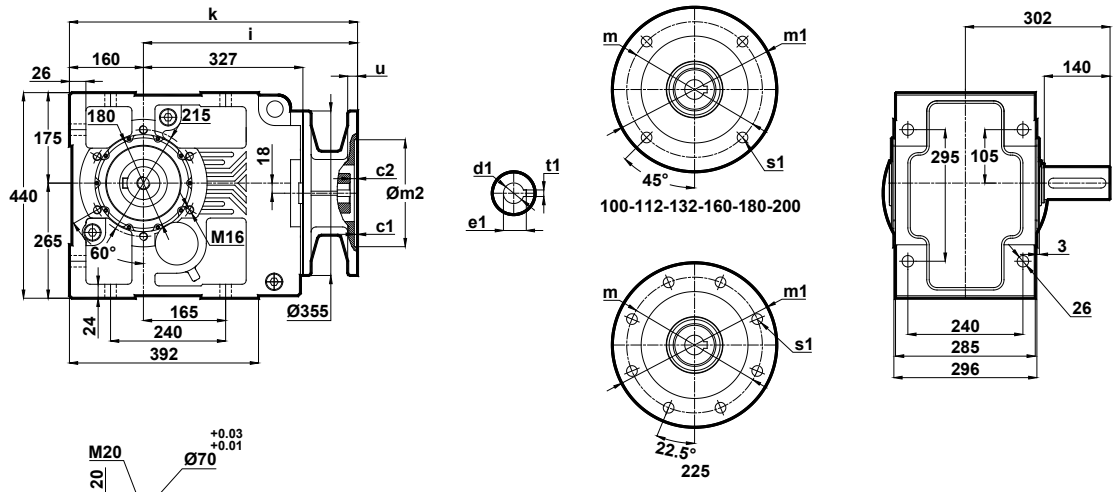
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

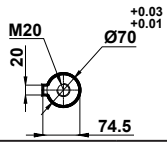
KN673.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100-112/B5	4.5	14.5	15	215	250	180	395.5	15	555.5	28	8	31.3
132/B5 132/B14	4.5	9	15	265 165	300 200	230 130	410.5	15	570.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	485.5	20	645.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	485.5	20	645.5	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	666	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	719	60	18	64.4

KN673.01

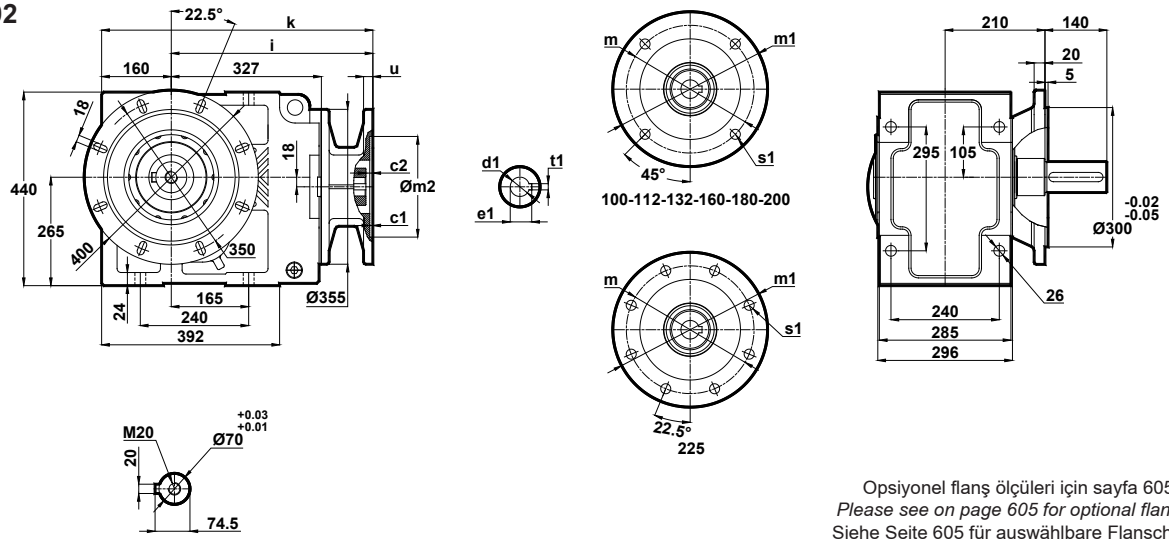




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100-112/B5	4.5	14.5	15	215	250	180	395.5	15	555.5	28	8	31.3
132/B5 132/B14	4.5	9	15	265 165	300 200	230 130	410.5	15	570.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	485.5	20	645.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	485.5	20	645.5	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	666	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	719	60	18	64.4

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

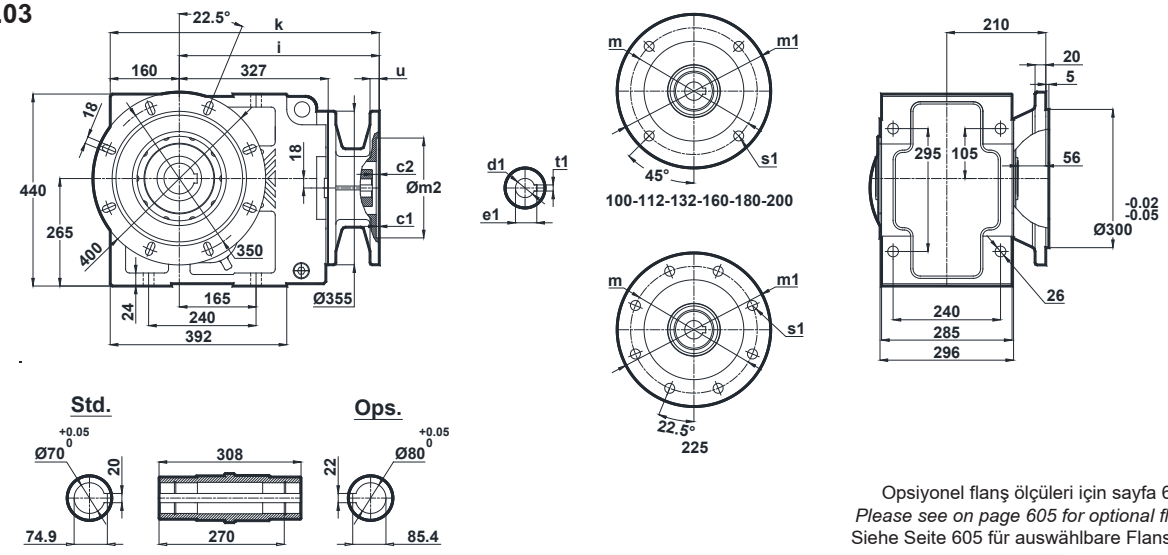
KN673.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100-112/B5	4.5	14.5	15	215	250	180	395.5	15	555.5	28	8	31.3
132/B5 132/B14	4.5	9	15	265 165	300 200	230 130	410.5	15	570.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	485.5	20	645.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	485.5	20	645.5	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	666	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	719	60	18	64.4

KN673.03



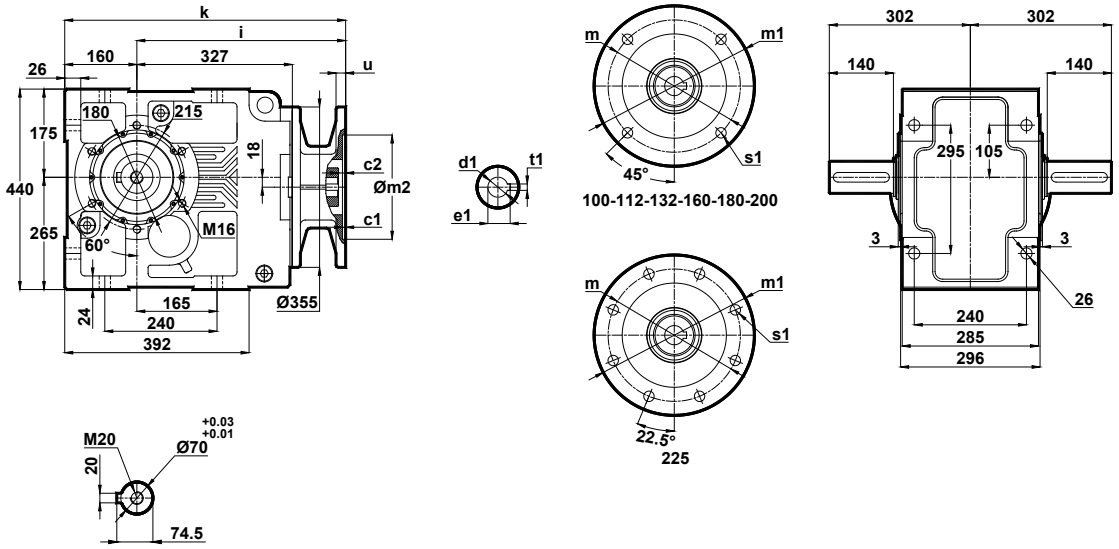
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100-112/B5	4.5	14.5	15	215	250	180	395.5	15	555.5	28	8	31.3
132/B5 132/B14	4.5	9	15	265 165	300 200	230 130	410.5	15	570.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	485.5	20	645.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	485.5	20	645.5	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	666	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	719	60	18	64.4

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

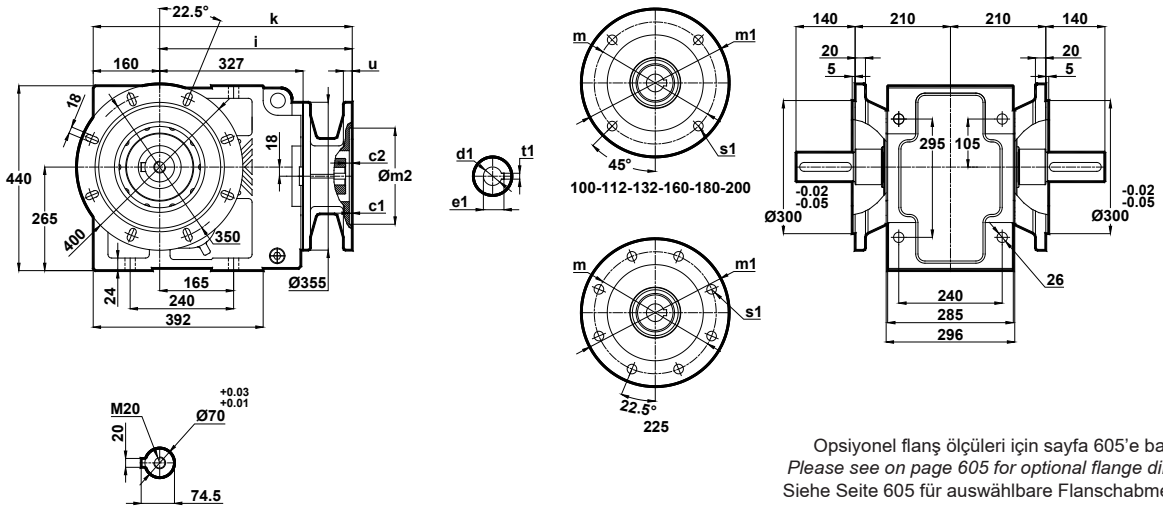
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN673.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100-112/B5	4.5	14.5	15	215	250	180	395.5	15	555.5	28	8	31.3
132/B5 132/B14	4.5	9	15	265 165	300 200	230 130	410.5	15	570.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	485.5	20	645.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	485.5	20	645.5	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	666	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	719	60	18	64.4

KN673.05

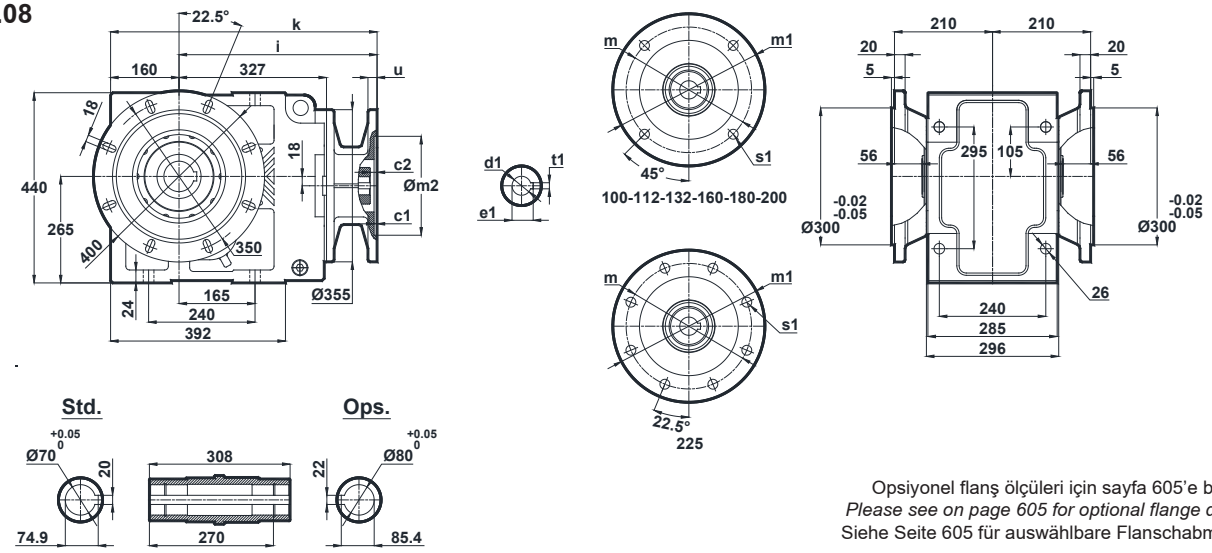


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100-112/B5	4.5	14.5	15	215	250	180	395.5	15	555.5	28	8	31.3
132/B5 132/B14	4.5	9	15	265 165	300 200	230 130	410.5	15	570.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	485.5	20	645.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	485.5	20	645.5	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	666	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	719	60	18	64.4

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN673.08

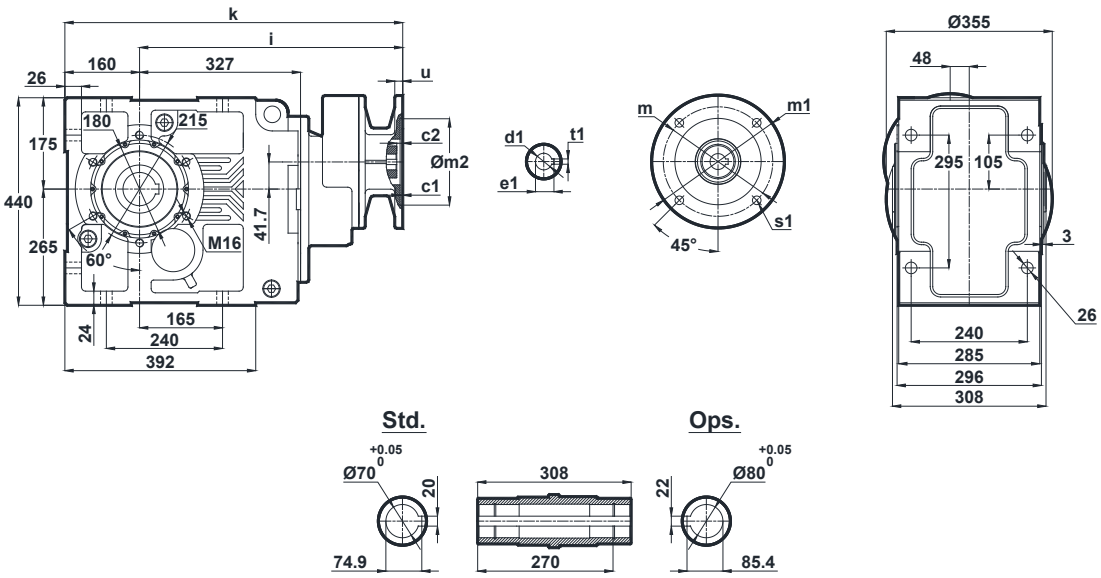


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100-112/B5	4.5	14.5	15	215	250	180	395.5	15	555.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	410.5	15	570.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	485.5	20	645.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	485.5	20	645.5	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	666	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	719	60	18	64.4

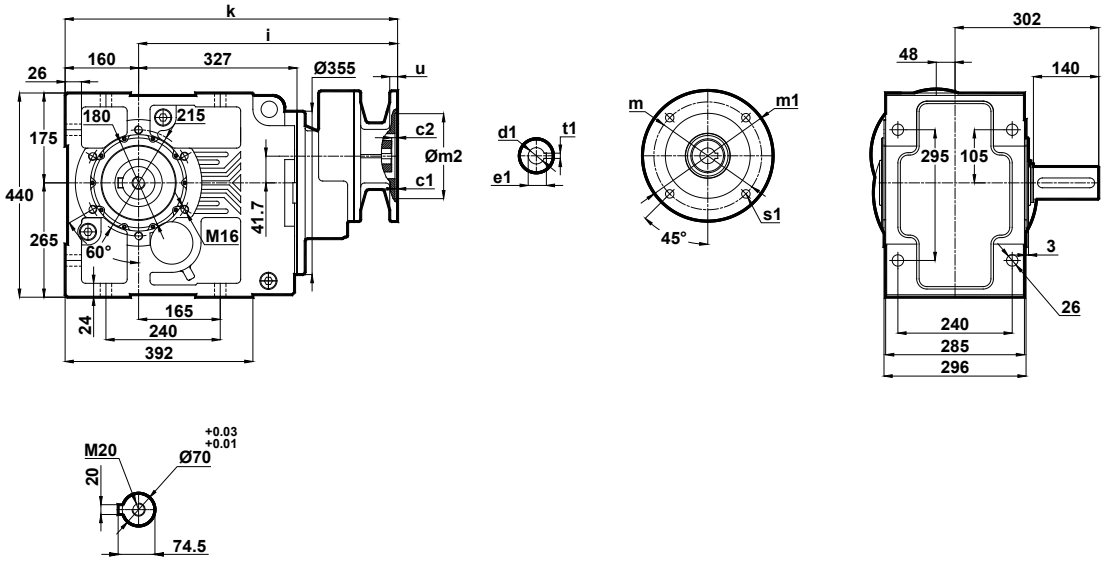
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN674.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	485.5	12	645.5	19	6	21.8
90/B5 **90/B14**	4	5	13 9	165 115	200 140	130 95	485.5	12	645.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	504	15	664	28	8	31.3

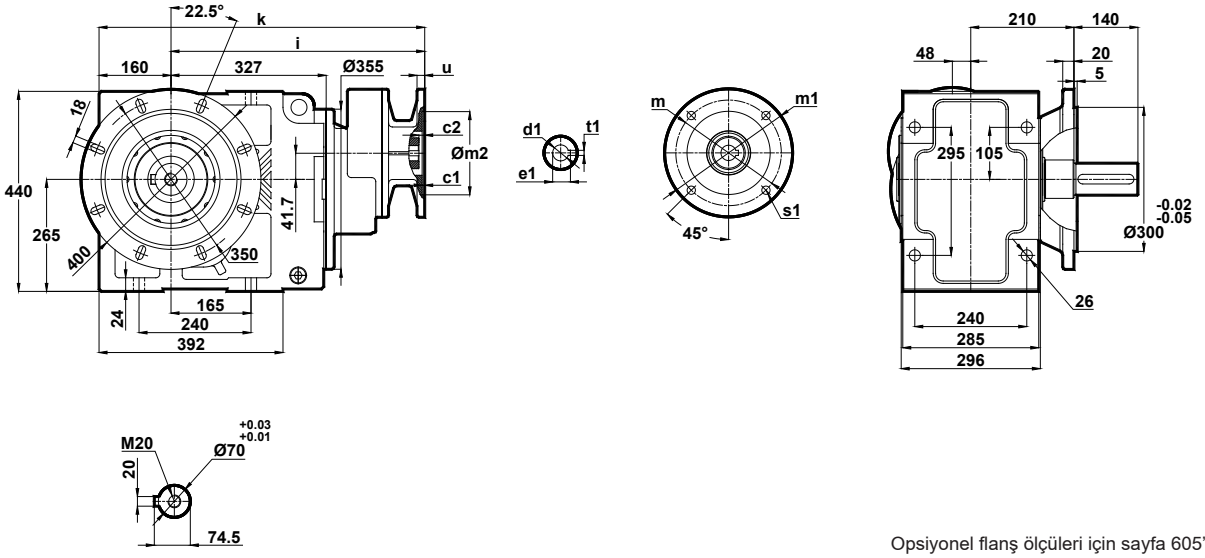
KN674.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	485.5	12	645.5	19	6	21.8
90/B5 **90/B14**	4	5	13 9	165 115	200 140	130 95	485.5	12	645.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	504	15	664	28	8	31.3

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

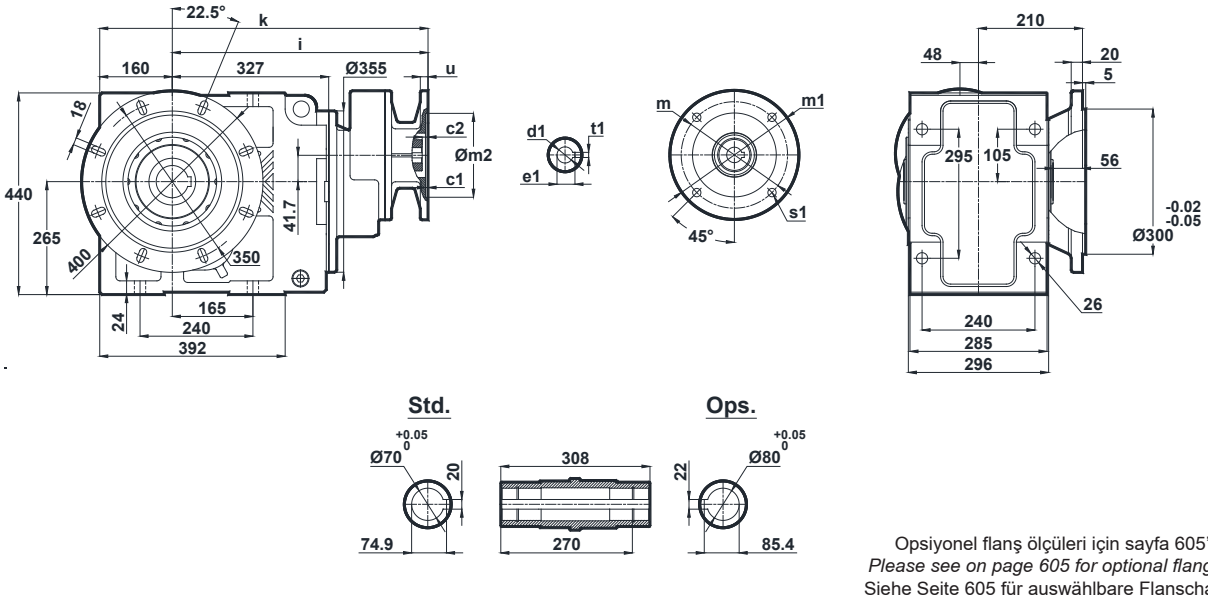
KN674.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	485.5	12	645.5	19	6	21.8
90/B5 **90/B14**	4	5	13 9	165 115	200 140	130 95	485.5	12	645.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	504	15	664	28	8	31.3

KN674.03

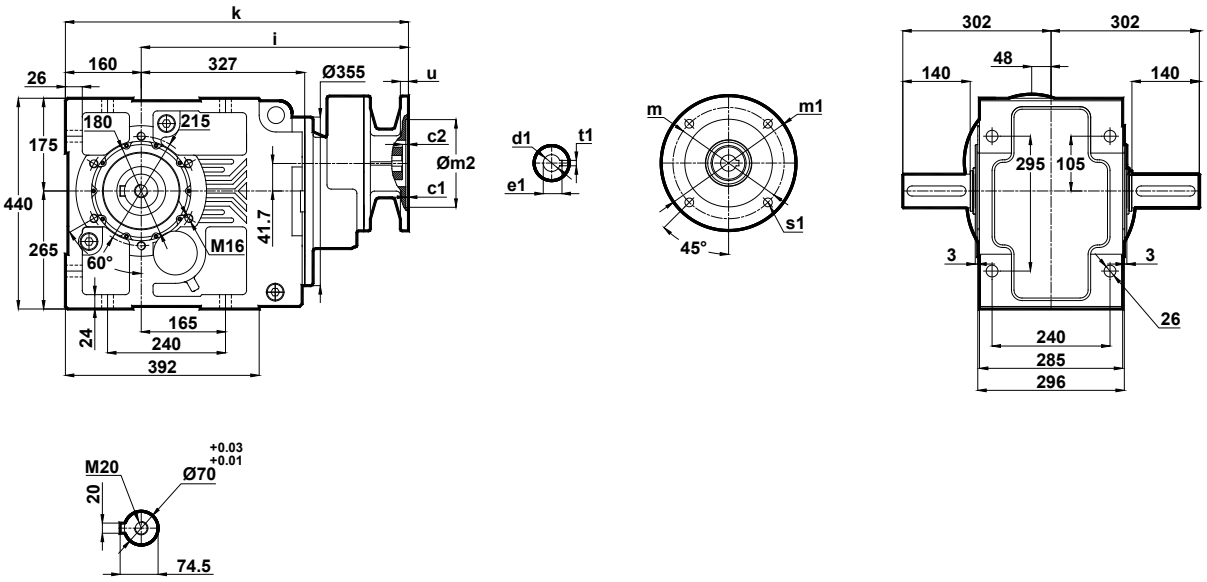


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	485.5	12	645.5	19	6	21.8
90/B5 **90/B14**	4	5	13 9	165 115	200 140	130 95	485.5	12	645.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	504	15	664	28	8	31.3

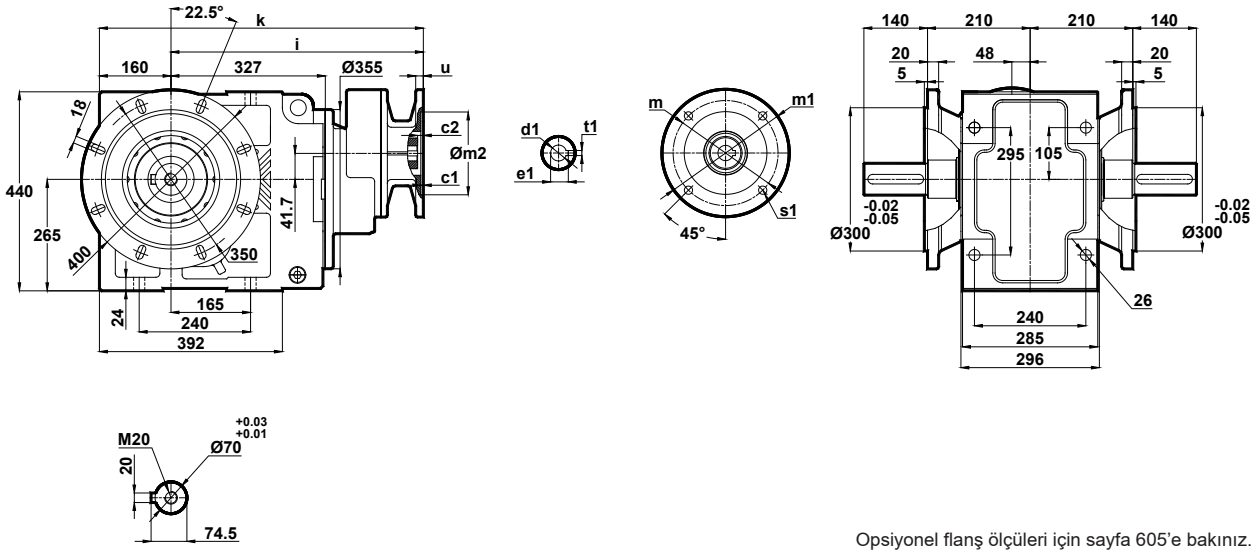
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN674.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	485.5	12	645.5	19	6	21.8
90/B5 **90/B14**	4	5	13 9	165 115	200 140	130 95	485.5	12	645.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	504	15	664	28	8	31.3

KN674.05

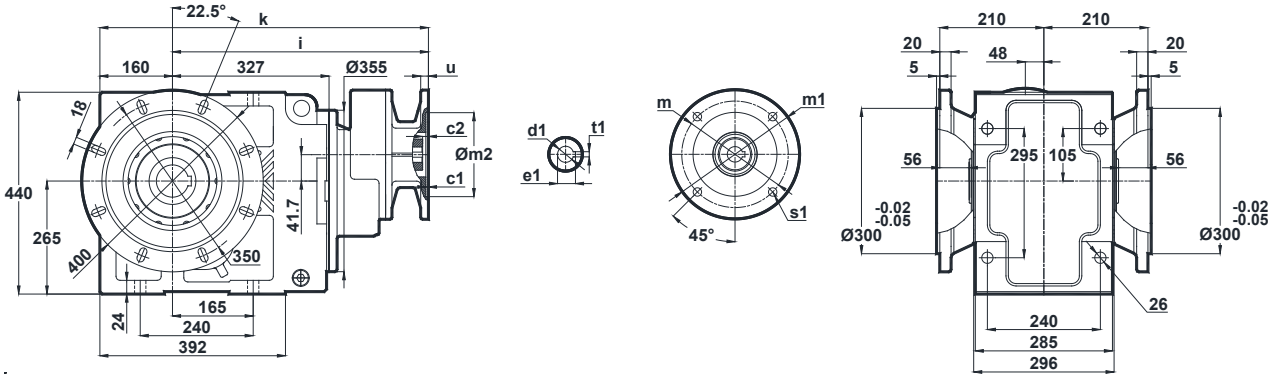


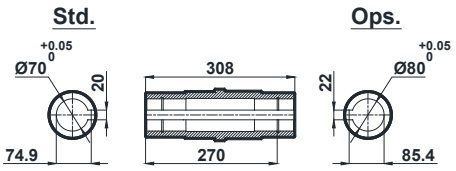
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	485.5	12	645.5	19	6	21.8
90/B5 **90/B14**	4	5	13 9	165 115	200 140	130 95	485.5	12	645.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	504	15	664	28	8	31.3

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN674.08



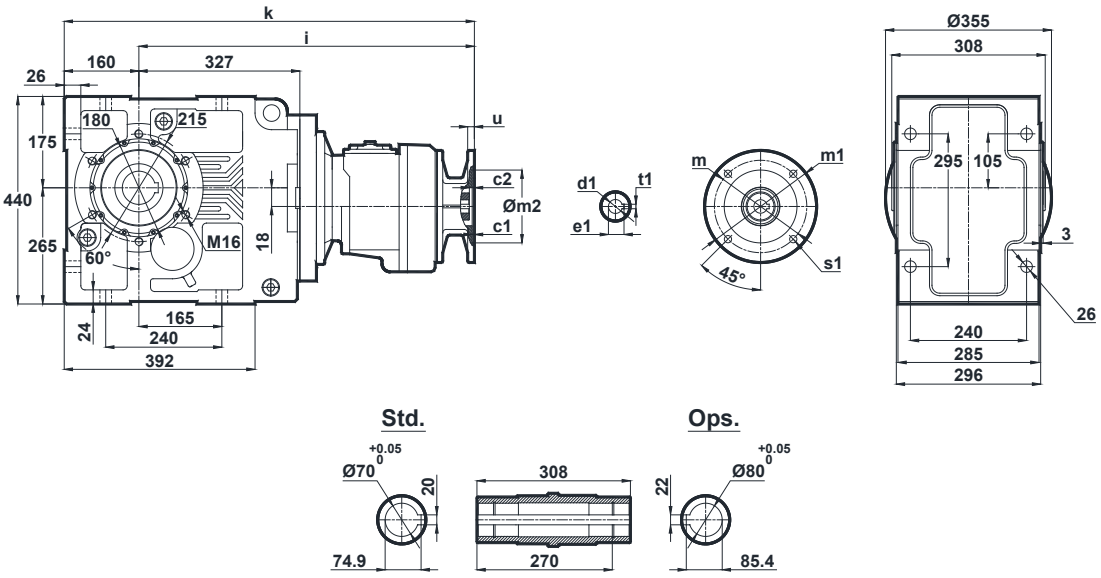


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	165	200	130	485.5	12	645.5	19	6	21.8
90/B5 **90/B14**	4	5	13 9	165 115	200 140	130 95	485.5	12	645.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	504	15	664	28	8	31.3

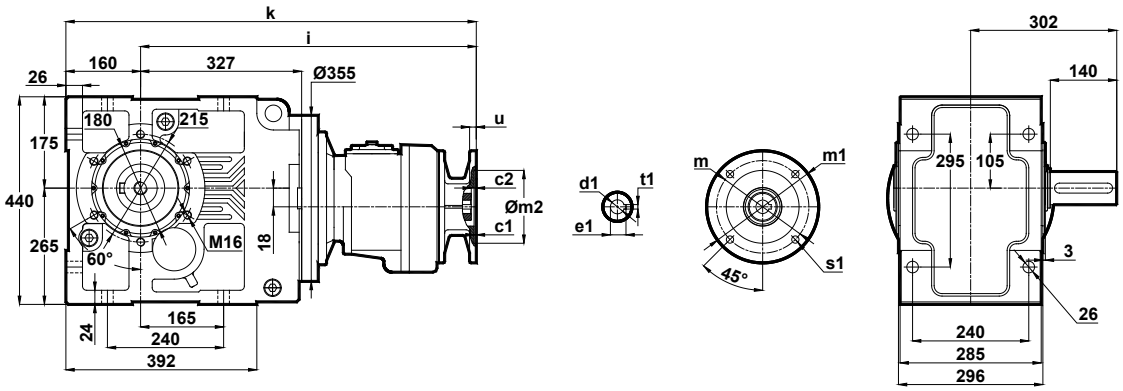
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

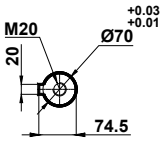
KN675.00
KN676.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	636.5	12	796.5	14	5	16.3
80/B5 **80/B14**	4	9	13 7	165 100	200 120	130 80	636.5	12	796.5	19	6	21.8
90/B5 **90/B14**	4	9	13 9	165 115	200 140	130 95	636.5	12	796.5	24	8	27.3

KN675.01
KN676.01

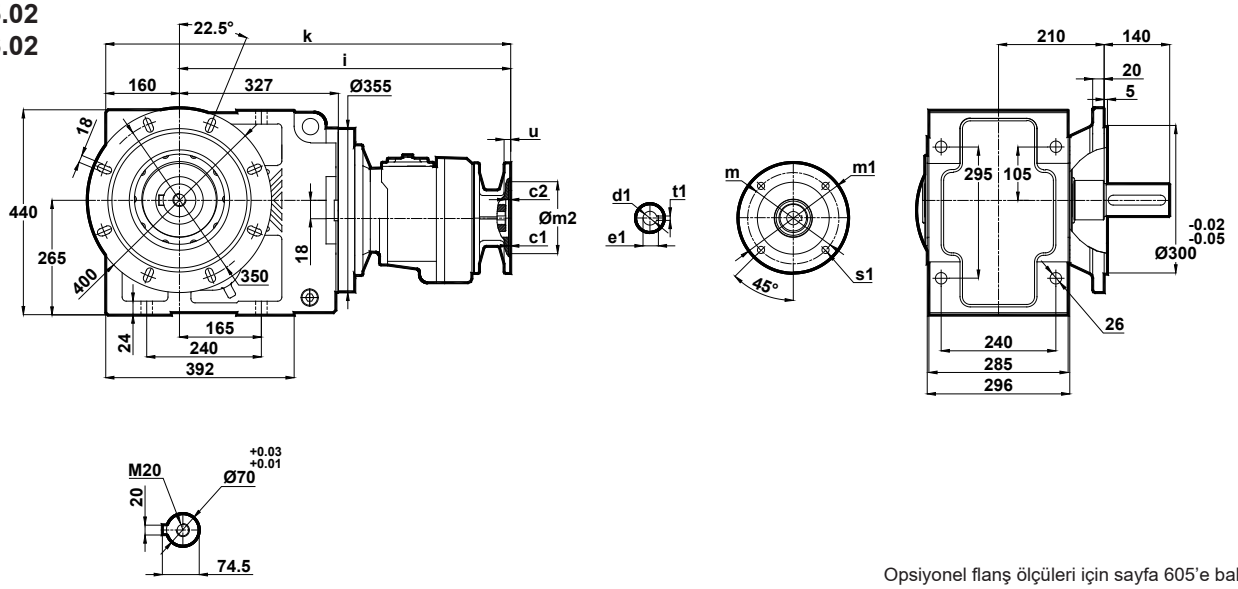




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	636.5	12	796.5	14	5	16.3
80/B5 **80/B14**	4	9	13 7	165 100	200 120	130 80	636.5	12	796.5	19	6	21.8
90/B5 **90/B14**	4	9	13 9	165 115	200 140	130 95	636.5	12	796.5	24	8	27.3

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

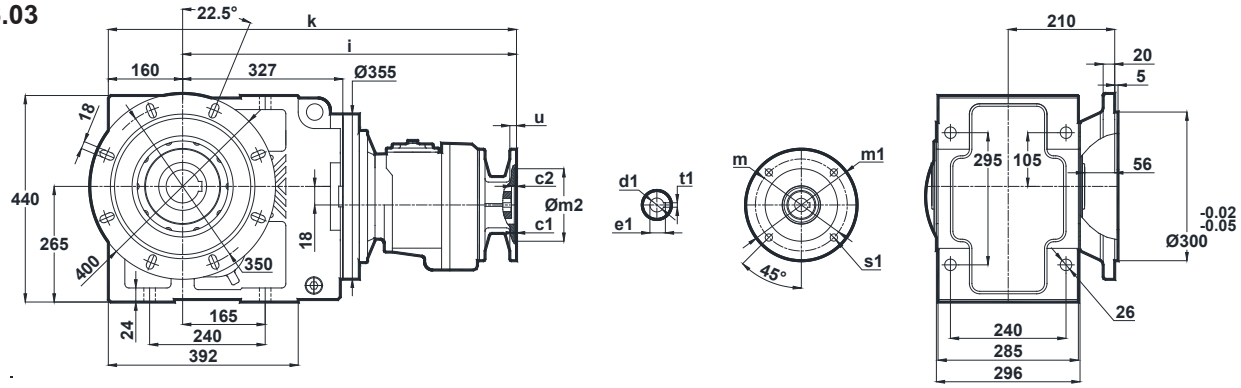
KN675.02
KN676.02



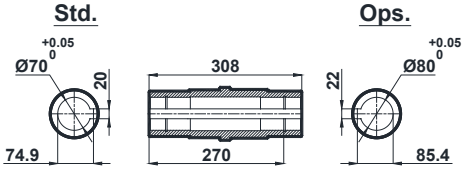
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	636.5	12	796.5	14	5	16.3
80/B5 **80/B14**	4	9	13 7	165 100	200 120	130 80	636.5	12	796.5	19	6	21.8
90/B5 **90/B14**	4	9	13 9	165 115	200 140	130 95	636.5	12	796.5	24	8	27.3

KN675.03
KN676.03



Std. **Ops.**

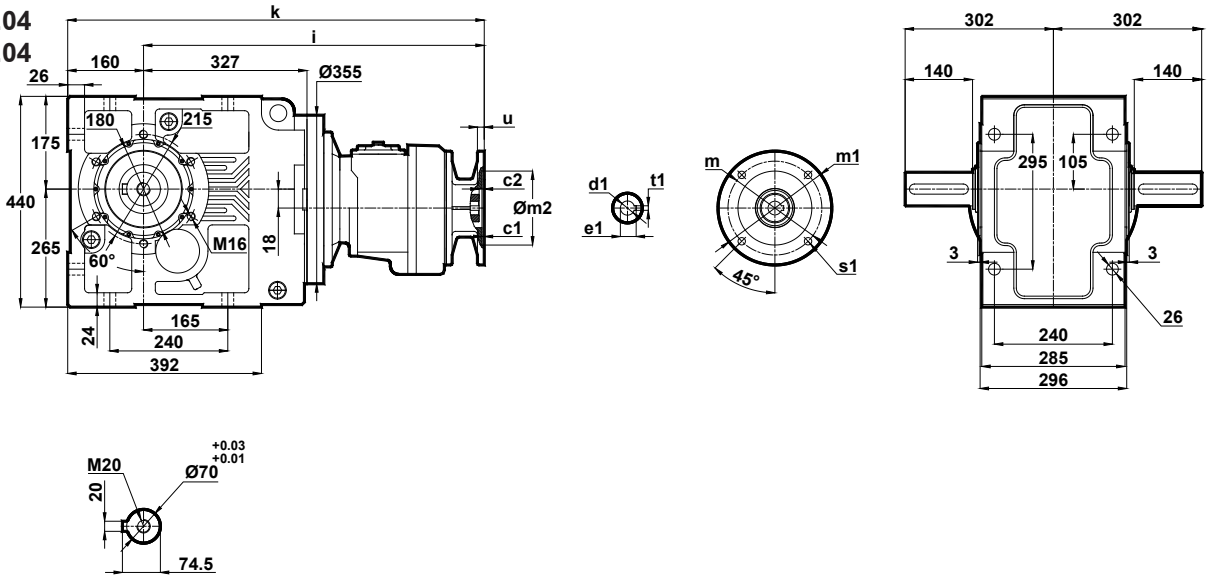


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	636.5	12	796.5	14	5	16.3
80/B5 **80/B14**	4	9	13 7	165 100	200 120	130 80	636.5	12	796.5	19	6	21.8
90/B5 **90/B14**	4	9	13 9	165 115	200 140	130 95	636.5	12	796.5	24	8	27.3

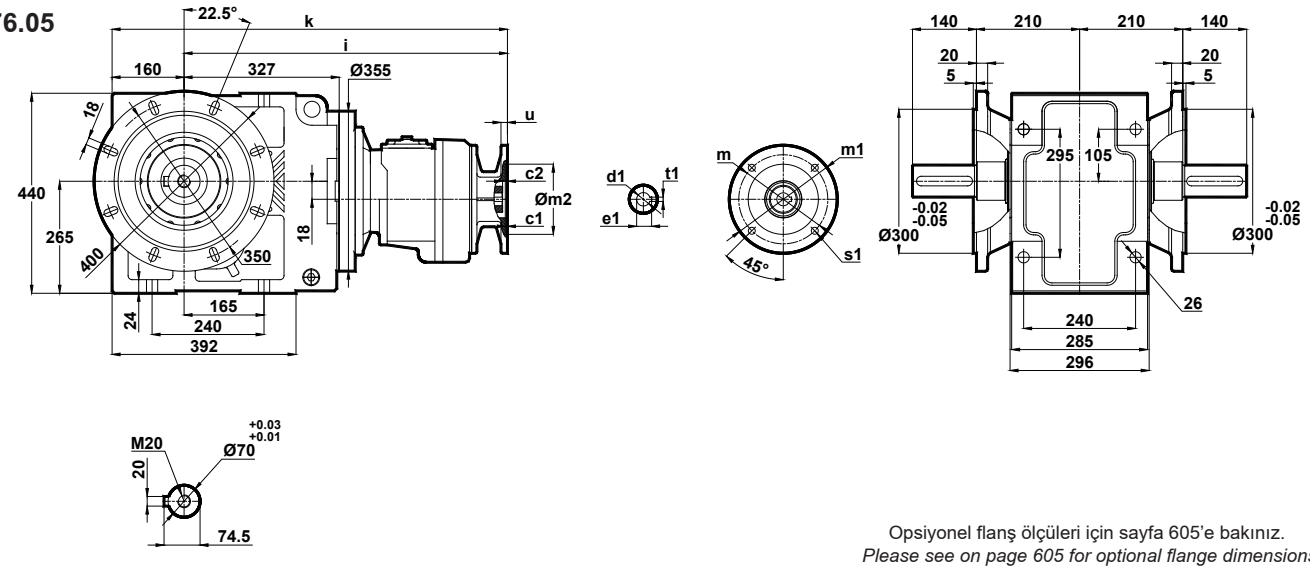
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN675.04
KN676.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	636.5	12	796.5	14	5	16.3
80/B5 **80/B14**	4	9	13 7	165 100	200 120	130 80	636.5	12	796.5	19	6	21.8
90/B5 **90/B14**	4	9	13 9	165 115	200 140	130 95	636.5	12	796.5	24	8	27.3

KN675.05
KN676.05



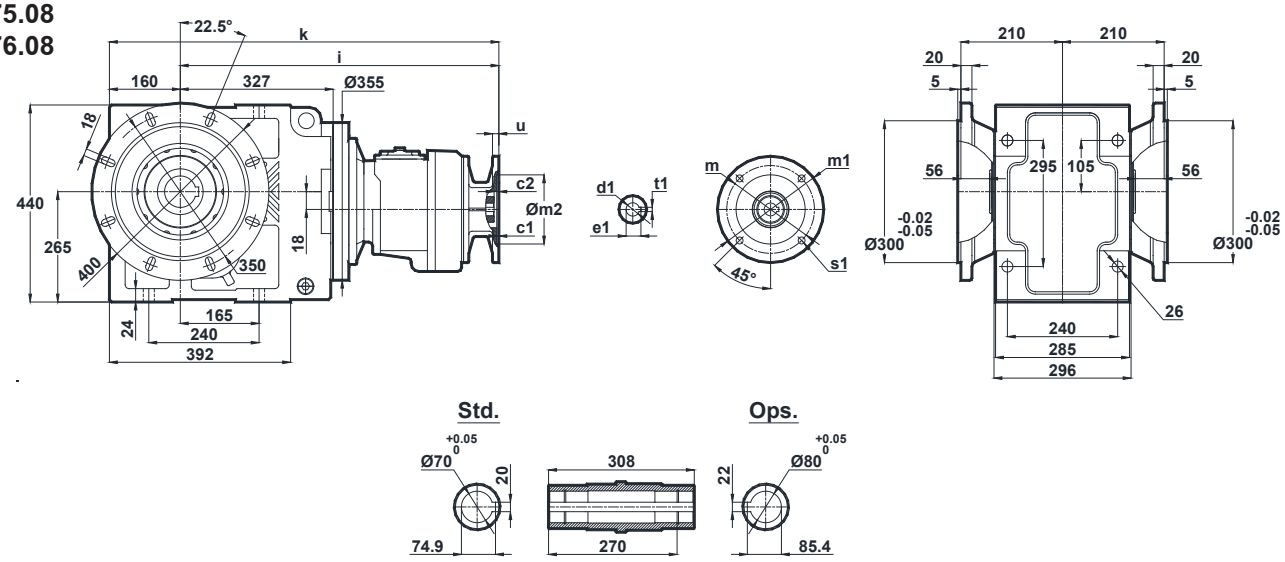
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	636.5	12	796.5	14	5	16.3
80/B5 **80/B14**	4	9	13 7	165 100	200 120	130 80	636.5	12	796.5	19	6	21.8
90/B5 **90/B14**	4	9	13 9	165 115	200 140	130 95	636.5	12	796.5	24	8	27.3

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN675.08
KN676.08

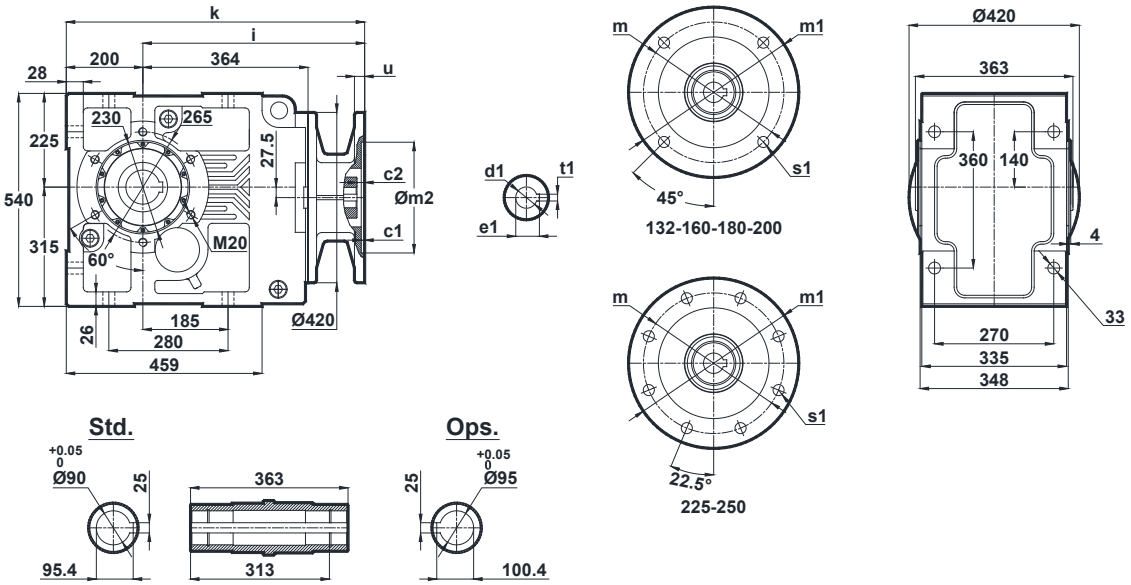


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	636.5	12	796.5	14	5	16.3
80/B5 **80/B14**	4	9	13 7	165 100	200 120	130 80	636.5	12	796.5	19	6	21.8
90/B5 **90/B14**	4	9	13 9	165 115	200 140	130 95	636.5	12	796.5	24	8	27.3

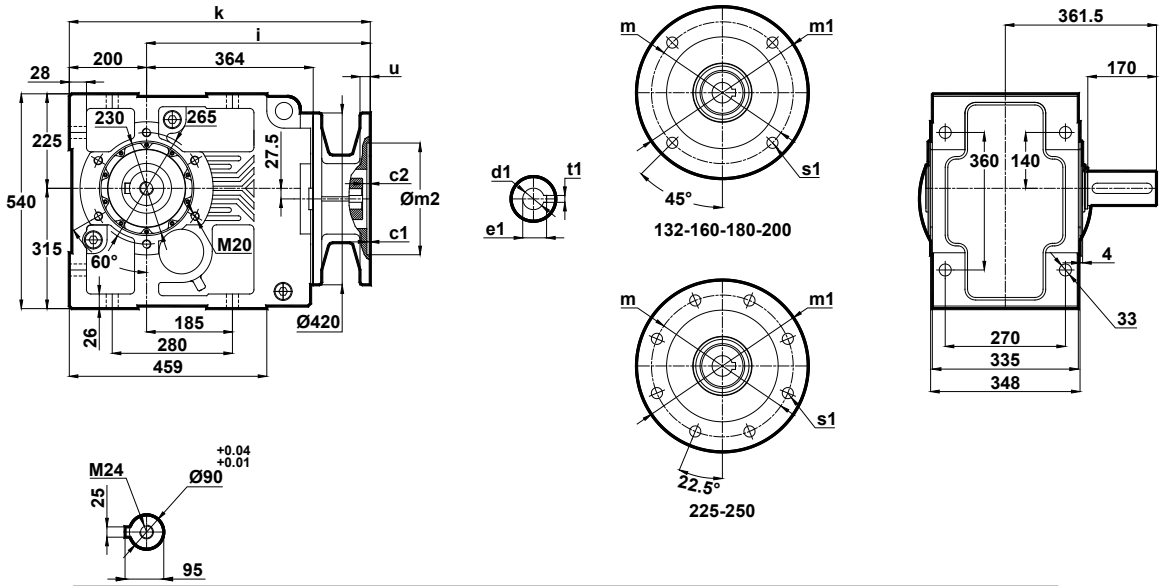
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN773.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	447.5	15	647.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	517	20	717	42	12	45.3
180/B5	5.5	10	19	300	350	250	517	20	717	48	14	51.8
200/B5	5.5	10	19	350	400	300	539	20	739	55	16	59.3
225/B5	5.5	10	19	400	450	350	592	24	792	60	18	64.4
250/B5	5.5	10	19	500	550	450	592	24	792	65	18	69.4

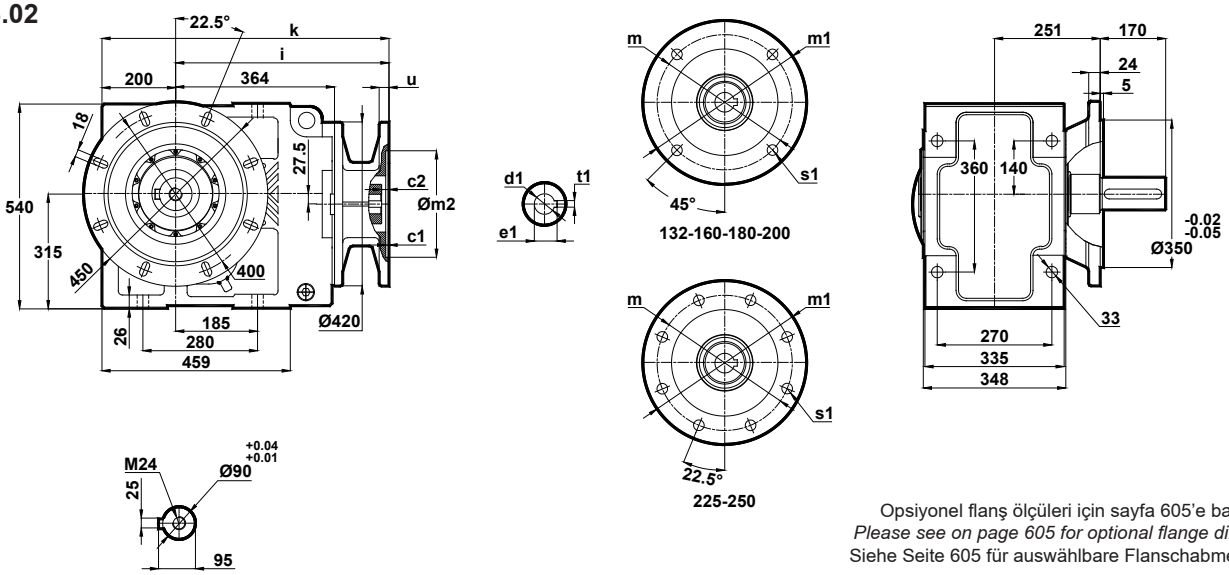
KN773.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	447.5	15	647.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	517	20	717	42	12	45.3
180/B5	5.5	10	19	300	350	250	517	20	717	48	14	51.8
200/B5	5.5	10	19	350	400	300	539	20	739	55	16	59.3
225/B5	5.5	10	19	400	450	350	592	24	792	60	18	64.4
250/B5	5.5	10	19	500	550	450	592	24	792	65	18	69.4

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

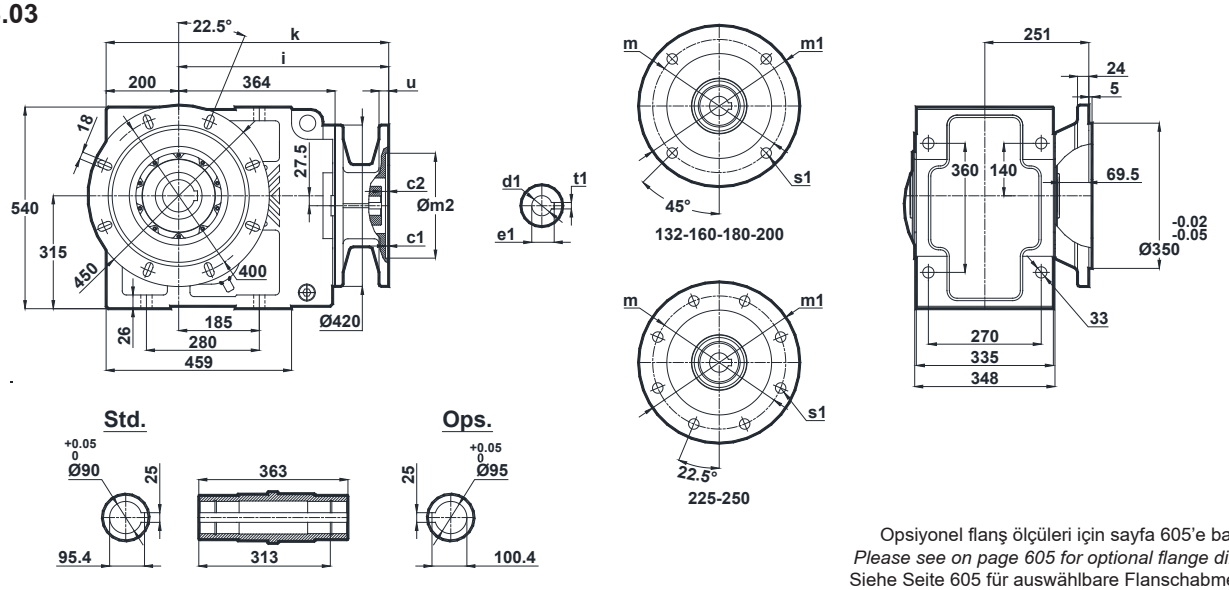
KN773.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	447.5	15	647.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	517	20	717	42	12	45.3
180/B5	5.5	10	19	300	350	250	517	20	717	48	14	51.8
200/B5	5.5	10	19	350	400	300	539	20	739	55	16	59.3
225/B5	5.5	10	19	400	450	350	592	24	792	60	18	64.4
250/B5	5.5	10	19	500	550	450	592	24	792	65	18	69.4

KN773.03

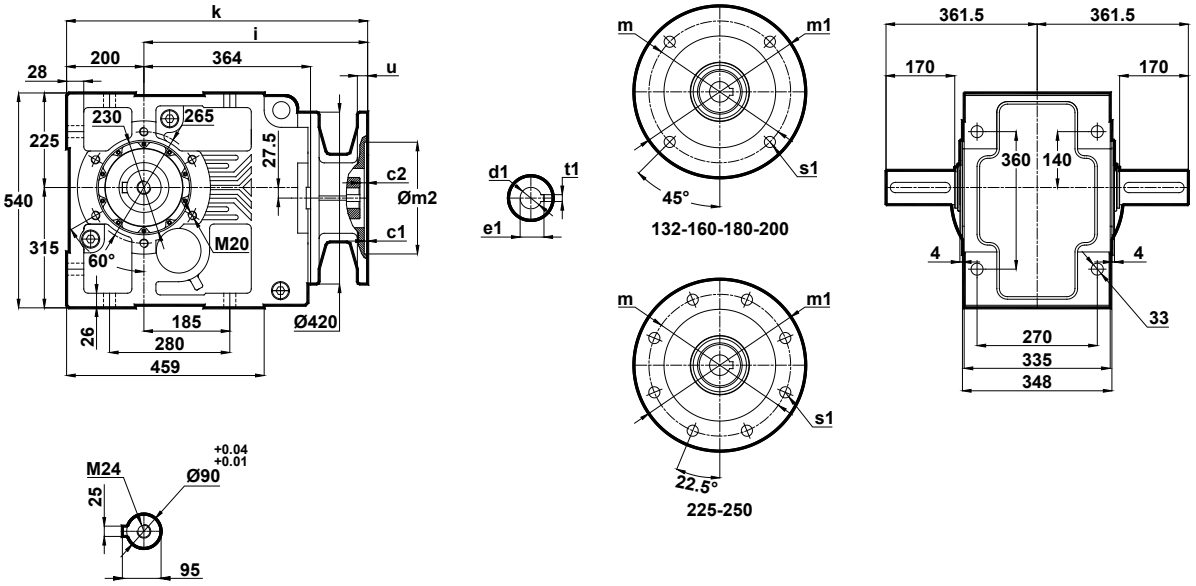


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	447.5	15	647.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	517	20	717	42	12	45.3
180/B5	5.5	10	19	300	350	250	517	20	717	48	14	51.8
200/B5	5.5	10	19	350	400	300	539	20	739	55	16	59.3
225/B5	5.5	10	19	400	450	350	592	24	792	60	18	64.4
250/B5	5.5	10	19	500	550	450	592	24	792	65	18	69.4

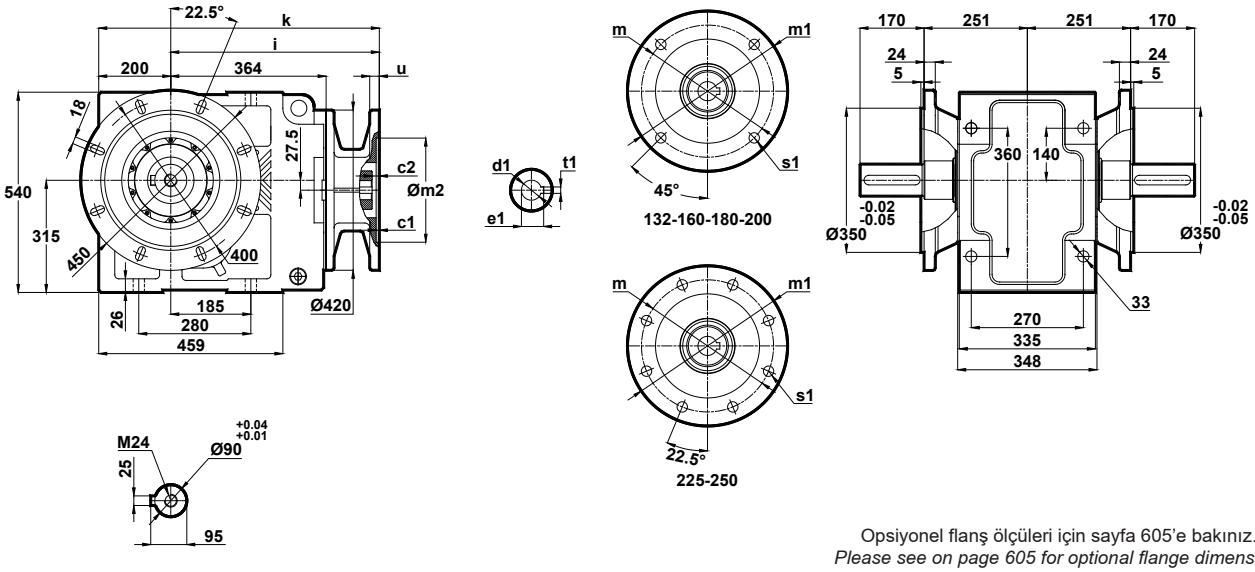
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN773.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	447.5	15	647.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	517	20	717	42	12	45.3
180/B5	5.5	10	19	300	350	250	517	20	717	48	14	51.8
200/B5	5.5	10	19	350	400	300	539	20	739	55	16	59.3
225/B5	5.5	10	19	400	450	350	592	24	792	60	18	64.4
250/B5	5.5	10	19	500	550	450	592	24	792	65	18	69.4

KN773.05

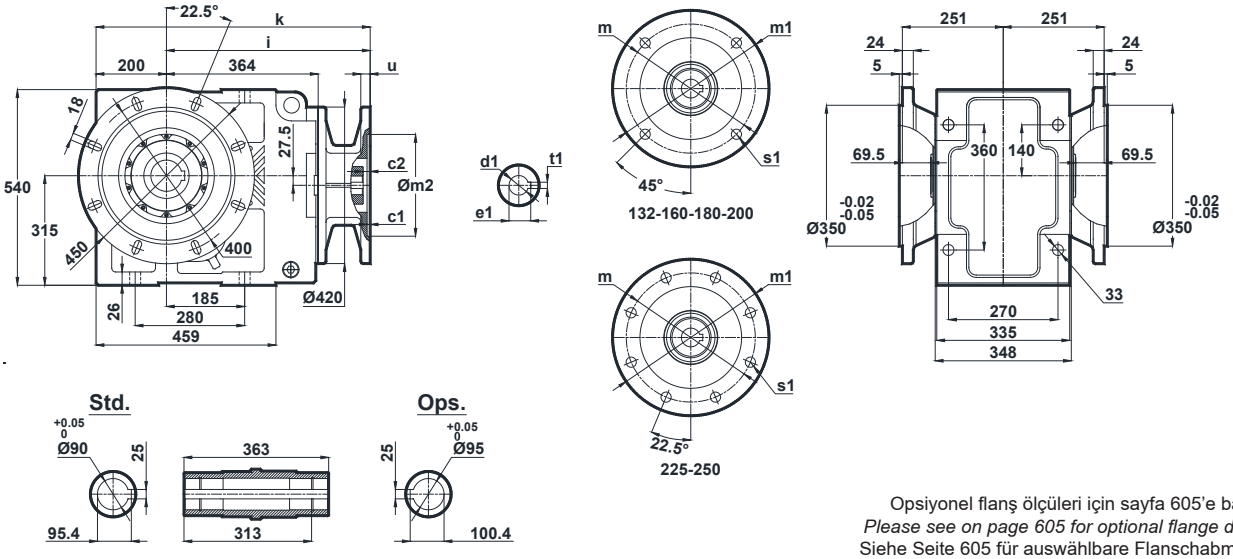


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	447.5	15	647.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	517	20	717	42	12	45.3
180/B5	5.5	10	19	300	350	250	517	20	717	48	14	51.8
200/B5	5.5	10	19	350	400	300	539	20	739	55	16	59.3
225/B5	5.5	10	19	400	450	350	592	24	792	60	18	64.4
250/B5	5.5	10	19	500	550	450	592	24	792	65	18	69.4

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN773.08

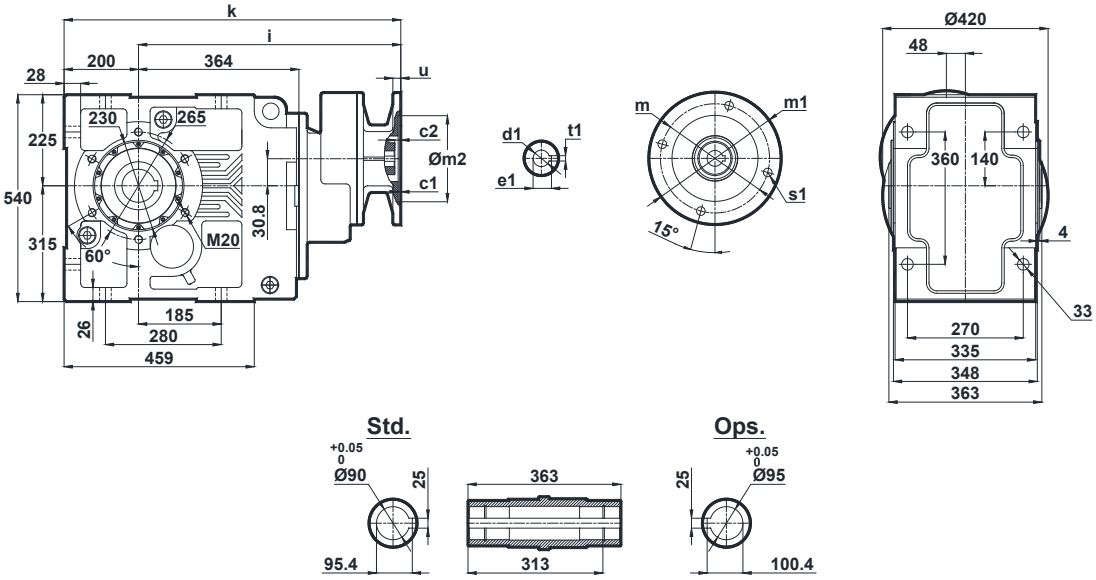


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	447.5	15	647.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	517	20	717	42	12	45.3
180/B5	5.5	10	19	300	350	250	517	20	717	48	14	51.8
200/B5	5.5	10	19	350	400	300	539	20	739	55	16	59.3
225/B5	5.5	10	19	400	450	350	592	24	792	60	18	64.4
250/B5	5.5	10	19	500	550	450	592	24	792	65	18	69.4

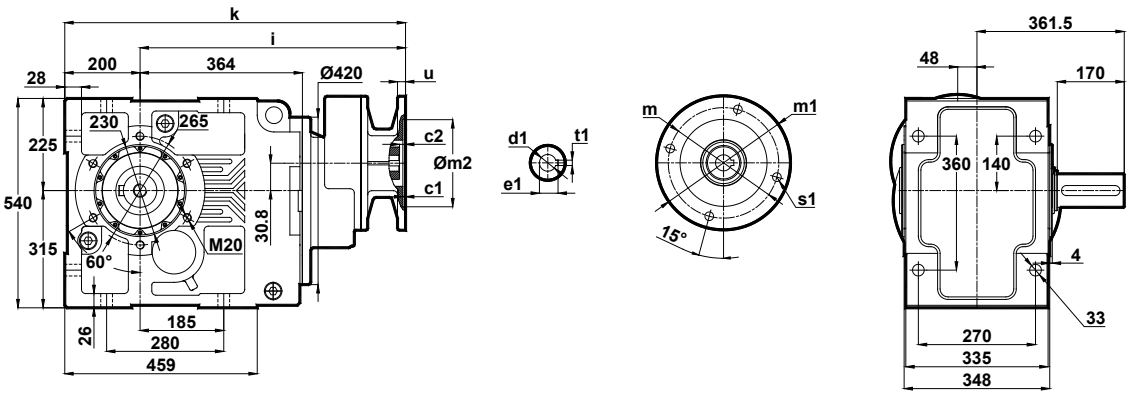
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

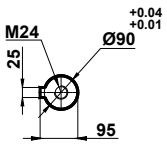
KN774.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	522.5	12	722.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	559.5	15	759.5	38	10	41.3

KN774.01

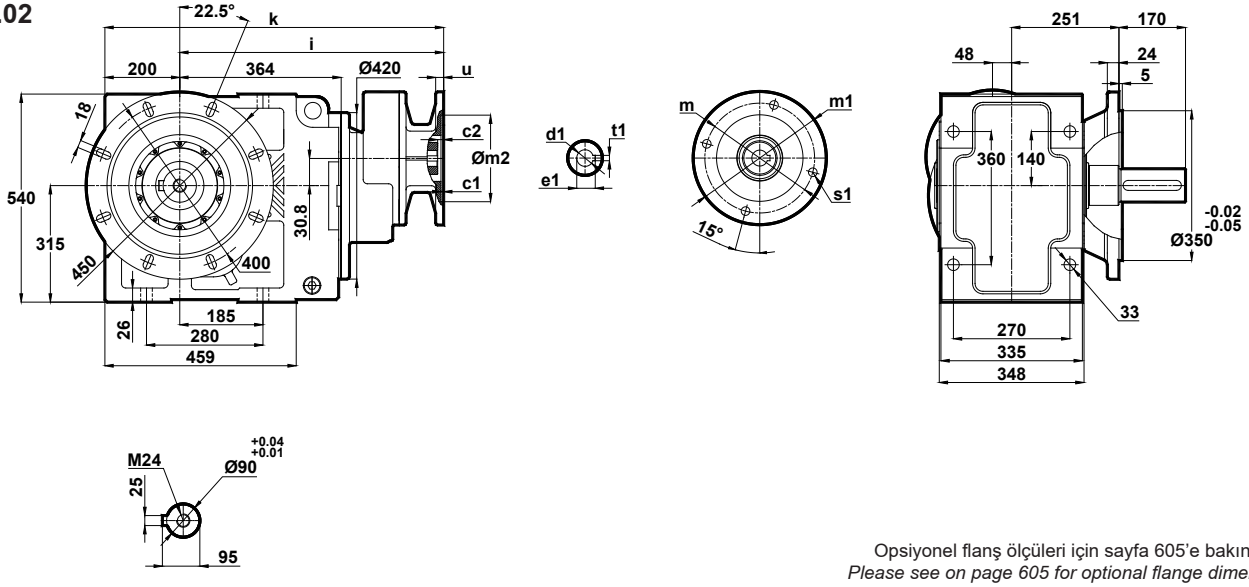




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	522.5	12	722.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	559.5	15	759.5	38	10	41.3

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

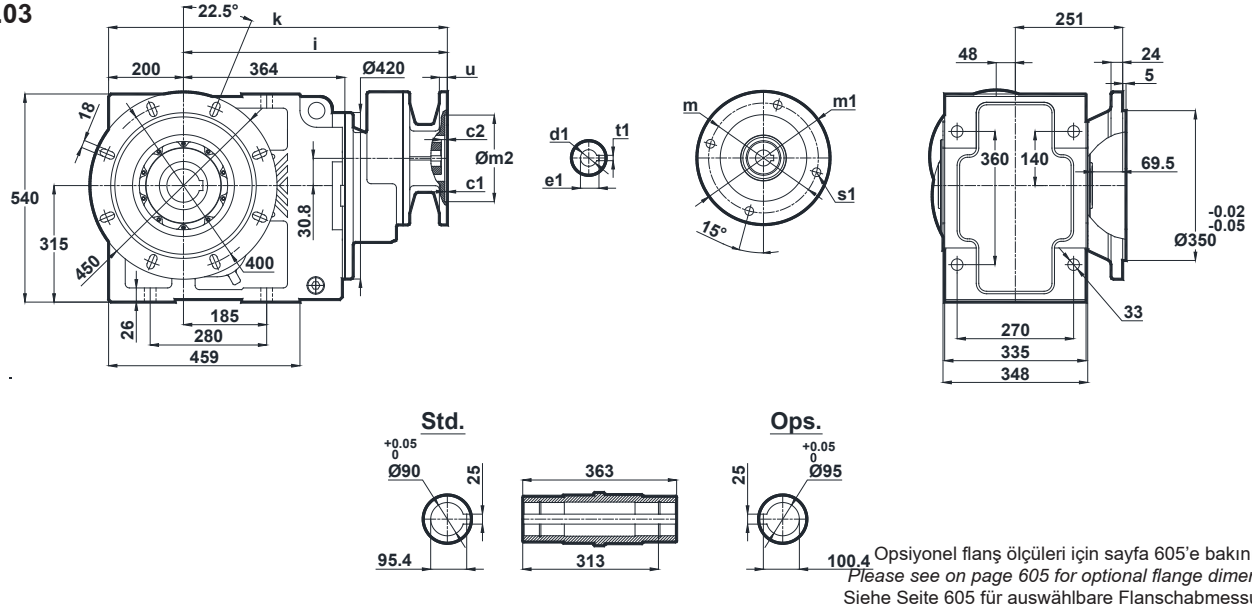
KN774.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	522.5	12	722.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	559.5	15	759.5	38	10	41.3

KN774.03

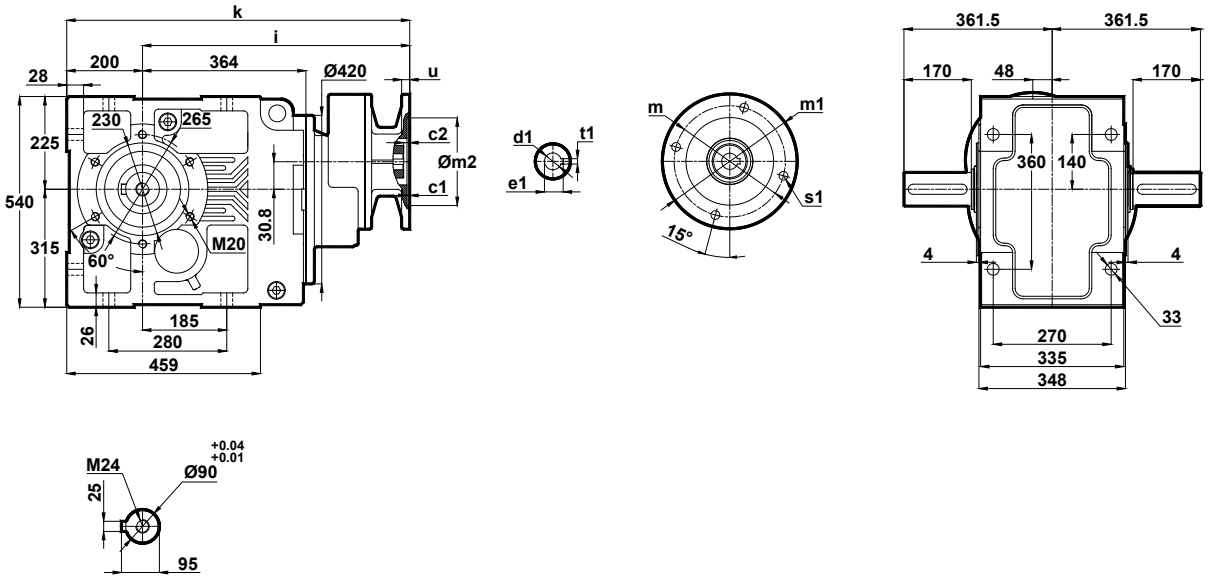


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	522.5	12	722.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	559.5	15	759.5	38	10	41.3

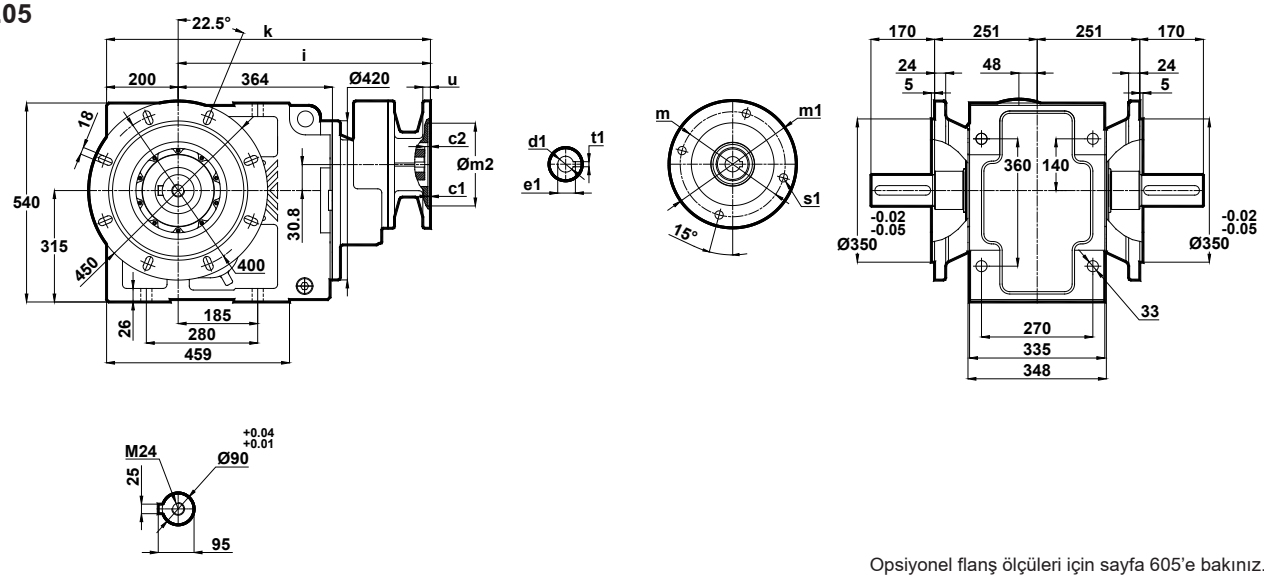
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN774.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	522.5	12	722.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	559.5	15	759.5	38	10	41.3

KN774.05



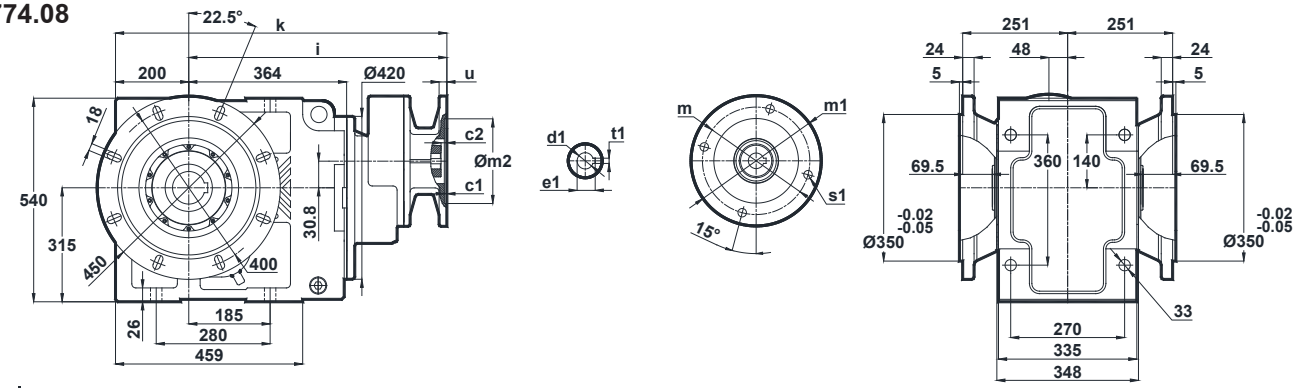
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

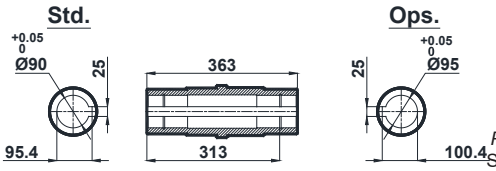
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	522.5	12	722.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	559.5	15	759.5	38	10	41.3

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN774.08



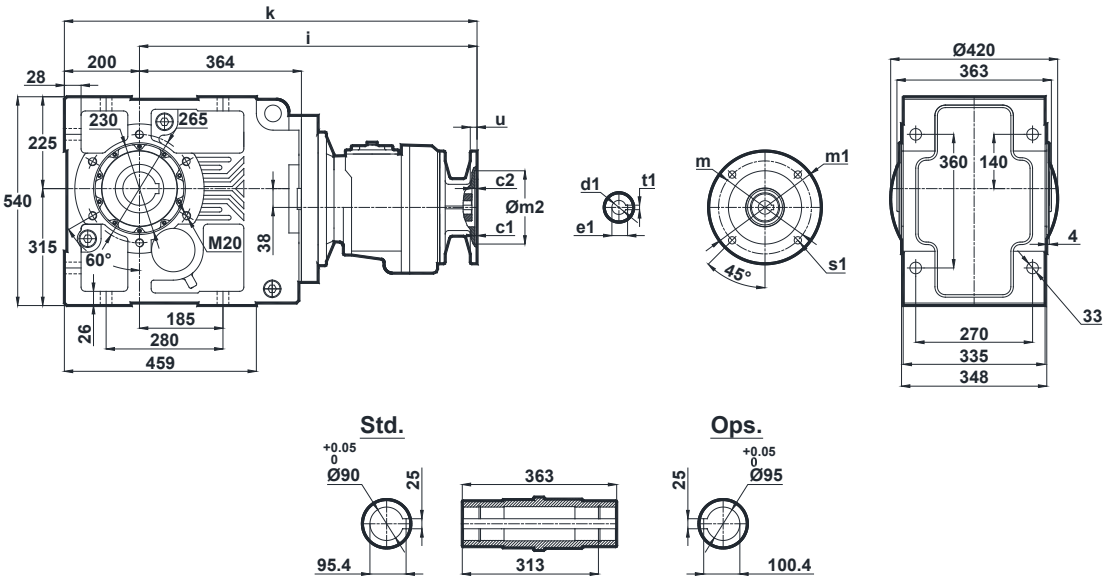


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	522.5	12	722.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	541	15	741	28	8	31.3
132/B5 **132/B14**	4.5	6	15 11	265 165	300 200	230 130	559.5	15	759.5	38	10	41.3

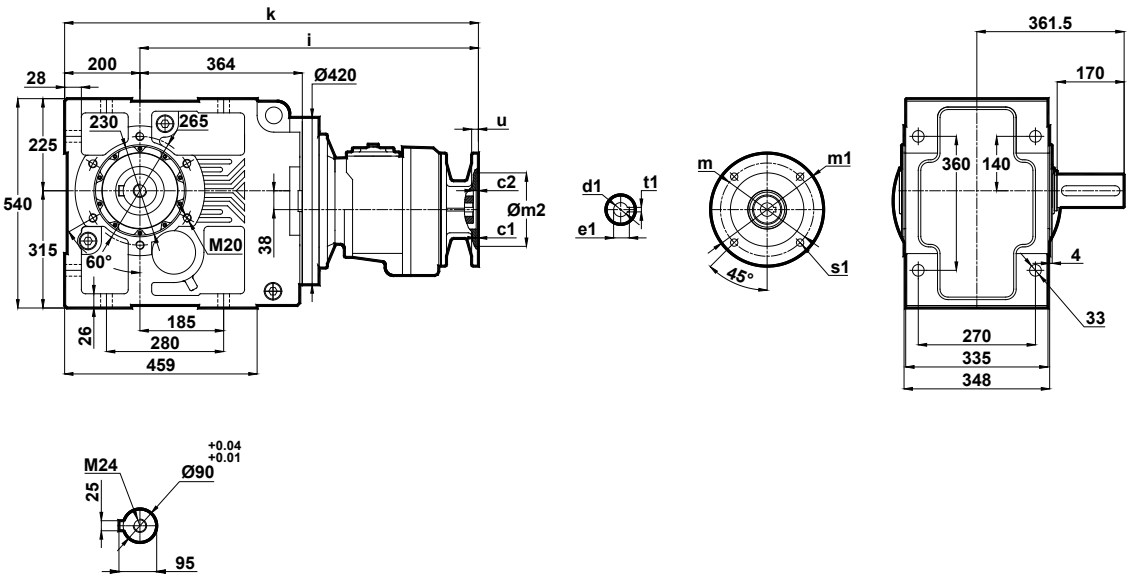
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN775.00
KN776.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	673.5	12	873.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	673.5	12	873.5	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 90	673.5	12	873.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	690.5	15	890.5	28	8	31.3

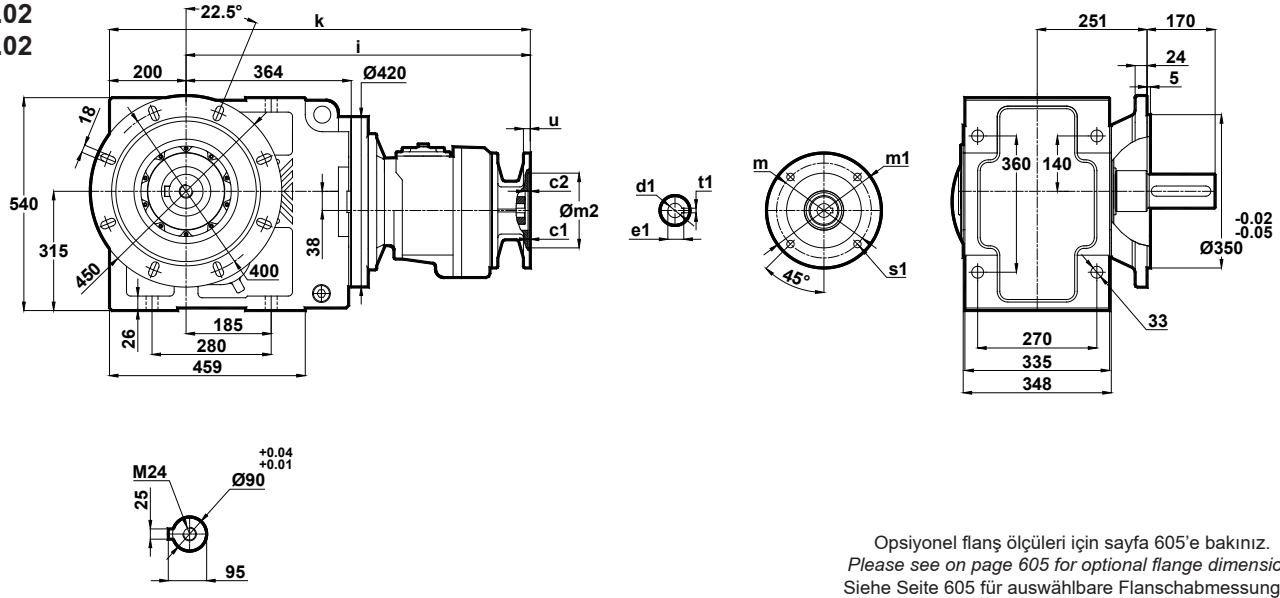
KN775.01
KN776.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	673.5	12	873.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	673.5	12	873.5	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 90	673.5	12	873.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	690.5	15	890.5	28	8	31.3

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

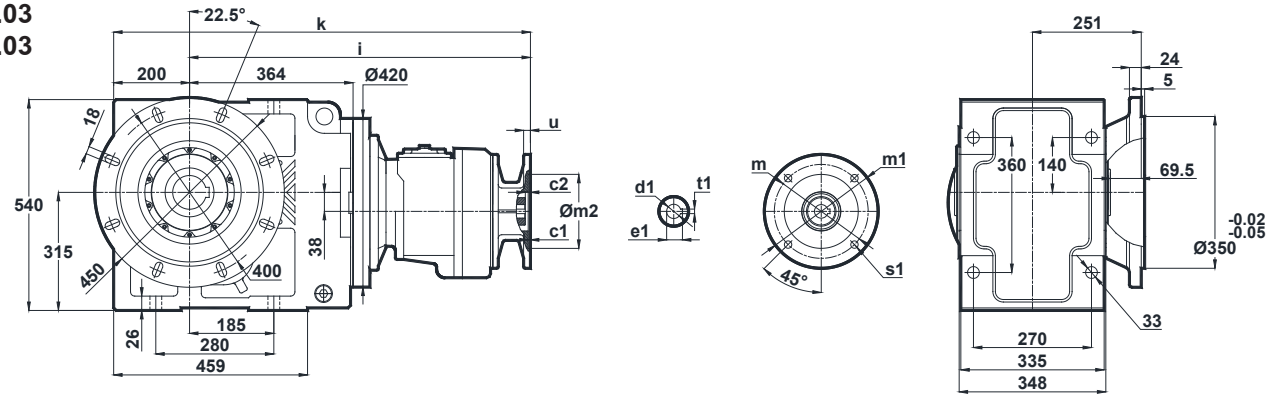
KN775.02
KN776.02

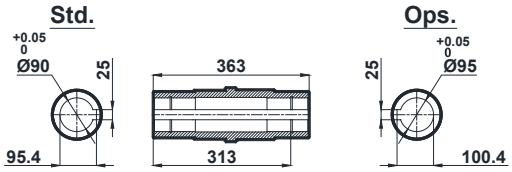


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	673.5	12	873.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	673.5	12	873.5	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 90	673.5	12	873.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	690.5	15	890.5	28	8	31.3

KN775.03
KN776.03





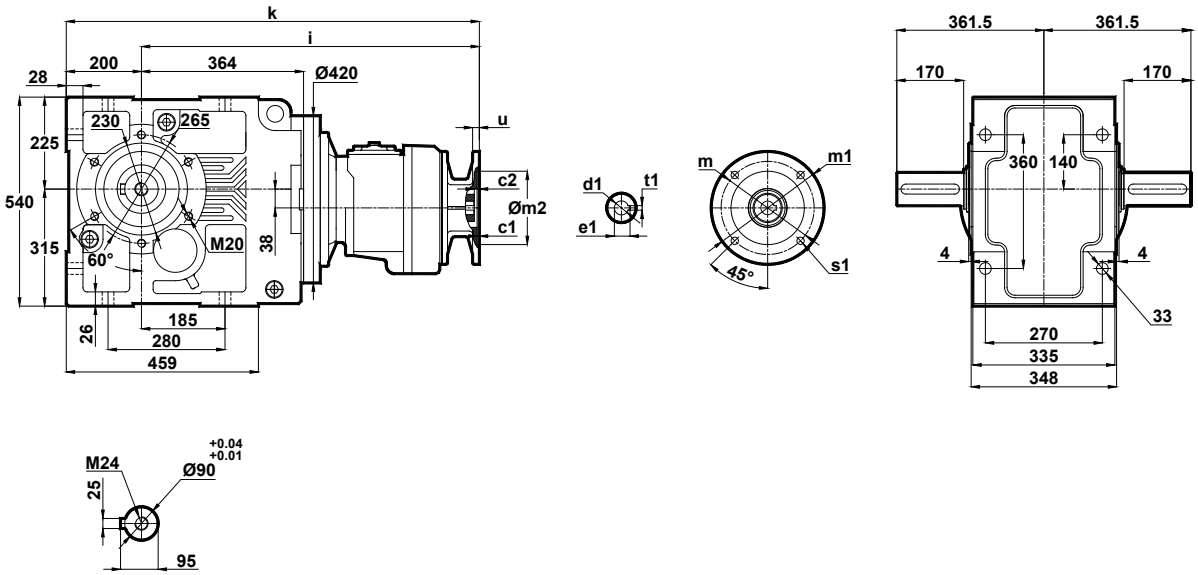
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	673.5	12	873.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	673.5	12	873.5	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 90	673.5	12	873.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	690.5	15	890.5	28	8	31.3

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

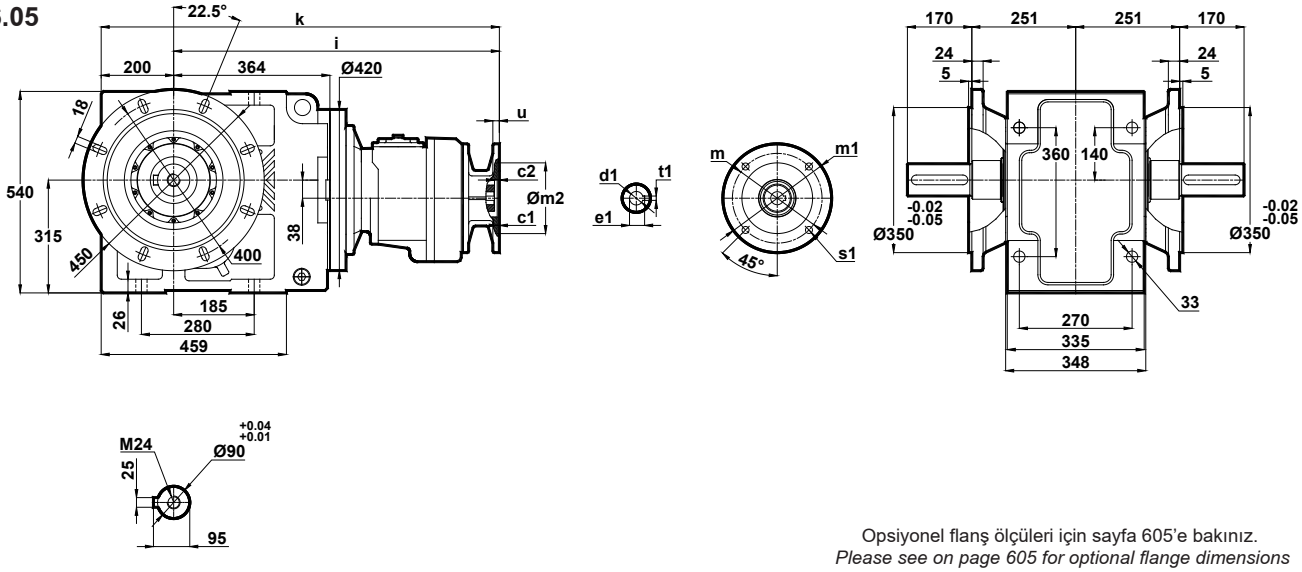
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN775.04
KN776.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	673.5	12	873.5	14	5	16.3
80/B5 80/B14	4	9	12 7	165 100	200 120	130 80	673.5	12	873.5	19	6	21.8
90/B5 90/B14	4	9	12 9	165 115	200 140	130 90	673.5	12	873.5	24	8	27.3
100/B5 100/B14	4.5 4	9	15 9	215 130	250 160	180 110	690.5	15	890.5	28	8	31.3

KN775.05
KN776.05



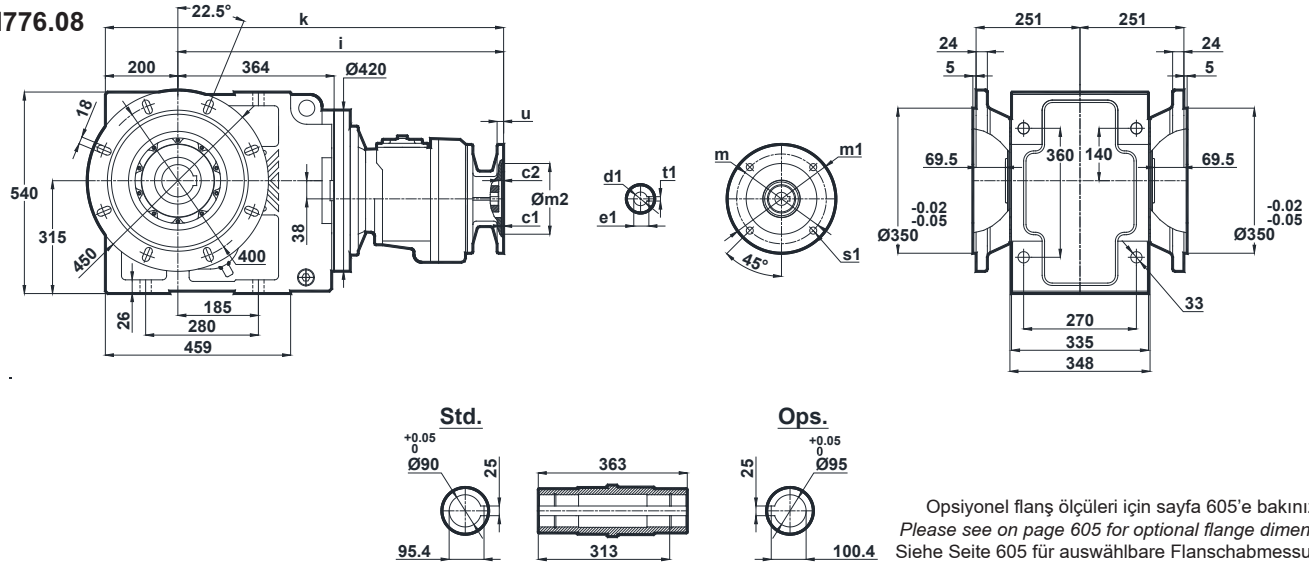
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	673.5	12	873.5	14	5	16.3
80/B5 80/B14	4	9	12 7	165 100	200 120	130 80	673.5	12	873.5	19	6	21.8
90/B5 90/B14	4	9	12 9	165 115	200 140	130 90	673.5	12	873.5	24	8	27.3
100/B5 100/B14	4.5 4	9	15 9	215 130	250 160	180 110	690.5	15	890.5	28	8	31.3

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN775.08
KN776.08

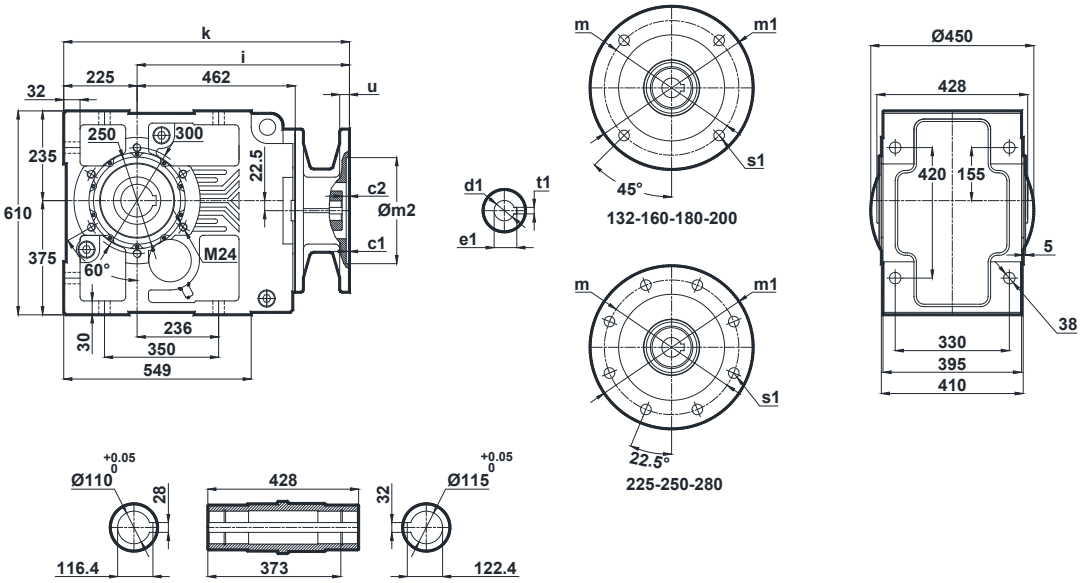


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	673.5	12	873.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	673.5	12	873.5	19	6	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 90	673.5	12	873.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	690.5	15	890.5	28	8	31.3

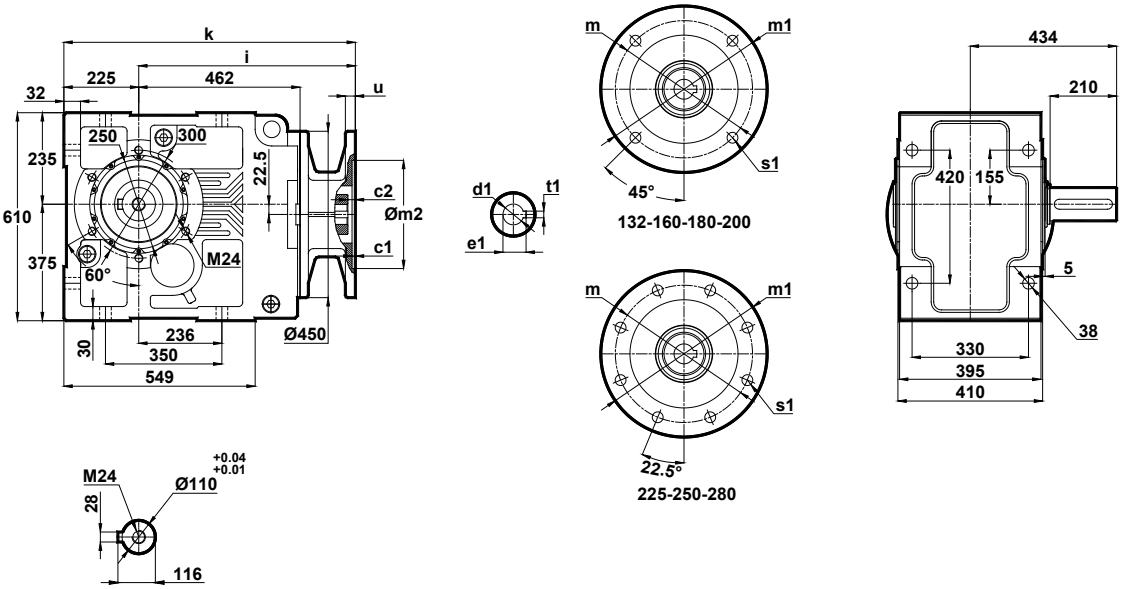
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN873.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	14	15	265	300	230	532.5	15	757.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	680	20	905	42	12	45.3
180/B5	5.5	10	19	300	350	250	680	20	905	48	14	51.8
200/B5	5.5	10	19	350	400	300	680	22	905	55	16	59.3
225/B5	5.5	10	19	400	450	350	680	24	905	60	18	64.4
250/B5	5.5	10	19	500	550	450	680	24	905	65	18	69.4
280/B5	5.5	10	19	500	550	450	680	24	905	75	20	79.9

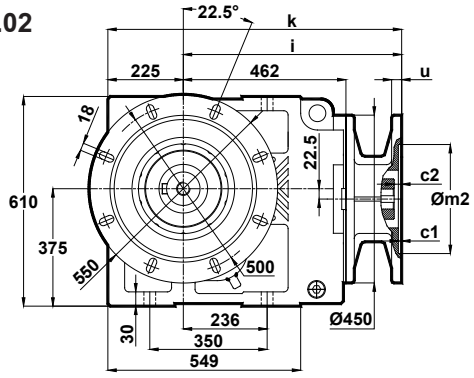
KN873.01

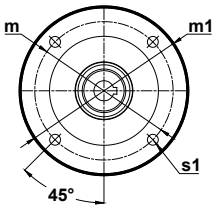


	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	14	15	265	300	230	532.5	15	757.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	680	20	905	42	12	45.3
180/B5	5.5	10	19	300	350	250	680	20	905	48	14	51.8
200/B5	5.5	10	19	350	400	300	680	22	905	55	16	59.3
225/B5	5.5	10	19	400	450	350	680	24	905	60	18	64.4
250/B5	5.5	10	19	500	550	450	680	24	905	65	18	69.4
280/B5	5.5	10	19	500	550	450	680	24	905	75	20	79.9

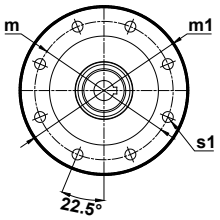
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN873.02

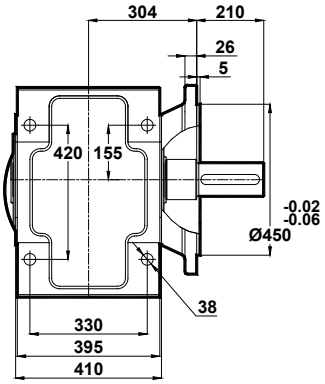


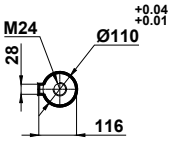


132-160-180-200



225-250-280

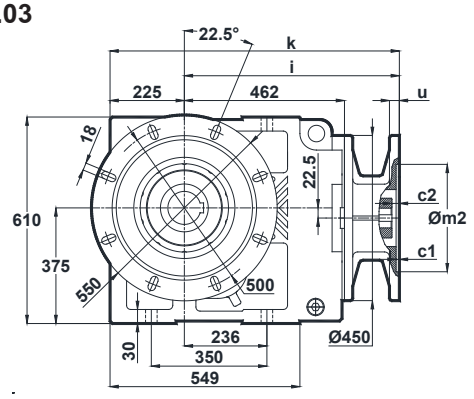


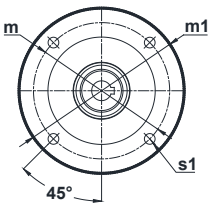


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

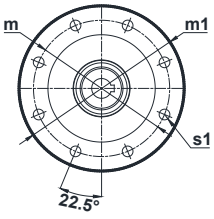
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	14	15	265	300	230	532.5	15	757.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	680	20	905	42	12	45.3
180/B5	5.5	10	19	300	350	250	680	20	905	48	14	51.8
200/B5	5.5	10	19	350	400	300	680	22	905	55	16	59.3
225/B5	5.5	10	19	400	450	350	680	24	905	60	18	64.4
250/B5	5.5	10	19	500	550	450	680	24	905	65	18	69.4
280/B5	5.5	10	19	500	550	450	680	24	905	75	20	79.9

KN873.03

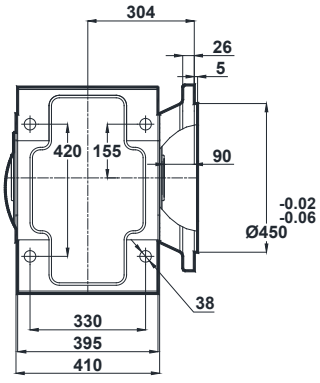


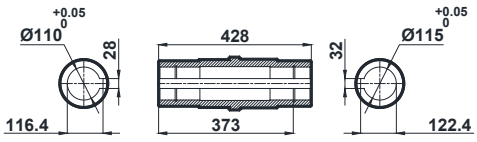


132-160-180-200



225-250-280



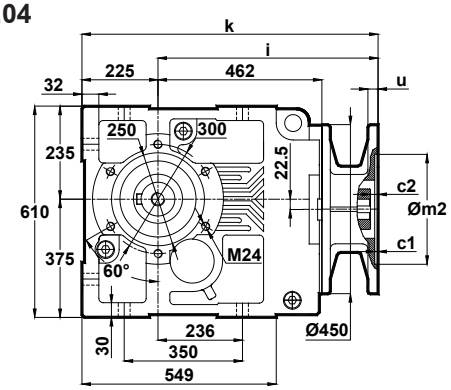


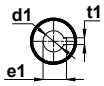
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

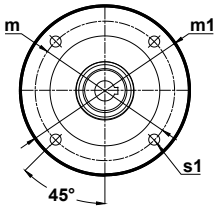
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	14	15	265	300	230	532.5	15	757.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	680	20	905	42	12	45.3
180/B5	5.5	10	19	300	350	250	680	20	905	48	14	51.8
200/B5	5.5	10	19	350	400	300	680	22	905	55	16	59.3
225/B5	5.5	10	19	400	450	350	680	24	905	60	18	64.4
250/B5	5.5	10	19	500	550	450	680	24	905	65	18	69.4
280/B5	5.5	10	19	500	550	450	680	24	905	75	20	79.9

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

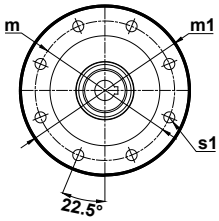
KN873.04



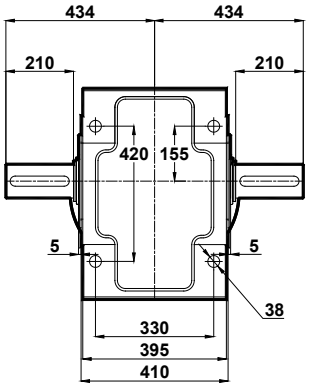


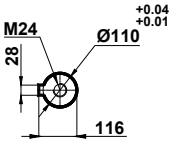


132-160-180-200



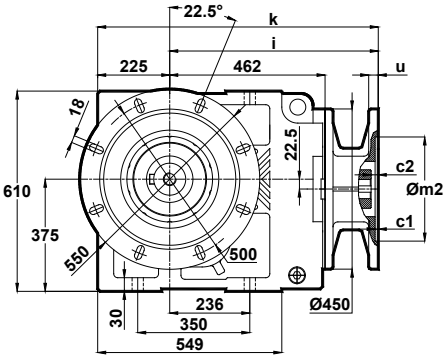
225-250-280

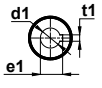


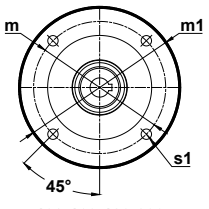


	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	14	15	265	300	230	532.5	15	757.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	680	20	905	42	12	45.3
180/B5	5.5	10	19	300	350	250	680	20	905	48	14	51.8
200/B5	5.5	10	19	350	400	300	680	22	905	55	16	59.3
225/B5	5.5	10	19	400	450	350	680	24	905	60	18	64.4
250/B5	5.5	10	19	500	550	450	680	24	905	65	18	69.4
280/B5	5.5	10	19	500	550	450	680	24	905	75	20	79.9

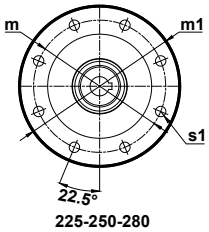
KN873.05



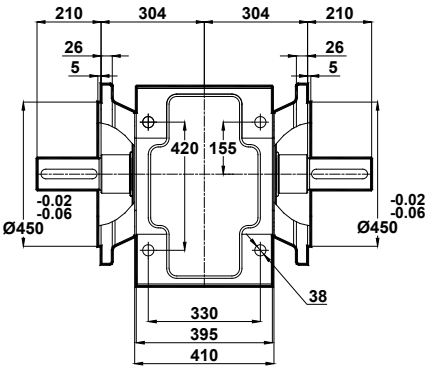


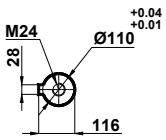


132-160-180-200



225-250-280



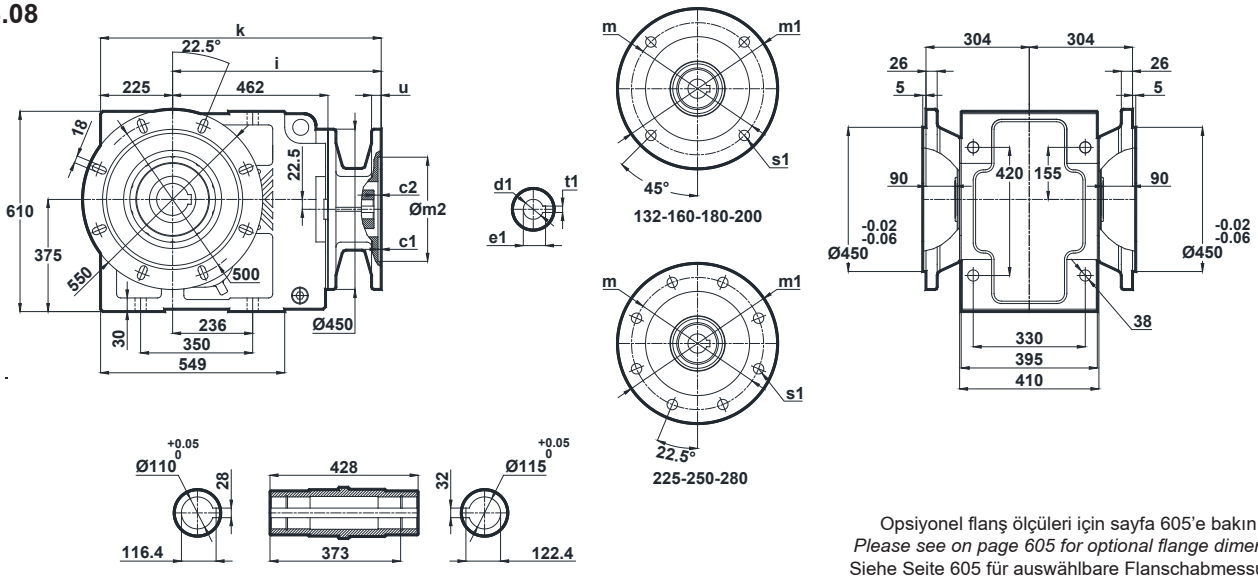


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	14	15	265	300	230	532.5	15	757.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	680	20	905	42	12	45.3
180/B5	5.5	10	19	300	350	250	680	20	905	48	14	51.8
200/B5	5.5	10	19	350	400	300	680	22	905	55	16	59.3
225/B5	5.5	10	19	400	450	350	680	24	905	60	18	64.4
250/B5	5.5	10	19	500	550	450	680	24	905	65	18	69.4
280/B5	5.5	10	19	500	550	450	680	24	905	75	20	79.9

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN873.08

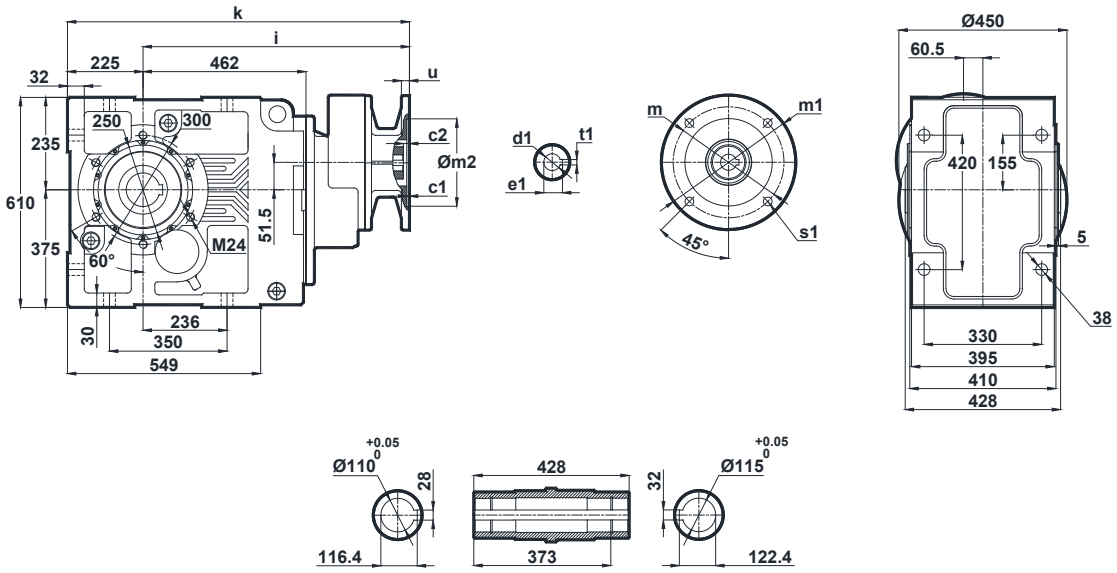


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	14	15	265	300	230	532.5	15	757.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	680	20	905	42	12	45.3
180/B5	5.5	10	19	300	350	250	680	20	905	48	14	51.8
200/B5	5.5	10	19	350	400	300	680	22	905	55	16	59.3
225/B5	5.5	10	19	400	450	350	680	24	905	60	18	64.4
250/B5	5.5	10	19	500	550	450	680	24	905	65	18	69.4
280/B5	5.5	10	19	500	550	450	680	24	905	75	20	79.9

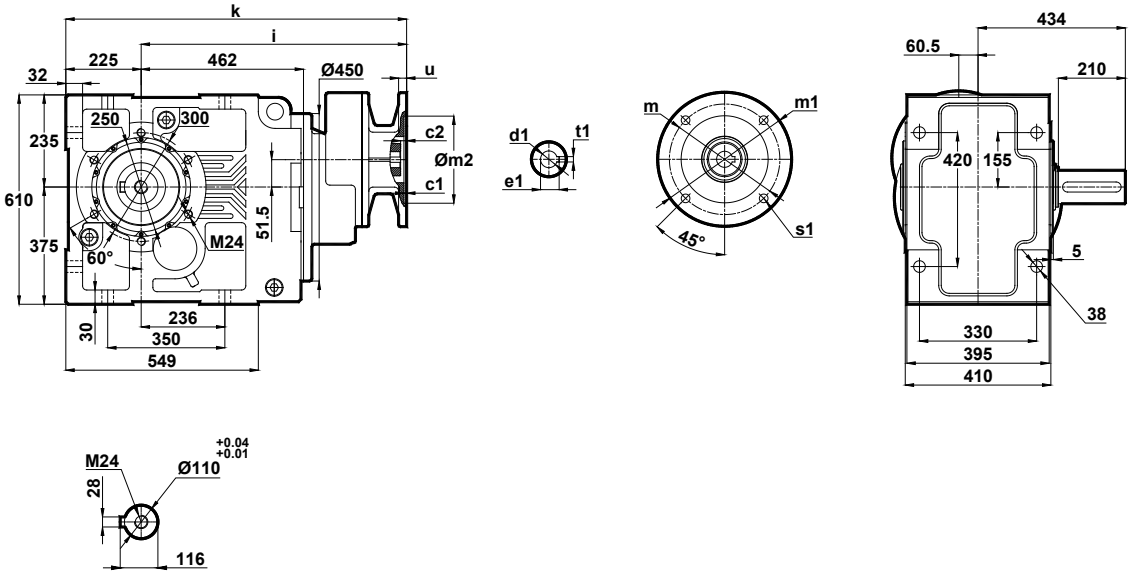
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN874.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
112/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	673.5	15	898.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	749	18	974	42	12	45.3
180/B5	5.5	10	19	300	350	250	749	18	974	48	14	51.8

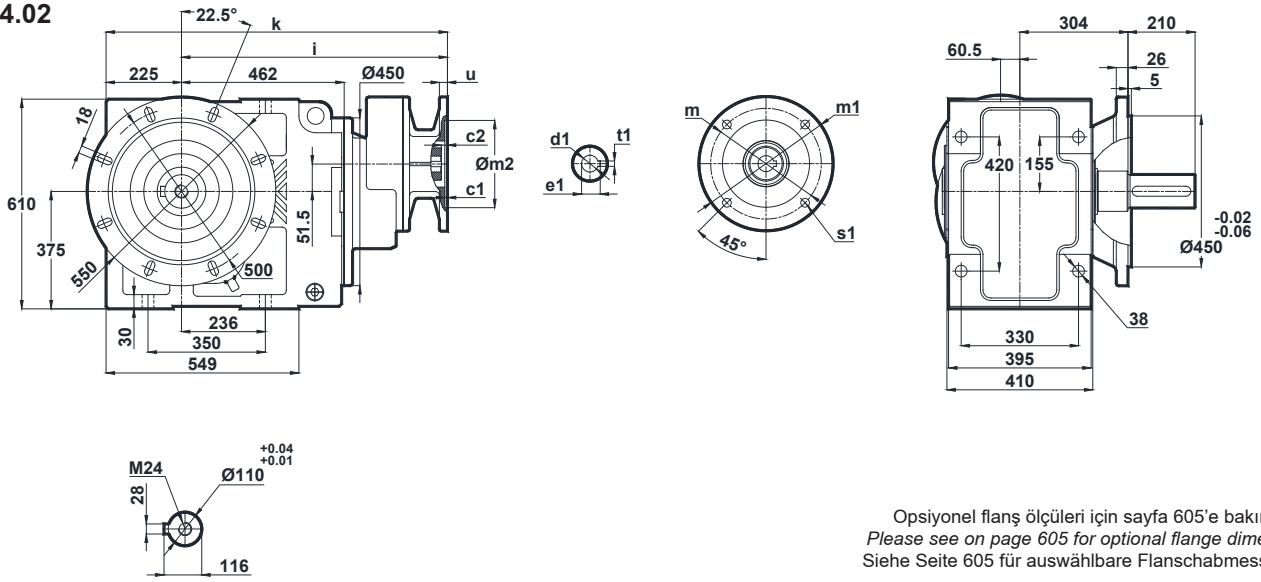
KN874.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
112/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	673.5	15	898.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	749	18	974	42	12	45.3
180/B5	5.5	10	19	300	350	250	749	18	974	48	14	51.8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

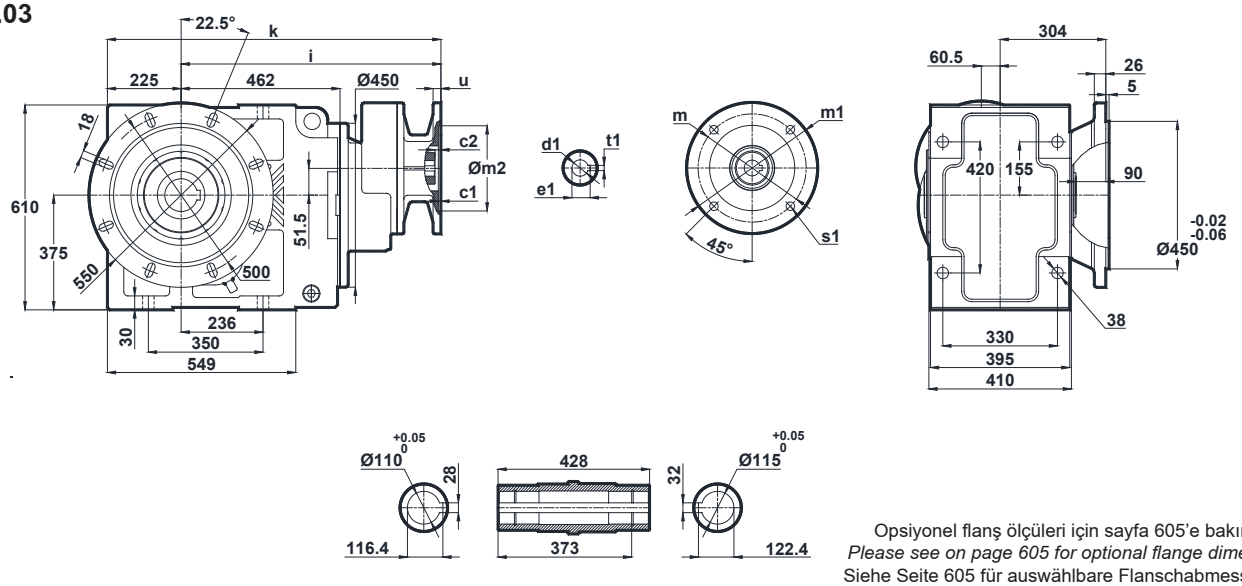
KN874.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
112/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	673.5	15	898.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	749	18	974	42	12	45.3
180/B5	5.5	10	19	300	350	250	749	18	974	48	14	51.8

KN874.03

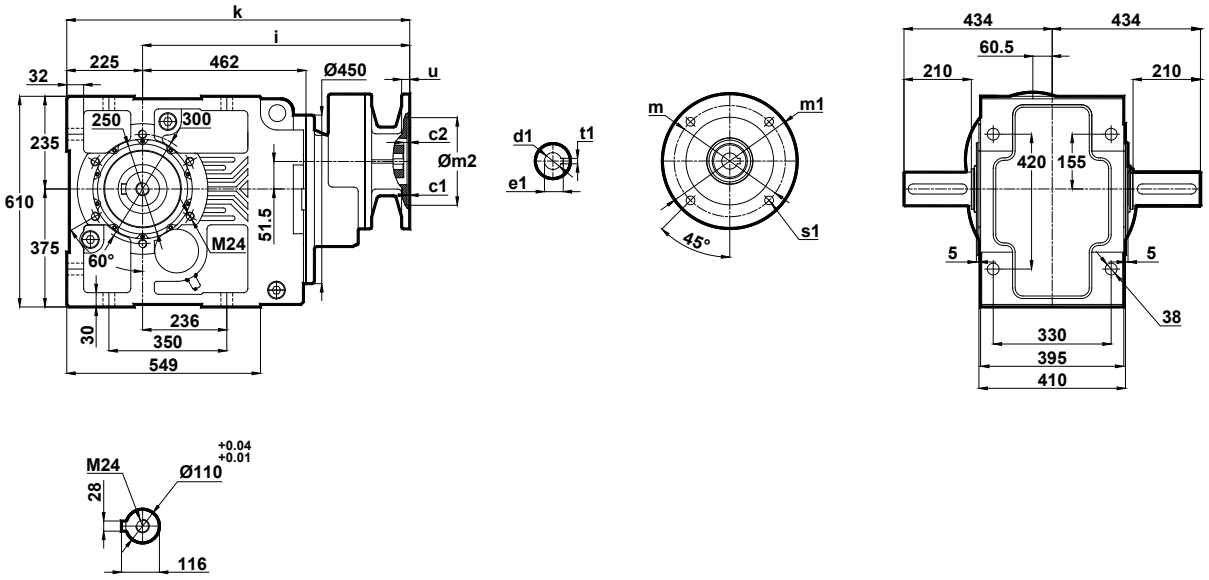


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
112/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	673.5	15	898.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	749	18	974	42	12	45.3
180/B5	5.5	10	19	300	350	250	749	18	974	48	14	51.8

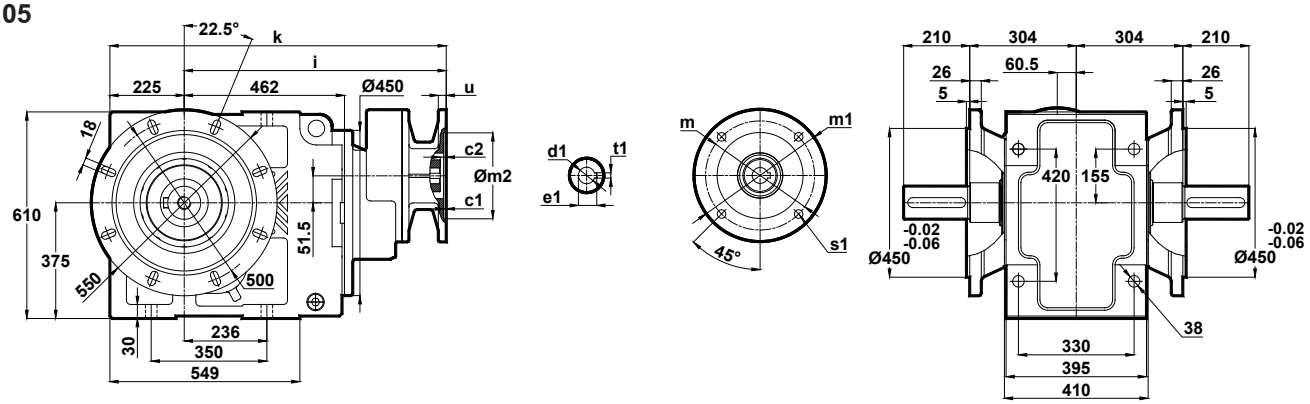
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

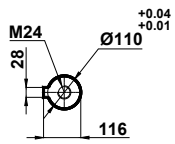
KN874.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
112/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	673.5	15	898.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	749	18	974	42	12	45.3
180/B5	5.5	10	19	300	350	250	749	18	974	48	14	51.8

KN874.05



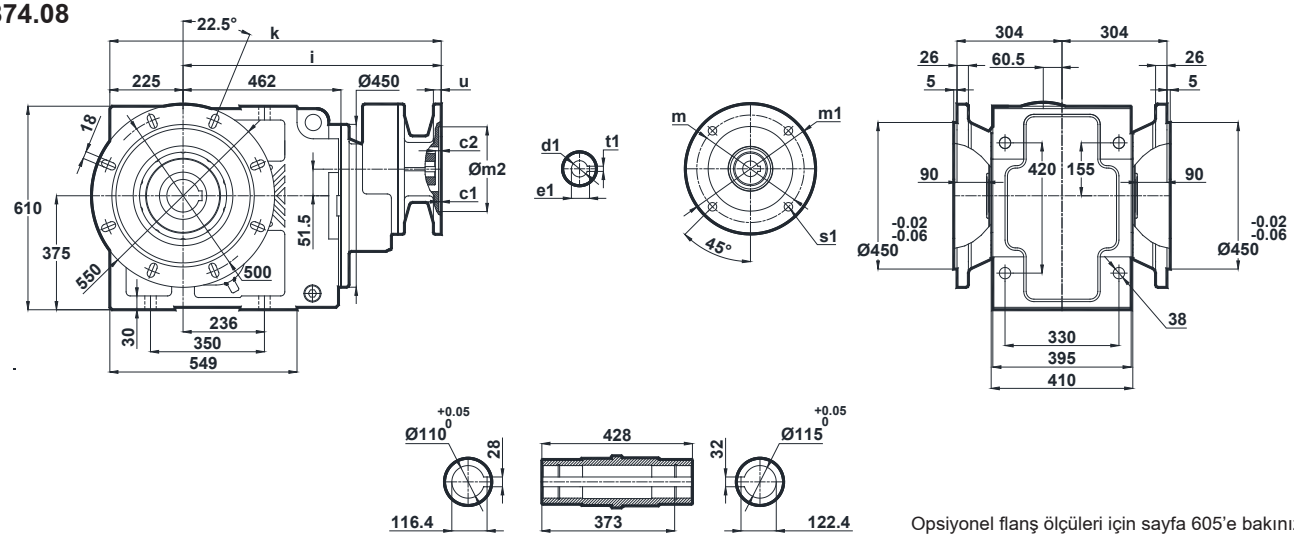


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
112/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	673.5	15	898.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	749	18	974	42	12	45.3
180/B5	5.5	10	19	300	350	250	749	18	974	48	14	51.8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN874.08

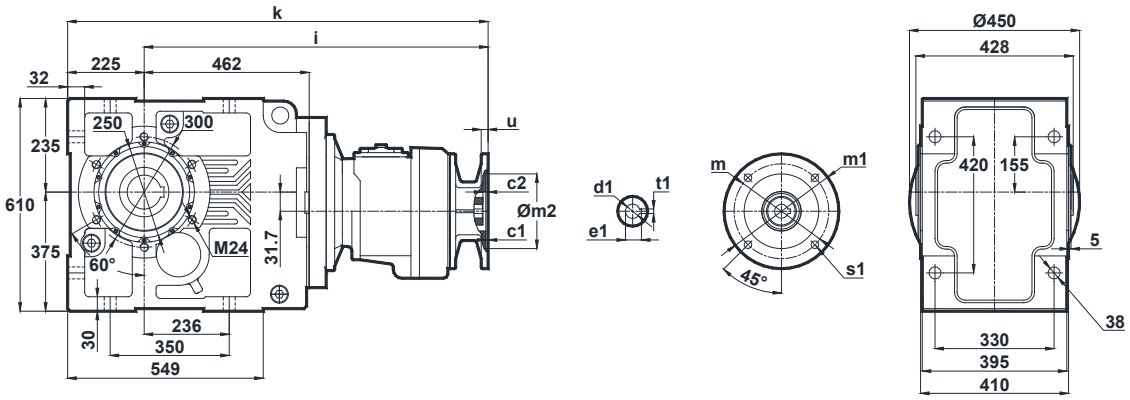


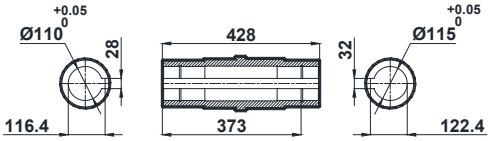
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
112/B5	4.5	9	15	215	250	180	652.5	15	877.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15 11	265 165	300 200	230 130	673.5	15	898.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	749	18	974	42	12	45.3
180/B5	5.5	10	19	300	350	250	749	18	974	48	14	51.8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

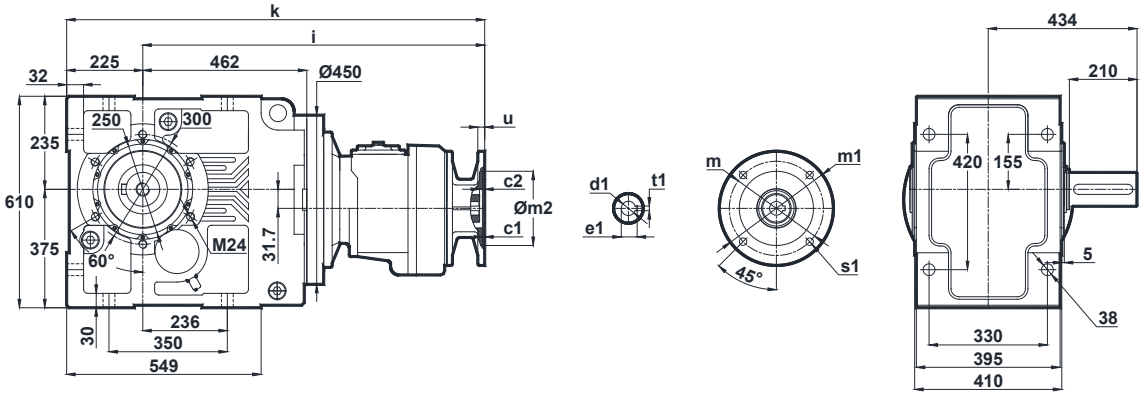
KN875.00
KN876.00

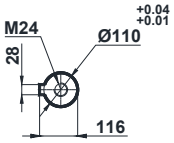




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	771.5	12	996.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	771.5	12	996.5	19	6 8	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	771.5	12	996.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	808.5	20	1033,5	38	10	41,3

KN875.01
KN876.01

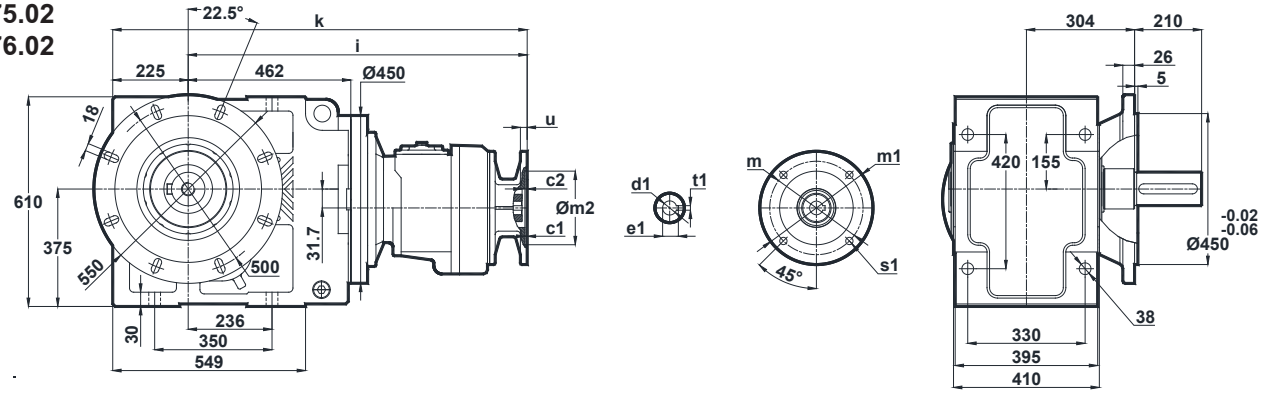


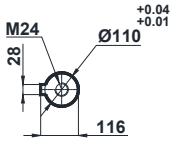


	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	771.5	12	996.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	771.5	12	996.5	19	6 8	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	771.5	12	996.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	808.5	20	1033,5	38	10	41,3

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN875.02
KN876.02

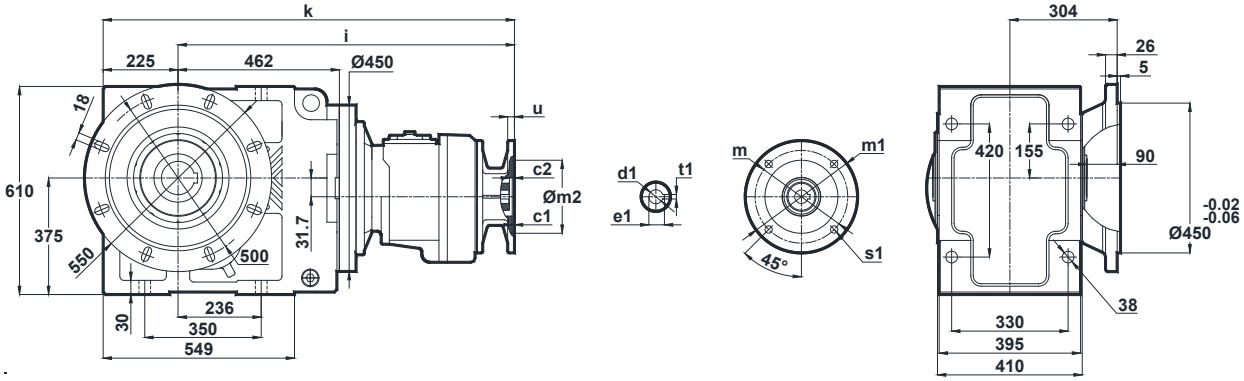


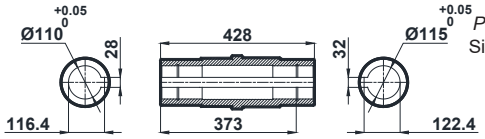


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	771.5	12	996.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	771.5	12	996.5	19	6 8	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	771.5	12	996.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	808.5	20	1033,5	38	10	41,3

KN875.03
KN876.03



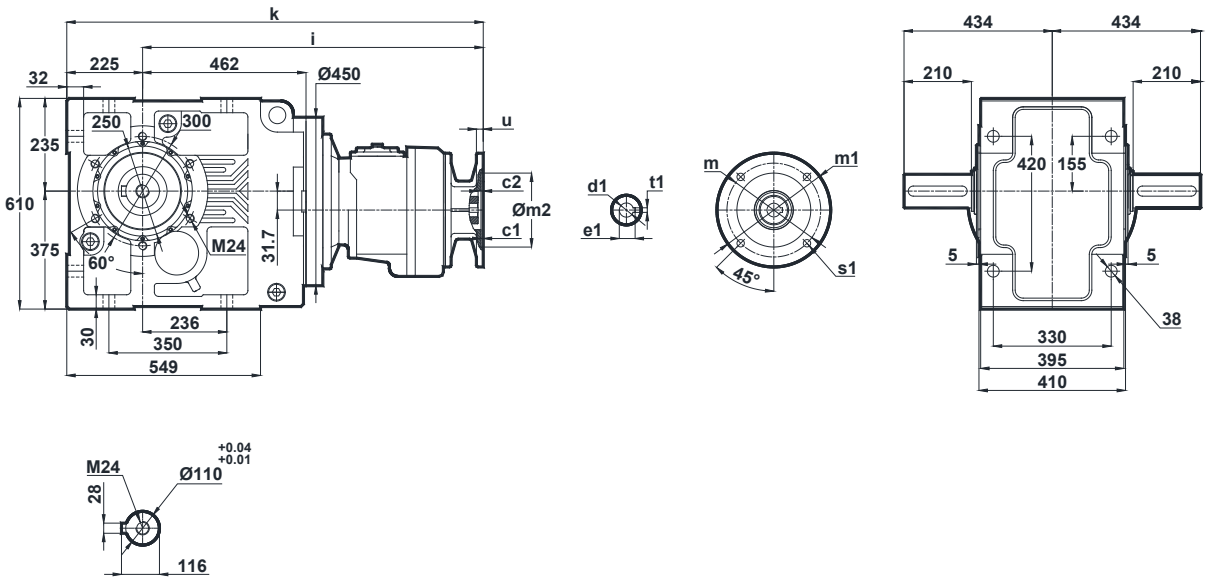


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	771.5	12	996.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	771.5	12	996.5	19	6 8	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	771.5	12	996.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	808.5	20	1033,5	38	10	41,3

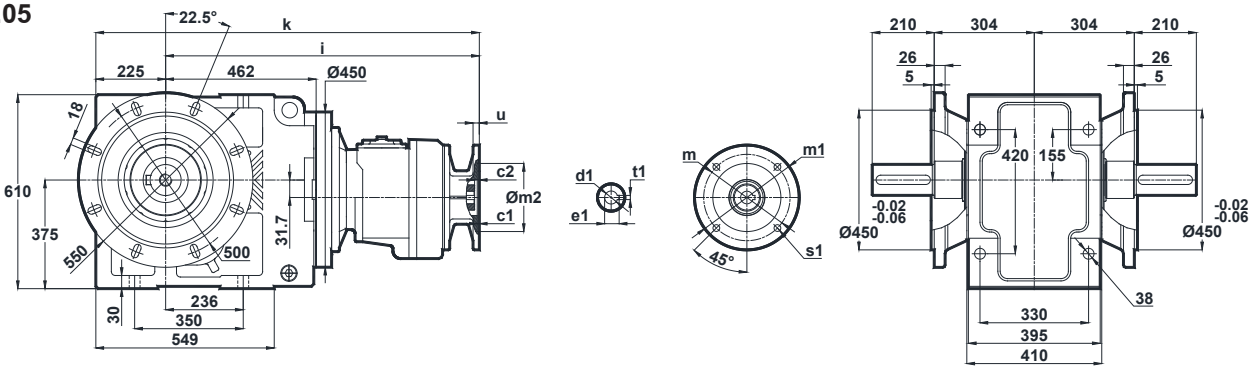
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

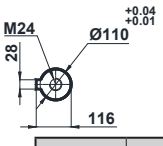
KN875.04
KN876.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	771.5	12	996.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	771.5	12	996.5	19	6 8	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	771.5	12	996.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	808.5	20	1033,5	38	10	41,3

KN875.05
KN876.05





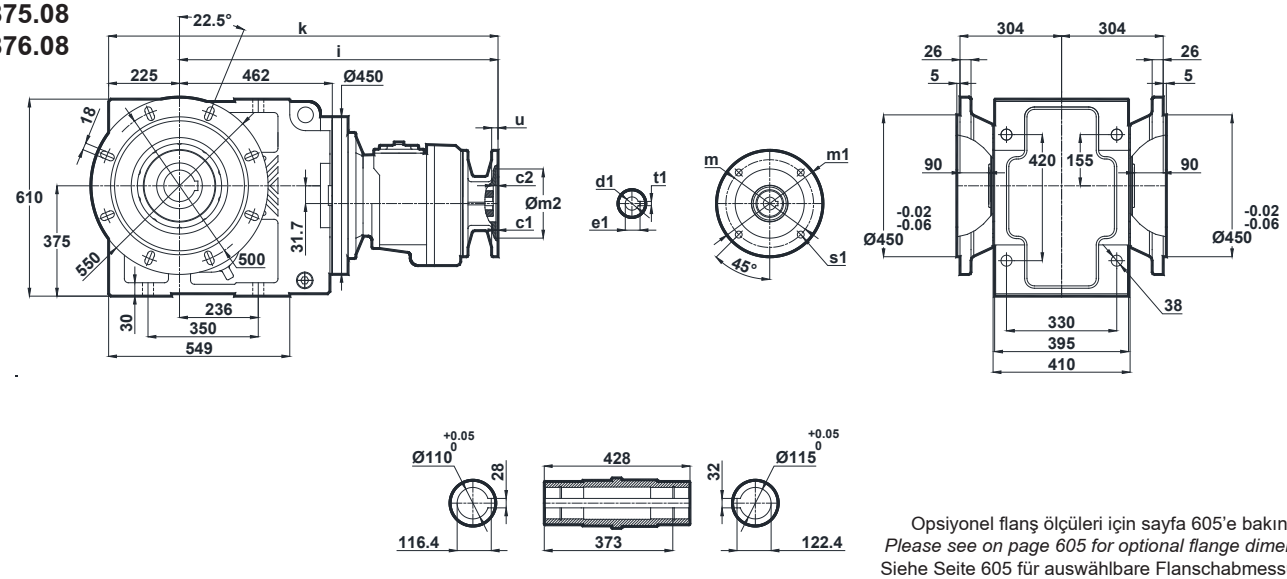
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	771.5	12	996.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	771.5	12	996.5	19	6 8	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	771.5	12	996.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	808.5	20	1033,5	38	10	41,3

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN875.08
KN876.08

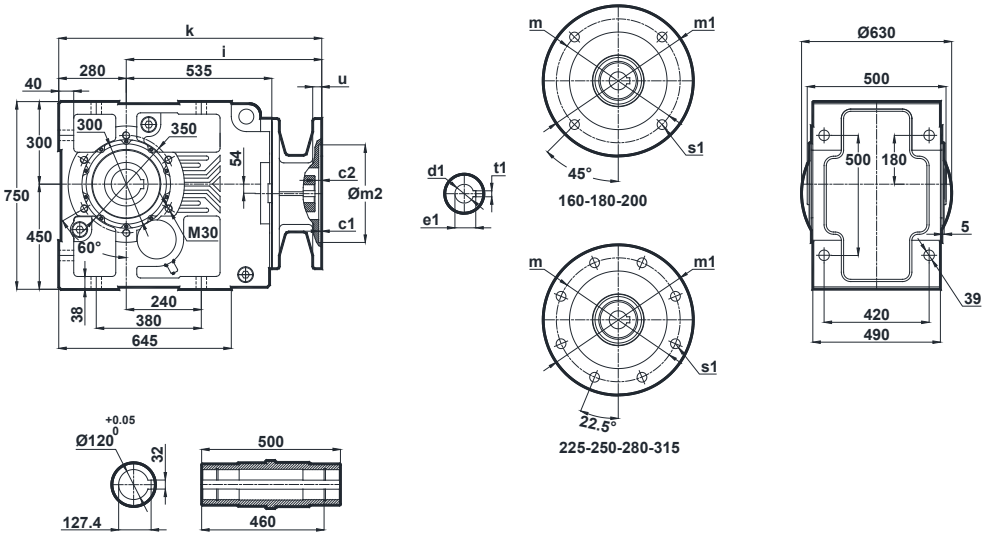


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	771.5	12	996.5	14	5	16.3
80/B5 **80/B14**	4	9	12 7	165 100	200 120	130 80	771.5	12	996.5	19	6 8	21.8
90/B5 **90/B14**	4	9	12 9	165 115	200 140	130 95	771.5	12	996.5	24	8	27.3
100/B5 **100/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
112/B5 **112/B14**	4.5 4	9	15 9	215 130	250 160	180 110	788.5	15	1013.5	28	8	31.3
132/B5 **132/B14**	4,5	7	15 9	265 165	300 200	230 130	808.5	20	1033,5	38	10	41,3

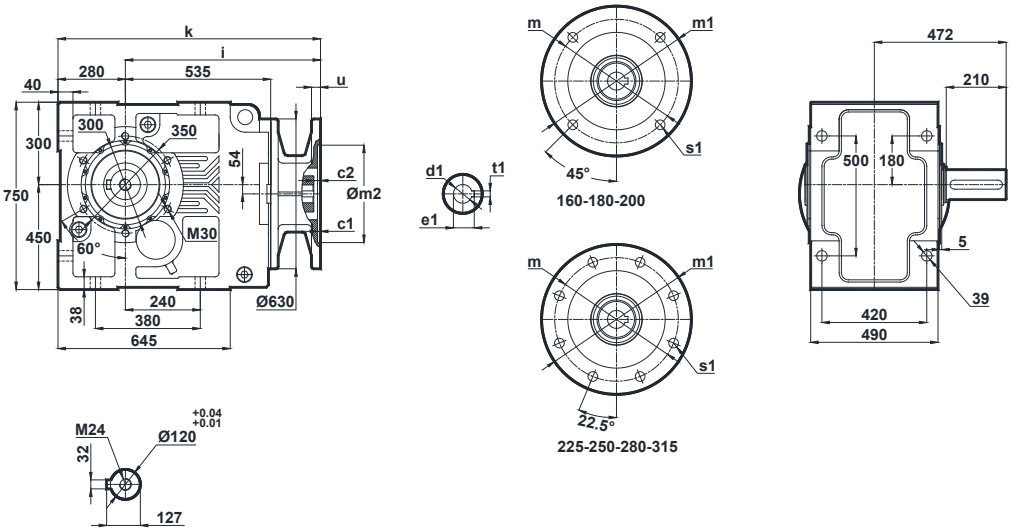
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN973.00



	c1	c2	s1	m	m1	m2(H7)	i	u	k	d1	t1	e1
160/B5	5.5	10	19	300	350	250	667	20	947	42	12	45.3
180/B5	5.5	10	19	300	350	250	667	20	947	48	14	51.8
200/B5	5.5	10	19	350	400	300	691	22	971	55	16	59.3
225/B5	5.5	10	19	400	450	350	733	24	1013	60	18	64.4
250/B5	5.5	10	19	500	550	450	755	24	1035	65	18	69.4
280/B5	5.5	10	19	500	550	450	755	24	1035	75	20	79.4
315M/B5	6.5	15	24	600	660	550	835	24	1115	80	22	90.4
315N/B5	6.5	15	24	600	660	550	835	24	1115	85	22	90.4
315L/B5	6.5	15	24	600	660	550	835	24	1115	90	22	90.4

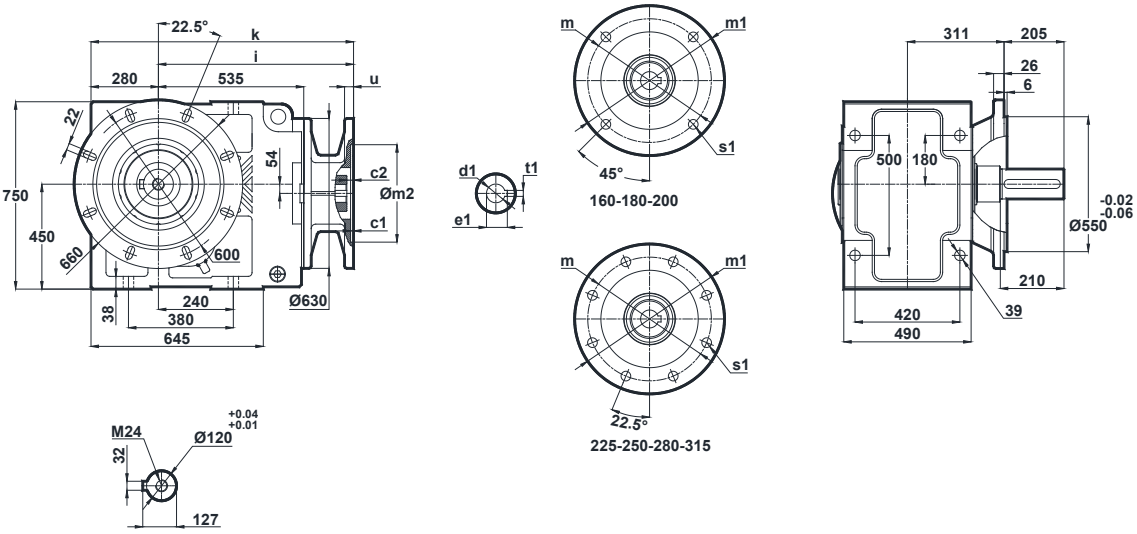
KN973.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
160/B5	5.5	10	19	300	350	250	667	20	947	42	12	45.3
180/B5	5.5	10	19	300	350	250	667	20	947	48	14	51.8
200/B5	5.5	10	19	350	400	300	691	22	971	55	16	59.3
225/B5	5.5	10	19	400	450	350	733	24	1013	60	18	64.4
250/B5	5.5	10	19	500	550	450	755	24	1035	65	18	69.4
280/B5	5.5	10	19	500	550	450	755	24	1035	75	20	79.4
315M/B5	6.5	15	24	600	660	550	835	24	1115	80	22	90.4
315N/B5	6.5	15	24	600	660	550	835	24	1115	85	22	90.4
315L/B5	6.5	15	24	600	660	550	835	24	1115	90	22	90.4

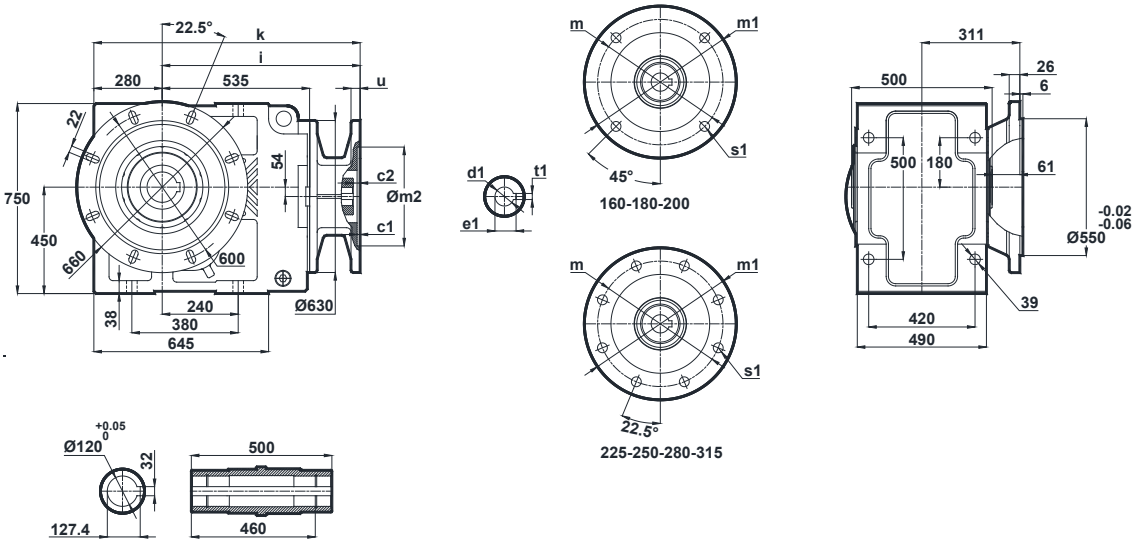
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN973.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
160/B5	5.5	10	19	300	350	250	667	20	947	42	12	45.3
180/B5	5.5	10	19	300	350	250	667	20	947	48	14	51.8
200/B5	5.5	10	19	350	400	300	691	22	971	55	16	59.3
225/B5	5.5	10	19	400	450	350	733	24	1013	60	18	64.4
250/B5	5.5	10	19	500	550	450	755	24	1035	65	18	69.4
280/B5	5.5	10	19	500	550	450	755	24	1035	75	20	79.4
315M/B5	6.5	15	24	600	660	550	835	24	1115	80	22	90.4
315N/B5	6.5	15	24	600	660	550	835	24	1115	85	22	90.4
315L/B5	6.5	15	24	600	660	550	835	24	1115	90	22	90.4

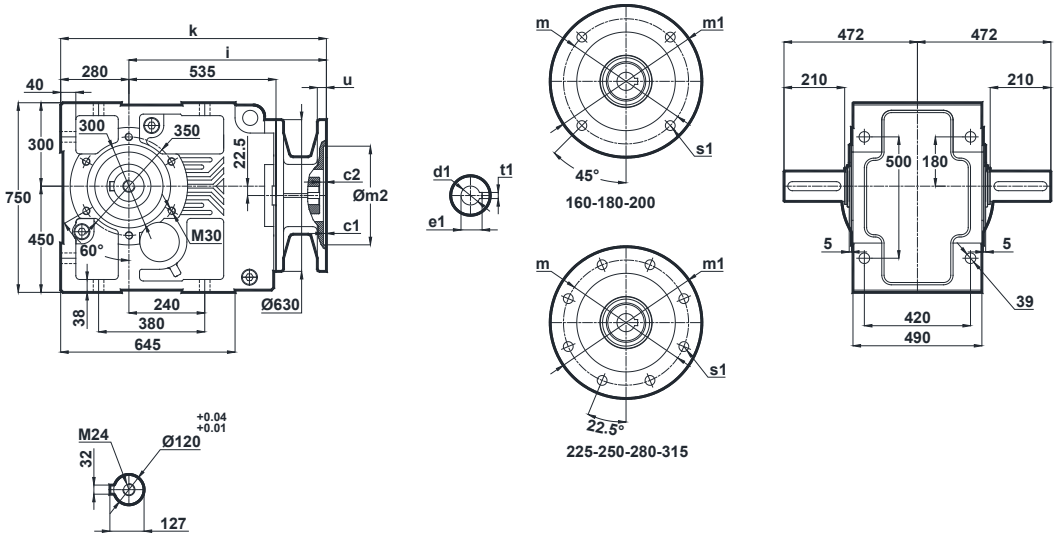
KN973.03



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
160/B5	5.5	10	19	300	350	250	667	20	947	42	12	45.3
180/B5	5.5	10	19	300	350	250	667	20	947	48	14	51.8
200/B5	5.5	10	19	350	400	300	691	22	971	55	16	59.3
225/B5	5.5	10	19	400	450	350	733	24	1013	60	18	64.4
250/B5	5.5	10	19	500	550	450	755	24	1035	65	18	69.4
280/B5	5.5	10	19	500	550	450	755	24	1035	75	20	79.4
315M/B5	6.5	15	24	600	660	550	835	24	1115	80	22	90.4
315N/B5	6.5	15	24	600	660	550	835	24	1115	85	22	90.4
315L/B5	6.5	15	24	600	660	550	835	24	1115	90	22	90.4

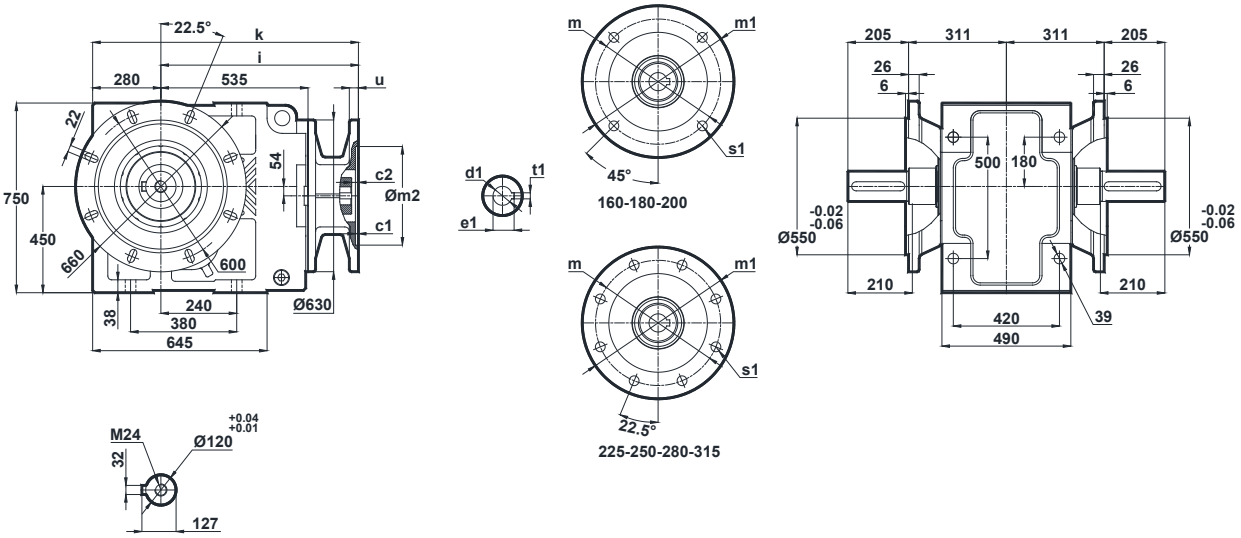
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN973.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
160/B5	5.5	10	19	300	350	250	667	20	947	42	12	45.3
180/B5	5.5	10	19	300	350	250	667	20	947	48	14	51.8
200/B5	5.5	10	19	350	400	300	691	22	971	55	16	59.3
225/B5	5.5	10	19	400	450	350	733	24	1013	60	18	64.4
250/B5	5.5	10	19	500	550	450	755	24	1035	65	18	69.4
280/B5	5.5	10	19	500	550	450	755	24	1035	75	20	79.4
315M/B5	6.5	15	24	600	660	550	835	24	1115	80	22	90.4
315N/B5	6.5	15	24	600	660	550	835	24	1115	85	22	90.4
315L/B5	6.5	15	24	600	660	550	835	24	1115	90	22	90.4

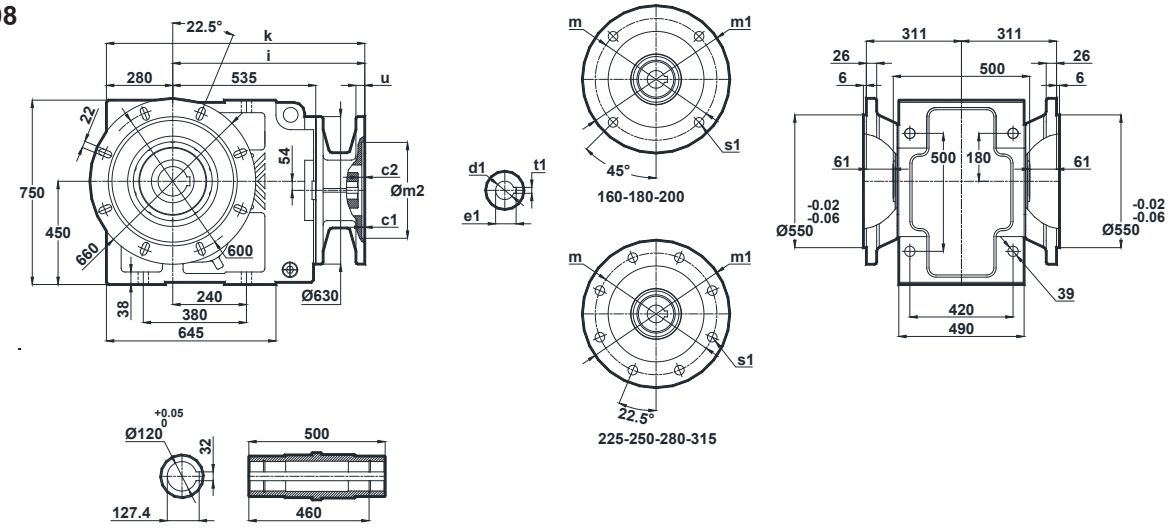
KN973.05



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
160/B5	5.5	10	19	300	350	250	667	20	947	42	12	45.3
180/B5	5.5	10	19	300	350	250	667	20	947	48	14	51.8
200/B5	5.5	10	19	350	400	300	691	22	971	55	16	59.3
225/B5	5.5	10	19	400	450	350	733	24	1013	60	18	64.4
250/B5	5.5	10	19	500	550	450	755	24	1035	65	18	69.4
280/B5	5.5	10	19	500	550	450	755	24	1035	75	20	79.4
315M/B5	6.5	15	24	600	660	550	835	24	1115	80	22	90.4
315N/B5	6.5	15	24	600	660	550	835	24	1115	85	22	90.4
315L/B5	6.5	15	24	600	660	550	835	24	1115	90	22	90.4

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

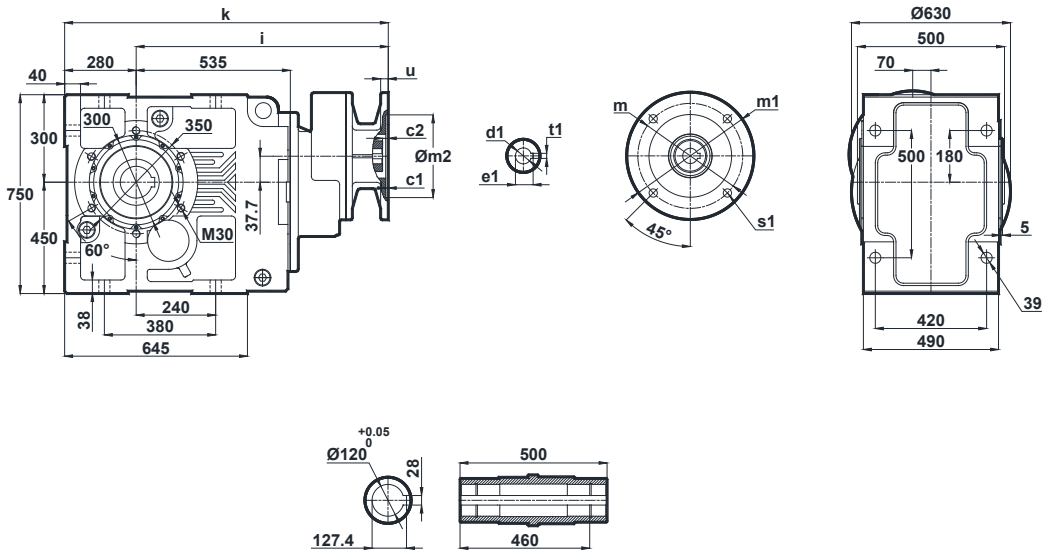
KN973.08



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
160/B5	5.5	10	19	300	350	250	667	20	947	42	12	45.3
180/B5	5.5	10	19	300	350	250	667	20	947	48	14	51.8
200/B5	5.5	10	19	350	400	300	691	22	971	55	16	59.3
225/B5	5.5	10	19	400	450	350	733	24	1013	60	18	64.4
250/B5	5.5	10	19	500	550	450	755	24	1035	65	18	69.4
280/B5	5.5	10	19	500	550	450	755	24	1035	75	20	79.4
315M/B5	6.5	15	24	600	660	550	835	24	1115	80	22	90.4
315N/B5	6.5	15	24	600	660	550	835	24	1115	85	22	90.4
315L/B5	6.5	15	24	600	660	550	835	24	1115	90	22	90.4

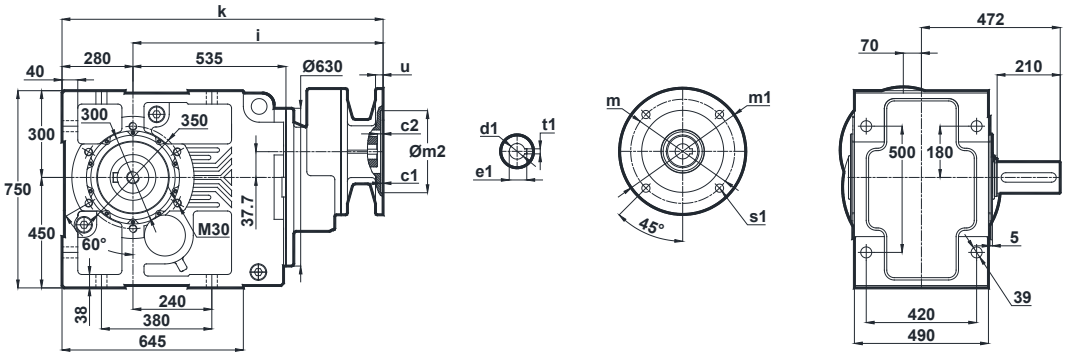
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

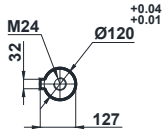
KN974.00



	c1	c2	s1	m	m1	m2(H7)	i	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
112/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	770.5	15	1050.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	845.5	20	1125.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	845.5	20	1125.5	48	14	51.8

KN974.01

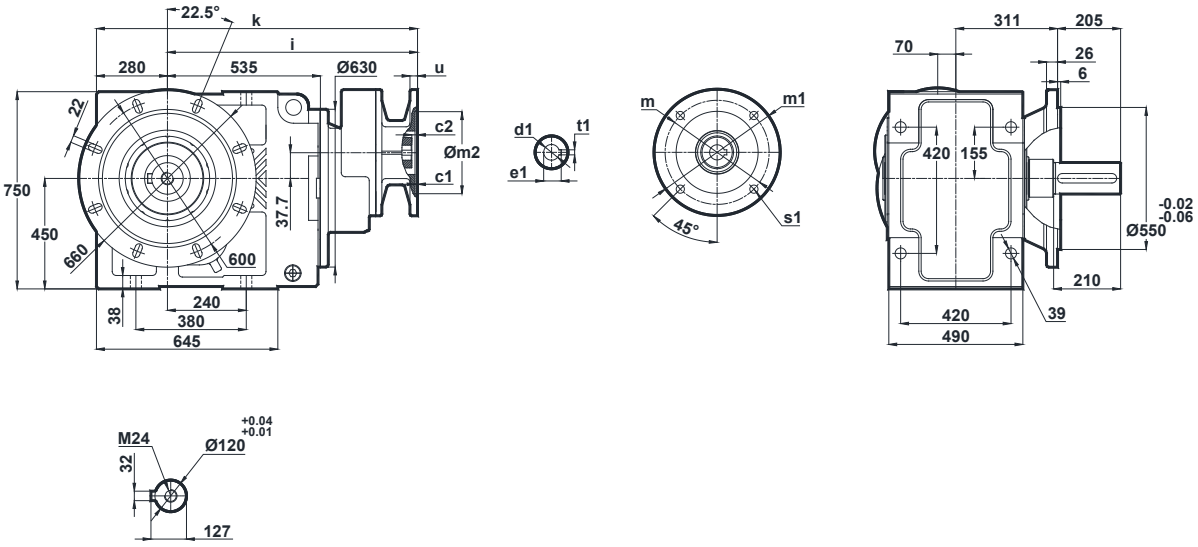




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
112/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	770.5	15	1050.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	845.5	20	1125.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	845.5	20	1125.5	48	14	51.8

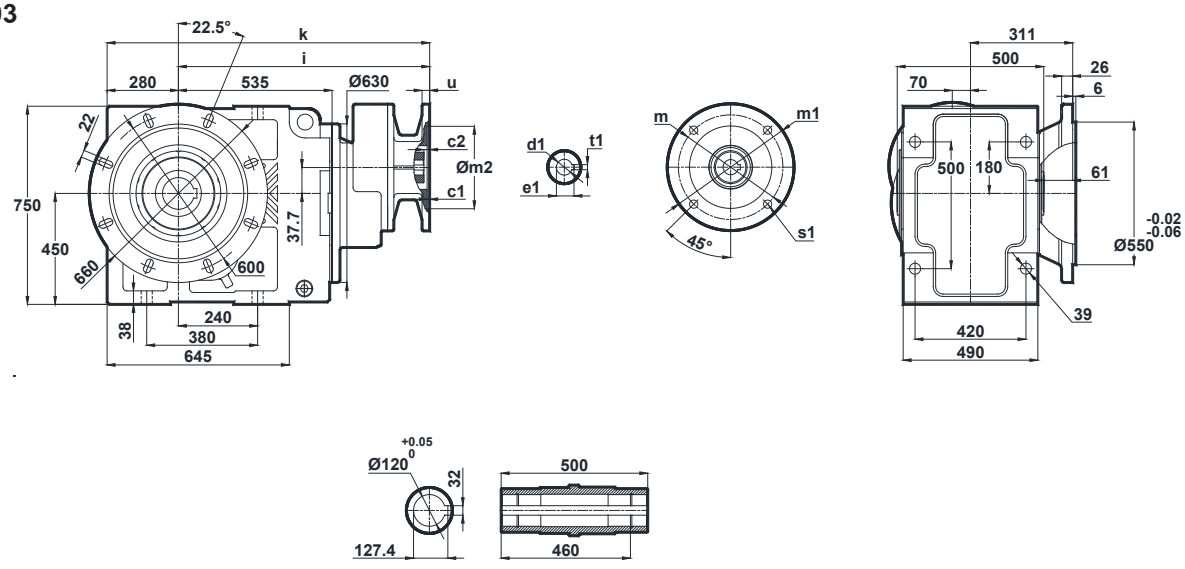
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN974.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
112/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	770.5	15	1050.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	845.5	20	1125.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	845.5	20	1125.5	48	14	51.8

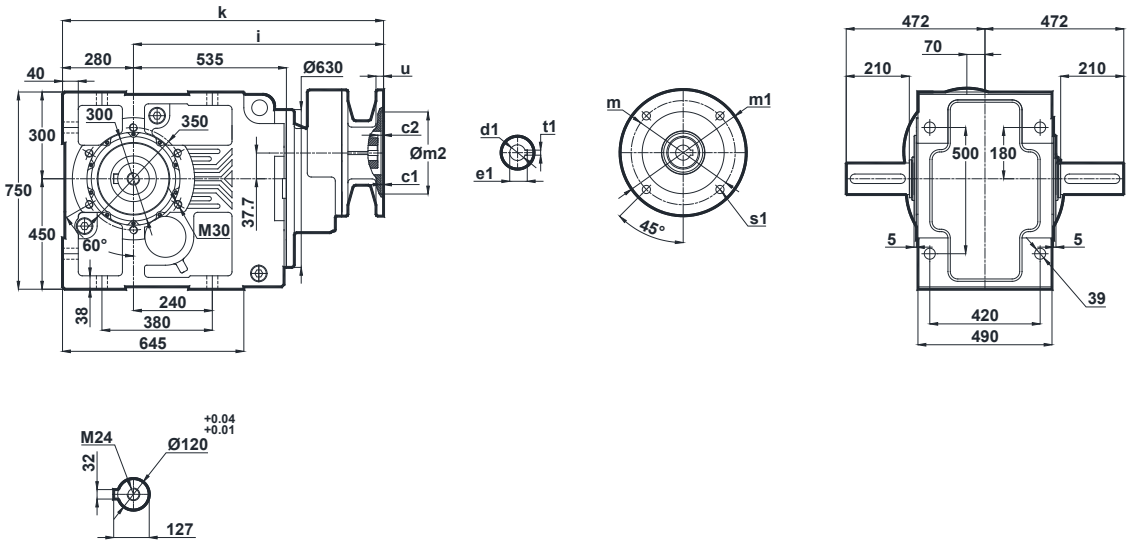
KN974.03



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
112/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	770.5	15	1050.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	845.5	20	1125.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	845.5	20	1125.5	48	14	51.8

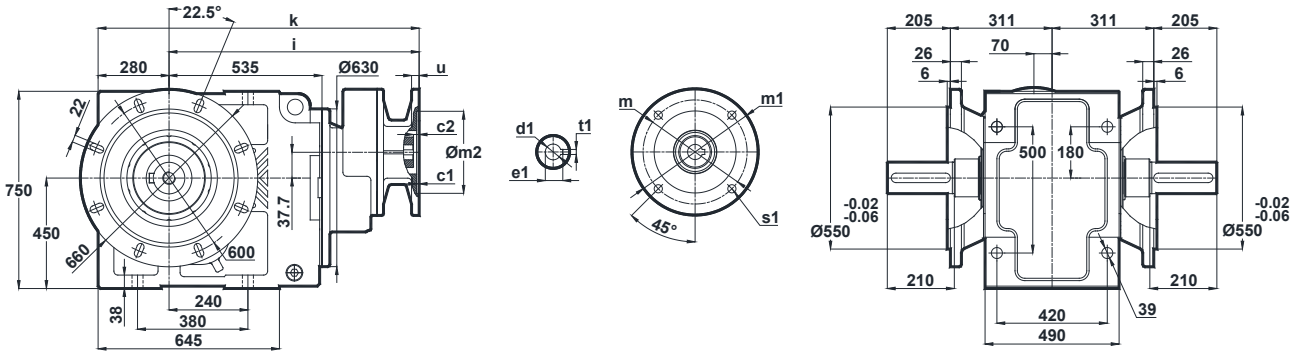
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

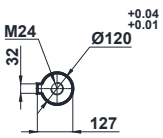
KN974.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
112/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	770.5	15	1050.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	845.5	20	1125.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	845.5	20	1125.5	48	14	51.8

KN974.05

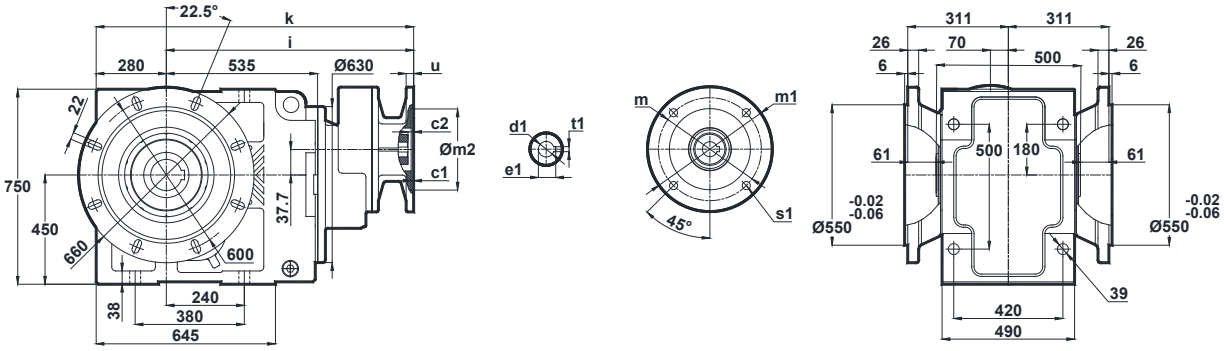


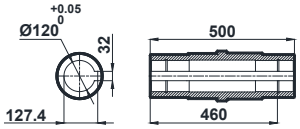


	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
112/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	770.5	15	1050.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	845.5	20	1125.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	845.5	20	1125.5	48	14	51.8

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN974.08

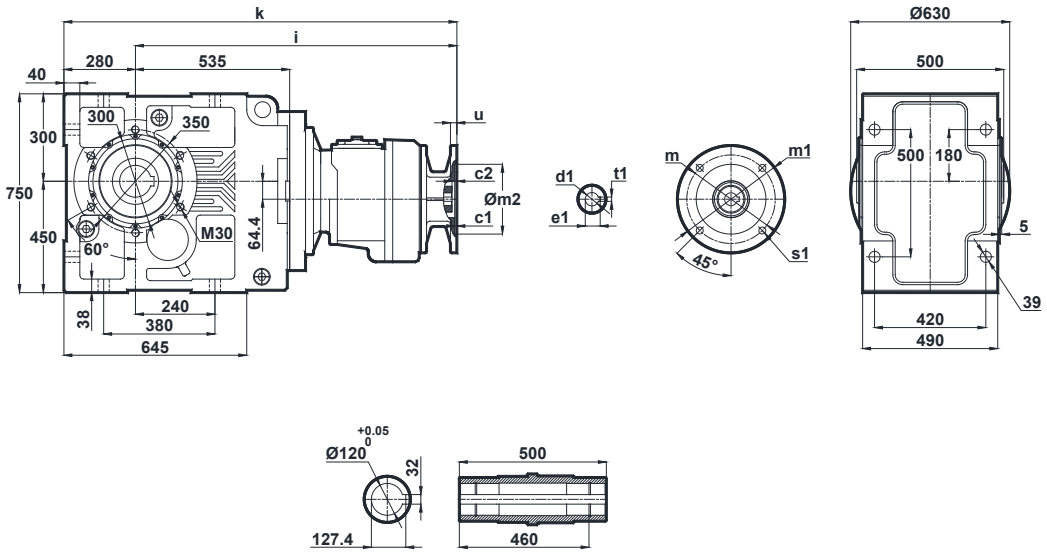




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
112/B5	5	15	15	215	250	180	755.5	15	1035.5	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	770.5	15	1050.5	38	10	41.3
160/B5	5.5	10	19	300	350	250	845.5	20	1125.5	42	12	45.3
180/B5	5.5	10	19	300	350	250	845.5	20	1125.5	48	14	51.8

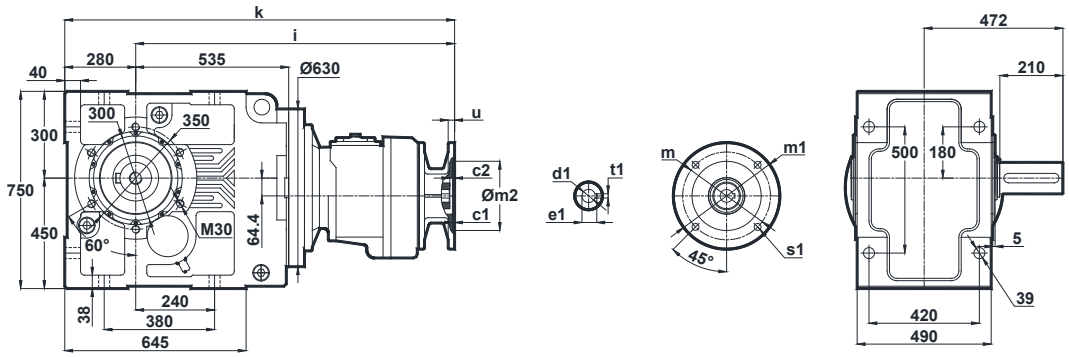
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

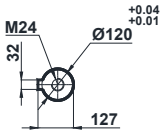
KN975.00
KN976.00



	c1	c2	s1	m	m1	m2(H7)	i	u	k	d1	t1	e1
80/B5 **80/B14**	4	4	12	165	200	130	891.5	12	1171.5	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	891.5	12	1171.5	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	910	15	1190	28	8	31.3
112/B5 **112/B14**	4.5	9	9	215 130	250 160	180 110	910	15	1190	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	928.5	15	1208.5	38	10	41.3

KN975.01
KN976.01

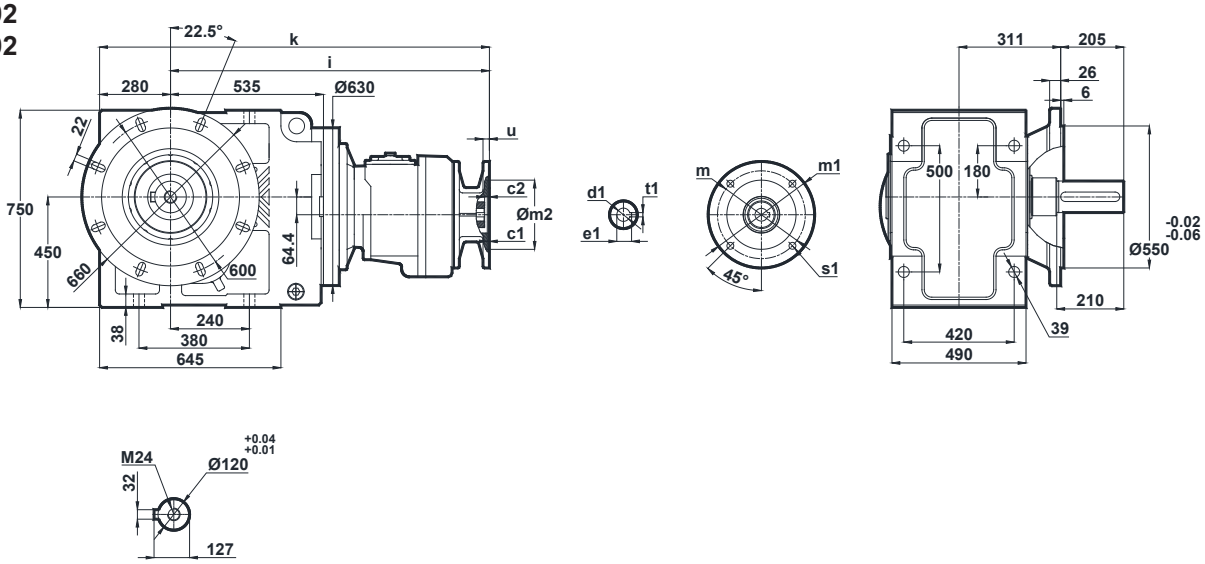




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5 **80/B14**	4	4	12	165	200	130	891.5	12	1171.5	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	891.5	12	1171.5	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	910	15	1190	28	8	31.3
112/B5 **112/B14**	4.5	9	9	215 130	250 160	180 110	910	15	1190	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	928.5	15	1208.5	38	10	41.3

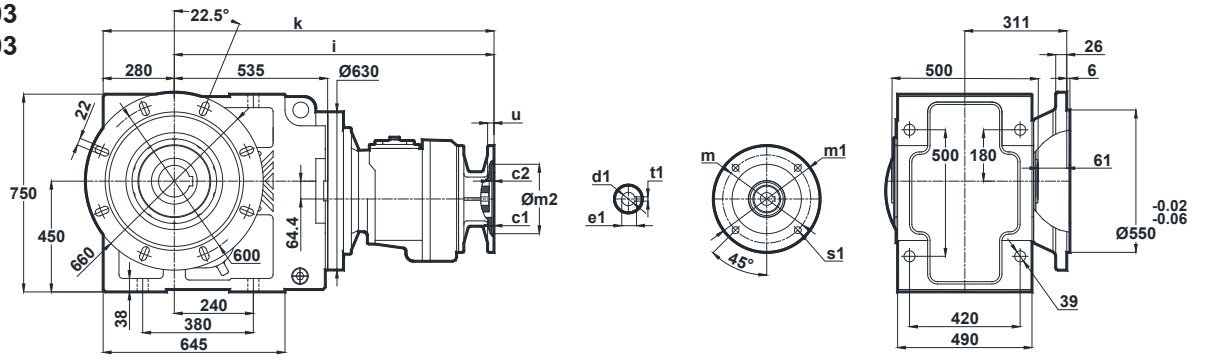
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

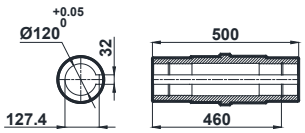
KN975.02
KN976.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5 **80/B14**	4	4	12	165	200	130	891.5	12	1171.5	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	891.5	12	1171.5	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	910	15	1190	28	8	31.3
112/B5 **112/B14**	4.5	9	9	215 130	250 160	180 110	910	15	1190	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	928.5	15	1208.5	38	10	41.3

KN975.03
KN976.03

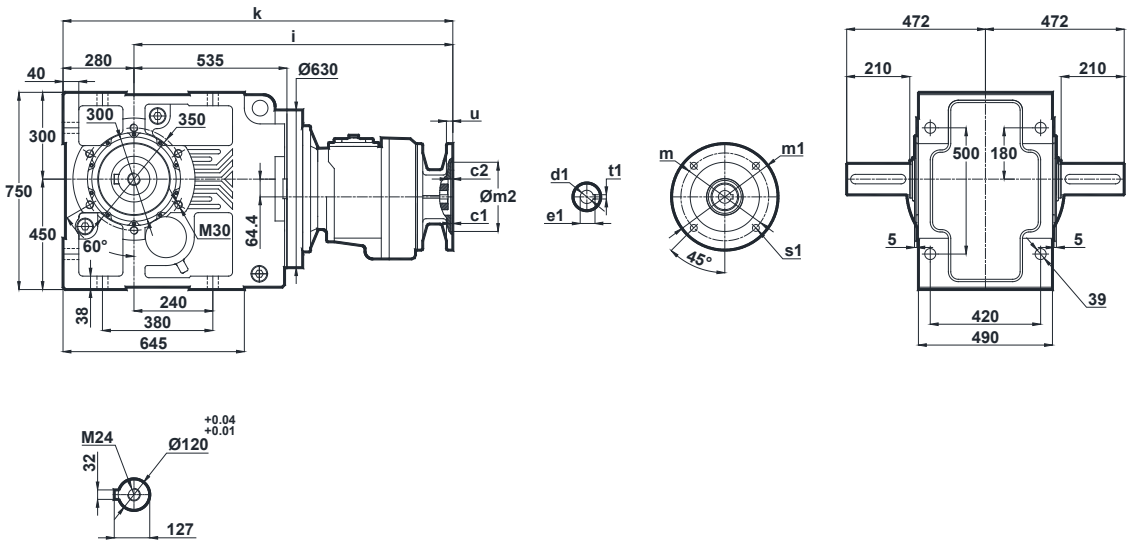




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5 **80/B14**	4	4	12	165	200	130	891.5	12	1171.5	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	891.5	12	1171.5	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	910	15	1190	28	8	31.3
112/B5 **112/B14**	4.5	9	9	215 130	250 160	180 110	910	15	1190	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	928.5	15	1208.5	38	10	41.3

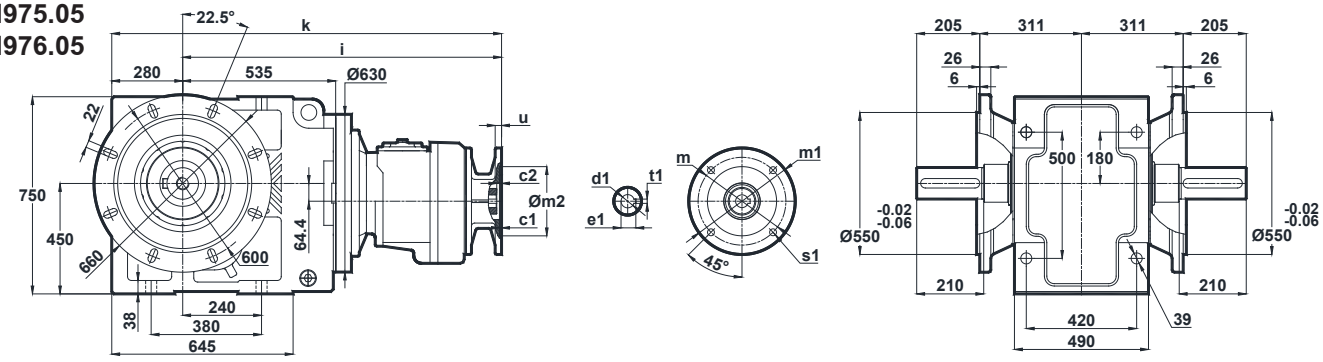
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

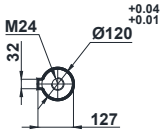
KN975.04
KN976.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5 **80/B14**	4	4	12	165	200	130	891.5	12	1171.5	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	891.5	12	1171.5	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	910	15	1190	28	8	31.3
112/B5 **112/B14**	4.5	9	9	215 130	250 160	180 110	910	15	1190	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	928.5	15	1208.5	38	10	41.3

KN975.05
KN976.05

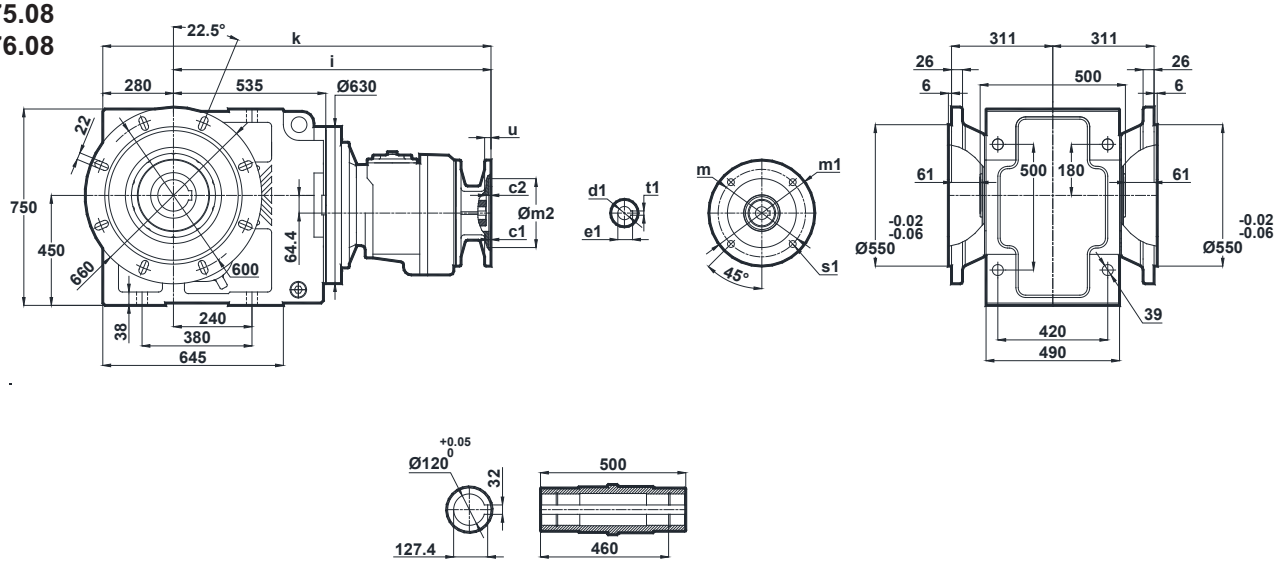




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5 **80/B14**	4	4	12	165	200	130	891.5	12	1171.5	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	891.5	12	1171.5	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	910	15	1190	28	8	31.3
112/B5 **112/B14**	4.5	9	9	215 130	250 160	180 110	910	15	1190	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	928.5	15	1208.5	38	10	41.3

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KN975.08
KN976.08

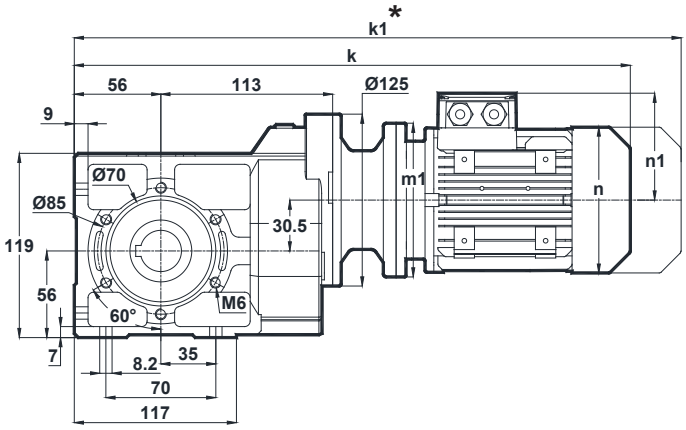


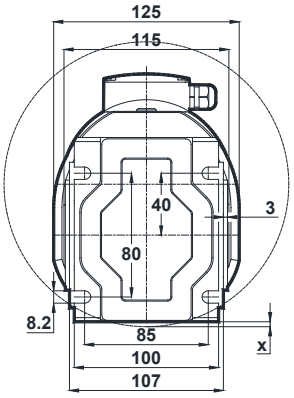
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5 **80/B14**	4	4	12	165	200	130	891.5	12	1171.5	19	6	21.8
90/B5 **90/B14**	4	5	12 9	165 115	200 140	130 95	891.5	12	1171.5	24	8	27.3
100/B5 **100/B14**	5 4	9	15 9	215 130	250 160	180 110	910	15	1190	28	8	31.3
112/B5 **112/B14**	4.5	9	9	215 130	250 160	180 110	910	15	1190	28	8	31.3
132/B5 **132/B14**	4.5	9	15	265 165	300 200	230 130	928.5	15	1208.5	38	10	41.3

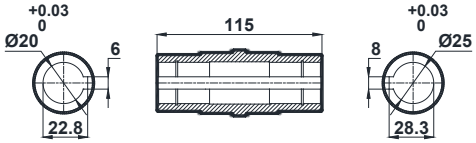
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV002.00
KV003.00



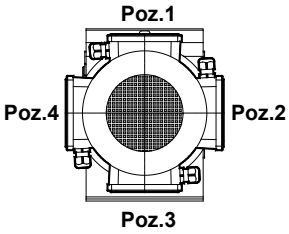




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

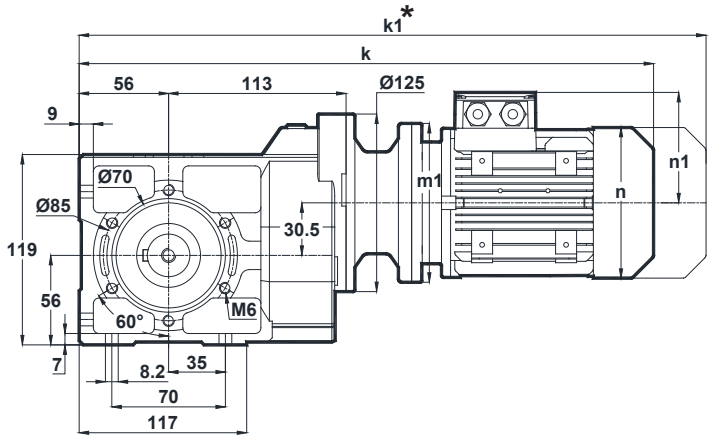
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	405	424.5	462.5	503.5	503.5
k1	466	515.5	555.5	607	607
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	13,5	13,5	13,5

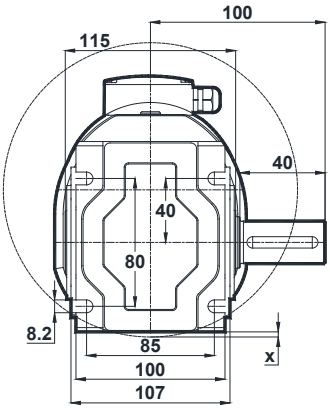
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

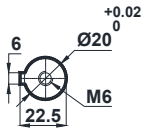


63-71-80-90
Tip / *Type* / Typ

KV002.01
KV003.01



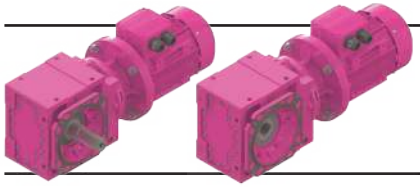




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	405	424.5	462.5	503.5	503.5
k1	466	515.5	555.5	607	607
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	13,5	13,5	13,5

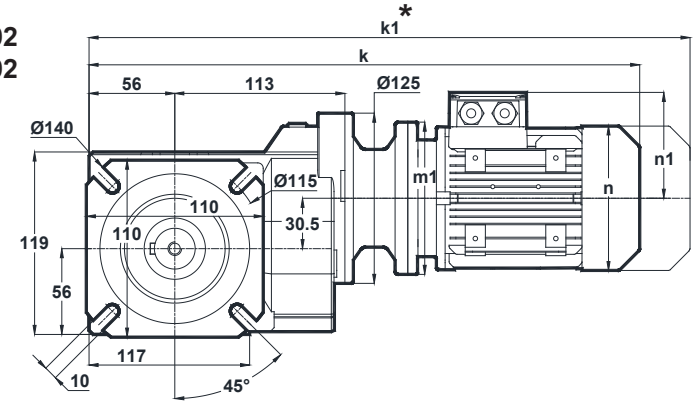
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

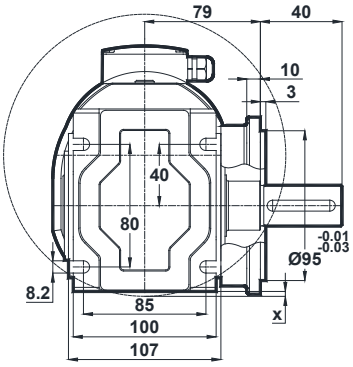


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

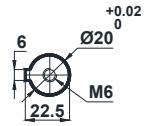
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV002.02
KV003.02

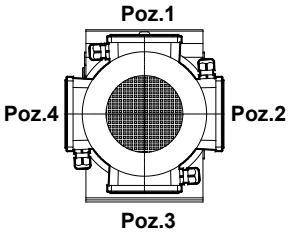




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

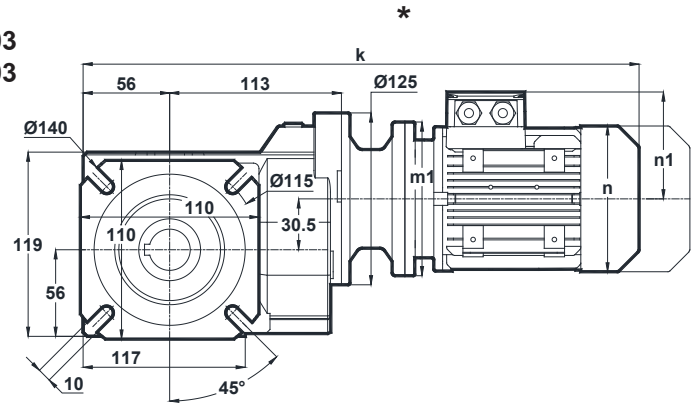


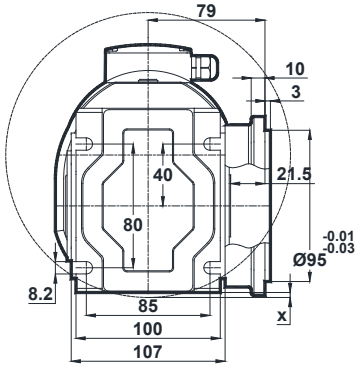
63-71-80-90
Tip / *Type* **/** Typ

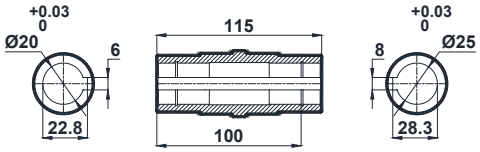
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	405	424.5	462.5	503.5	503.5
k1	466	515.5	555.5	607	607
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	13,5	13,5	13,5

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV002.03
KV003.03





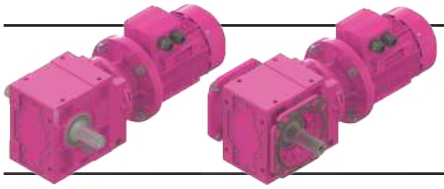


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	405	424.5	462.5	503.5	503.5
k1	466	515.5	555.5	607	607
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	13,5	13,5	13,5

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

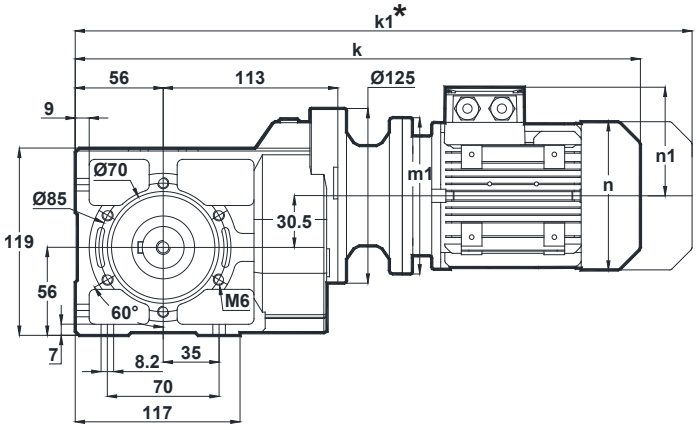
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

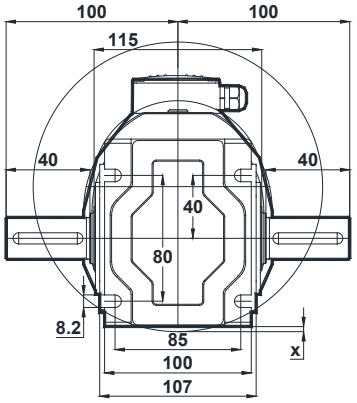


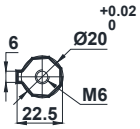
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV002.04
KV003.04



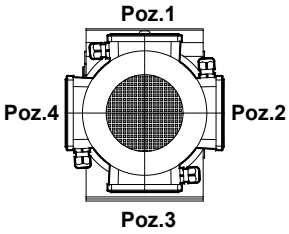




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

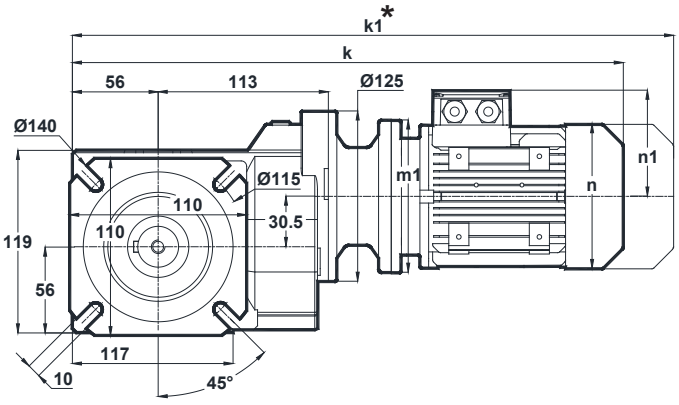
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	405	424.5	462.5	503.5	503.5
k1	466	515.5	555.5	607	607
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	13,5	13,5	13,5

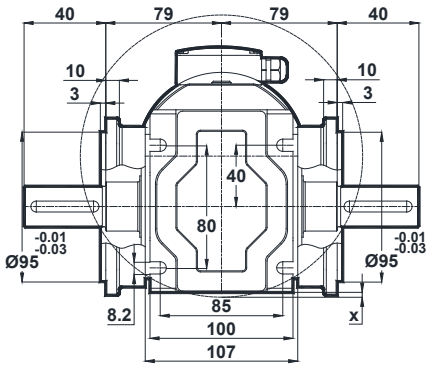
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

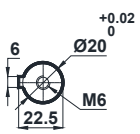


63-71-80-90
Tip / *Type* / Typ

KV002.05
KV003.05







x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	405	424.5	462.5	503.5	503.5
k1	466	515.5	555.5	607	607
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	13,5	13,5	13,5

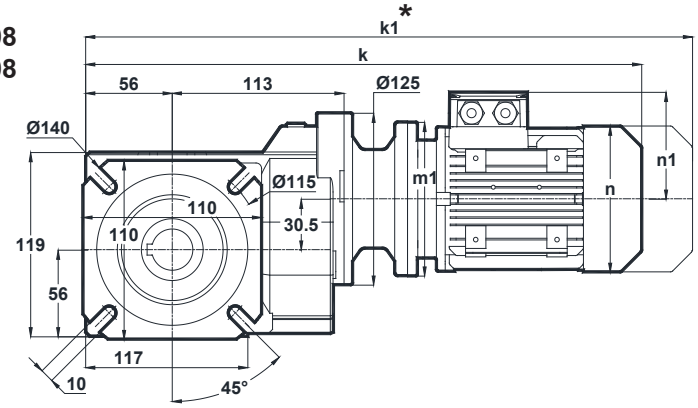
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

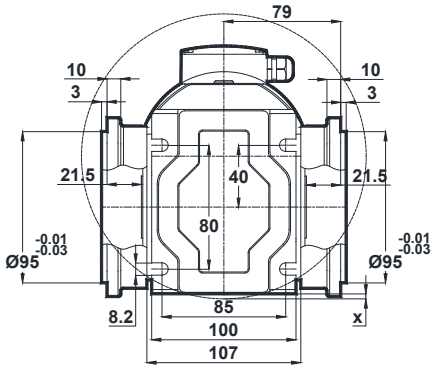
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

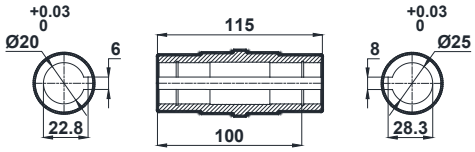
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV002.08
KV003.08



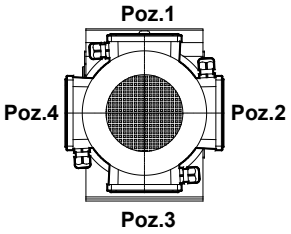




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	405	424.5	462.5	503.5	503.5
k1	466	515.5	555.5	607	607
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	13,5	13,5	13,5

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80-90
Tip / *Type /* Typ

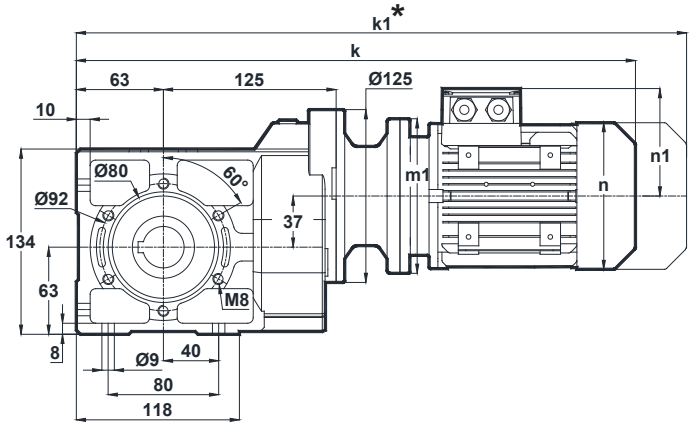
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

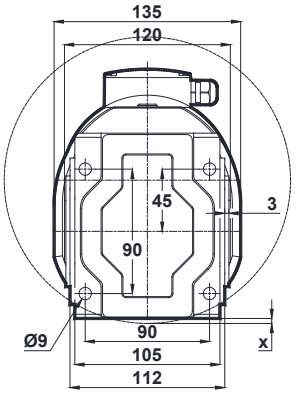
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

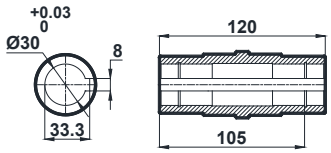
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV102.00
KV103.00



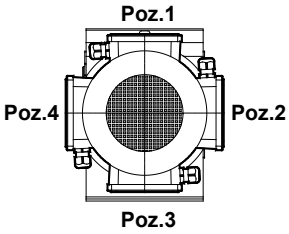




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

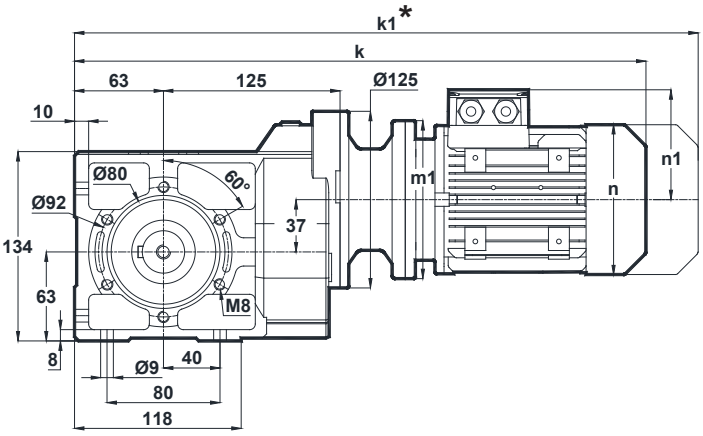
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	424	443.5	481.5	522.5	522.5
k1	485	534.5	574.5	626	626
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	-	-	-

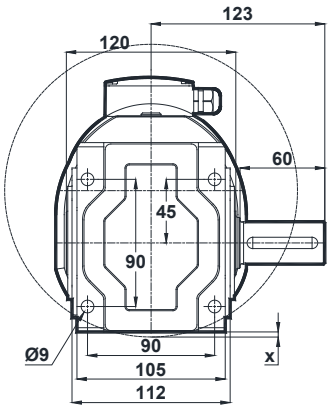
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

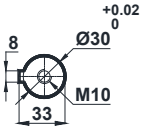


63-71-80-90
Tip / *Type* / Typ

KV102.01
KV103.01



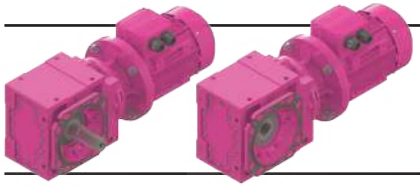




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	424	443.5	481.5	522.5	522.5
k1	485	534.5	574.5	626	626
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	-	-	-

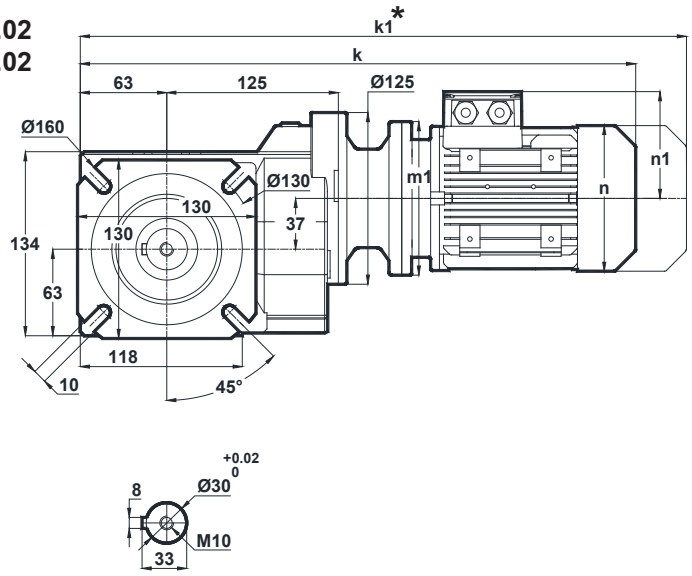
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

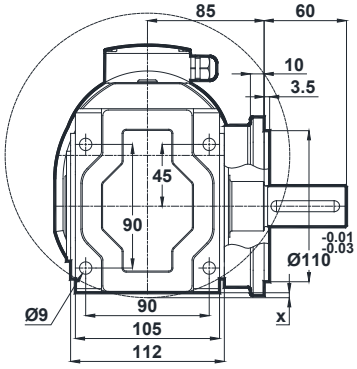


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

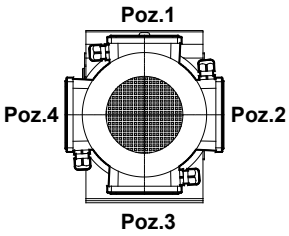
KV102.02
KV103.02





x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

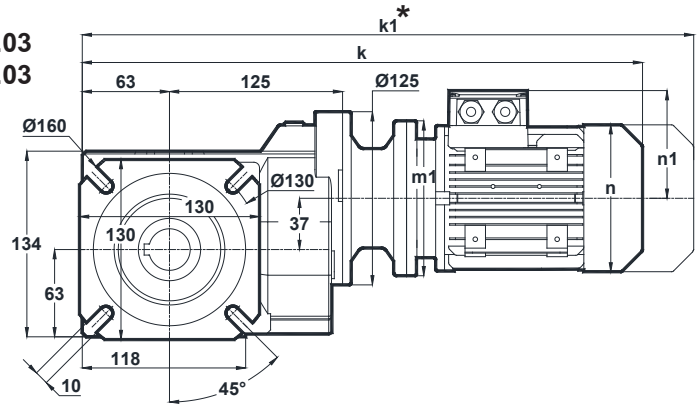


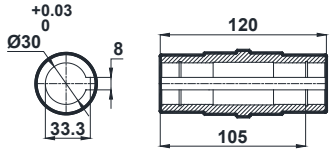
63-71-80-90
Tip / *Type* **/** Typ

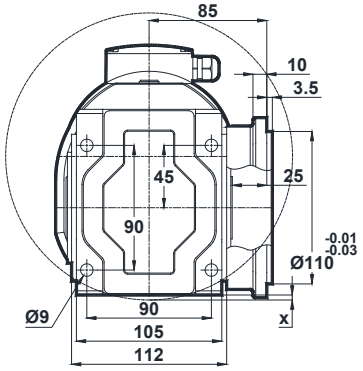
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	424	443.5	481.5	522.5	522.5
k1	485	534.5	574.5	626	626
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	-	-	-

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV102.03
KV103.03





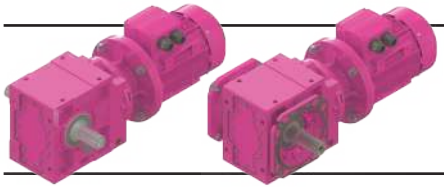


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	424	443.5	481.5	522.5	522.5
k1	485	534.5	574.5	626	626
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	-	-	-

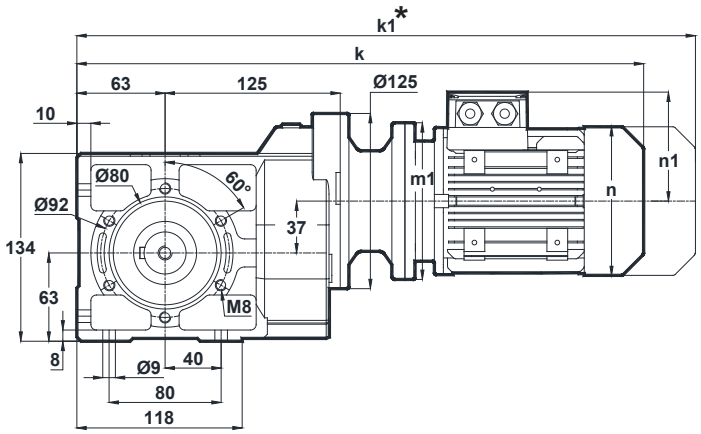
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

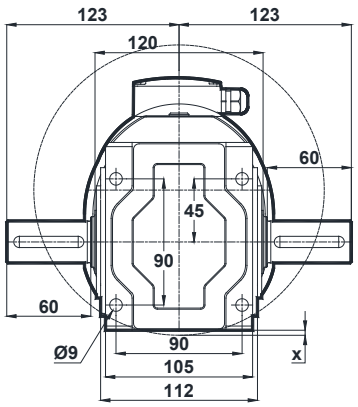
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

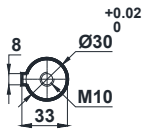


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV102.04
KV103.04



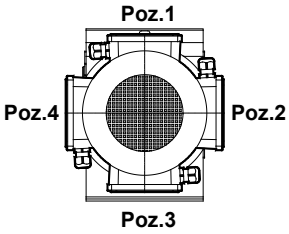




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

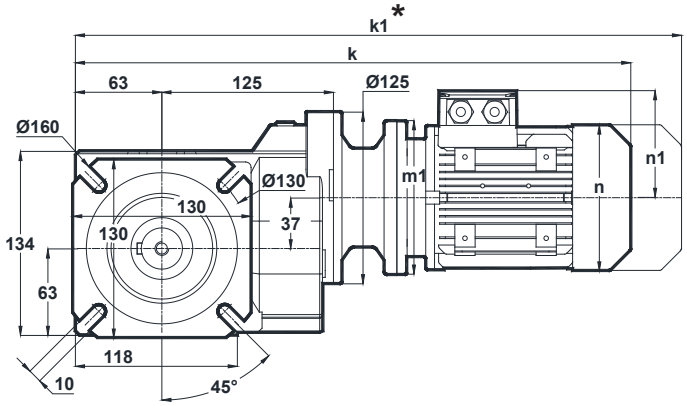
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	424	443.5	481.5	522.5	522.5
k1	485	534.5	574.5	626	626
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	-	-	-

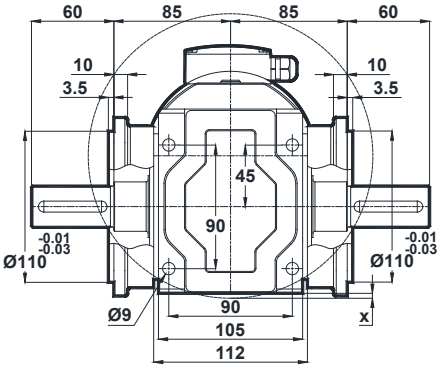
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

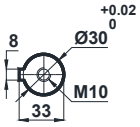


63-71-80-90
Tip / *Type* / Typ

KV102.05
KV103.05







x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	424	443.5	481.5	522.5	522.5
k1	485	534.5	574.5	626	626
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	-	-	-

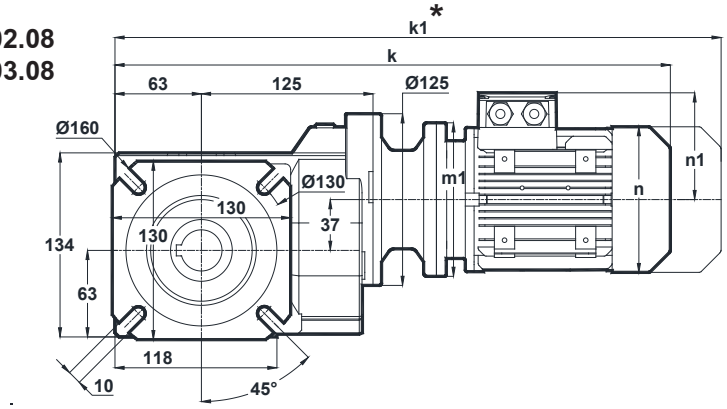
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

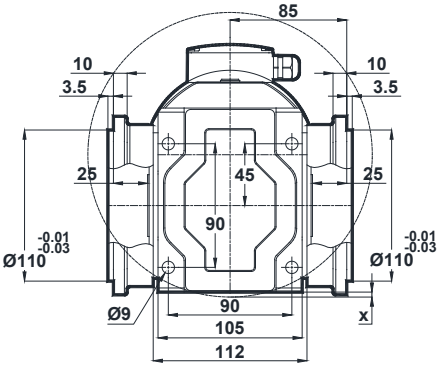
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

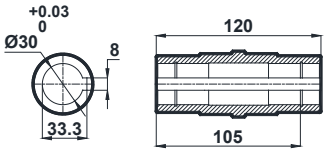
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV102.08
KV103.08



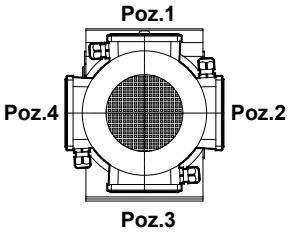




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	424	443.5	481.5	522.5	522.5
k1	485	534.5	574.5	626	626
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	140	160	200	200	200
m1 (B14)	90	105	120	140	140
x	-	-	-	-	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80-90
Tip / *Type /* Typ

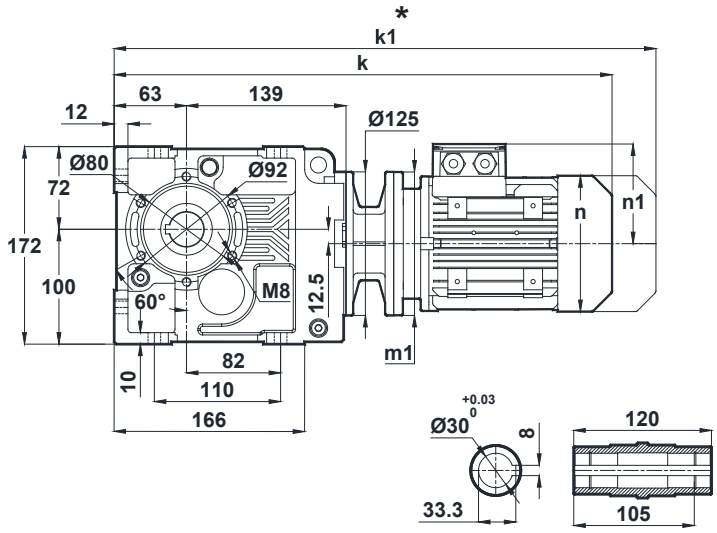
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

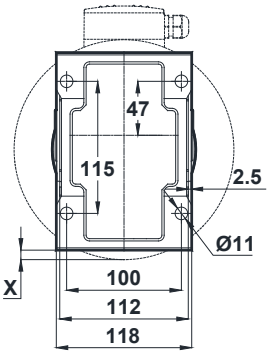
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV172.00
KV173.00

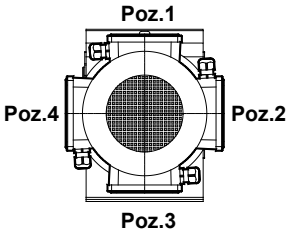




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

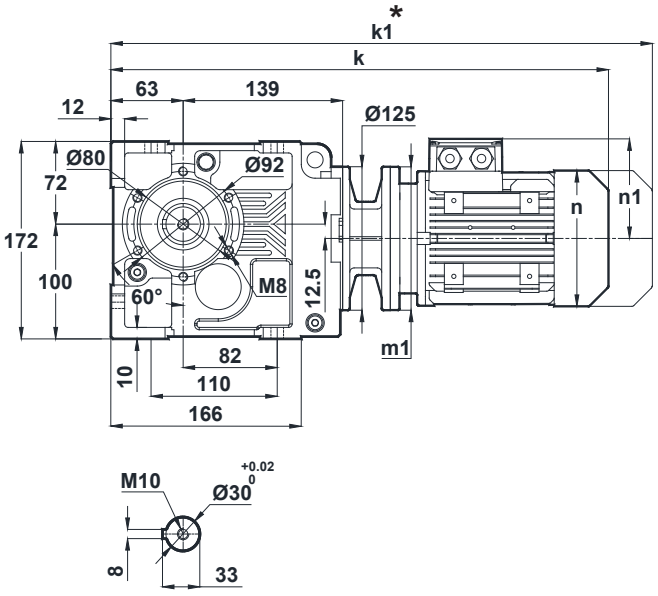
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	398	416	439	477	477	512.5	532
k1	459	507	529	580.5	580.5	621	636.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	12.5	12.5	12.5	37.5	37.5

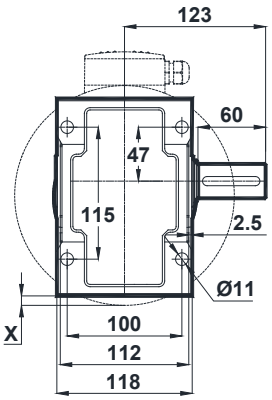
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80-90-100-112
Tip / *Type* / Typ

KV172.01
KV173.01

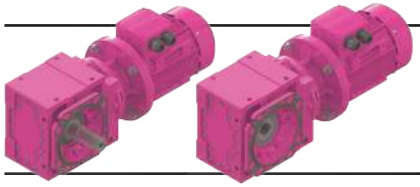




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	398	416	439	477	477	512.5	532
k1	459	507	529	580.5	580.5	621	636.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	12.5	12.5	12.5	37.5	37.5

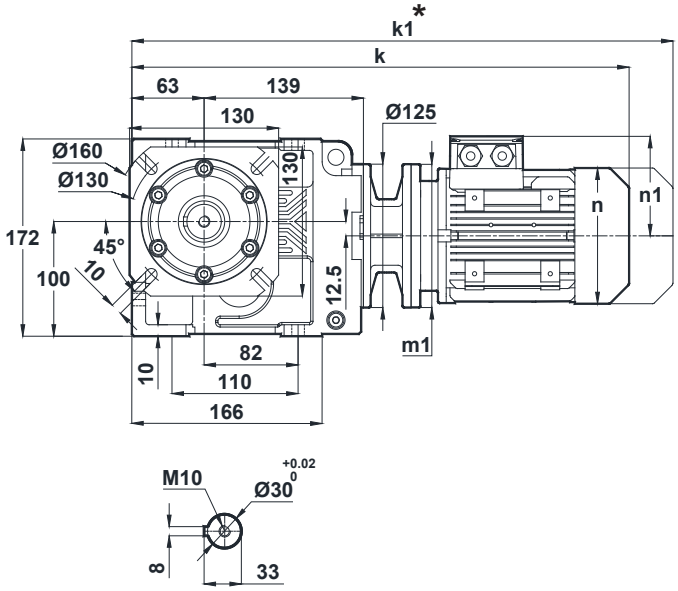
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

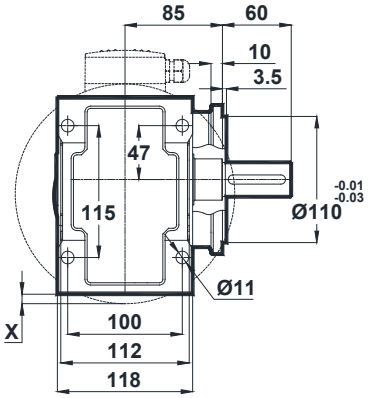


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV172.02
KV173.02

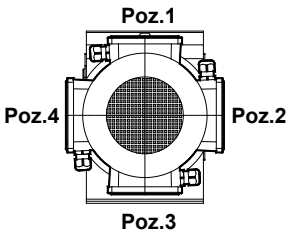




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	398	416	439	477	477	512.5	532
k1	459	507	529	580.5	580.5	621	636.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	12.5	12.5	12.5	37.5	37.5

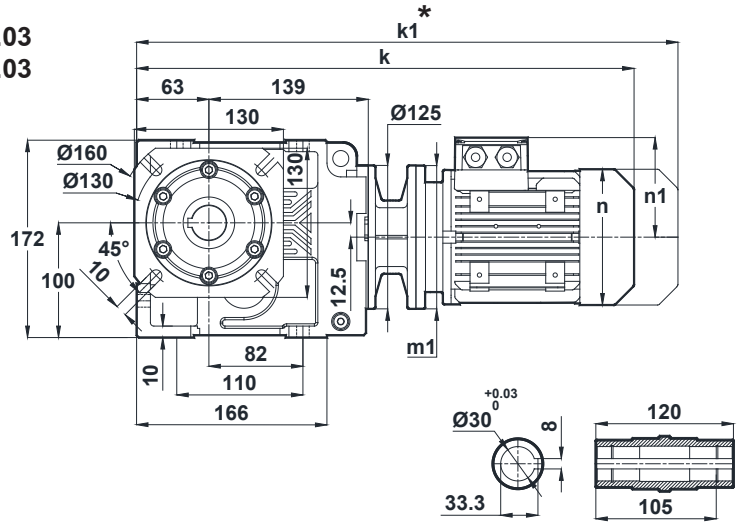
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

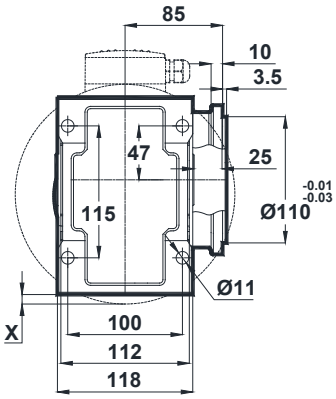


63-71-80-90-100-112
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV172.03
KV173.03



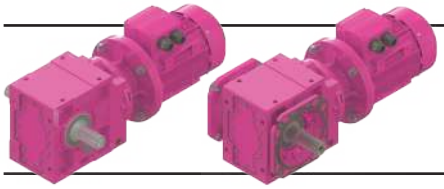


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	398	416	439	477	477	512.5	532
k1	459	507	529	580.5	580.5	621	636.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	12.5	12.5	12.5	37.5	37.5

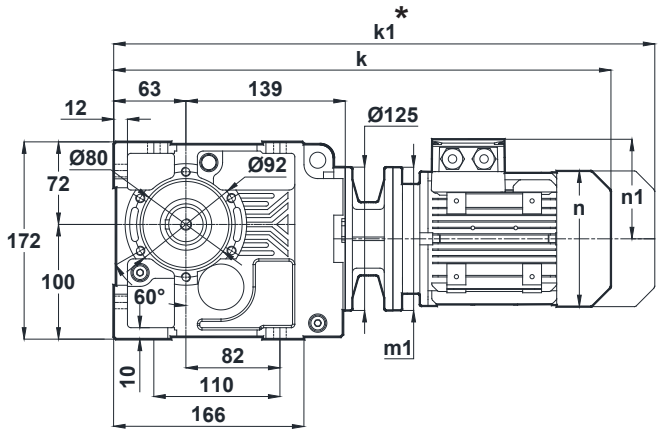
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

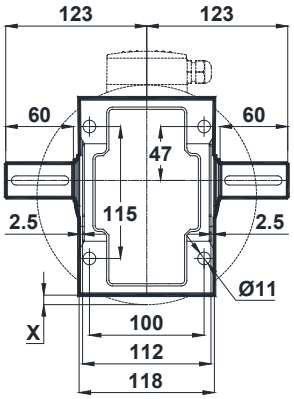
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

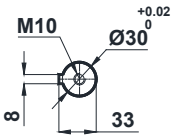


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV172.04
KV173.04



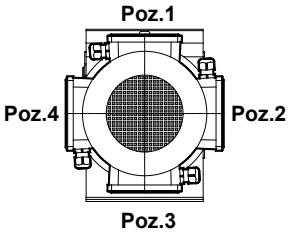




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

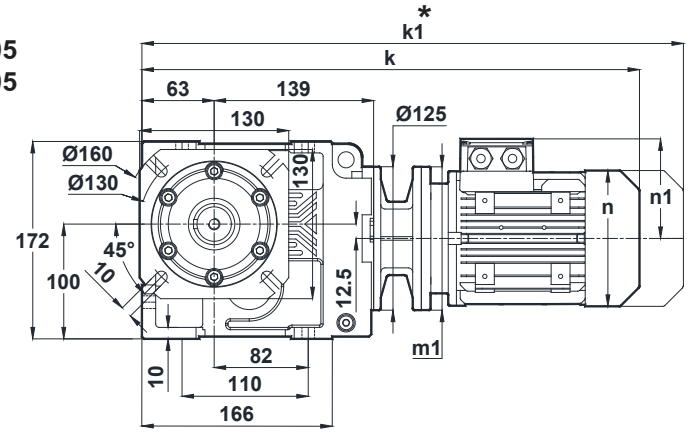
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	398	416	439	477	477	512.5	532
k1	459	507	529	580.5	580.5	621	636.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	12.5	12.5	12.5	37.5	37.5

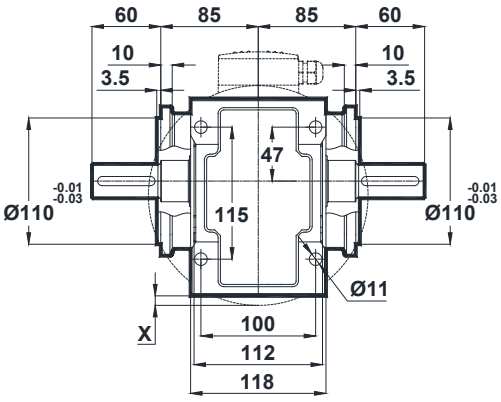
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

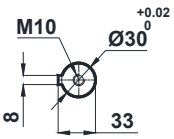


63-71-80-90-100-112
Tip / *Type* / Typ

KV172.05
KV173.05







x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	398	416	439	477	477	512.5	532
k1	459	507	529	580.5	580.5	621	636.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	12.5	12.5	12.5	37.5	37.5

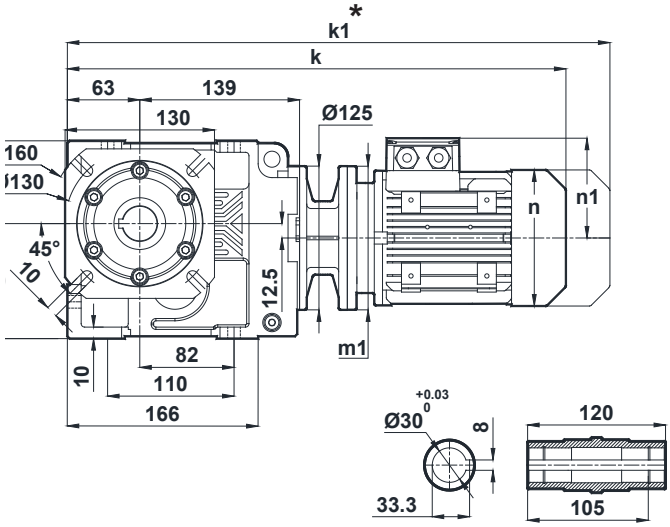
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

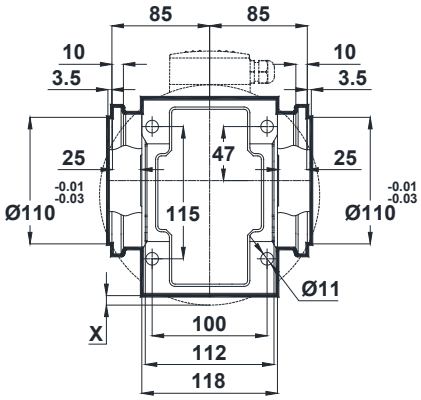
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV172.08
KV173.08

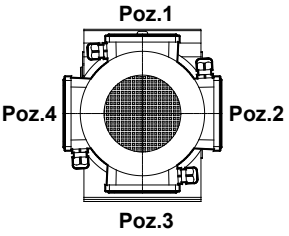




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	398	416	439	477	477	512.5	532
k1	459	507	529	580.5	580.5	621	636.5
n / n1	121 / 97	137 / 112	155 / 121	176 / 132	176 / 132	193 / 147	215 / 158
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	12.5	12.5	12.5	37.5	37.5

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80-90-100-112
Tip / *Type* / Typ

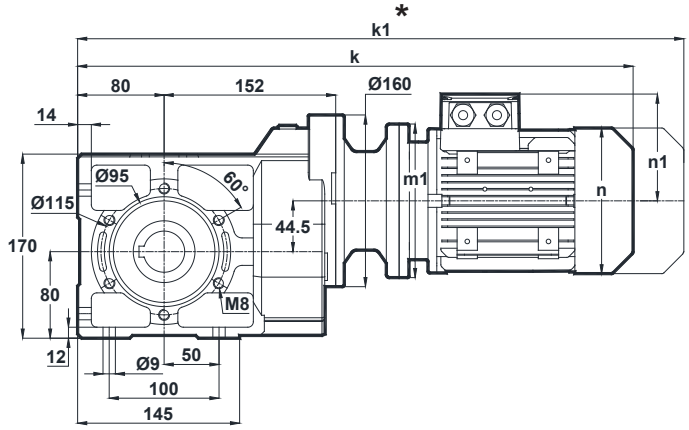
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

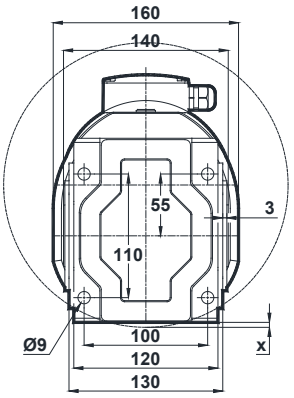
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

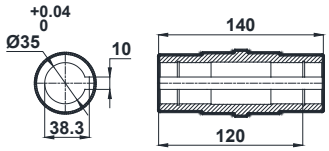
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV202.00
KV203.00



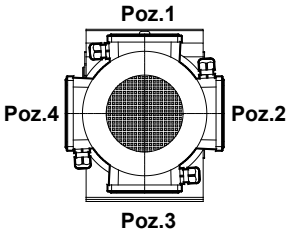




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

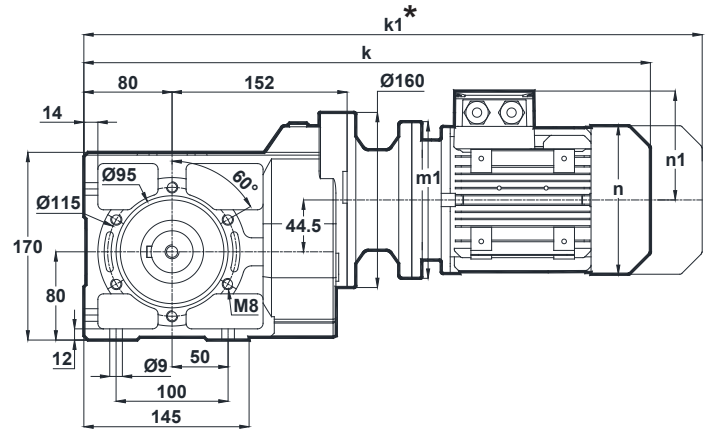
	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	498.5	487.5	539.5	580.5	580.5	609	629.5
k1	559.5	578.5	632.5	684	684	717.5	734
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	-	-	-	0,5	0,5

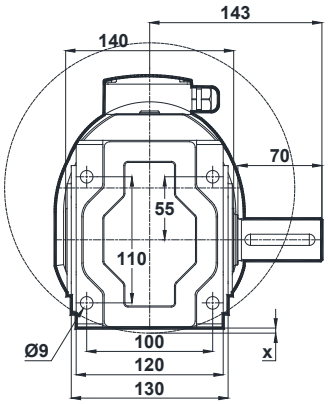
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

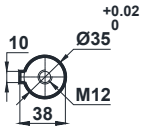


63-71-80-90-100-112
Tip / *Type* / Typ

KV202.01
KV203.01



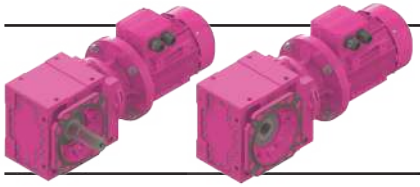




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	498.5	487.5	539.5	580.5	580.5	609	629.5
k1	559.5	578.5	632.5	684	684	717.5	734
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	-	-	-	0,5	0,5

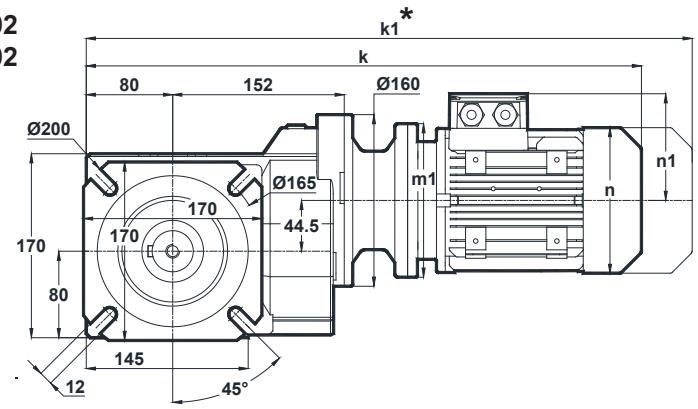
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

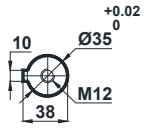


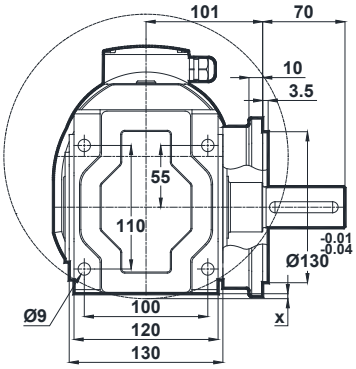
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV202.02
KV203.02



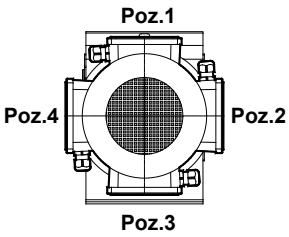




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	498.5	487.5	539.5	580.5	580.5	609	629.5
k1	559.5	578.5	632.5	684	684	717.5	734
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	-	-	-	0,5	0,5

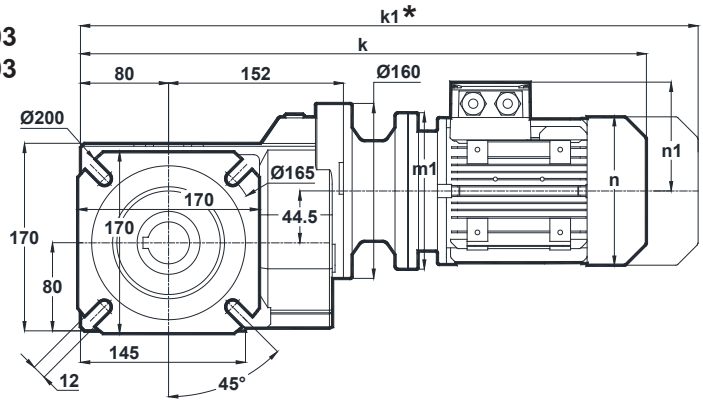
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

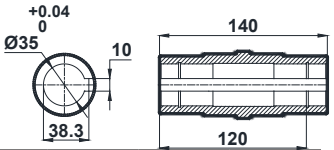


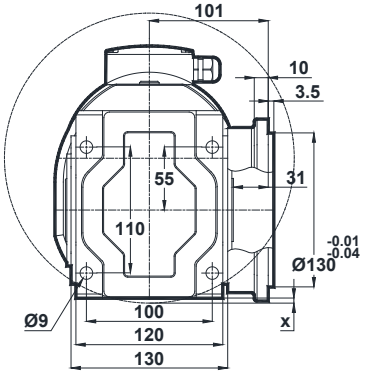
63-71-80-90-100-112
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV202.03
KV203.03





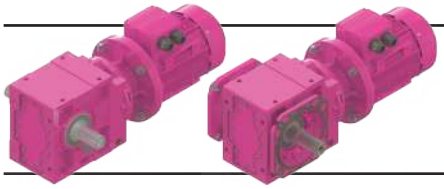


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	498.5	487.5	539.5	580.5	580.5	609	629.5
k1	559.5	578.5	632.5	684	684	717.5	734
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	-	-	-	0,5	0,5

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

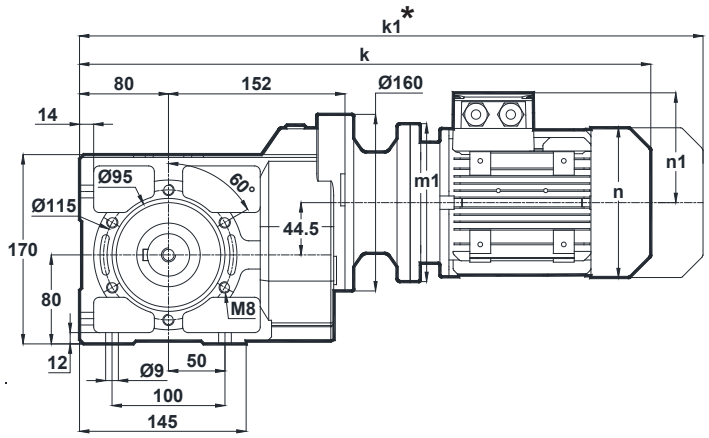
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

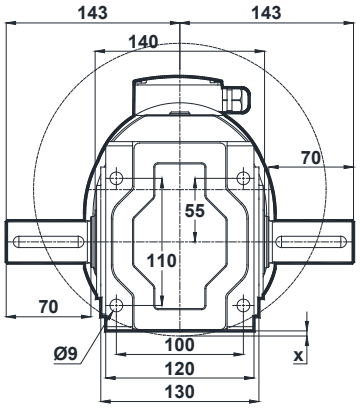


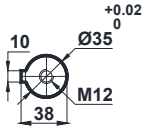
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV202.04
KV203.04



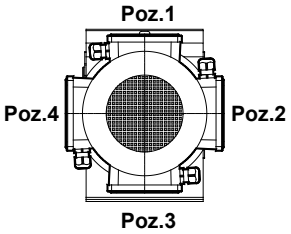




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

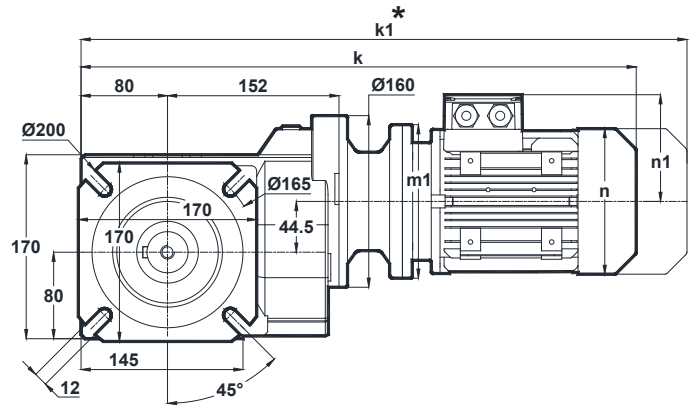
	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	498.5	487.5	539.5	580.5	580.5	609	629.5
k1	559.5	578.5	632.5	684	684	717.5	734
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	-	-	-	0,5	0,5

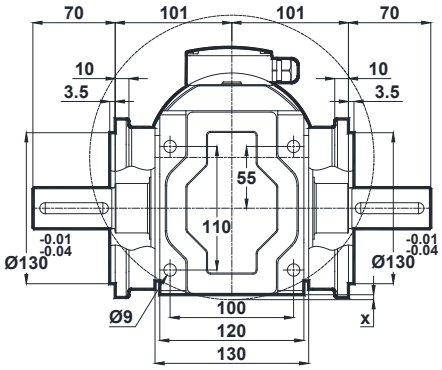
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

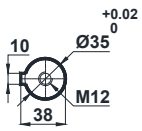


63-71-80-90-100-112
Tip / *Type* / Typ

KV202.05
KV203.05







x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	498.5	487.5	539.5	580.5	580.5	609	629.5
k1	559.5	578.5	632.5	684	684	717.5	734
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	-	-	-	0,5	0,5

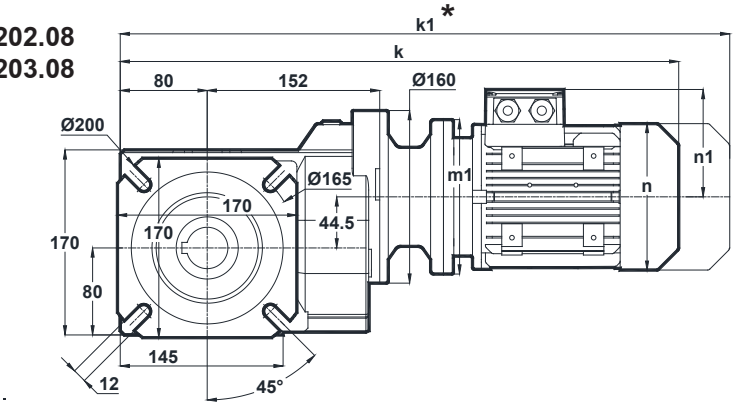
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

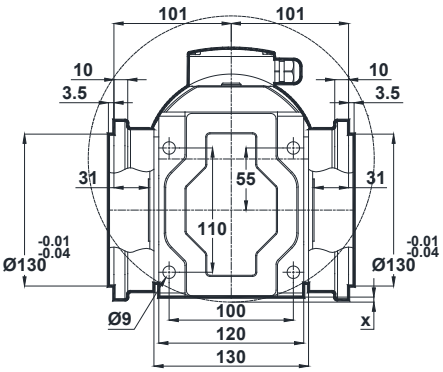
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

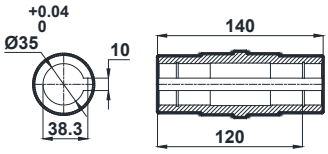
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV202.08
KV203.08



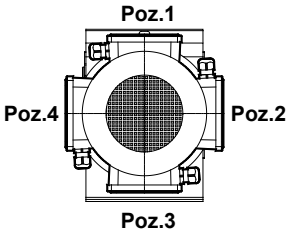




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14
k	498.5	487.5	539.5	580.5	580.5	609	629.5
k1	559.5	578.5	632.5	684	684	717.5	734
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161
m1 (B5)	140	160	200	200	200	250	250
m1 (B14)	-	105	120	140	140	160	160
x	-	-	-	-	-	0,5	0,5

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



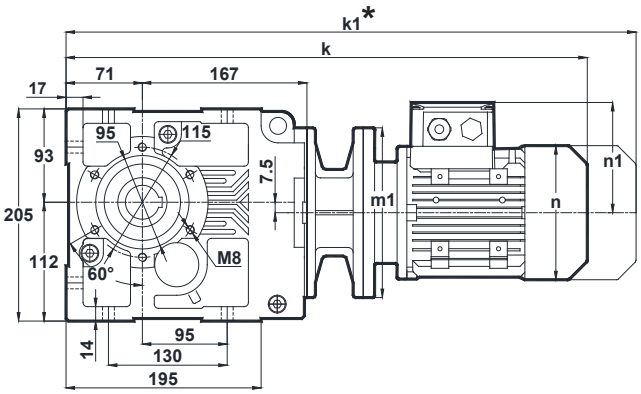
63-71-80-90-100-112
Tip / *Type* / Typ

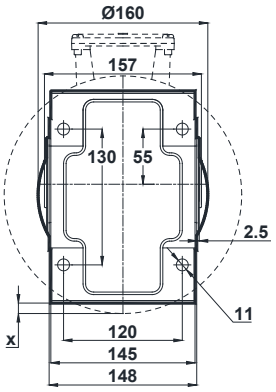
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

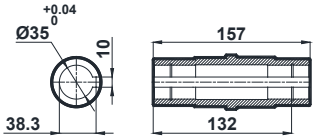
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV273.00

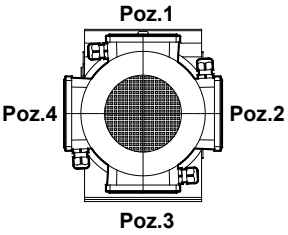






x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

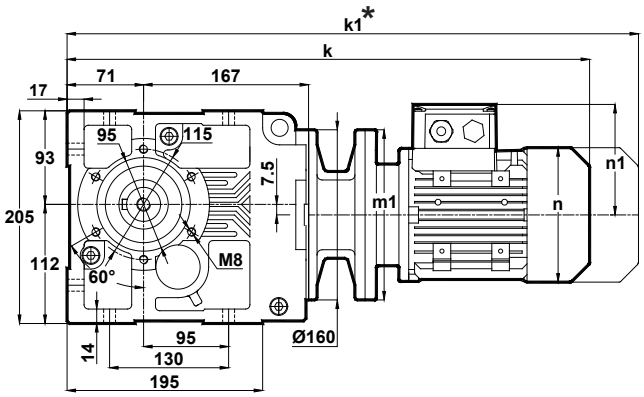
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

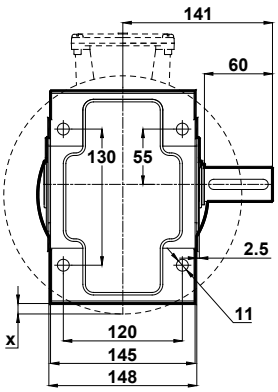


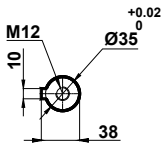
	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	504.5	493.5	545.5	586.5	586.5	615	635.5	762	762
k1	565.5	584.5	638.5	690	690	723.5	740	884	884
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	140	160	200	200	200	250	250	300	300
m1 (B14)	-	105	120	140	140	160	160	200	200
x	-	-	-	-	-	20,5	20,5	45,5	45,5

63-71-80-90-100-112
Tip / *Type* / Typ

KV273.01



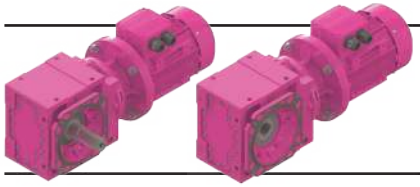




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	504.5	493.5	545.5	586.5	586.5	615	635.5	762	762
k1	565.5	584.5	638.5	690	690	723.5	740	884	884
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	140	160	200	200	200	250	250	300	300
m1 (B14)	-	105	120	140	140	160	160	200	200
x	-	-	-	-	-	20,5	20,5	45,5	45,5

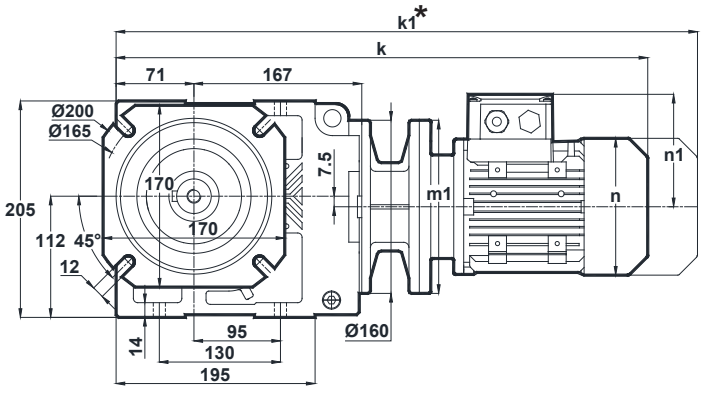
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

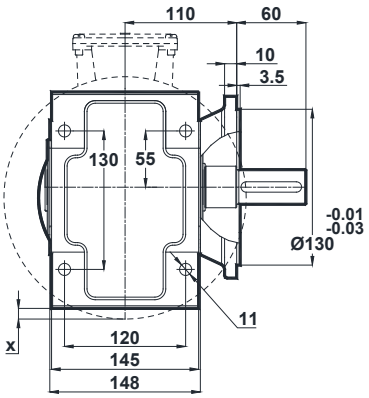


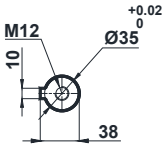
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV273.02

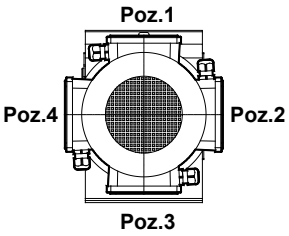






x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

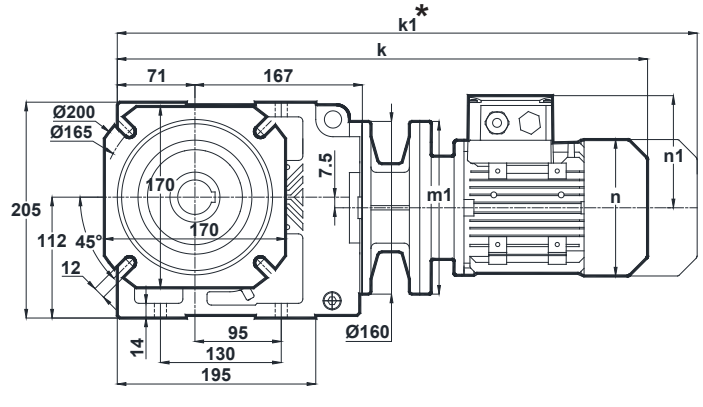


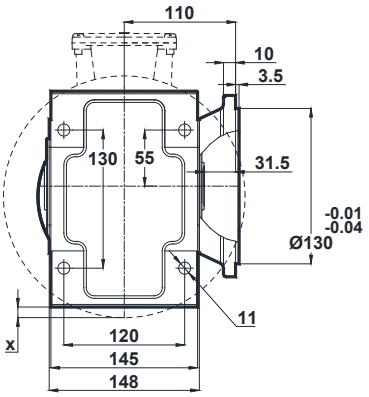
	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	504.5	493.5	545.5	586.5	586.5	615	635.5	762	762
k1	565.5	584.5	638.5	690	690	723.5	740	884	884
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	140	160	200	200	200	250	250	300	300
m1 (B14)	-	105	120	140	140	160	160	200	200
x	-	-	-	-	-	20,5	20,5	45,5	45,5

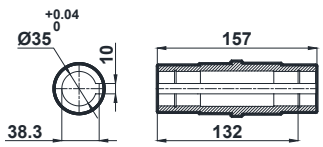
63-71-80-90-100-112
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV273.03





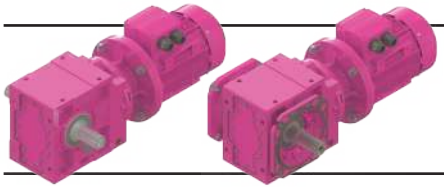


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	504.5	493.5	545.5	586.5	586.5	615	635.5	762	762
k1	565.5	584.5	638.5	690	690	723.5	740	884	884
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	140	160	200	200	200	250	250	300	300
m1 (B14)	-	105	120	140	140	160	160	200	200
x	-	-	-	-	-	20,5	20,5	45,5	45,5

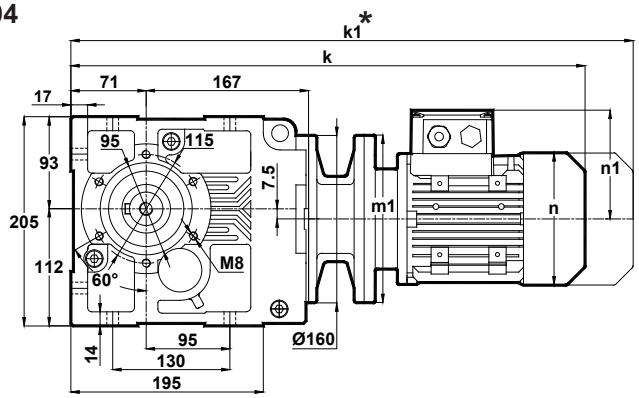
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

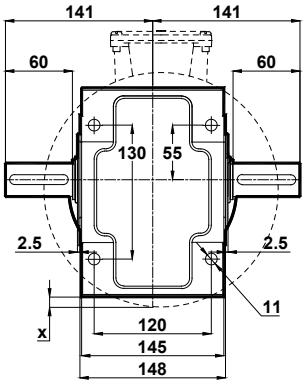
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

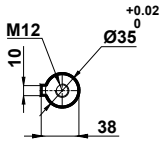


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV273.04

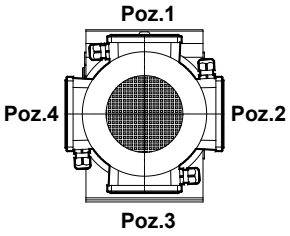






x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

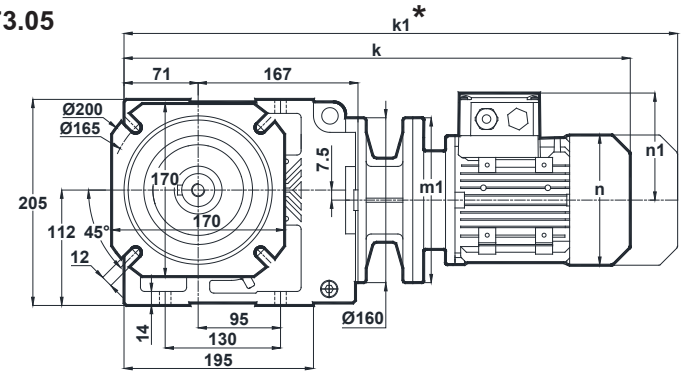
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

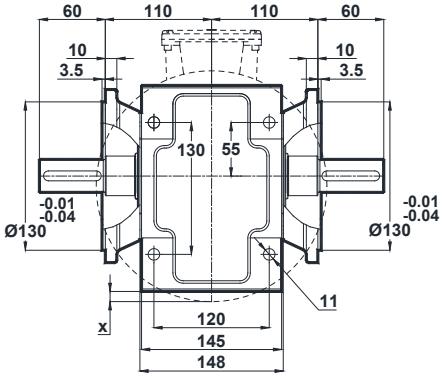


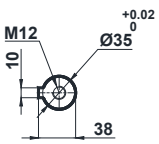
63-71-80-90-100-112
Tip / *Type* / Typ

	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	504.5	493.5	545.5	586.5	586.5	615	635.5	762	762
k1	565.5	584.5	638.5	690	690	723.5	740	884	884
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	140	160	200	200	200	250	250	300	300
m1 (B14)	-	105	120	140	140	160	160	200	200
x	-	-	-	-	-	20,5	20,5	45,5	45,5

KV273.05







x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	504.5	493.5	545.5	586.5	586.5	615	635.5	762	762
k1	565.5	584.5	638.5	690	690	723.5	740	884	884
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	140	160	200	200	200	250	250	300	300
m1 (B14)	-	105	120	140	140	160	160	200	200
x	-	-	-	-	-	20,5	20,5	45,5	45,5

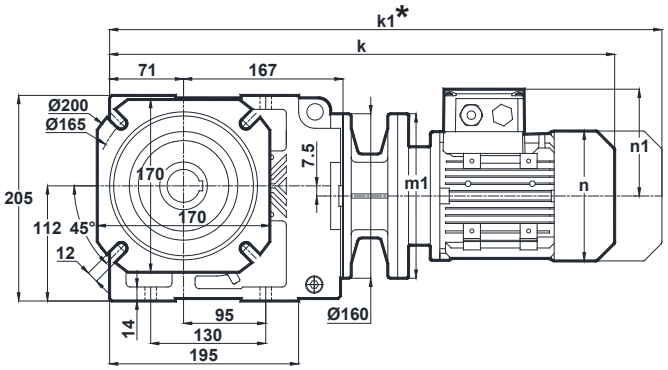
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

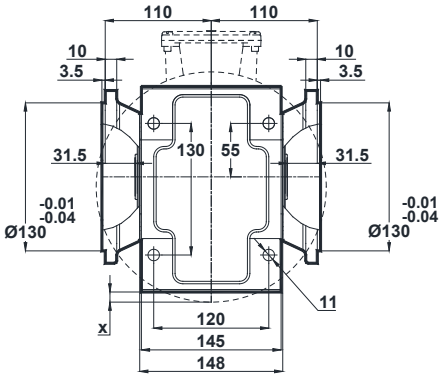
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

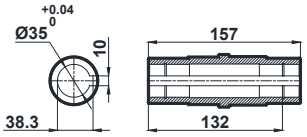
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV273.08



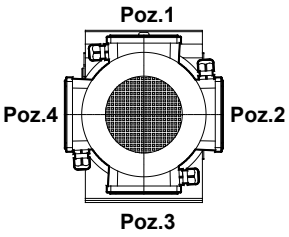




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	63/B5	71/B5 71/B14	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	504.5	493.5	545.5	586.5	586.5	615	635.5	762	762
k1	565.5	584.5	638.5	690	690	723.5	740	884	884
n / n1	121 / 97	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	140	160	200	200	200	250	250	300	300
m1 (B14)	-	105	120	140	140	160	160	200	200
x	-	-	-	-	-	20,5	20,5	45,5	45,5

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



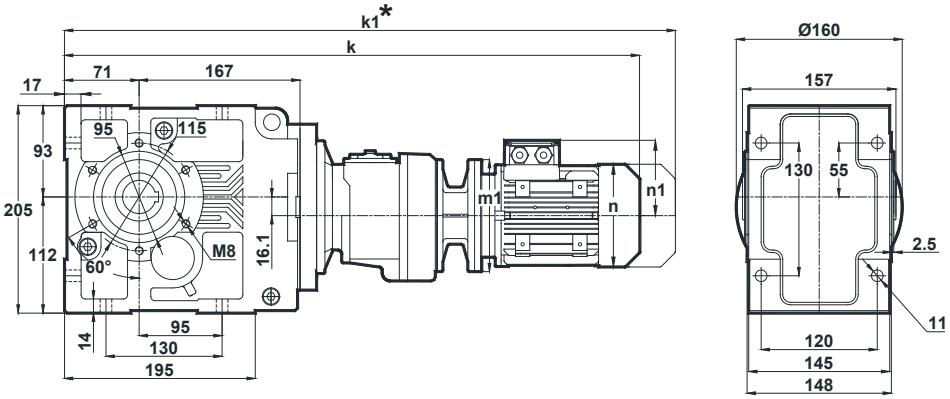
63-71-80-90-100-112
Tip / *Type* / Typ

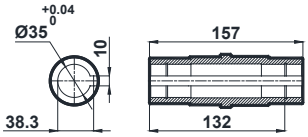
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

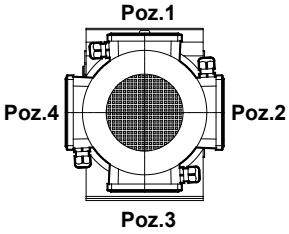
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV275.00
KV276.00





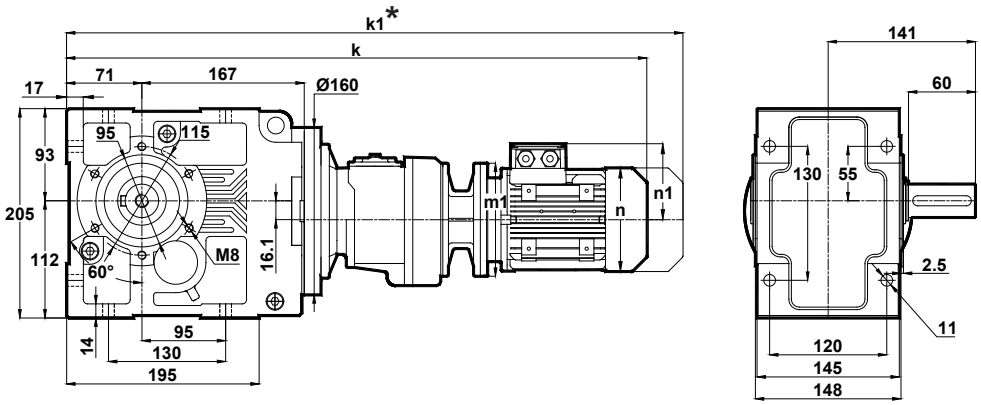
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

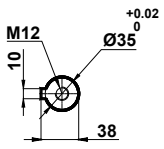


63-71-80
Tip / *Type* / Typ

	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14
k	620	639.5	677.5
k1	681	730.5	770.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	90	105	120

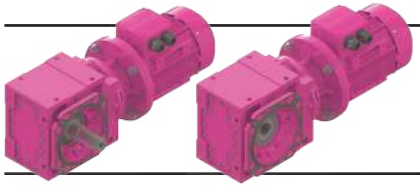
KV275.01
KV276.01





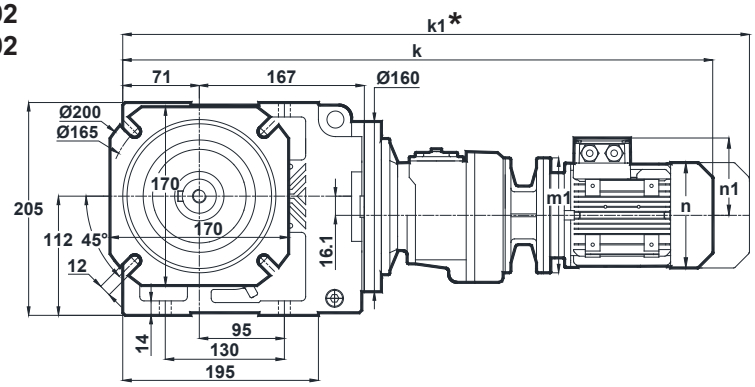
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14
k	620	639.5	677.5
k1	681	730.5	770.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	90	105	120

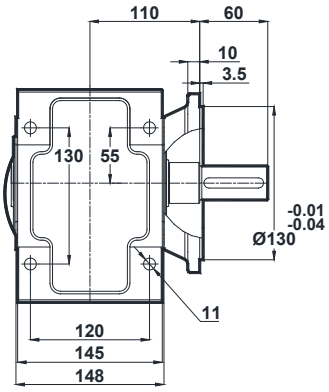
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

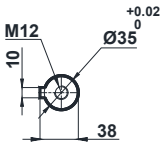


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV275.02
KV276.02

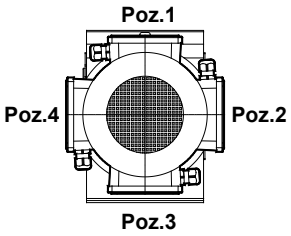






	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14
k	620	639.5	677.5
k1	681	730.5	770.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	90	105	120

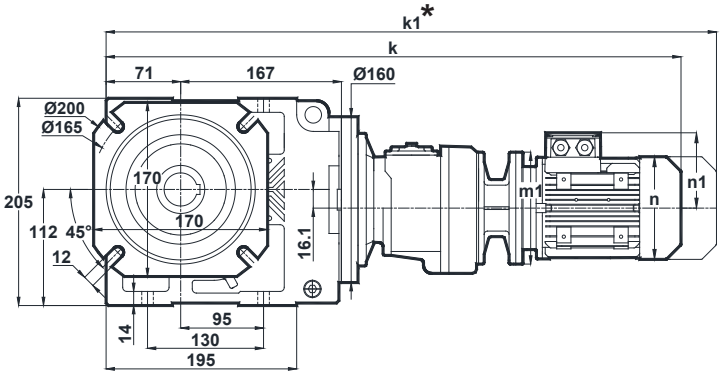
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

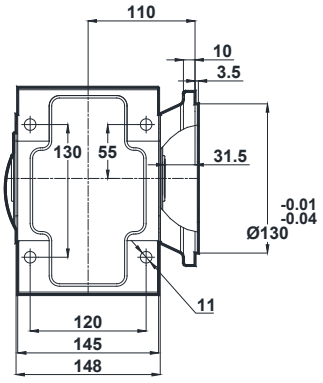


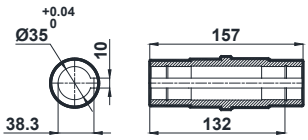
63-71-80
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV275.03
KV276.03



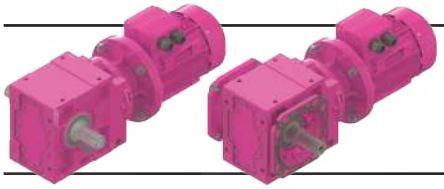




	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14
k	620	639.5	677.5
k1	681	730.5	770.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	90	105	120

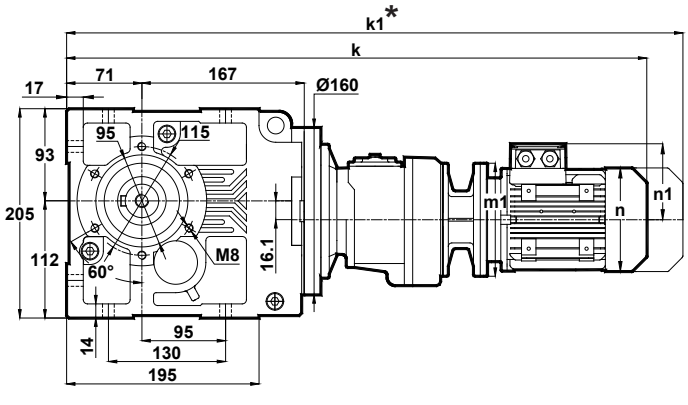
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

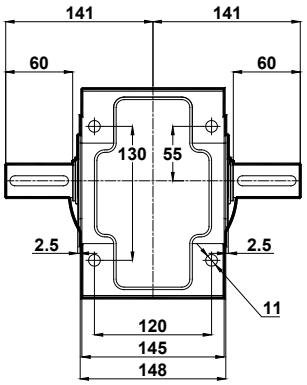
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

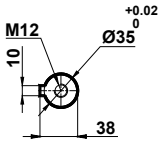


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV275.04
KV276.04

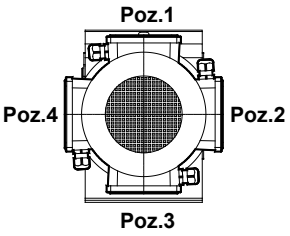






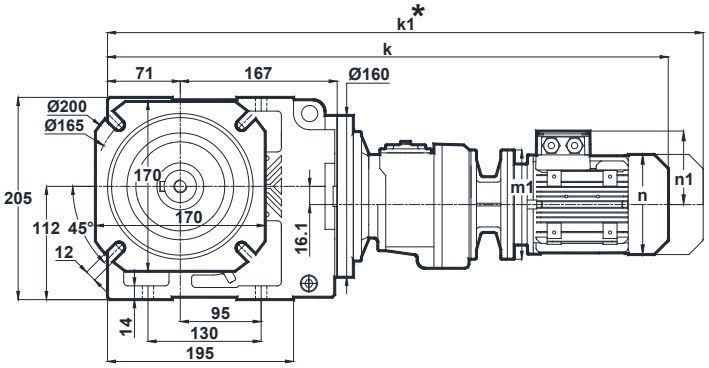
	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14
k	620	639.5	677.5
k1	681	730.5	770.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	90	105	120

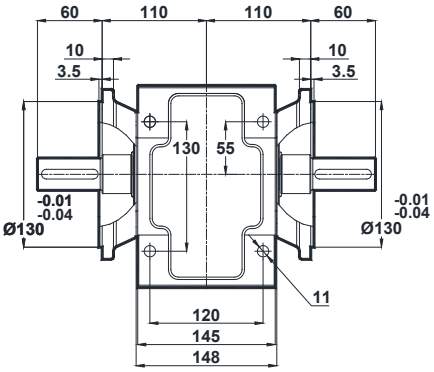
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

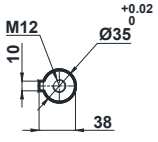


63-71-80
Tip / *Type* / Typ

KV275.05
KV276.05







	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14
k	620	639.5	677.5
k1	681	730.5	770.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	90	105	120

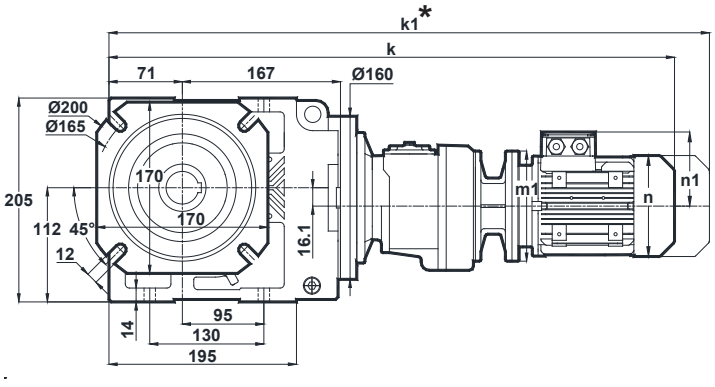
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

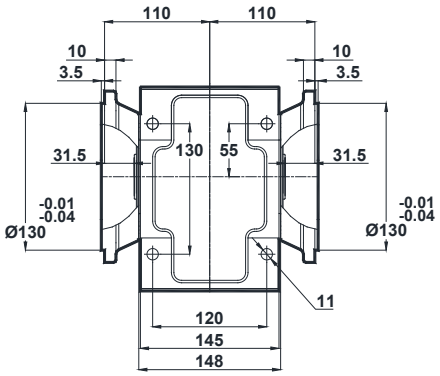
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

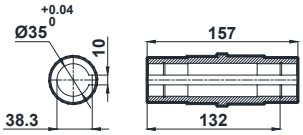
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV275.08
KV276.08

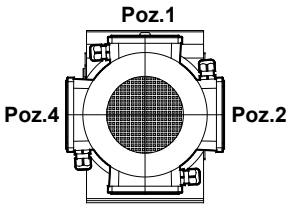






	63/B5 63/B14	71/B5 71/B14	80/B5 80/B14
k	620	639.5	677.5
k1	681	730.5	770.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	90	105	120

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80
Tip / *Type* / Typ

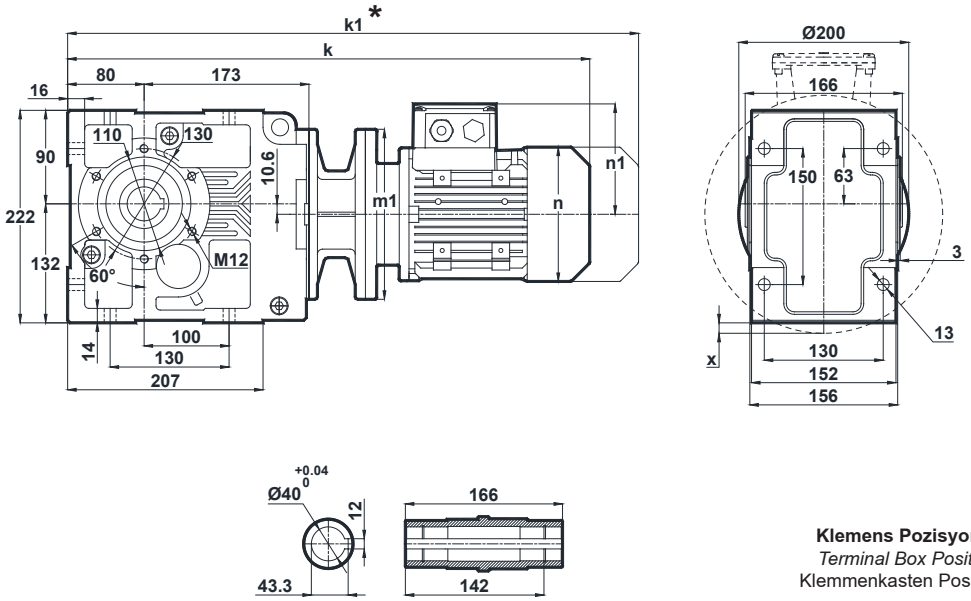
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

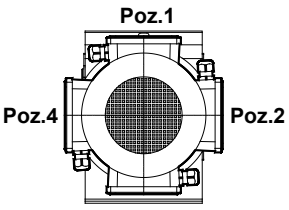
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV283.00



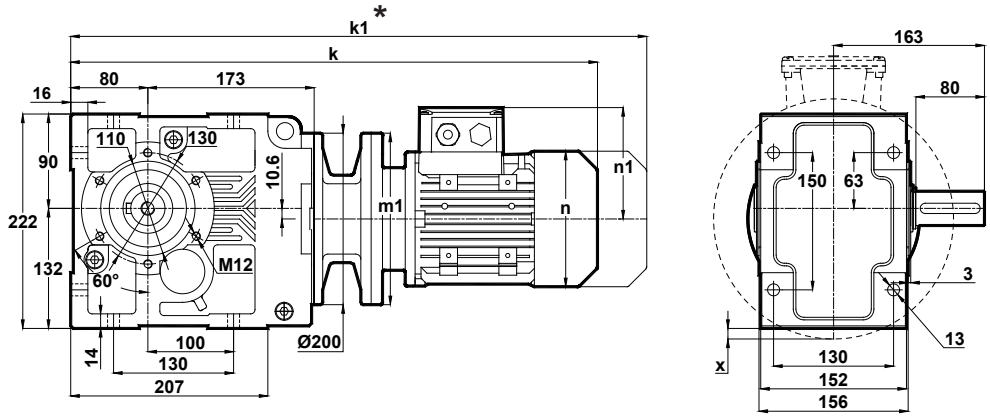
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

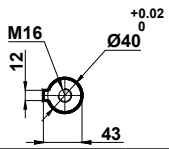
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	530.5	553.5	594.5	594.5	647	667.5	771.5	771.5
k1	621.5	646.5	698	698	755.5	772	901.5	901.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	3.6	3.6	28.6	28.6



71-80-90-100-112-132
Tip / *Type* / Typ

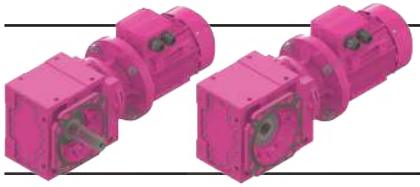
KV283.01





	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	530.5	553.5	594.5	594.5	647	667.5	771.5	771.5
k1	621.5	646.5	698	698	755.5	772	901.5	901.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	3.6	3.6	28.6	28.6

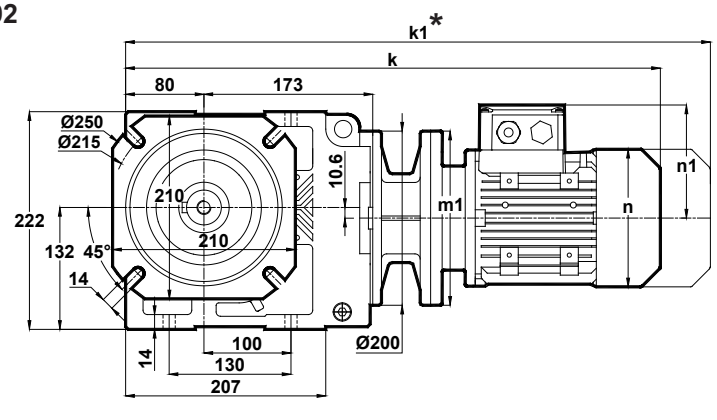
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

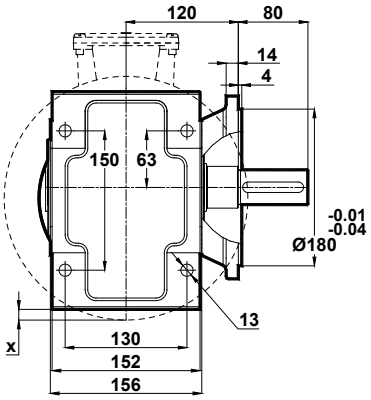


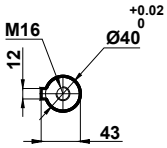
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

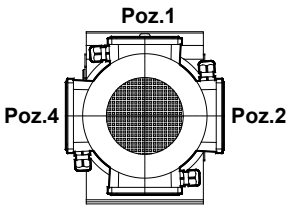
KV283.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

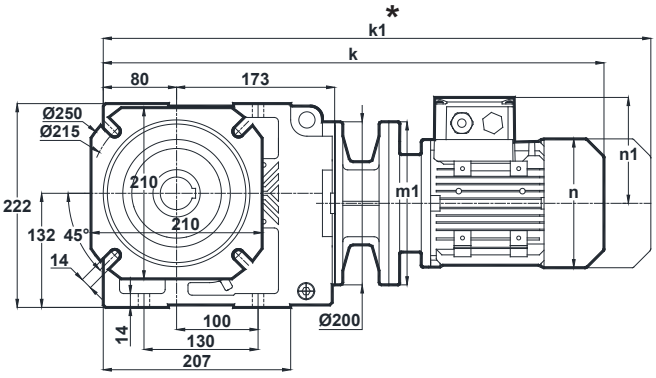


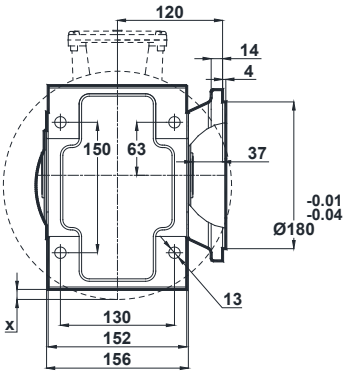
71-80-90-100-112-132
Tip / *Type* / Typ

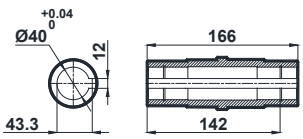
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	530.5	553.5	594.5	594.5	647	667.5	771.5	771.5
k1	621.5	646.5	698	698	755.5	772	901.5	901.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	3.6	3.6	28.6	28.6

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV283.03



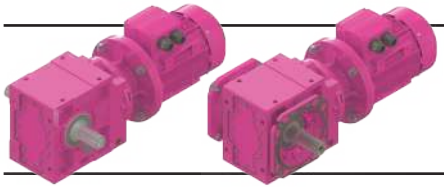




	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	530.5	553.5	594.5	594.5	647	667.5	771.5	771.5
k1	621.5	646.5	698	698	755.5	772	901.5	901.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	3.6	3.6	28.6	28.6

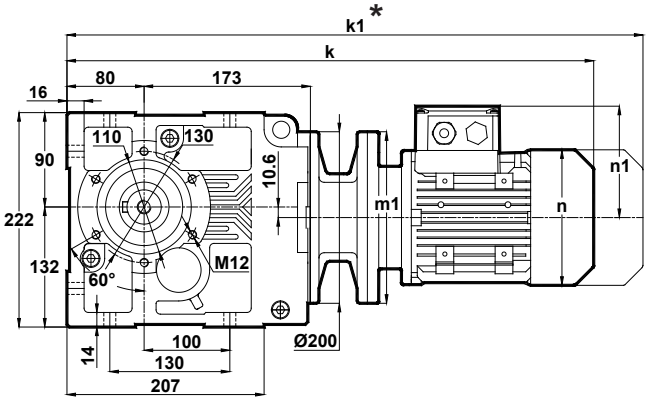
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

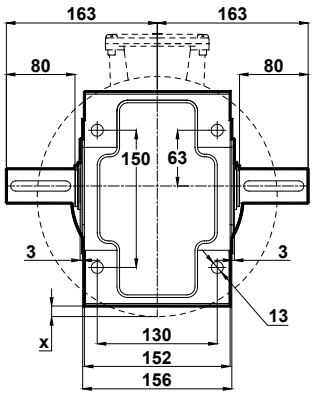
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

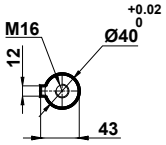


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV283.04

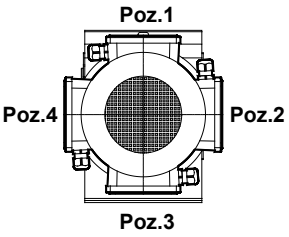






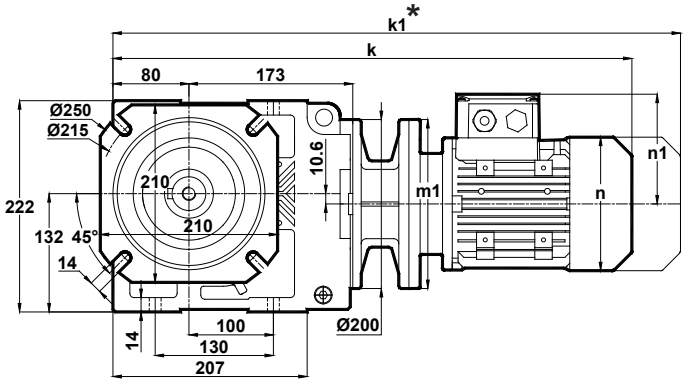
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	530.5	553.5	594.5	594.5	647	667.5	771.5	771.5
k1	621.5	646.5	698	698	755.5	772	901.5	901.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	3.6	3.6	28.6	28.6

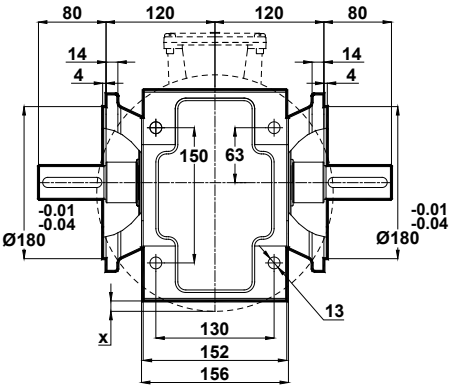
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

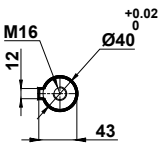


71-80-90-100-112-132
Tip / *Type* / Typ

KV283.05







Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

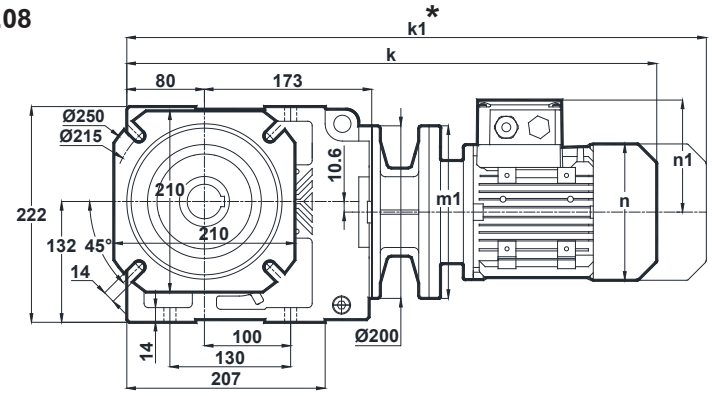
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	530.5	553.5	594.5	594.5	647	667.5	771.5	771.5
k1	621.5	646.5	698	698	755.5	772	901.5	901.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	3.6	3.6	28.6	28.6

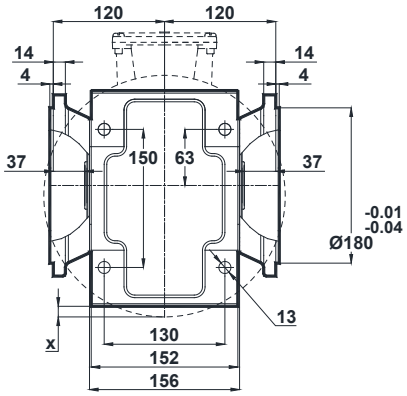
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

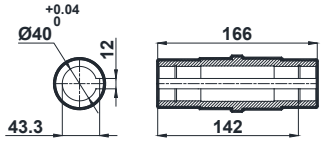
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV283.08

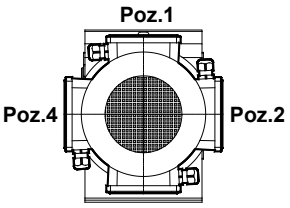






	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	530.5	553.5	594.5	594.5	647	667.5	771.5	771.5
k1	621.5	646.5	698	698	755.5	772	901.5	901.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	3.6	3.6	28.6	28.6

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80-90-100-112-132
Tip / *Type* / Typ

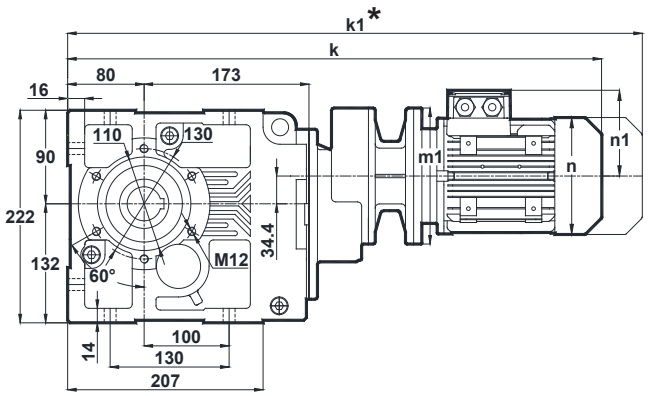
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

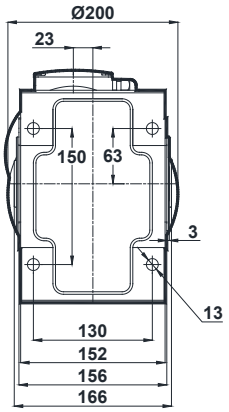
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

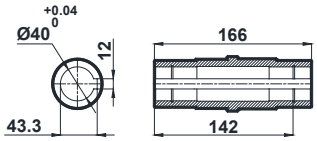
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

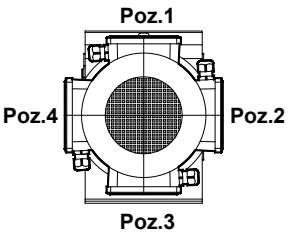
KV284.00







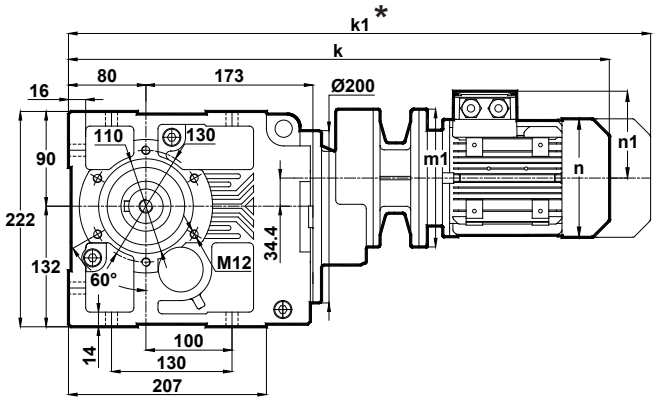
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

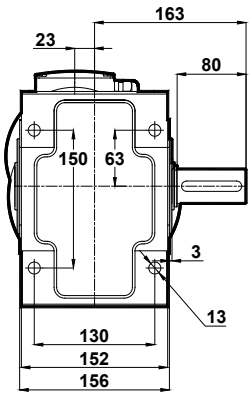


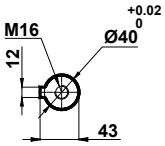
71-80-90-100-112
Tip / *Type* / Typ

	63/B5	71/B5 71/B14	80/B5 80/B14
k	589.5	578.5	630.5
k1	650.5	669.5	723.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

KV284.01

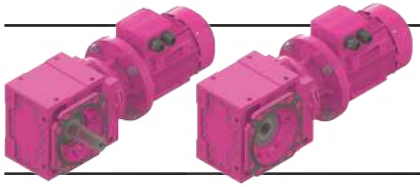






	63/B5	71/B5 71/B14	80/B5 80/B14
k	589.5	578.5	630.5
k1	650.5	669.5	723.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

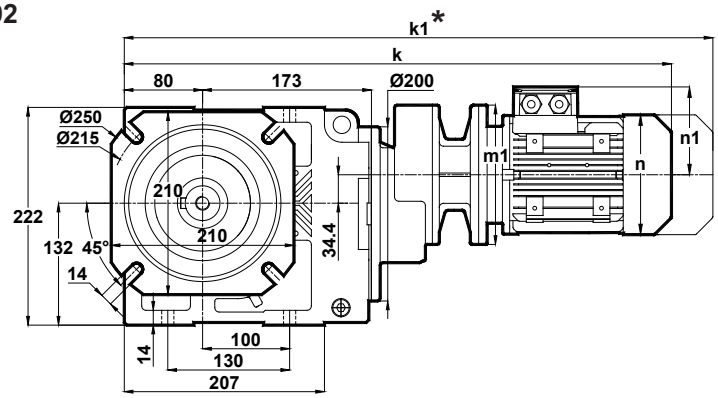
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

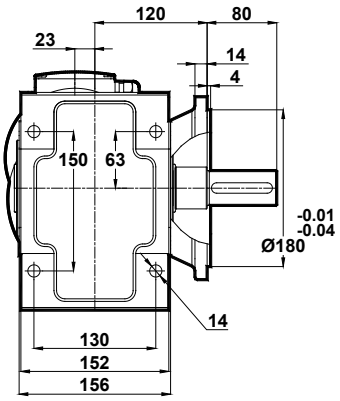


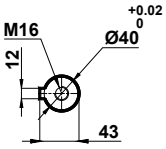
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV284.02

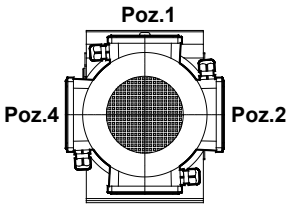






	63/B5	71/B5 71/B14	80/B5 80/B14
k	589.5	578.5	630.5
k1	650.5	669.5	723.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

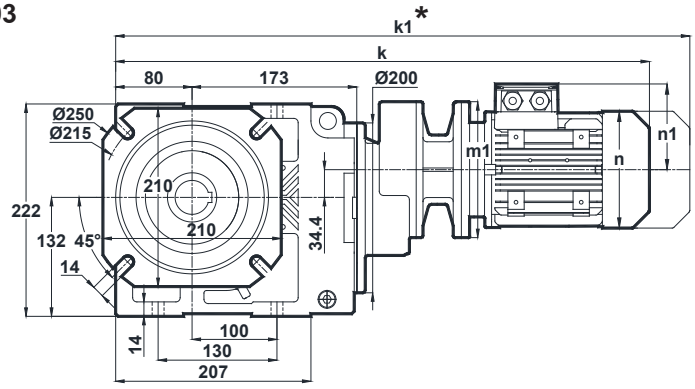
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

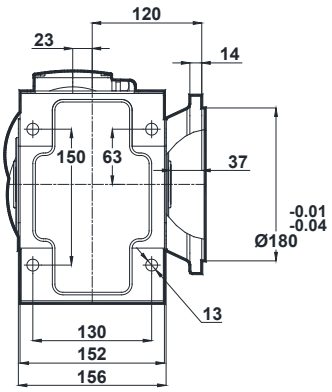


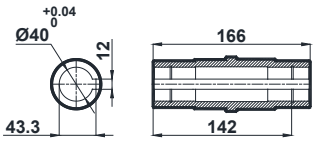
71-80-90-100-112
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV284.03



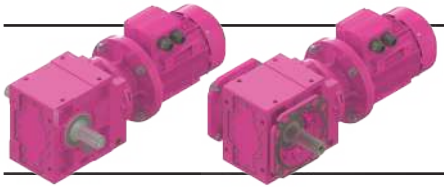




	63/B5	71/B5 71/B14	80/B5 80/B14
k	589.5	578.5	630.5
k1	650.5	669.5	723.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

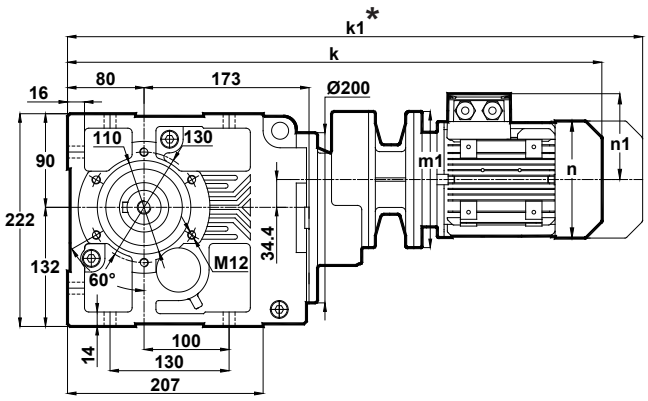
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

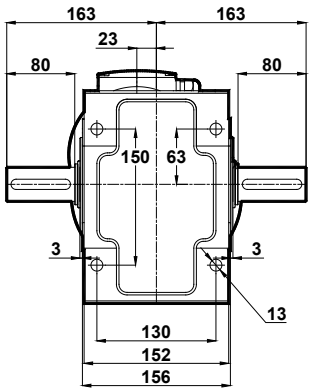
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

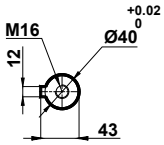


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV284.04

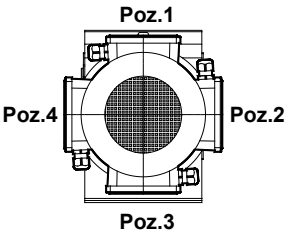






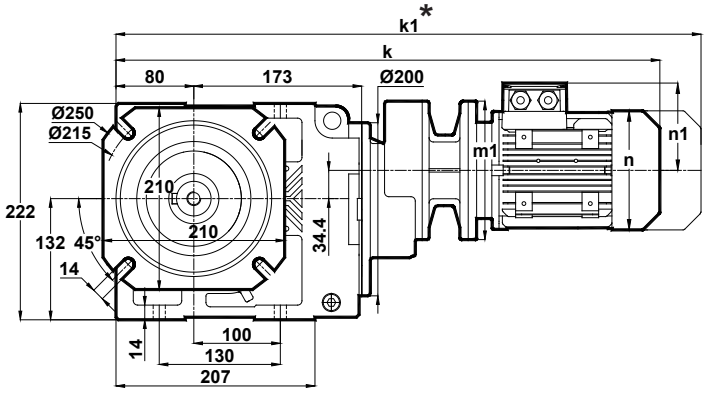
	63/B5	71/B5 71/B14	80/B5 80/B14
k	589.5	578.5	630.5
k1	650.5	669.5	723.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

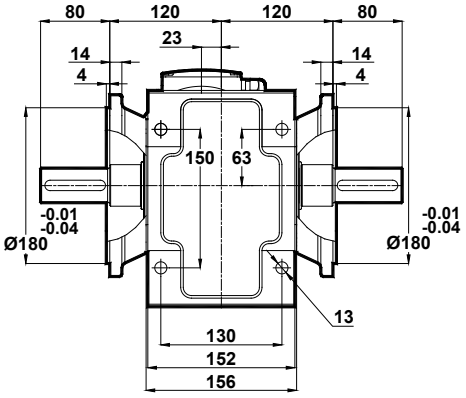
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

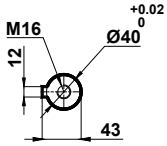


63-71-80
Tip / *Type* / Typ

KV284.05







	63/B5	71/B5 71/B14	80/B5 80/B14
k	589.5	578.5	630.5
k1	650.5	669.5	723.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

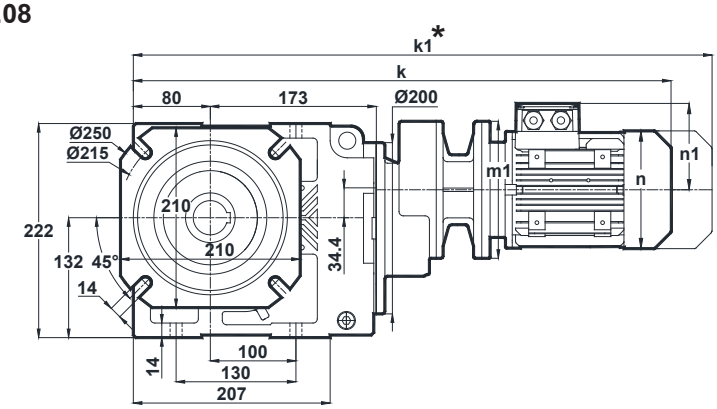
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

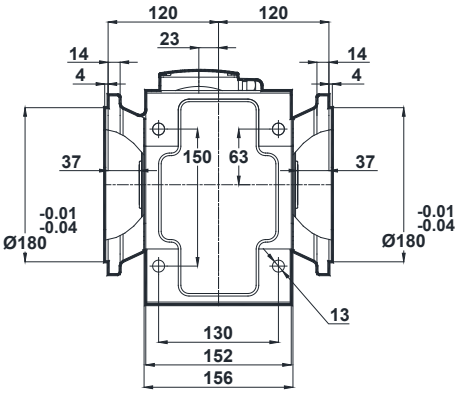
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

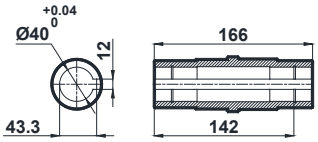
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV284.08

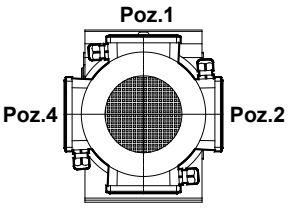






	63/B5	71/B5 71/B14	80/B5 80/B14
k	589.5	578.5	630.5
k1	650.5	669.5	723.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



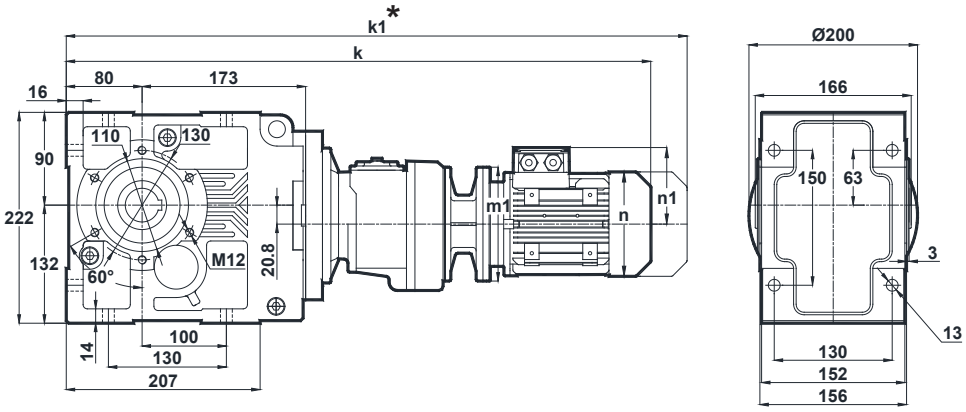
63-71-80
Tip / *Type* / Typ

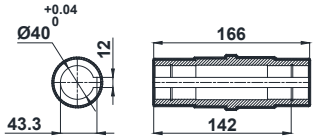
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

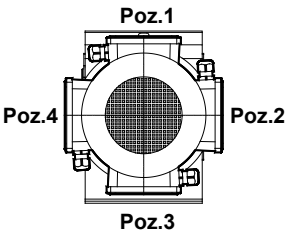
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV285.00
KV286.00





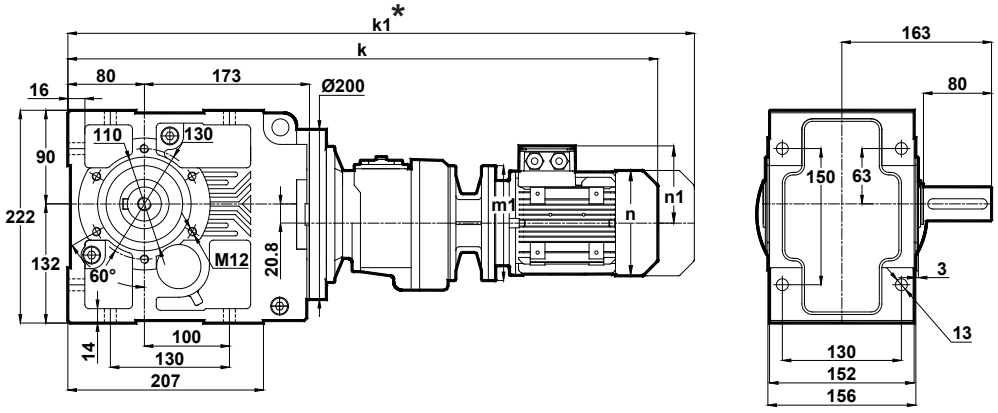
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

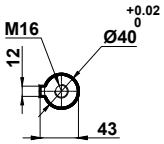


	63/B5
k	742
k1	803
n / n1	121 / 97
m1 (B5)	140
m1 (B14)	-

63
Tip / *Type* / Typ

KV285.01
KV286.01



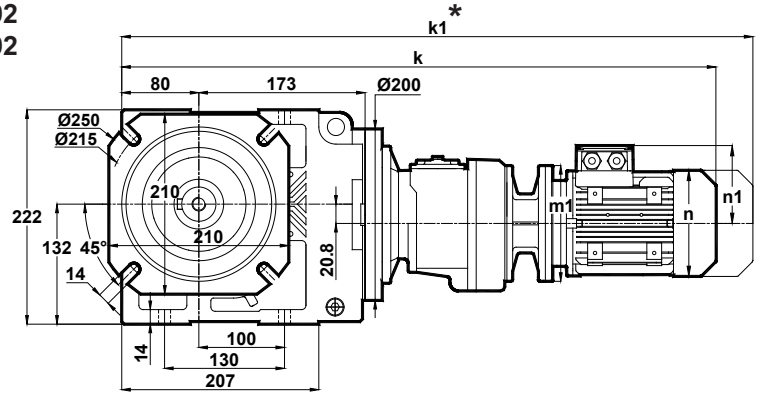


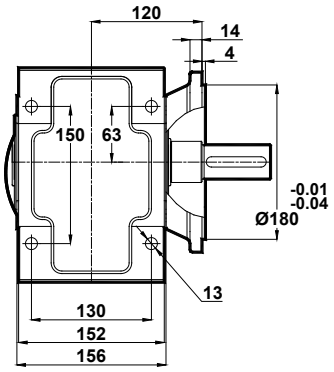
	63/B5
k	742
k1	803
n / n1	121 / 97
m1 (B5)	140
m1 (B14)	-

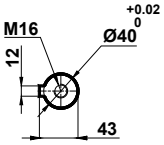
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

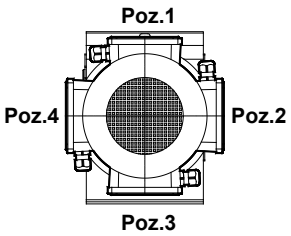
KV285.02
KV286.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

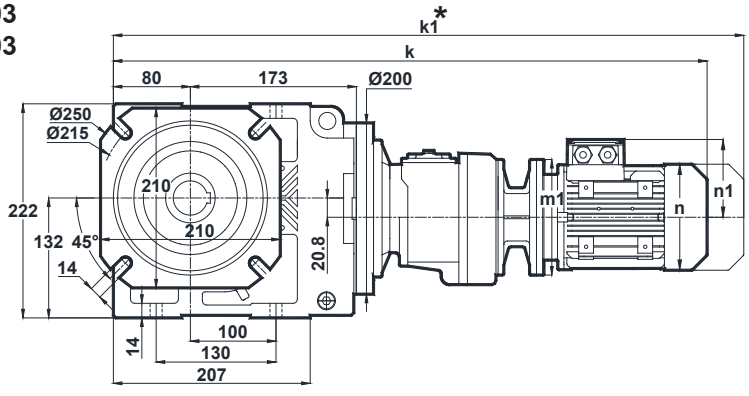


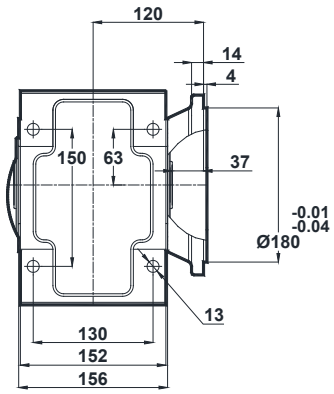
63
Tip / *Type* / Typ

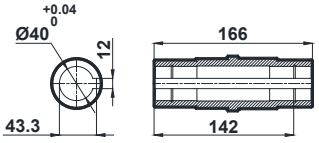
	63/B5
k	742
k1	803
n / n1	121 / 97
m1 (B5)	140
m1 (B14)	-

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV285.03
KV286.03



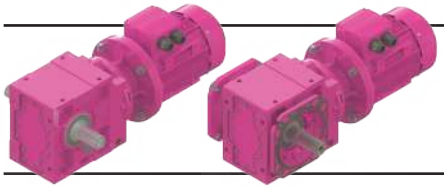




	63/B5
k	742
k1	803
n / n1	121 / 97
m1 (B5)	140
m1 (B14)	-

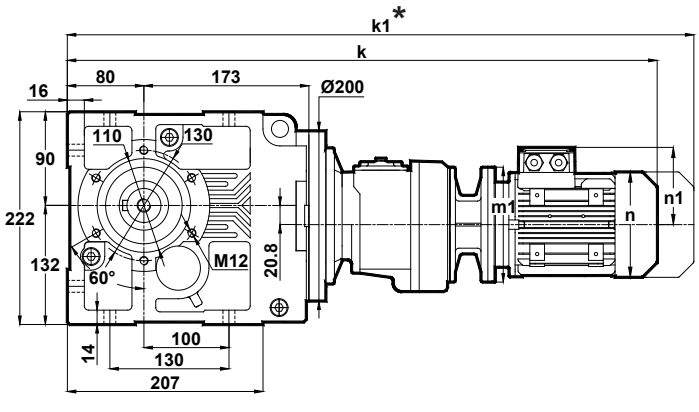
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

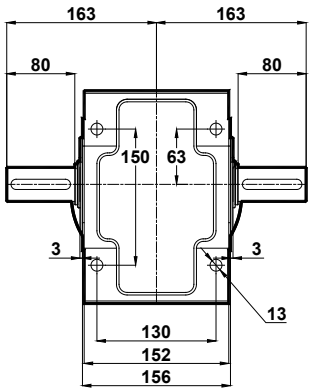
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

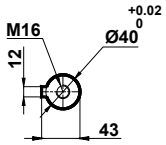


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV285.04
KV286.04

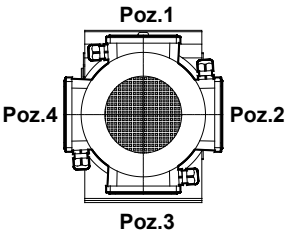






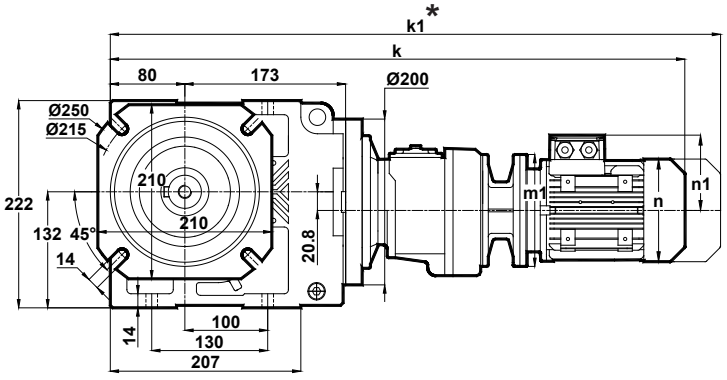
	63/B5
k	742
k1	803
n / n1	121 / 97
m1 (B5)	140
m1 (B14)	-

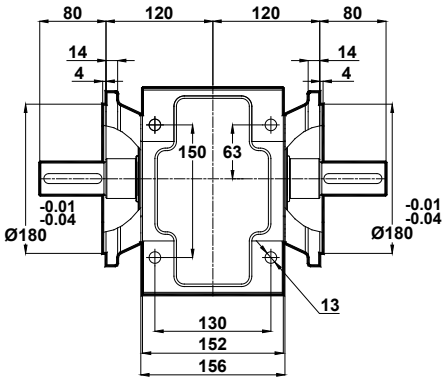
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

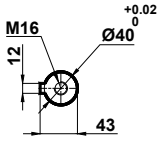


63
Tip / *Type* / Typ

KV285.05
KV286.05







Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

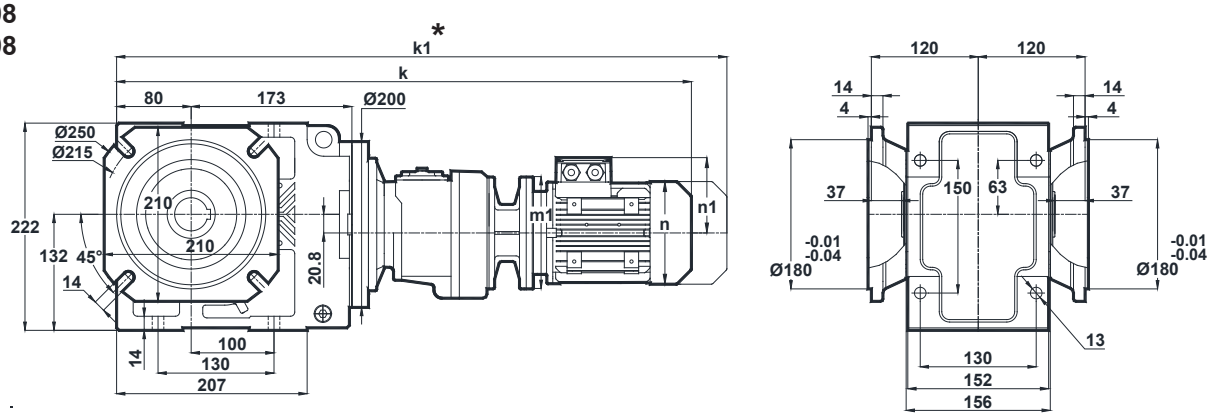
	63/B5
k	742
k1	803
n / n1	121 / 97
m1 (B5)	140
m1 (B14)	-

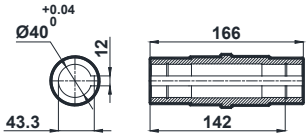
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

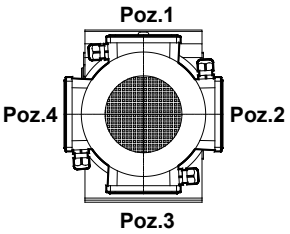
KV285.08
KV286.08





	63/B5
k	742
k1	803
n / n1	121 / 97
m1 (B5)	140
m1 (B14)	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63
Tip / *Type* / Typ

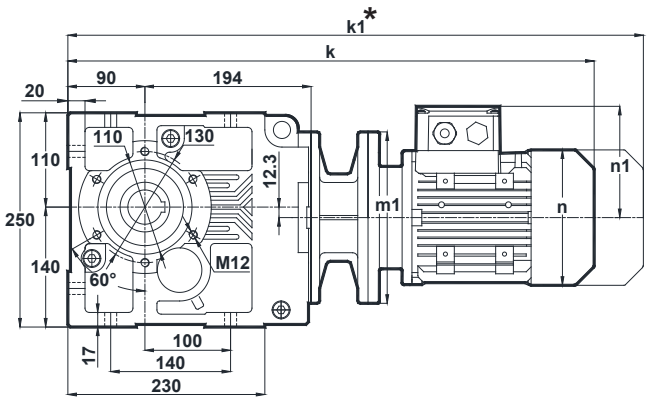
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

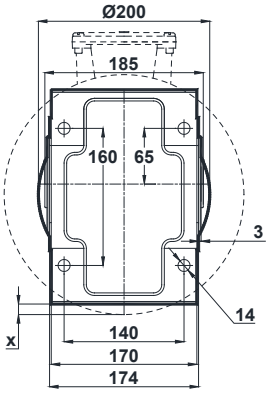
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

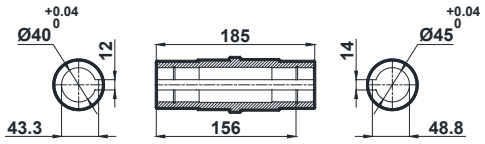
KV373.00



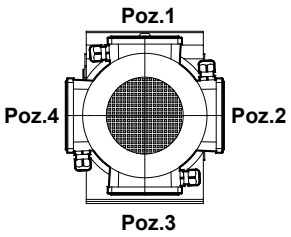


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Std. **Ops.**



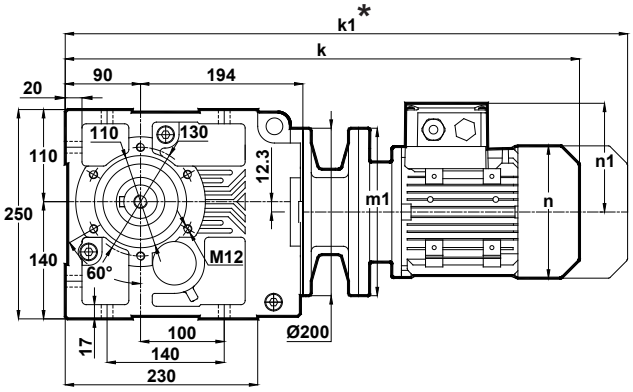
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

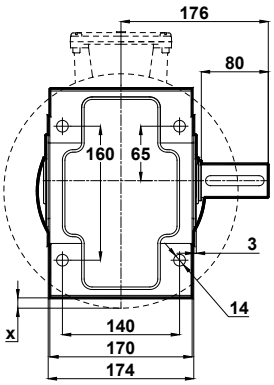


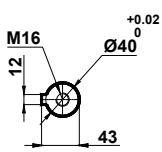
71-80-90-100-112-132
Tip / *Type* / Typ

	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	561.5	584.5	625.5	625.5	678	698.5	802.5	802.5
k1	652.5	677.5	729	729	786.5	803	932.5	932.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	-	-	22,3	22,3

KV373.01



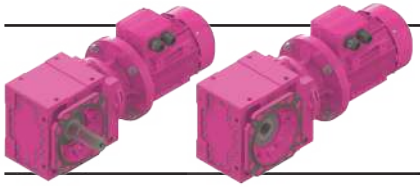




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	561.5	584.5	625.5	625.5	678	698.5	802.5	802.5
k1	652.5	677.5	729	729	786.5	803	932.5	932.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	-	-	22,3	22,3

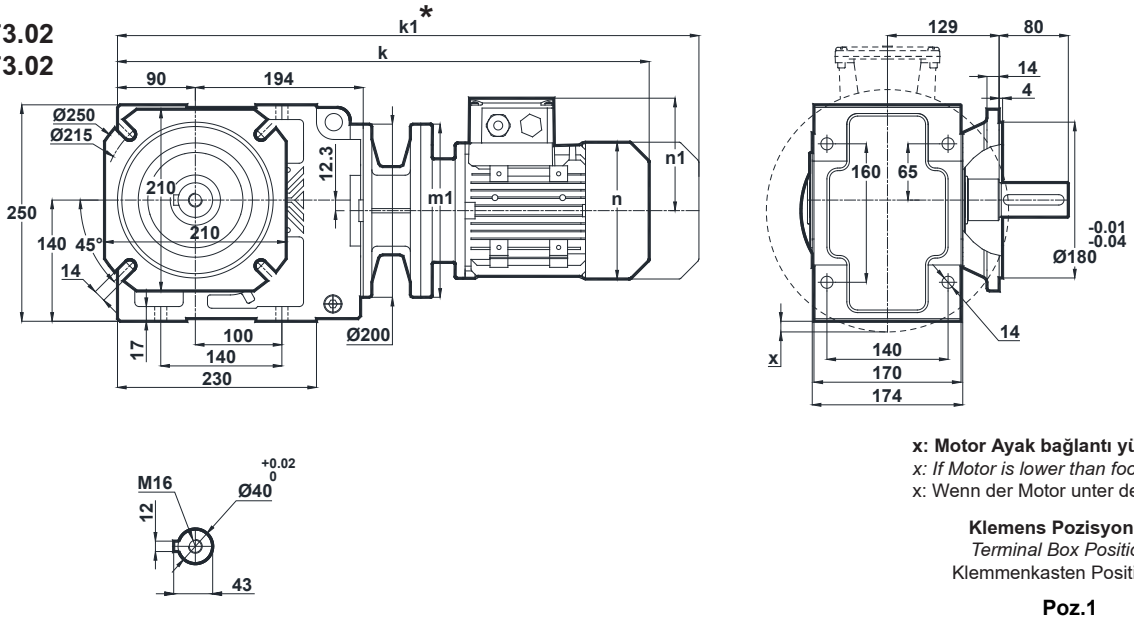
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

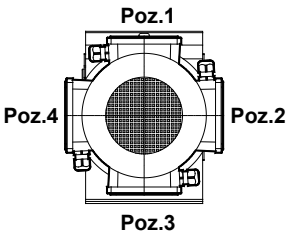
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV373.02
KV373.02



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

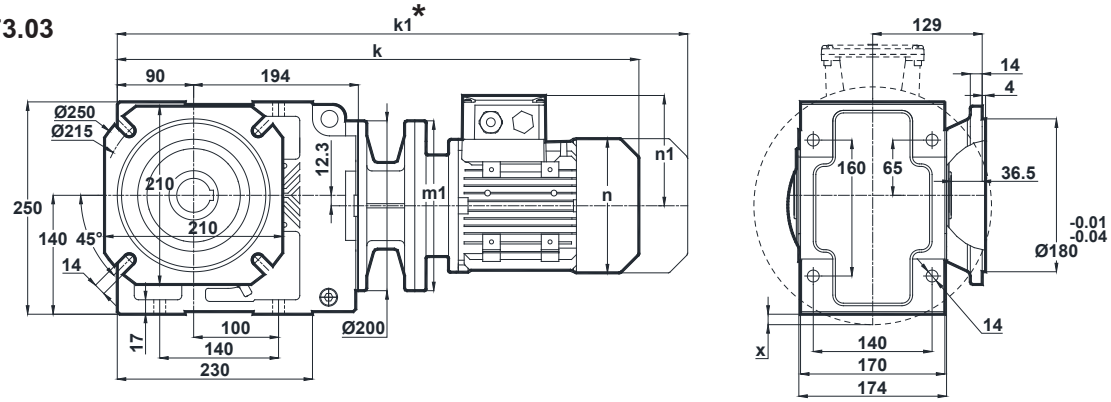


	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	561.5	584.5	625.5	625.5	678	698.5	802.5	802.5
k1	652.5	677.5	729	729	786.5	803	932.5	932.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	-	-	22,3	22,3

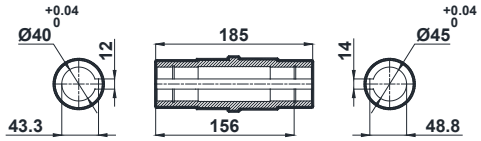
71-80-90-100-112-132
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV373.03



Std. **Ops.**

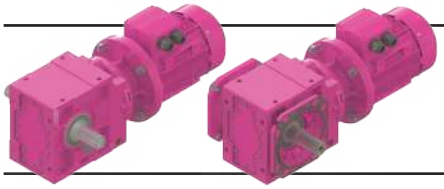


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	561.5	584.5	625.5	625.5	678	698.5	802.5	802.5
k1	652.5	677.5	729	729	786.5	803	932.5	932.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	-	-	22,3	22,3

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

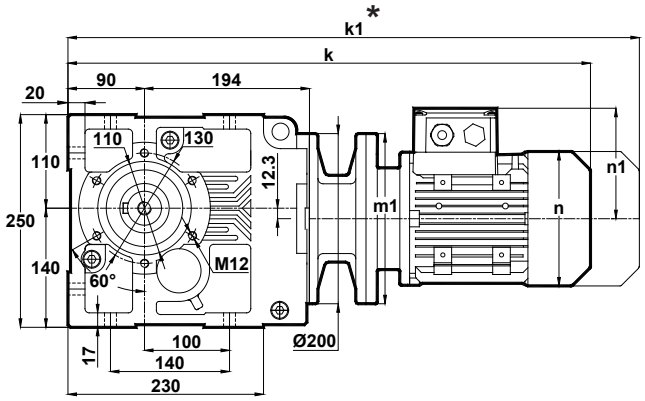
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

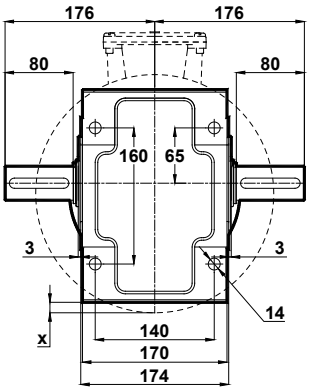


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

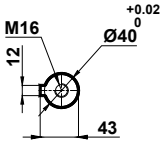
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV373.04
KV373.04

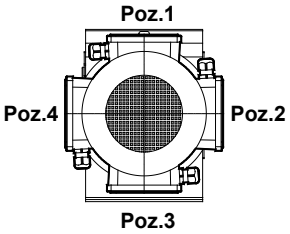




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



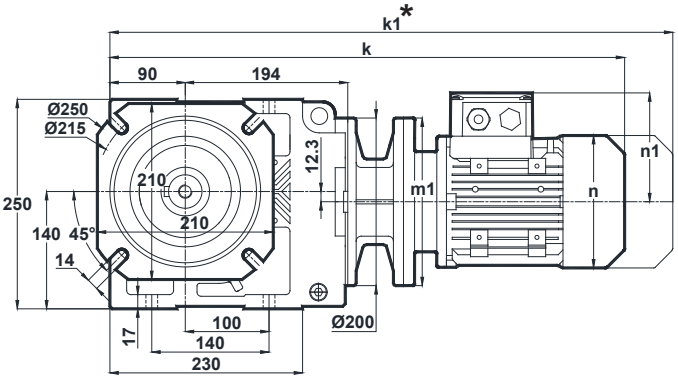
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

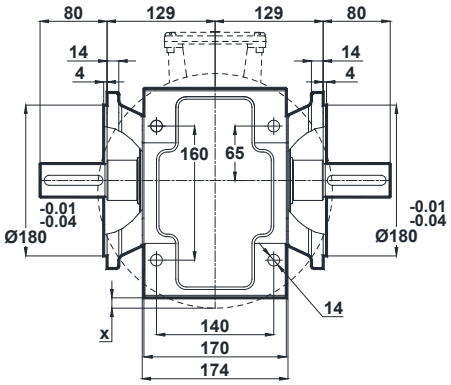


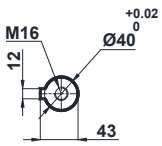
71-80-90-100-112-132
Tip / *Type* / Typ

	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	561.5	584.5	625.5	625.5	678	698.5	802.5	802.5
k1	652.5	677.5	729	729	786.5	803	932.5	932.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	-	-	22,3	22,3

KV373.05
KV373.05







x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	561.5	584.5	625.5	625.5	678	698.5	802.5	802.5
k1	652.5	677.5	729	729	786.5	803	932.5	932.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	-	-	22,3	22,3

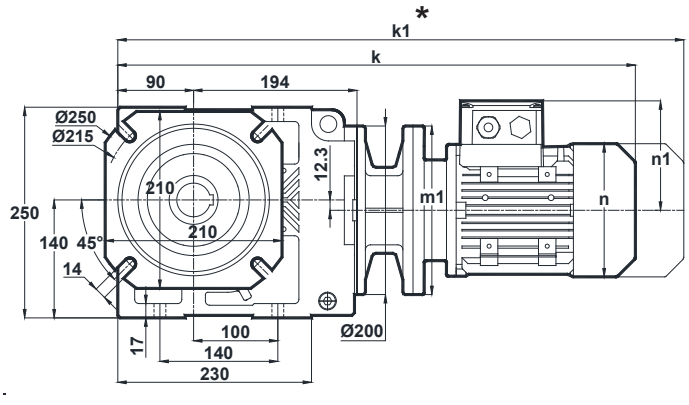
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

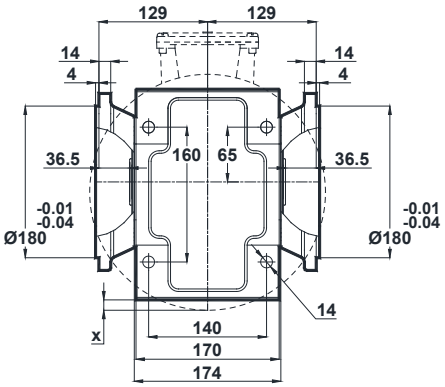
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

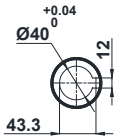
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

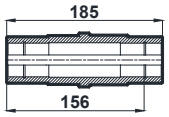
KV373.08
KV373.08



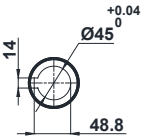


Std.





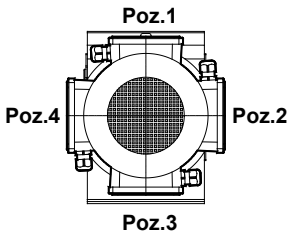
Ops.



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	561.5	584.5	625.5	625.5	678	698.5	802.5	802.5
k1	652.5	677.5	729	729	786.5	803	932.5	932.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200
x	-	-	-	-	-	-	22,3	22,3

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



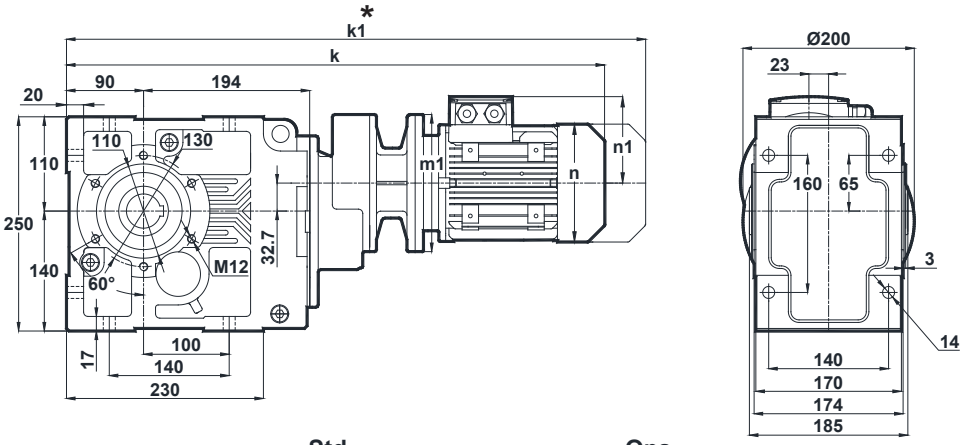
71-80-90-100-112-132
Tip / *Type* / Typ

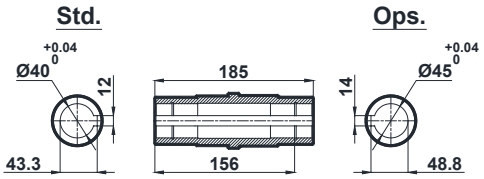
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

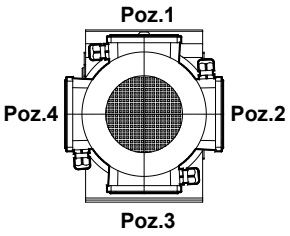
KV374.00





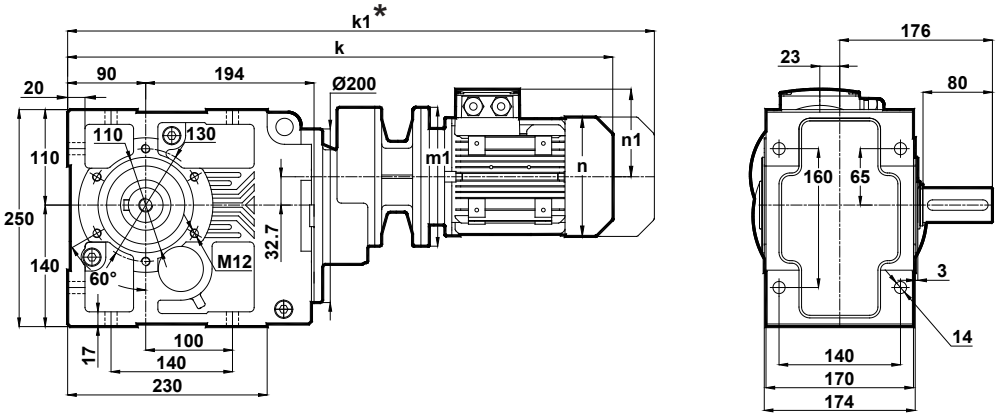
	63/B5	71/B5 71/B14	80/B5 80/B14
k	620.5	609.5	661.5
k1	681.5	700.5	754.5
n / n1	121 / 97	137 / 121	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

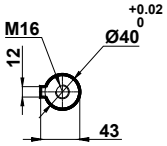
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80
Tip / *Type* / Typ

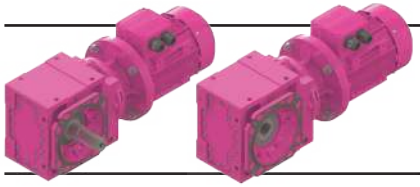
KV374.01





	63/B5	71/B5 71/B14	80/B5 80/B14
k	620.5	609.5	661.5
k1	681.5	700.5	754.5
n / n1	121 / 97	137 / 121	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

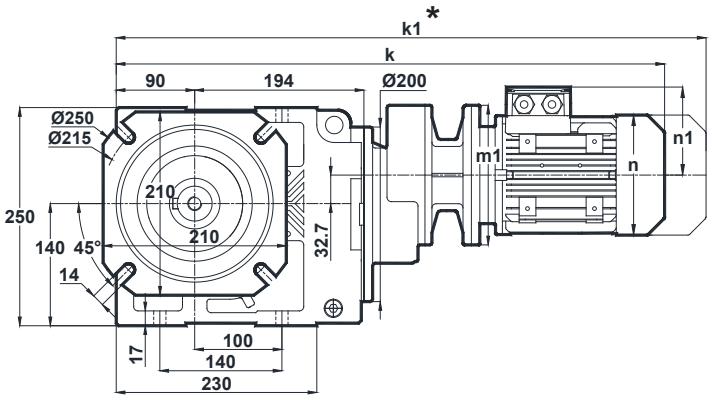
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

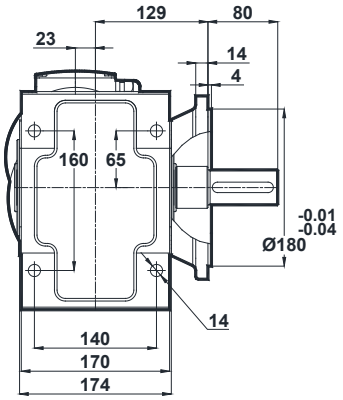


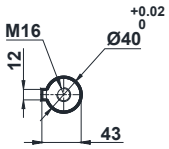
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV374.02

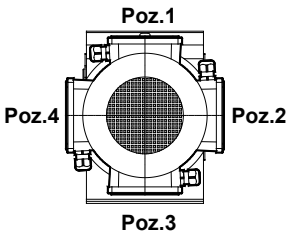






	63/B5	71/B5 71/B14	80/B5 80/B14
k	620.5	609.5	661.5
k1	681.5	700.5	754.5
n / n1	121 / 97	137 / 121	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

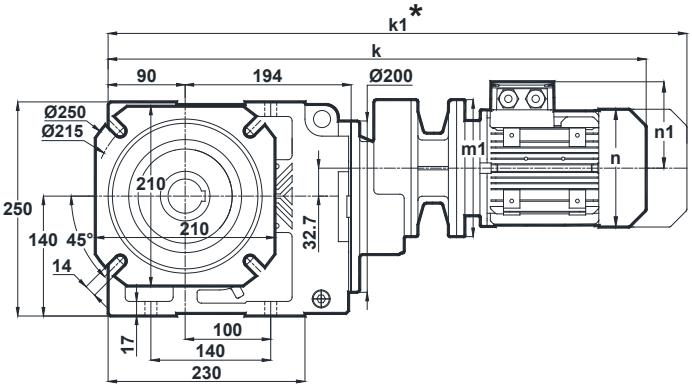
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

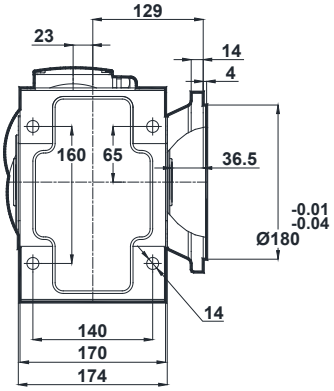


63-71-80
Tip / *Type* / Typ

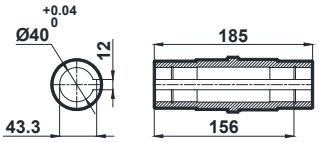
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV374.03

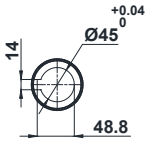




Std.



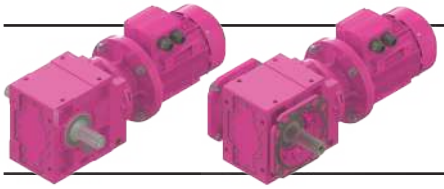
Ops.



	63/B5	71/B5 71/B14	80/B5 80/B14
k	620.5	609.5	661.5
k1	681.5	700.5	754.5
n / n1	121 / 97	137 / 121	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

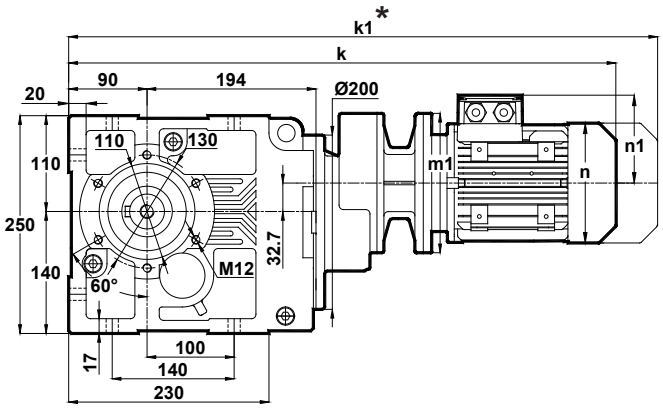
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

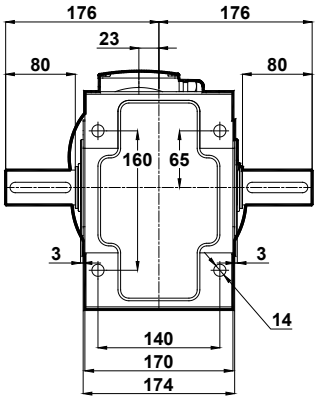
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

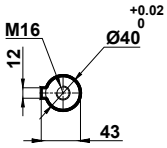


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV374.04

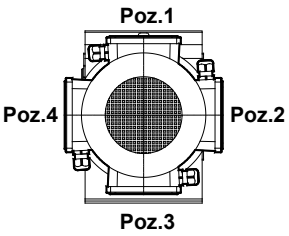






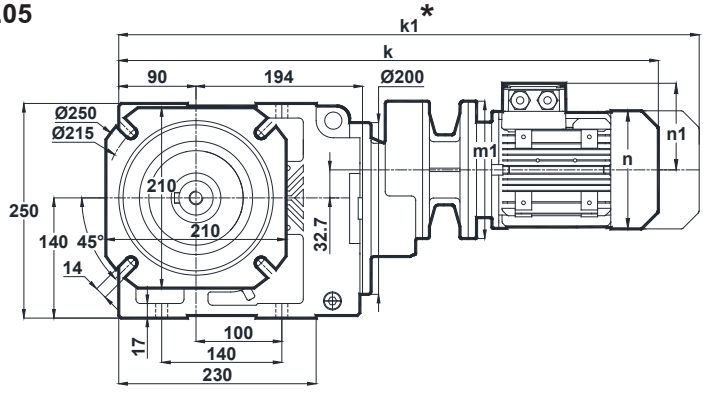
	63/B5	71/B5 71/B14	80/B5 80/B14
k	620.5	609.5	661.5
k1	681.5	700.5	754.5
n / n1	121 / 97	137 / 121	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

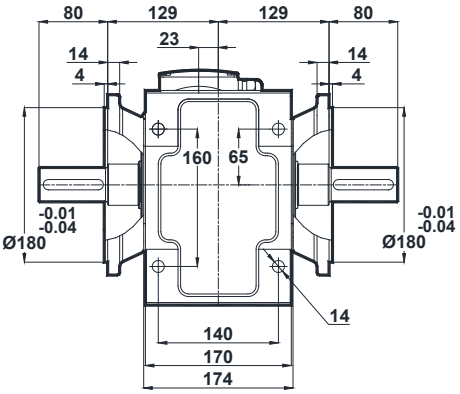
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

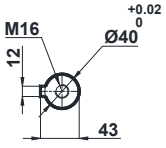


63-71-80
Tip / *Type* / Typ

KV374.05







	63/B5	71/B5 71/B14	80/B5 80/B14
k	620.5	609.5	661.5
k1	681.5	700.5	754.5
n / n1	121 / 97	137 / 121	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

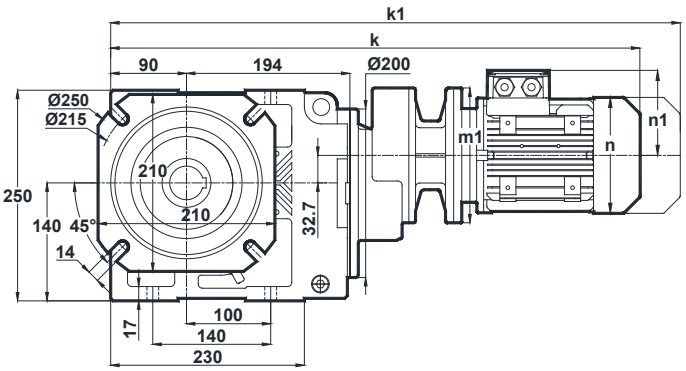
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

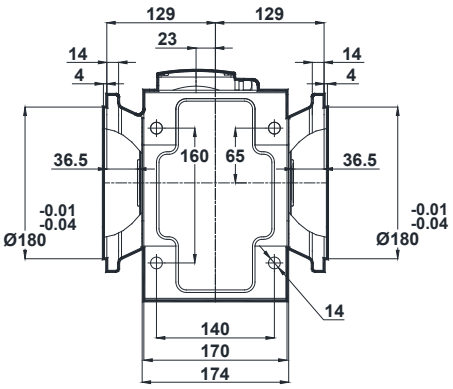
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

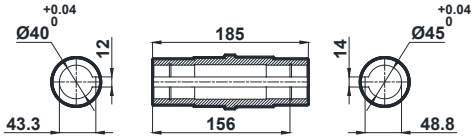
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV374.08



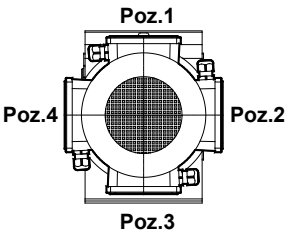


Std. **Ops.**



	63/B5	71/B5 71/B14	80/B5 80/B14
k	620.5	609.5	661.5
k1	681.5	700.5	754.5
n / n1	121 / 97	137 / 121	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



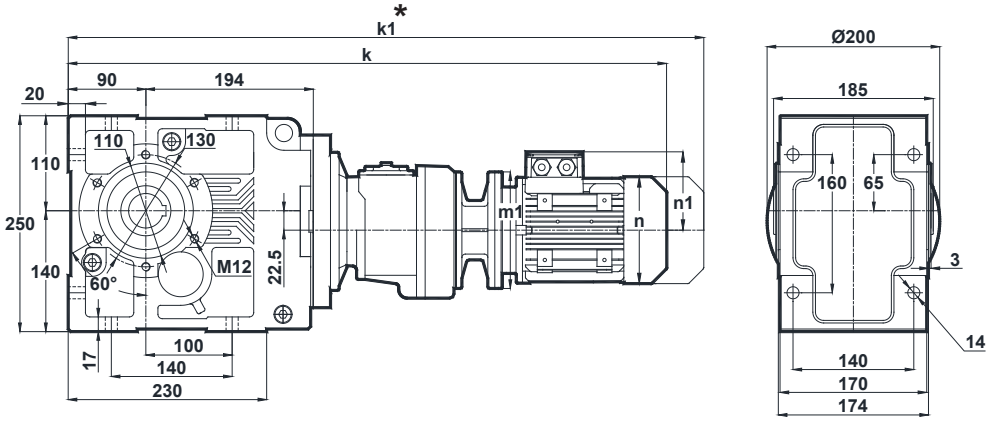
63-71-80
Tip / *Type* / Typ

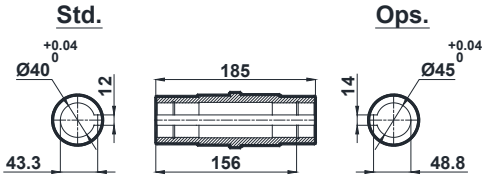
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

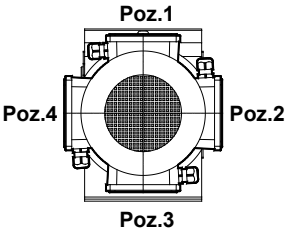
KV375.00
KV376.00





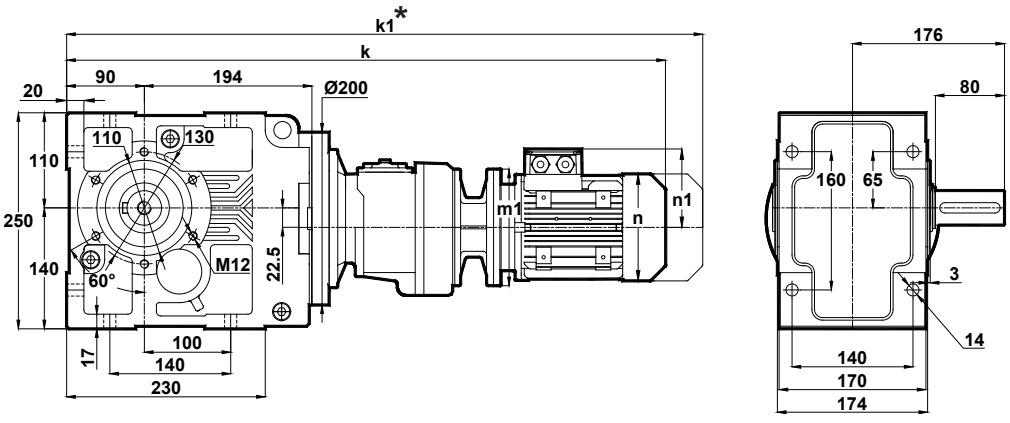
	63/B5 63/B14	71/B5 71/B14
k	686	705.5
k1	747	796.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105

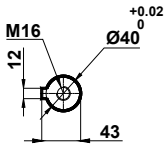
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tip / *Type* / Typ

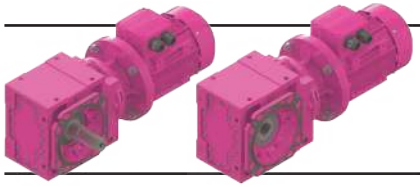
KV375.01
KV376.01





	63/B5 63/B14	71/B5 71/B14
k	686	705.5
k1	747	796.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105

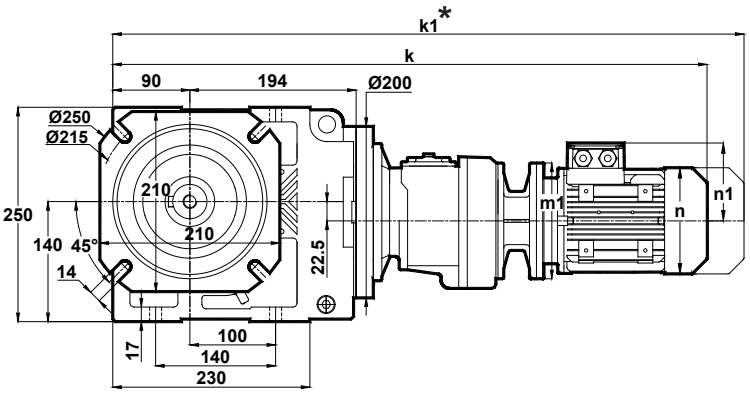
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

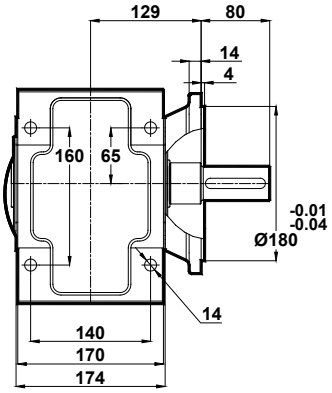


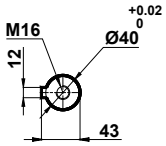
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV375.02
KV376.02

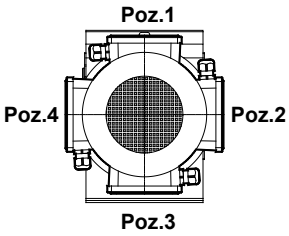






	63/B5 63/B14	71/B5 71/B14
k	686	705.5
k1	747	796.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105

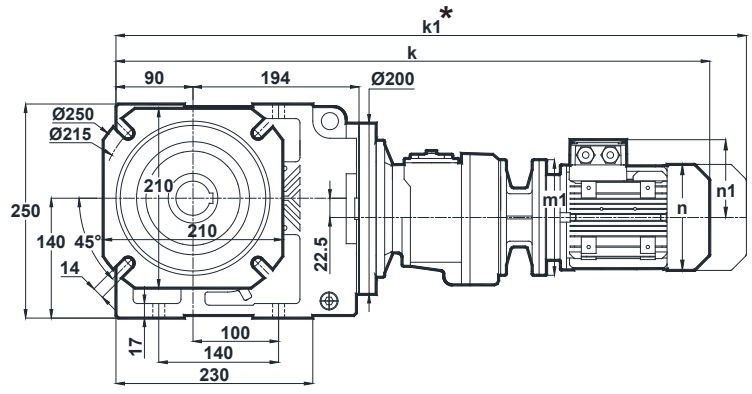
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

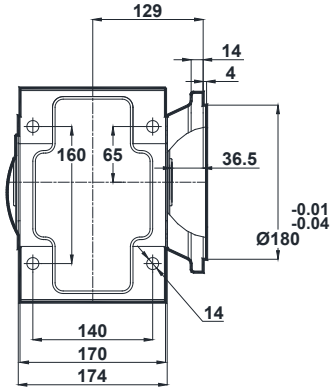


63-71
Tip / *Type* / Typ

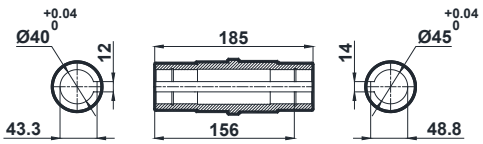
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV375.03
KV376.03





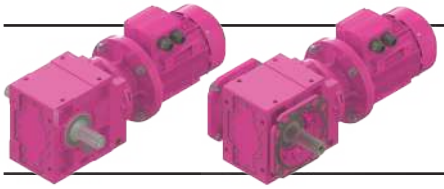
Std. **Ops.**



	63/B5 63/B14	71/B5 71/B14
k	686	705.5
k1	747	796.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105

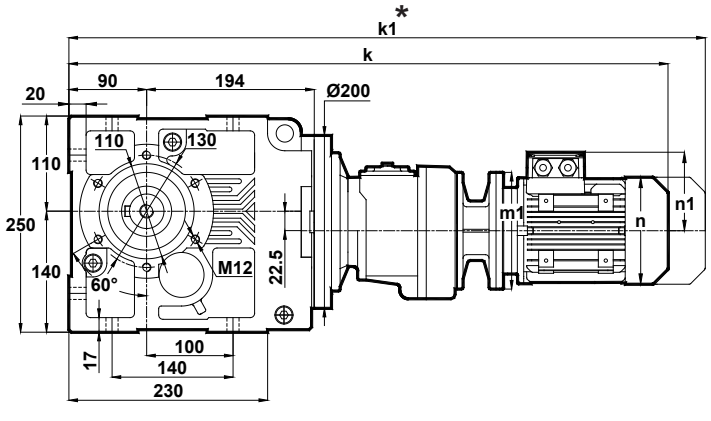
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

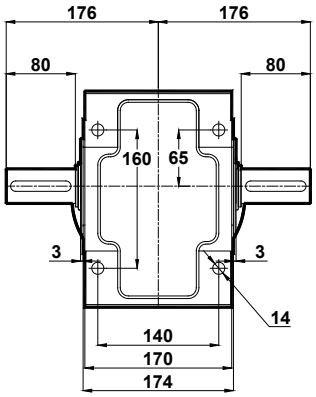
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

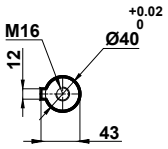


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV375.04
KV376.04

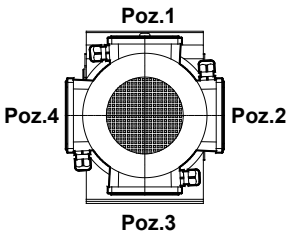






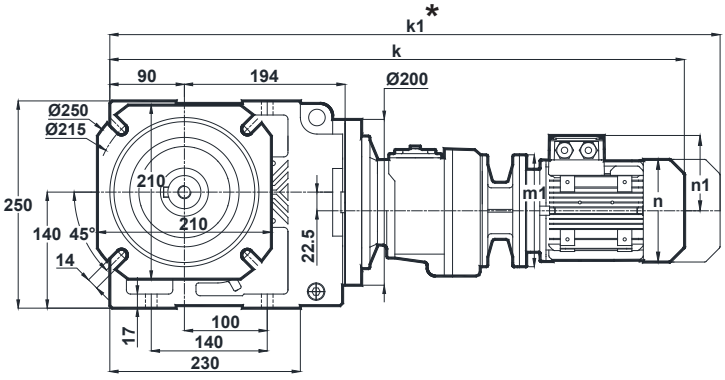
	63/B5 63/B14	71/B5 71/B14
k	686	705.5
k1	747	796.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105

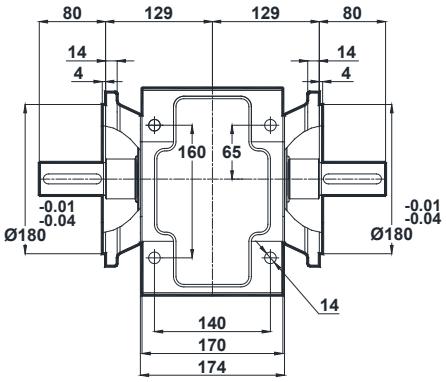
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

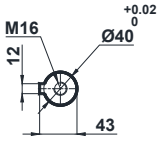


63-71
Tip / *Type* / Typ

KV375.05
KV376.05







	63/B5 63/B14	71/B5 71/B14
k	686	705.5
k1	747	796.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105

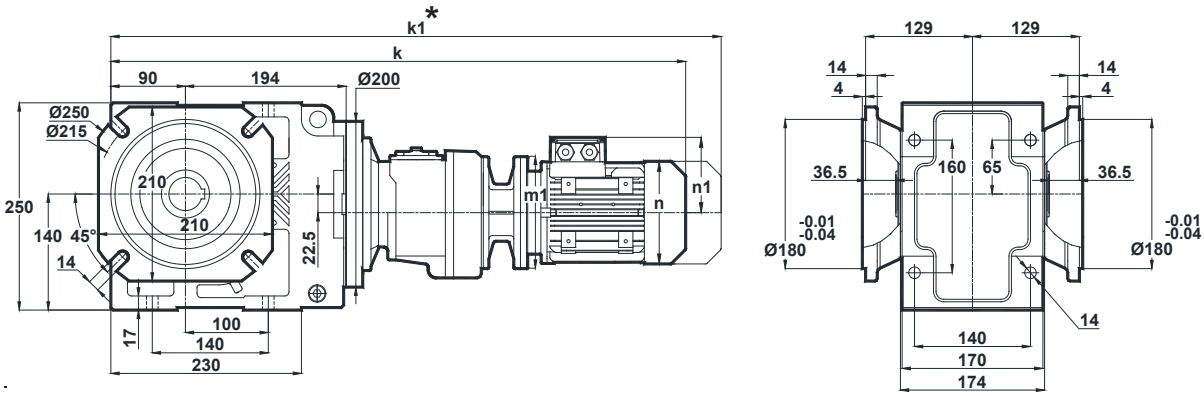
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

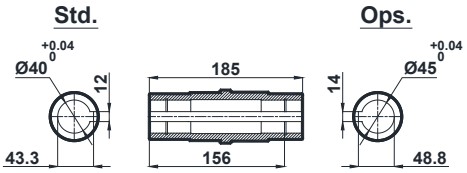
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

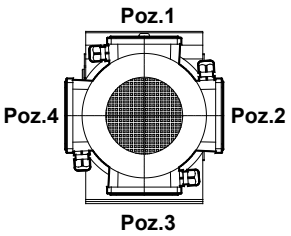
KV375.08
KV376.08





	63/B5 63/B14	71/B5 71/B14
k	686	705.5
k1	747	796.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	90	105

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



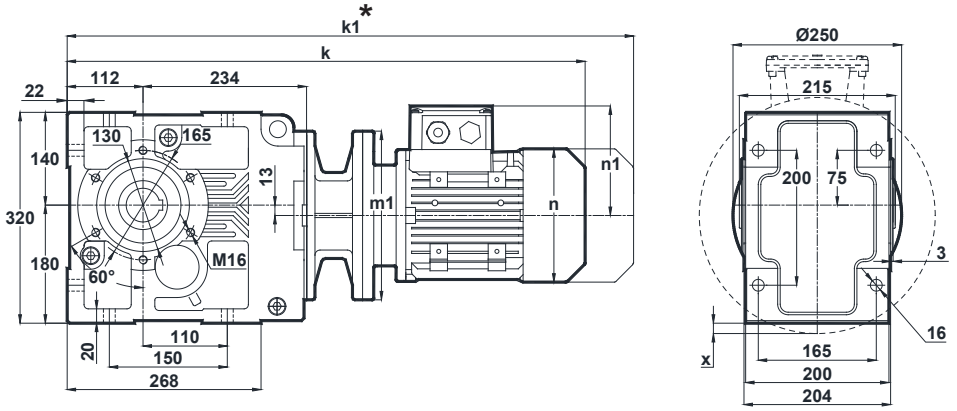
63-71
Tip / *Type* / Typ

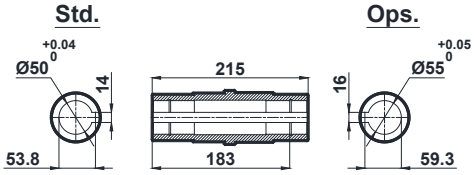
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV473.00

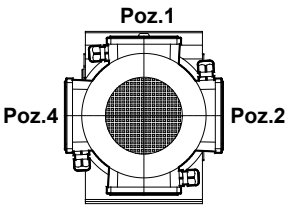




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

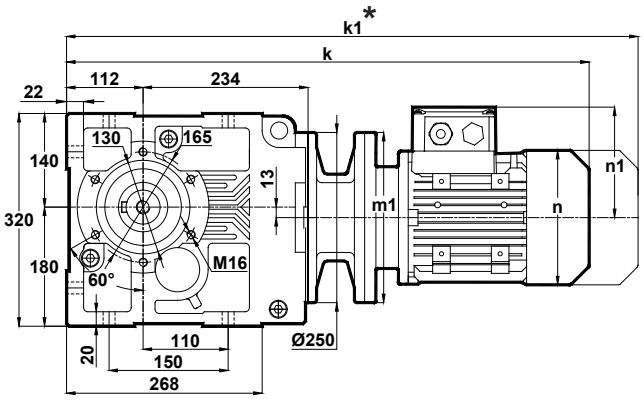
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	636.5	677.5	677.5	731.5	752	854.5	854.5	1014	1014	1102	1102
k1	729.5	781	781	840	856.5	984.5	984.5	1162	1162	1260.5	1260.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	200	200	200	250	250	300	300	350	350	350	350
m1 (B14)	-	140	140	160	160	200	200	-	-	-	-
x	-	-	-	-	-	-	-	8	8	8	8

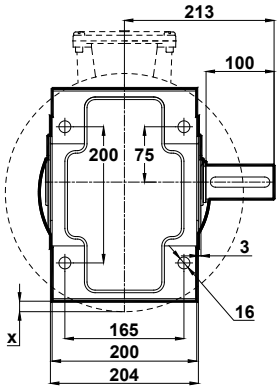
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

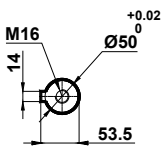


80-90-100-112-132-160-180
Tip / *Type* / Typ

KV473.01



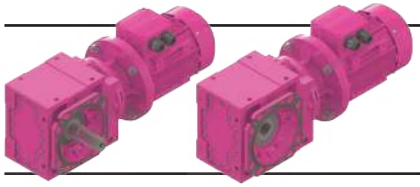




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	636.5	677.5	677.5	731.5	752	854.5	854.5	1014	1014	1102	1102
k1	729.5	781	781	840	856.5	984.5	984.5	1162	1162	1260.5	1260.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	200	200	200	250	250	300	300	350	350	350	350
m1 (B14)	-	140	140	160	160	200	200	-	-	-	-
x	-	-	-	-	-	-	-	8	8	8	8

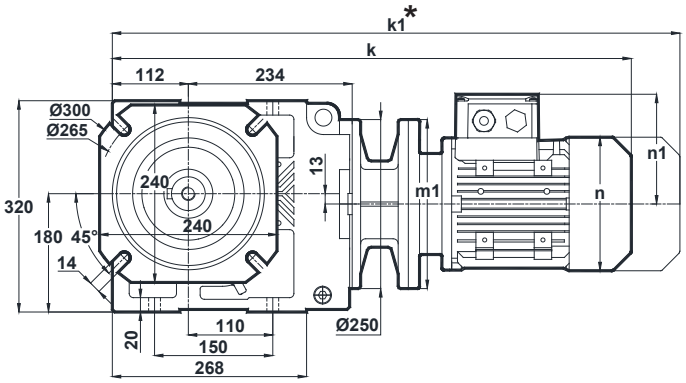
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

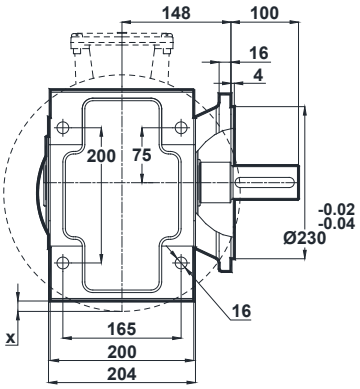


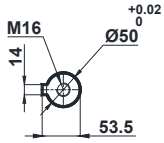
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV473.02



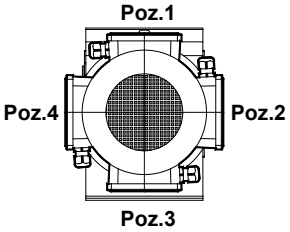




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	636.5	677.5	677.5	731.5	752	854.5	854.5	1014	1014	1102	1102
k1	729.5	781	781	840	856.5	984.5	984.5	1162	1162	1260.5	1260.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	200	200	200	250	250	300	300	350	350	350	350
m1 (B14)	-	140	140	160	160	200	200	-	-	-	-
x	-	-	-	-	-	-	-	8	8	8	8

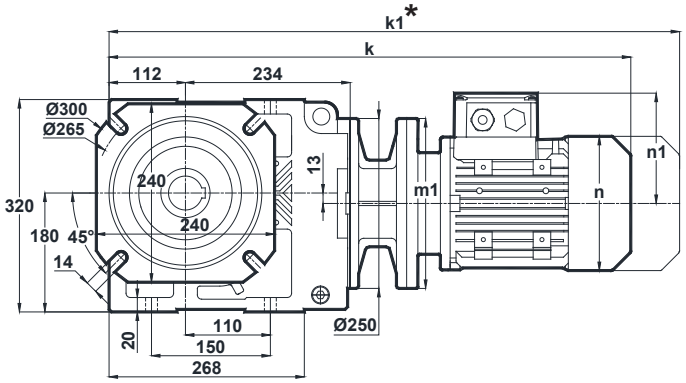
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

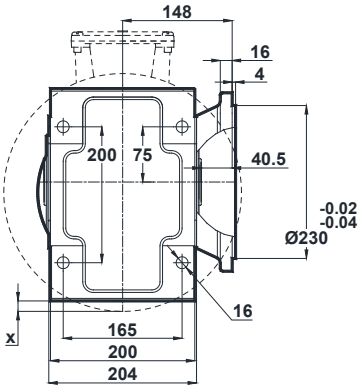


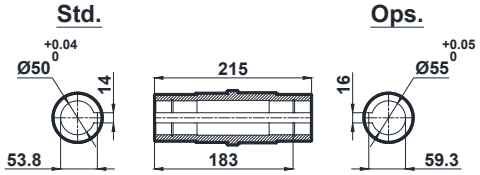
80-90-100-112-132-160-180
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV473.03





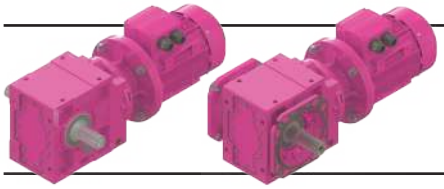


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	636.5	677.5	677.5	731.5	752	854.5	854.5	1014	1014	1102	1102
k1	729.5	781	781	840	856.5	984.5	984.5	1162	1162	1260.5	1260.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	200	200	200	250	250	300	300	350	350	350	350
m1 (B14)	-	140	140	160	160	200	200	-	-	-	-
x	-	-	-	-	-	-	-	8	8	8	8

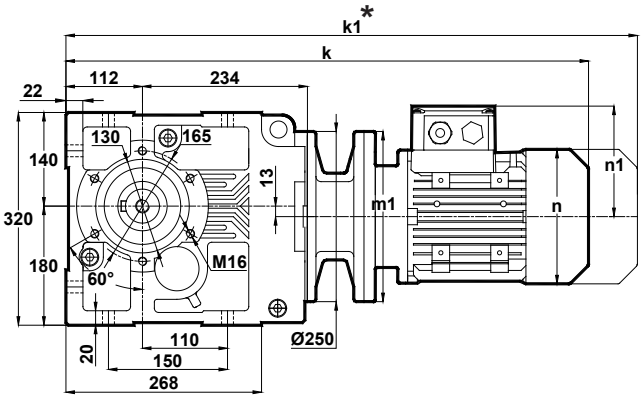
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

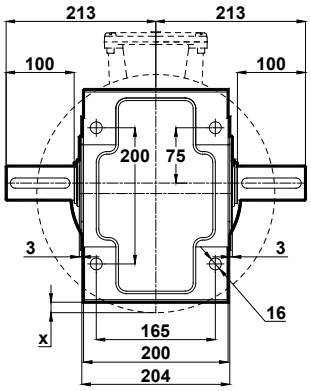
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



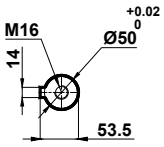
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV473.04

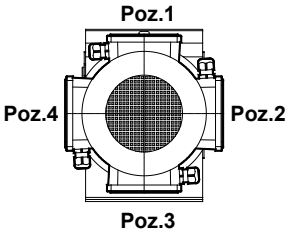




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



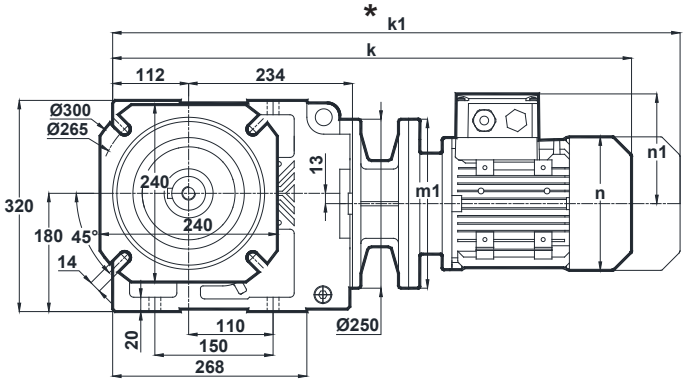
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

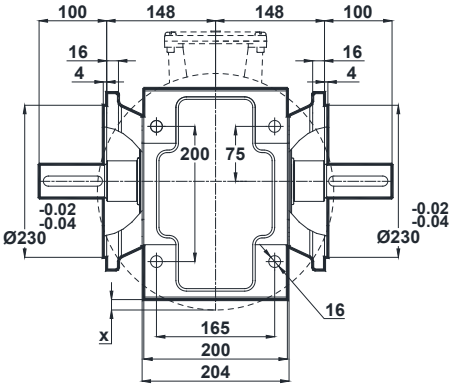


80-90-100-112-132-160-180
Tip / *Type* / Typ

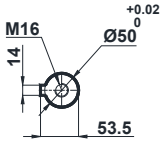
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	636.5	677.5	677.5	731.5	752	854.5	854.5	1014	1014	1102	1102
k1	729.5	781	781	840	856.5	984.5	984.5	1162	1162	1260.5	1260.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	200	200	200	250	250	300	300	350	350	350	350
m1 (B14)	-	140	140	160	160	200	200	-	-	-	-
x	-	-	-	-	-	-	-	8	8	8	8

KV473.05





x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

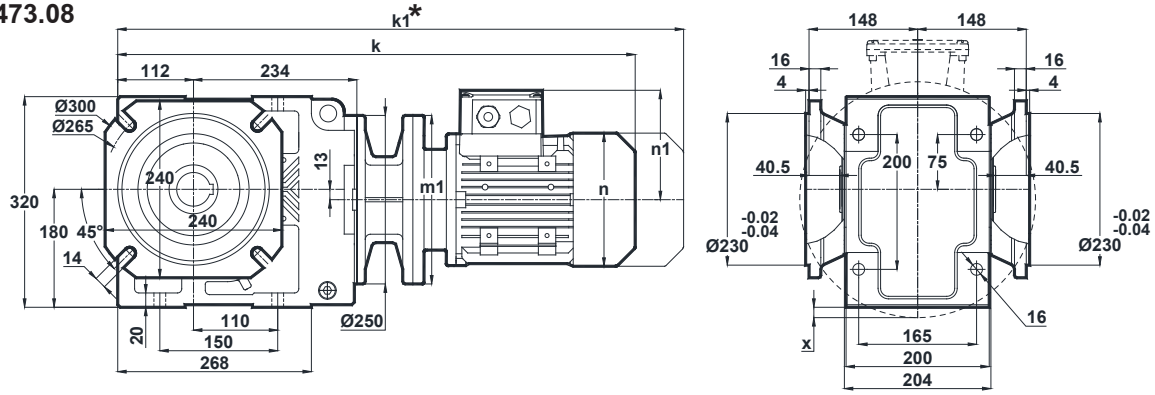
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	636.5	677.5	677.5	731.5	752	854.5	854.5	1014	1014	1102	1102
k1	729.5	781	781	840	856.5	984.5	984.5	1162	1162	1260.5	1260.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	200	200	200	250	250	300	300	350	350	350	350
m1 (B14)	-	140	140	160	160	200	200	-	-	-	-
x	-	-	-	-	-	-	-	8	8	8	8

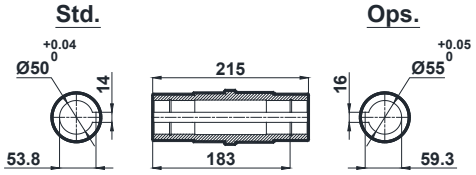
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV473.08

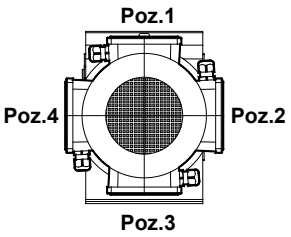




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	636.5	677.5	677.5	731.5	752	854.5	854.5	1014	1014	1102	1102
k1	729.5	781	781	840	856.5	984.5	984.5	1162	1162	1260.5	1260.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	200	200	200	250	250	300	300	350	350	350	350
m1 (B14)	-	140	140	160	160	200	200	-	-	-	-
x	-	-	-	-	-	-	-	8	8	8	8

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



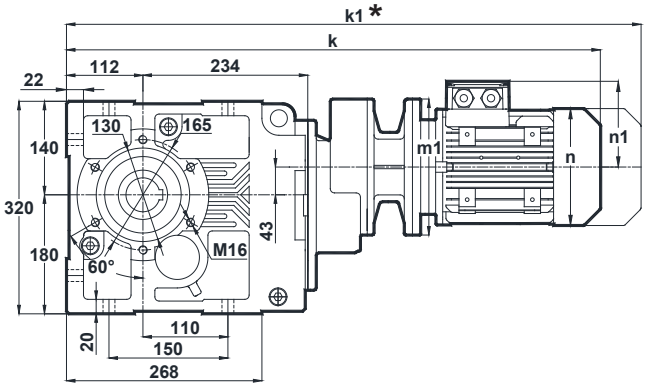
80-90-100-112-132-160-180
Tip / *Type* **/** Typ

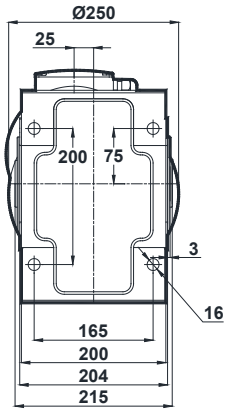
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

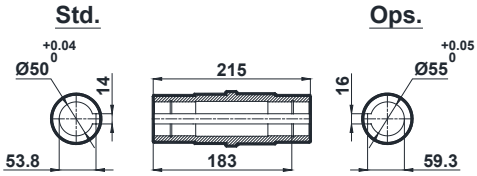
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

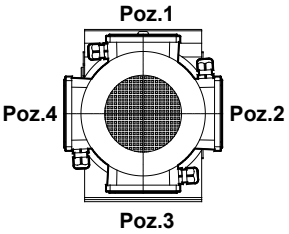
KV474.00







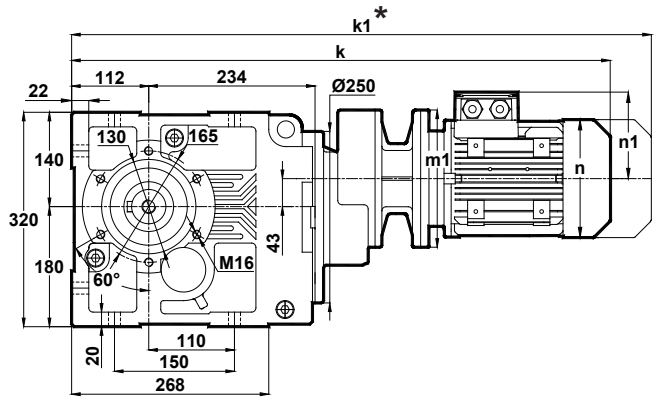
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

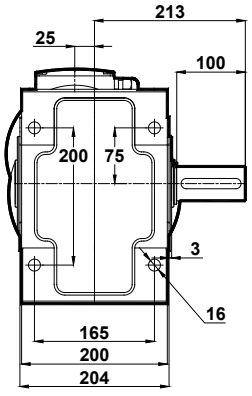


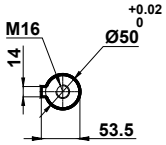
71-80
Tip / *Type* / Typ

	71/B5	80/B5 80/B14
k	711.5	734.5
k1	802.5	827.5
n / n1	137 / 112	155 / 123
m1 (B5)	160	200
m1 (B14)	-	120

KV474.01

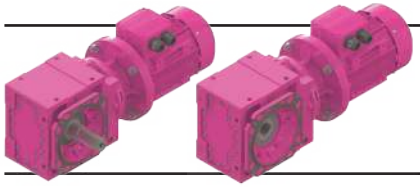






	71/B5	80/B5 80/B14
k	711.5	734.5
k1	802.5	827.5
n / n1	137 / 112	155 / 123
m1 (B5)	160	200
m1 (B14)	-	120

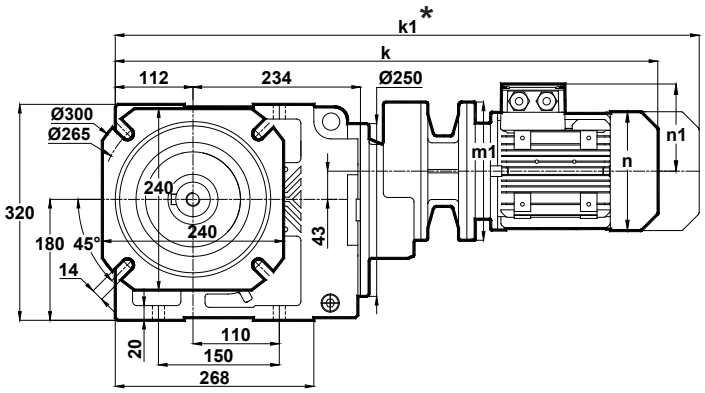
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

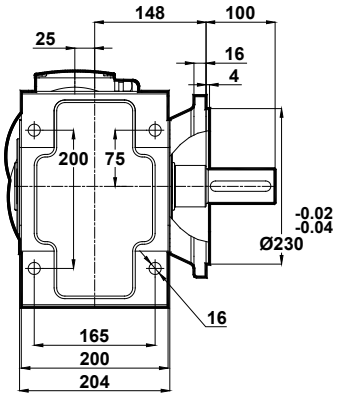


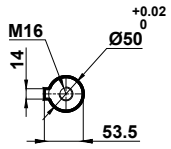
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV474.02

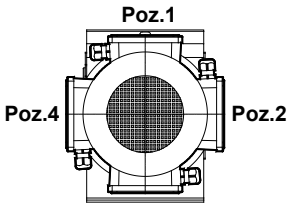






	71/B5	80/B5 80/B14
k	711.5	734.5
k1	802.5	827.5
n / n1	137 / 112	155 / 123
m1 (B5)	160	200
m1 (B14)	-	120

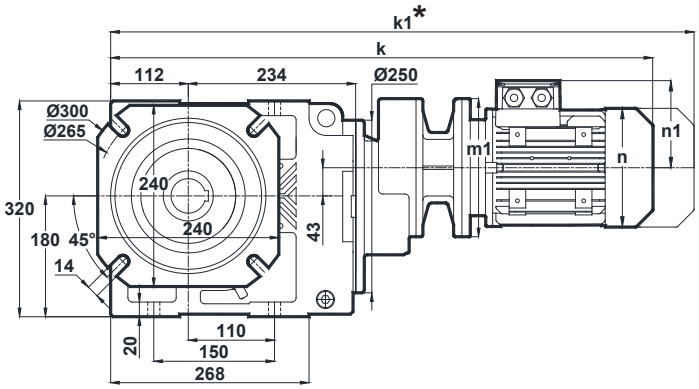
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

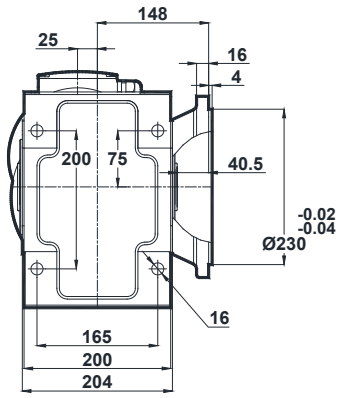


71-80
Tip / *Type* / Typ

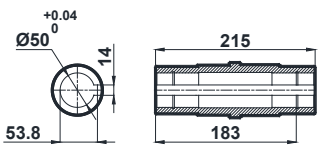
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV474.03

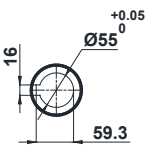




Std.



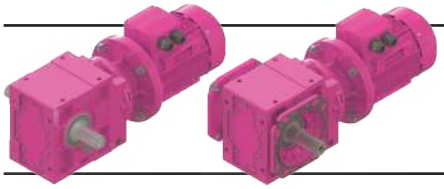
Ops.



	71/B5	80/B5 80/B14
k	711.5	734.5
k1	802.5	827.5
n / n1	137 / 112	155 / 123
m1 (B5)	160	200
m1 (B14)	-	120

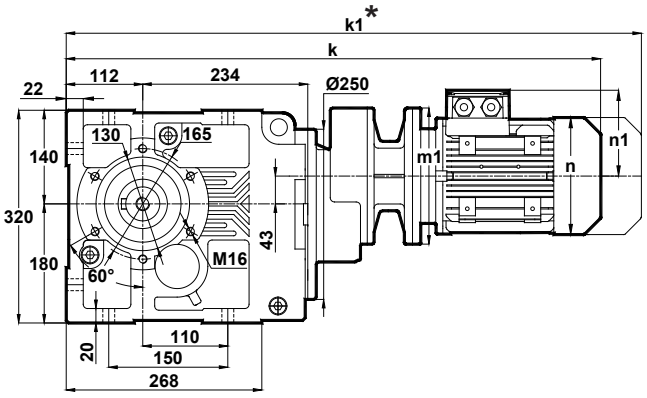
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

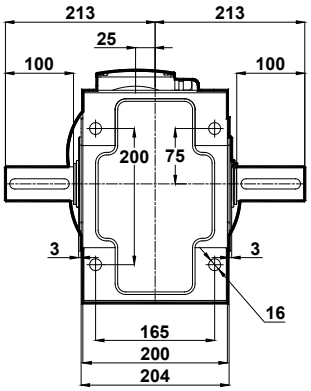
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

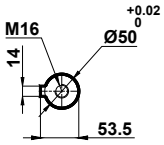


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV474.04

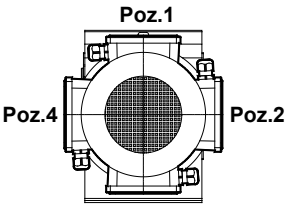






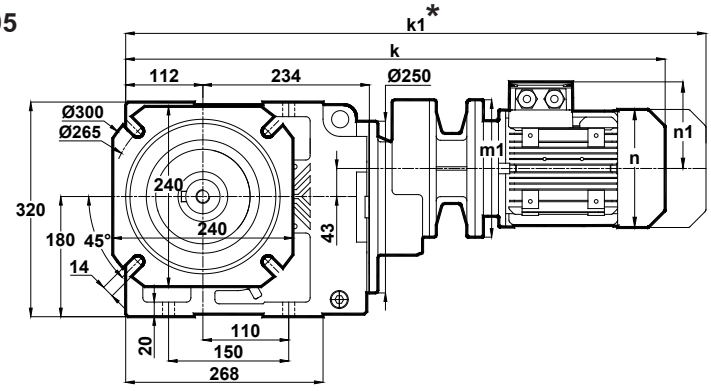
	71/B5	80/B5 80/B14
k	711.5	734.5
k1	802.5	827.5
n / n1	137 / 112	155 / 123
m1 (B5)	160	200
m1 (B14)	-	120

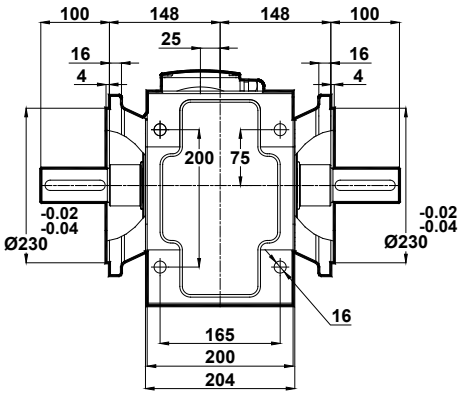
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

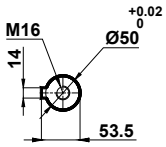


71-80
Tip / *Type* / Typ

KV474.05







	71/B5	80/B5 80/B14
k	711.5	734.5
k1	802.5	827.5
n / n1	137 / 112	155 / 123
m1 (B5)	160	200
m1 (B14)	-	120

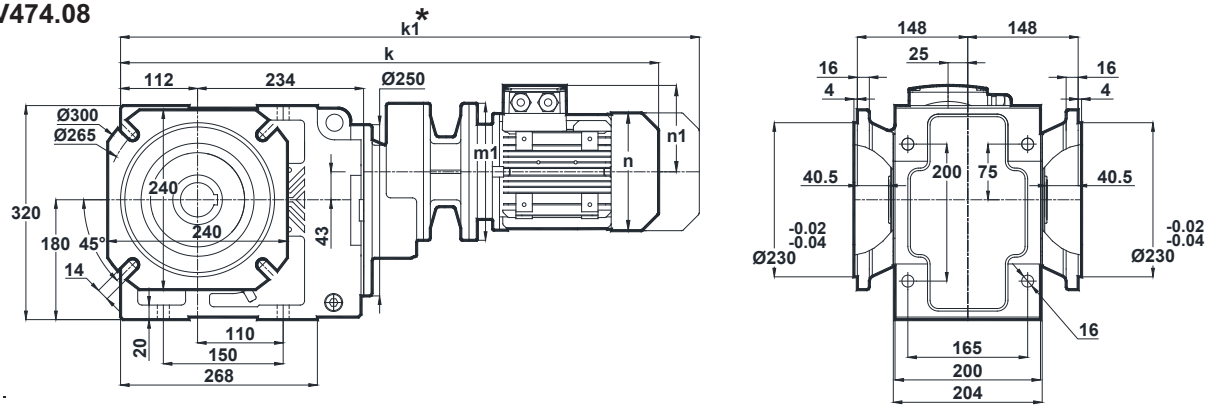
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

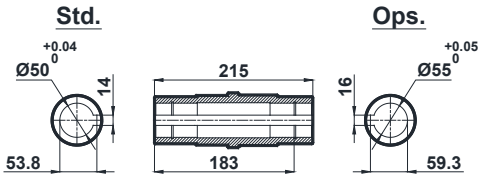
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

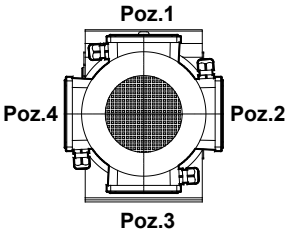
KV474.08





	71/B5	80/B5 80/B14
k	711.5	734.5
k1	802.5	827.5
n / n1	137 / 112	155 / 123
m1 (B5)	160	200
m1 (B14)	-	120

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



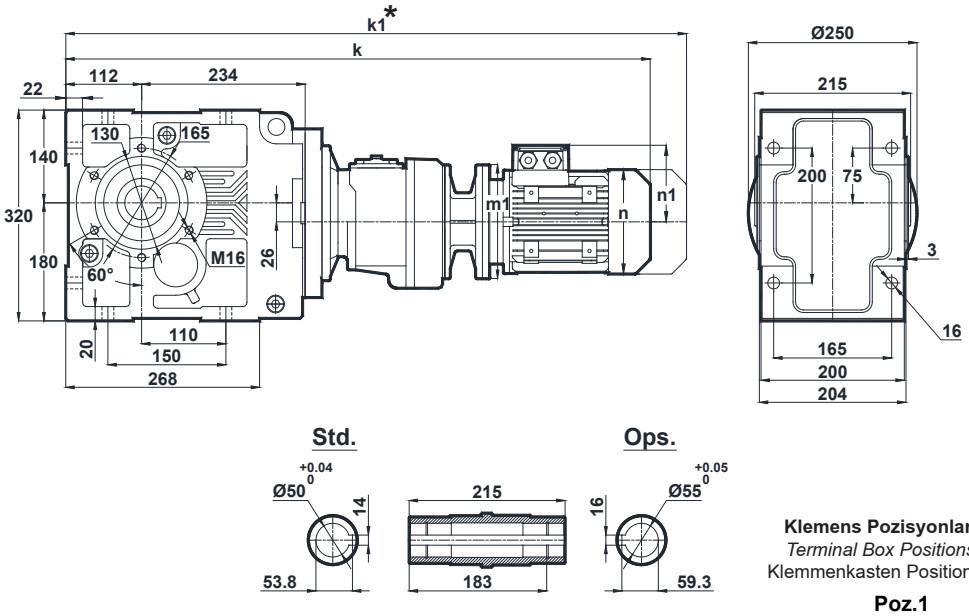
71-80
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

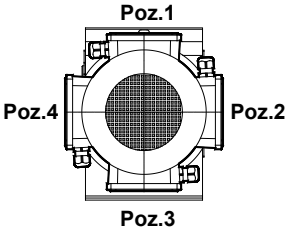
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV475.00
KV476.00



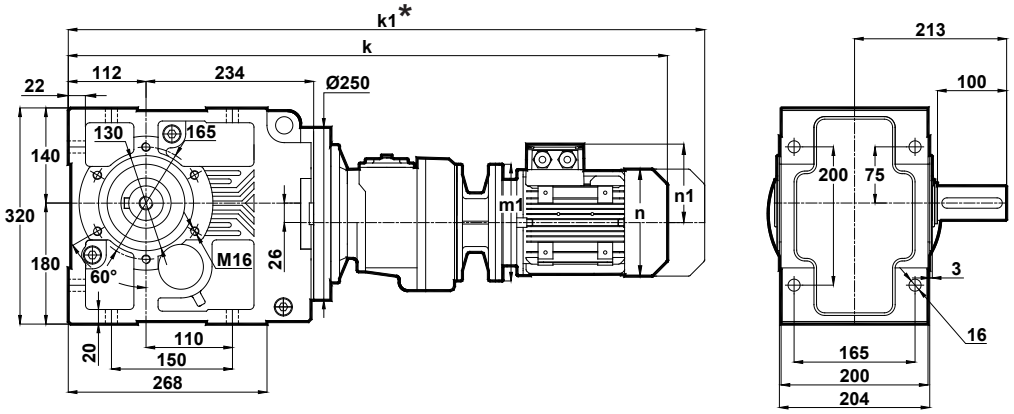
	63/B5	71/B5 71/B14
k	821.5	810.5
k1	882.5	901.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	-	105

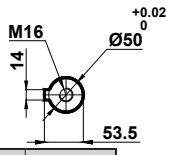
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tip / *Type* / Typ

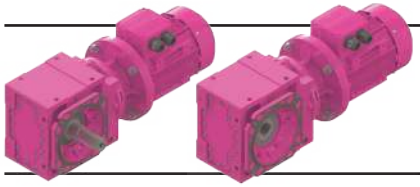
KV475.01
KV476.01





	63/B5	71/B5 71/B14
k	821.5	810.5
k1	882.5	901.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	-	105

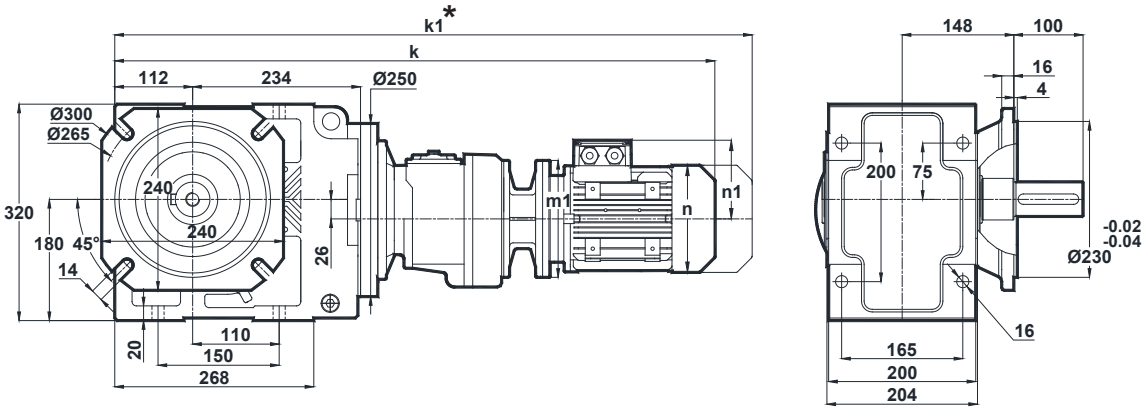
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

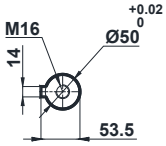


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

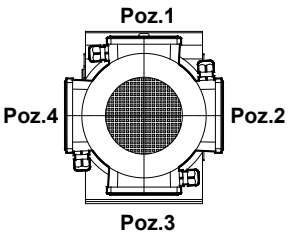
KV475.02
KV476.02





	63/B5	71/B5 71/B14
k	821.5	810.5
k1	882.5	901.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	-	105

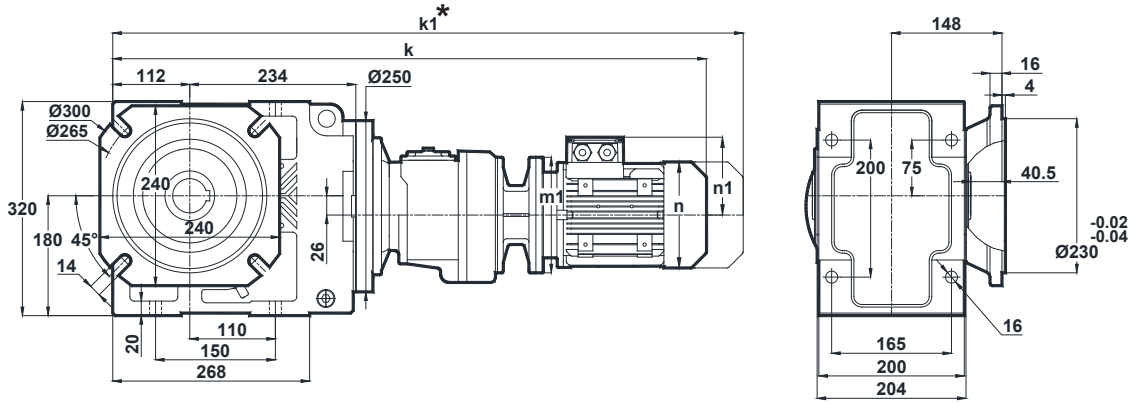
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



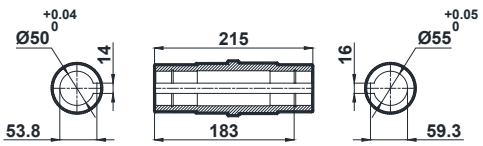
63-71
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV475.03
KV476.03



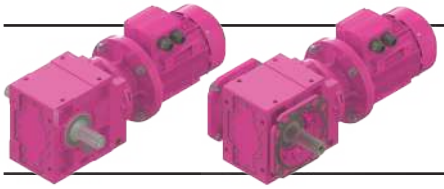
Std. **Ops.**



	63/B5	71/B5 71/B14
k	821.5	810.5
k1	882.5	901.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	-	105

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

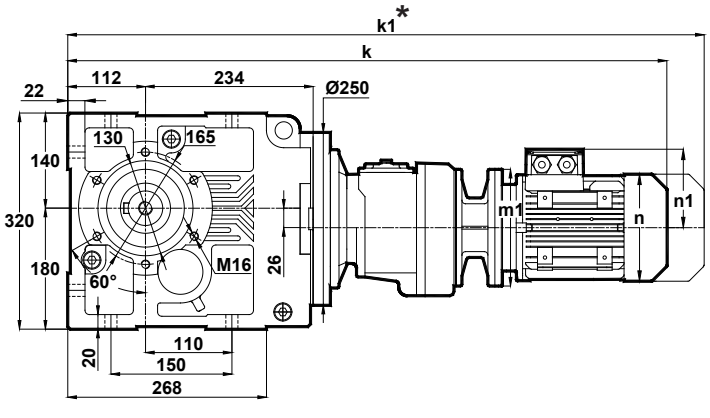
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

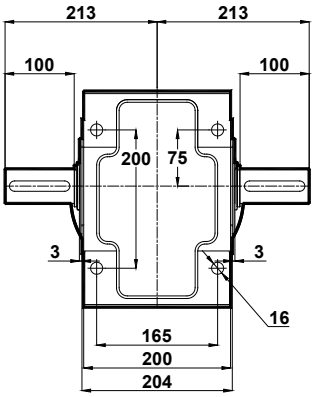


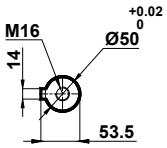
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV475.04
KV476.04

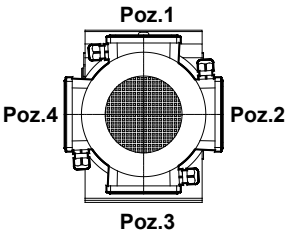






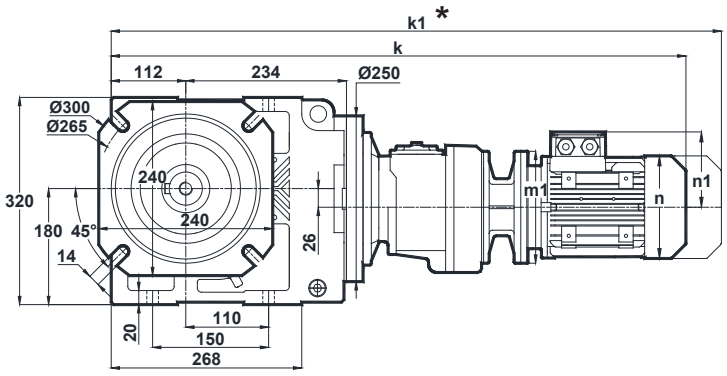
	63/B5	71/B5 71/B14
k	821.5	810.5
k1	882.5	901.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	-	105

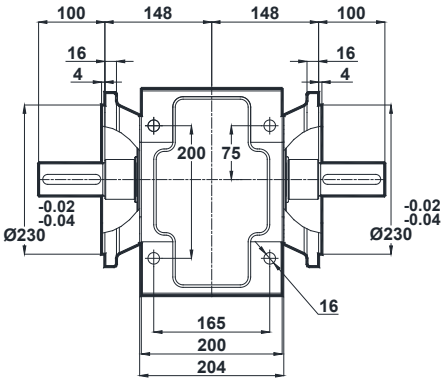
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

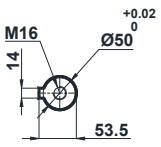


63-71
Tip / *Type* / Typ

KV475.05
KV476.05







	63/B5	71/B5 71/B14
k	821.5	810.5
k1	882.5	901.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	-	105

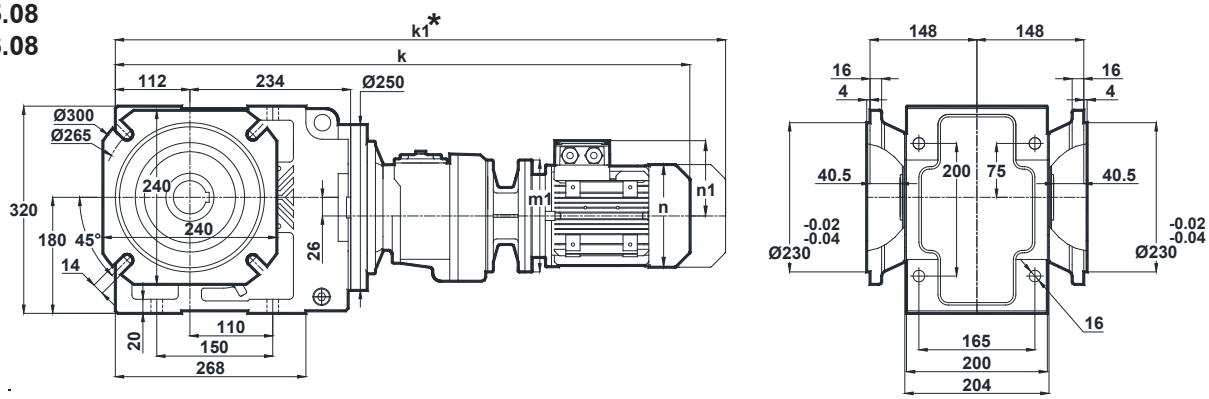
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

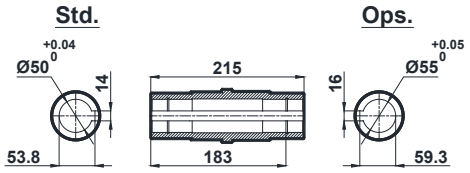
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

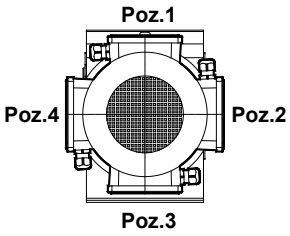
KV475.08
KV476.08





	63/B5	71/B5 71/B14
k	821.5	810.5
k1	882.5	901.5
n / n1	121 / 97	137 / 112
m1 (B5)	140	160
m1 (B14)	-	105

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



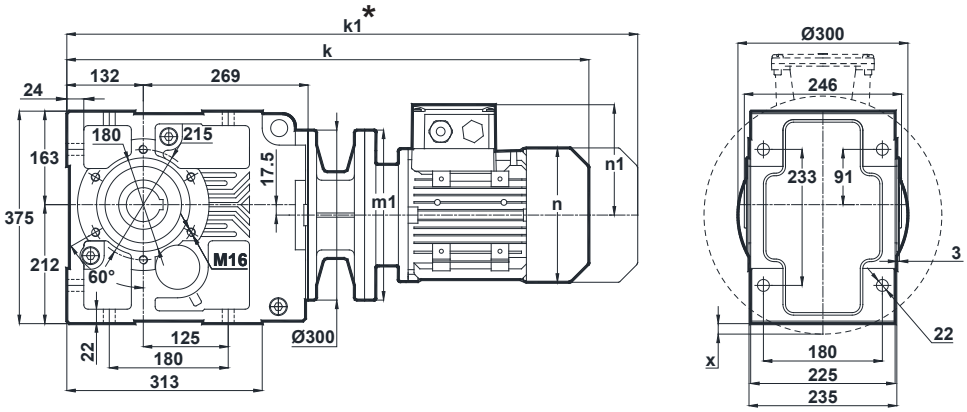
63-71
Tip / *Type* / Typ

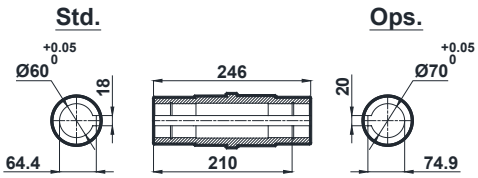
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

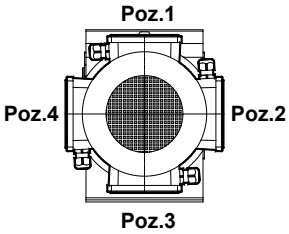
KV573.00





x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

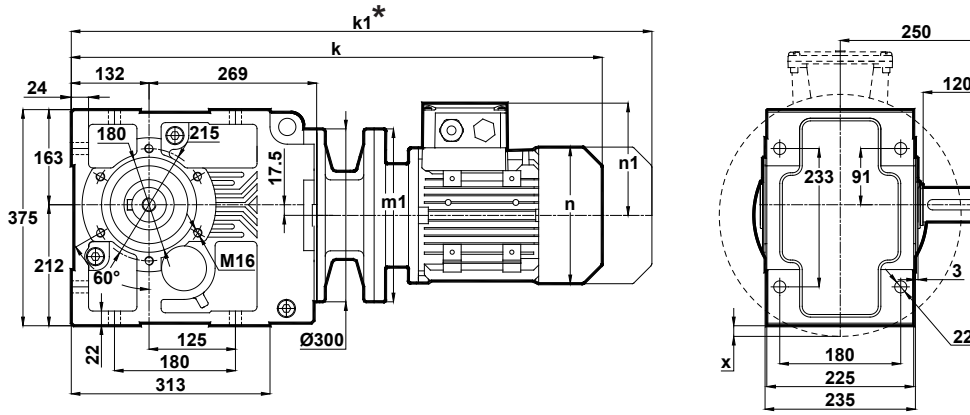
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

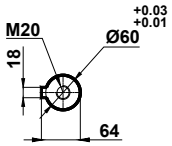


100-112-132-160-180
Tip / *Type* / Typ

	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	784	804.5	909.5	909.5	1065	1065	1153	1153
k1	892.5	909	1039.5	1039.5	1213	1213	1311.5	1311.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-
x	-	-	-	-	-	-	-	5,5

KV573.01

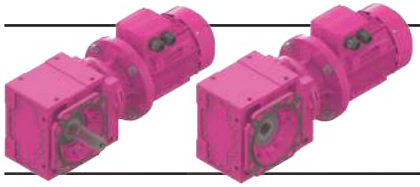




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	784	804.5	909.5	909.5	1065	1065	1153	1153
k1	892.5	909	1039.5	1039.5	1213	1213	1311.5	1311.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-
x	-	-	-	-	-	-	-	5,5

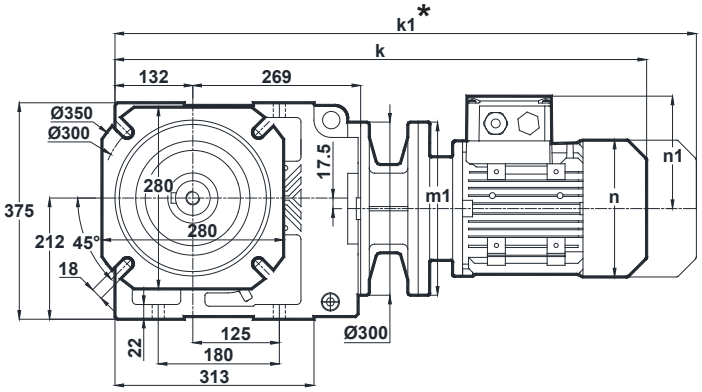
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

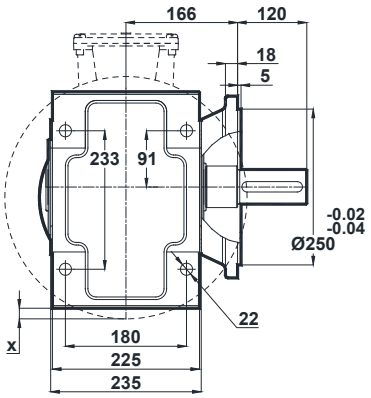


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

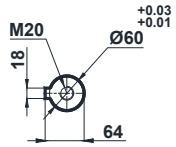
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV573.02

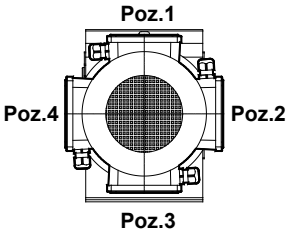




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

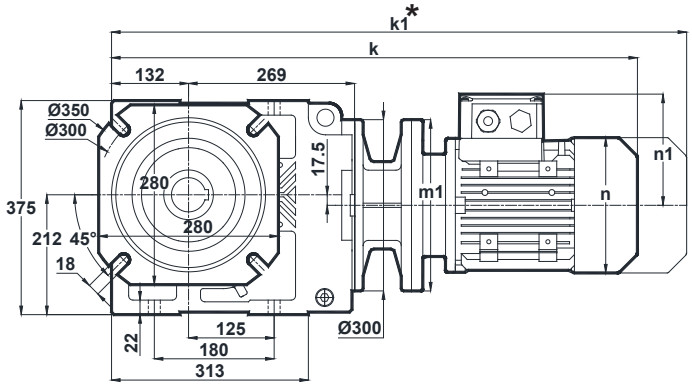


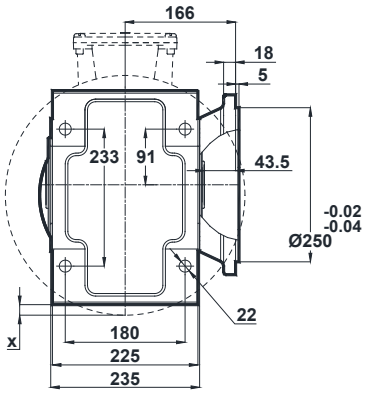
100-112-132-160-180
Tip / *Type* / Typ

	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	784	804.5	909.5	909.5	1065	1065	1153	1153
k1	892.5	909	1039.5	1039.5	1213	1213	1311.5	1311.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-
x	-	-	-	-	-	-	-	5,5

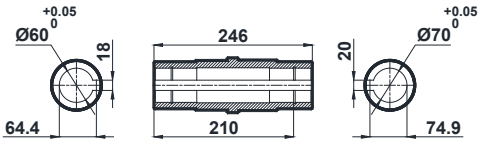
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV573.03





Std. **Ops.**

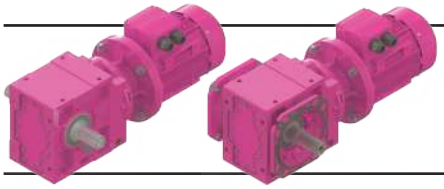


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	784	804.5	909.5	909.5	1065	1065	1153	1153
k1	892.5	909	1039.5	1039.5	1213	1213	1311.5	1311.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-
x	-	-	-	-	-	-	-	5,5

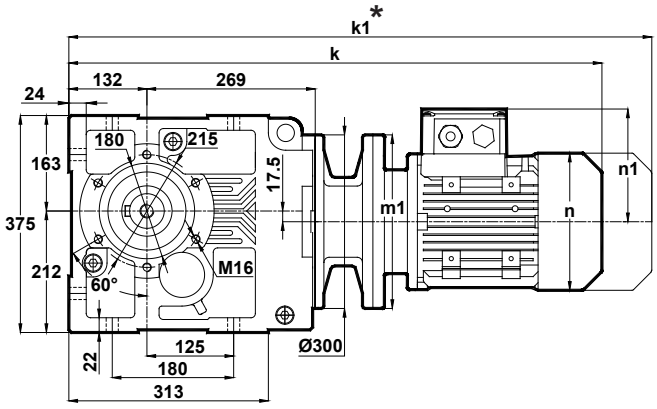
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

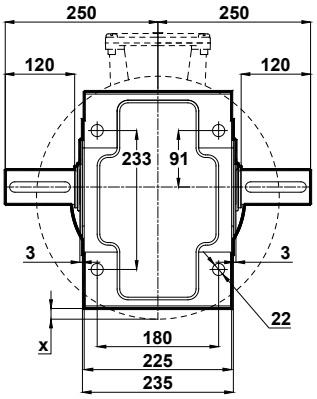
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



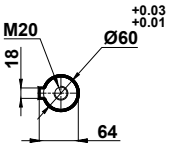
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV573.04

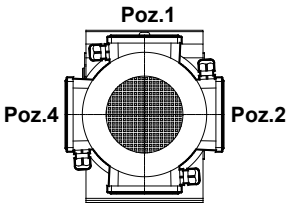




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



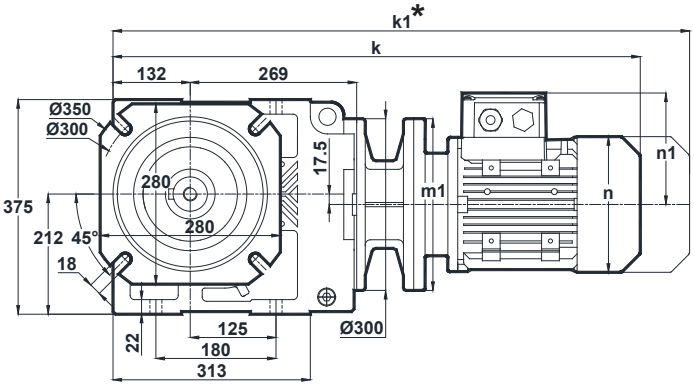
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

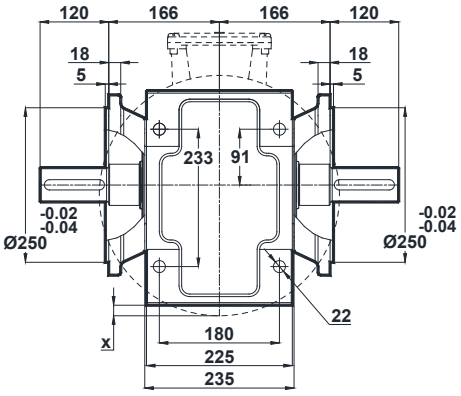


100-112-132-160-180
Tip / *Type* / Typ

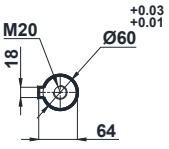
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	784	804.5	909.5	909.5	1065	1065	1153	1153
k1	892.5	909	1039.5	1039.5	1213	1213	1311.5	1311.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-
x	-	-	-	-	-	-	-	5,5

KV573.05





x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

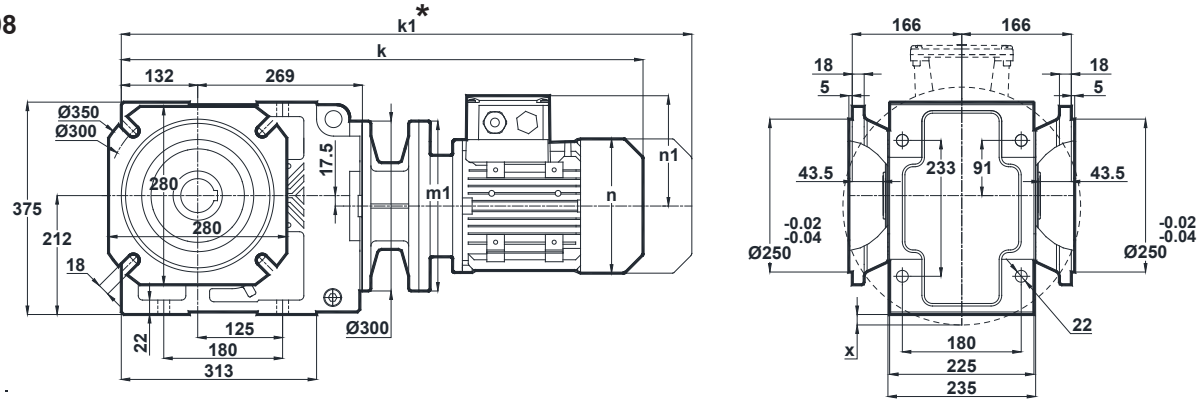
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	784	804.5	909.5	909.5	1065	1065	1153	1153
k1	892.5	909	1039.5	1039.5	1213	1213	1311.5	1311.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-
x	-	-	-	-	-	-	-	5,5

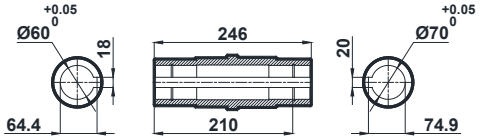
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV573.08

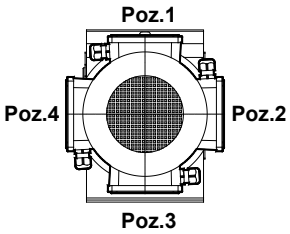




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower than foot mounting plane
x: Wenn der Motor unter der Fußmontageebene ist

	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	784	804.5	909.5	909.5	1065	1065	1153	1153
k1	892.5	909	1039.5	1039.5	1213	1213	1311.5	1311.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-
x	-	-	-	-	-	-	-	5,5

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



100-112-132-160-180
Tip / *Type* / Typ

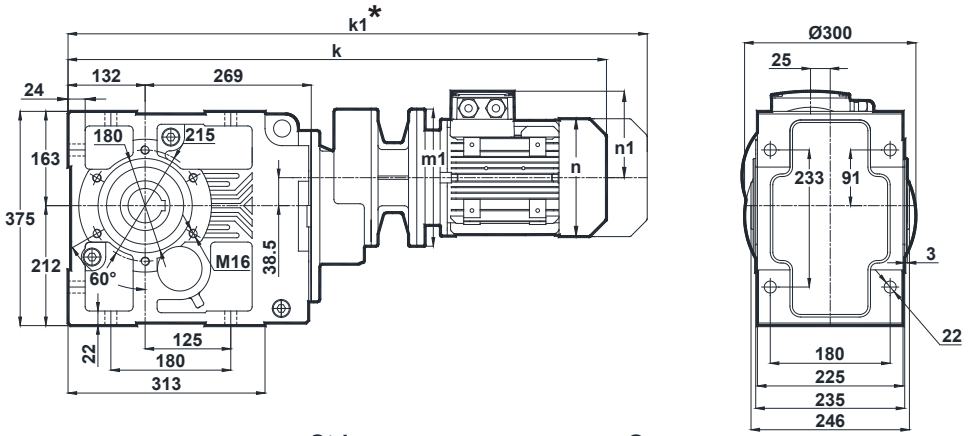
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

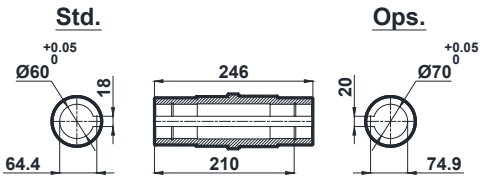
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

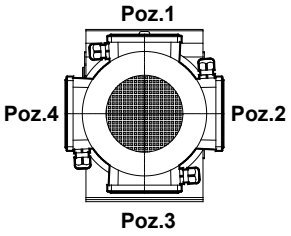
KV574.00





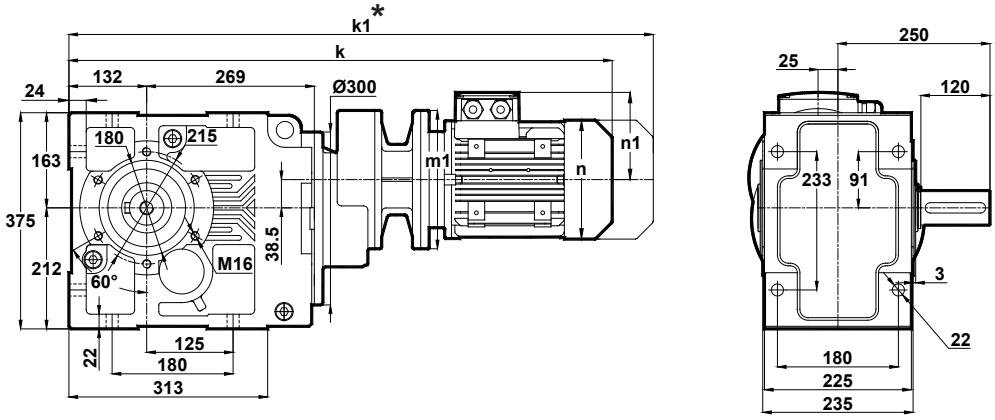
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5
k	764.5	787.5	828.5	828.5	881
k1	855.5	880.5	932	932	989.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	-

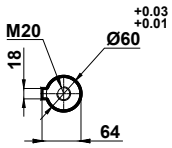
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80-90-100
Tip / *Type* / Typ

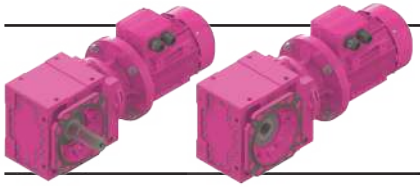
KV574.01





	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5
k	764.5	787.5	828.5	828.5	881
k1	855.5	880.5	932	932	989.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	-

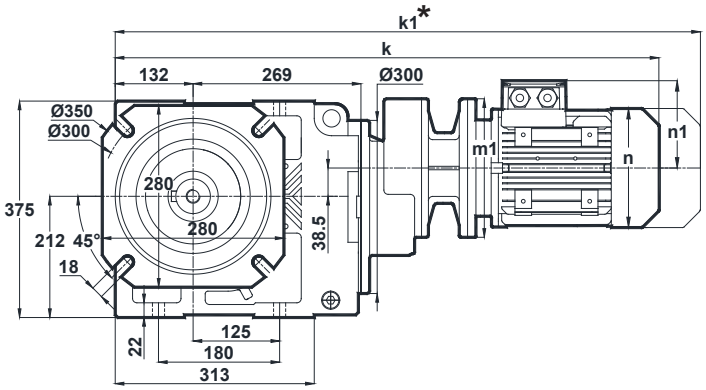
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

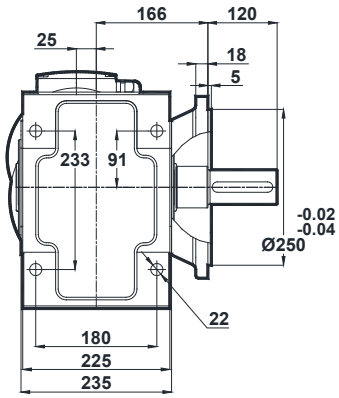


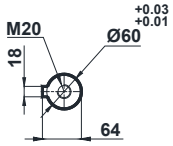
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

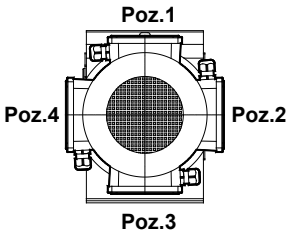
KV574.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

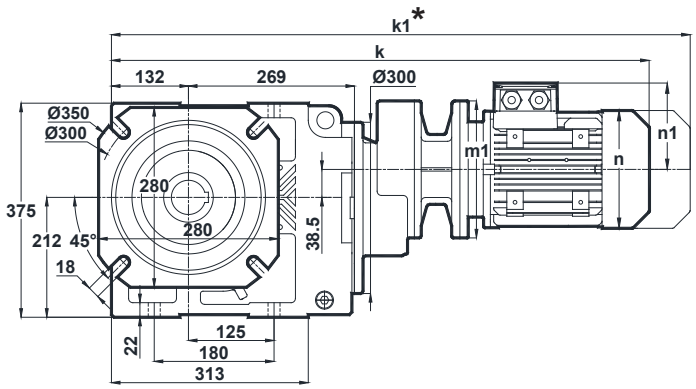


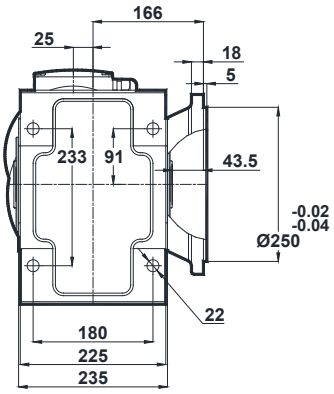
71-80-90-100
Tip / *Type* / Typ

	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5
k	764.5	787.5	828.5	828.5	881
k1	855.5	880.5	932	932	989.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	-

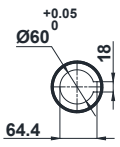
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

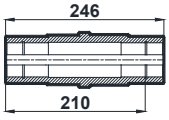
KV574.03



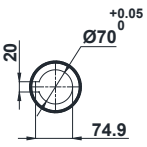


Std.





Ops.



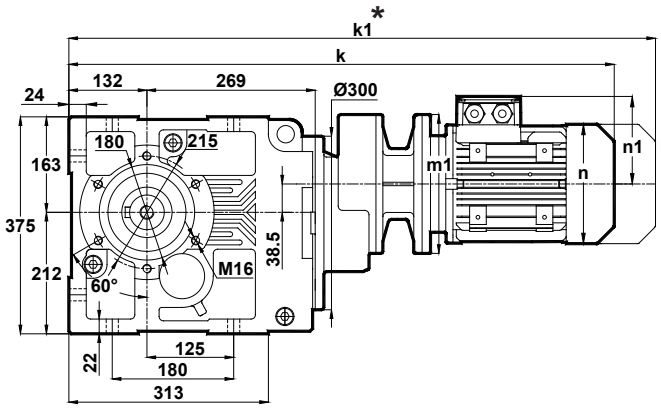
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5
k	764.5	787.5	828.5	828.5	881
k1	855.5	880.5	932	932	989.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	-

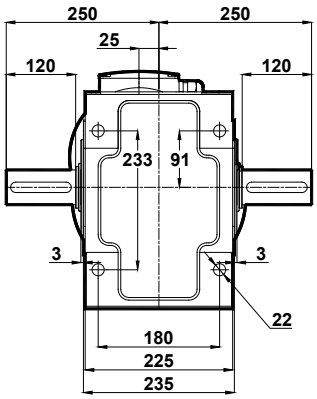
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

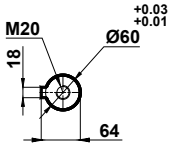
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV574.04

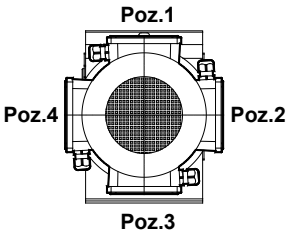






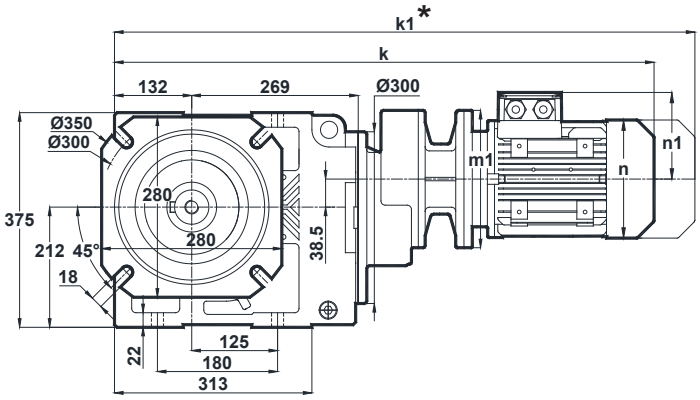
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5
k	764.5	787.5	828.5	828.5	881
k1	855.5	880.5	932	932	989.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	-

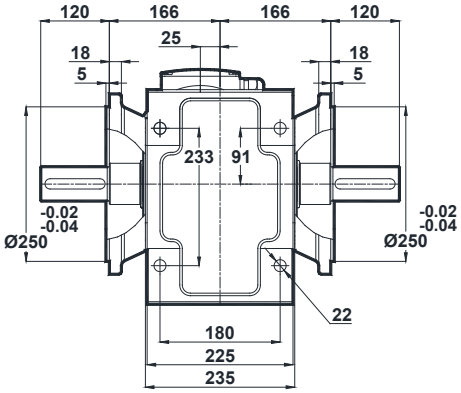
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

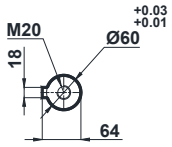


71-80-90-100
Tip / *Type* / Typ

KV574.05







Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

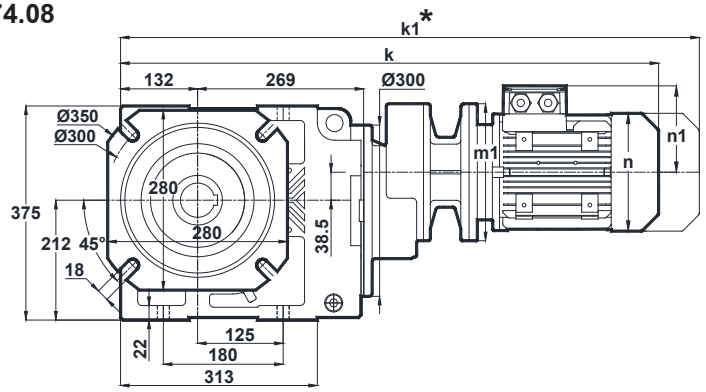
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5
k	764.5	787.5	828.5	828.5	881
k1	855.5	880.5	932	932	989.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	-

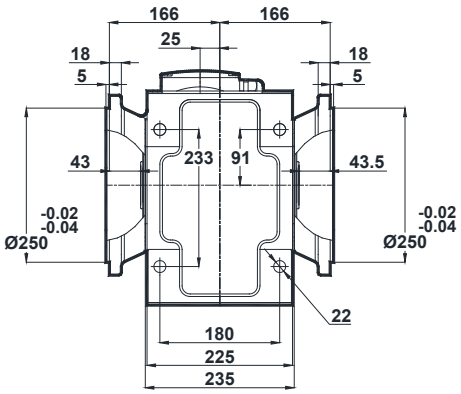
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

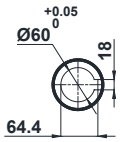
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

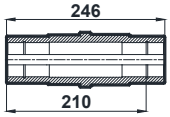
KV574.08



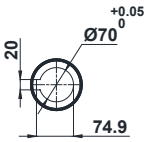


Std.



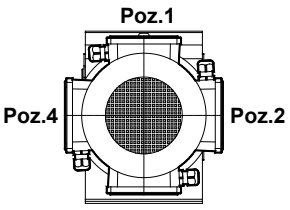


Ops.



	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5
k	764.5	787.5	828.5	828.5	881
k1	855.5	880.5	932	932	989.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



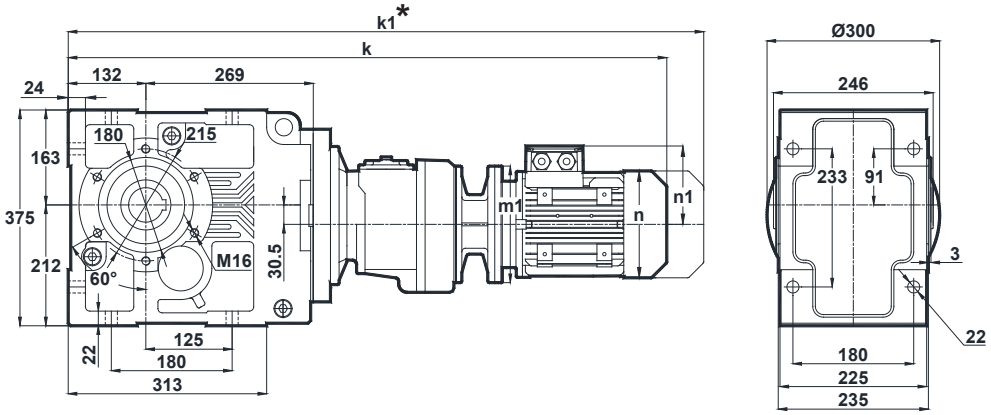
71-80-90-100
Tip / *Type* / Typ

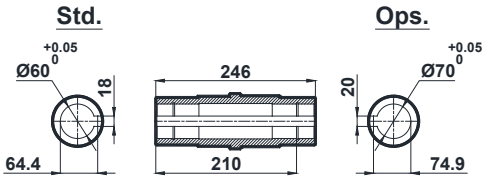
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

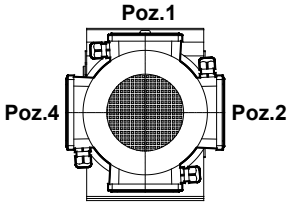
KV575.00
KV576.00





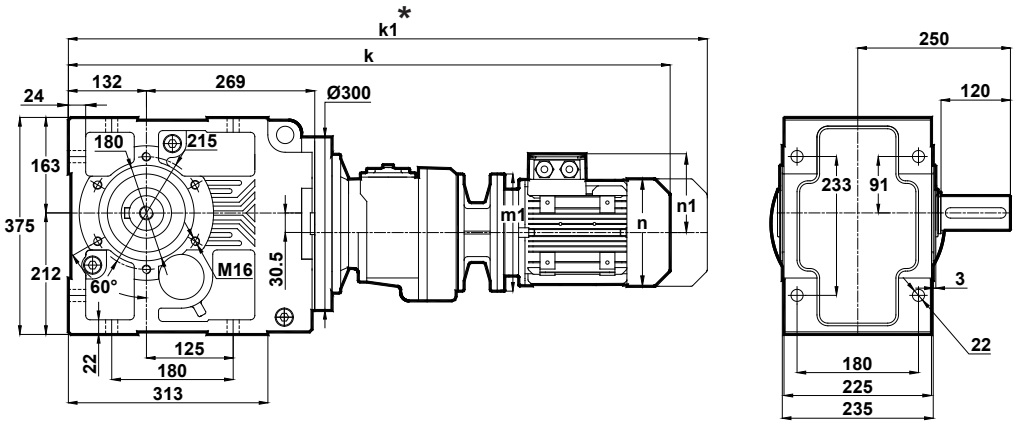
	63/B5	71/B5 71/B14	80/B5 80/B14
k	876.5	865.5	917.5
k1	937.5	956.5	1010.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

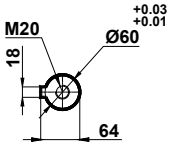
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71-80
Tip / *Type* / Typ

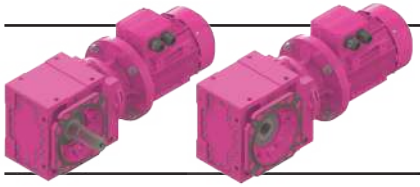
KV575.01
KV576.01





	63/B5	71/B5 71/B14	80/B5 80/B14
k	876.5	865.5	917.5
k1	937.5	956.5	1010.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

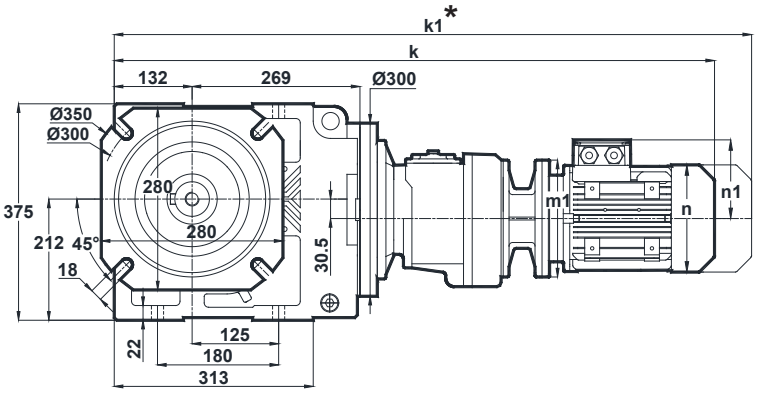
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

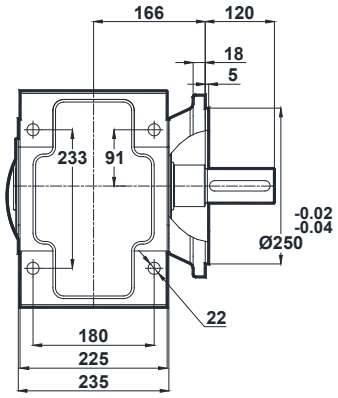


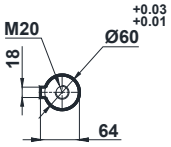
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

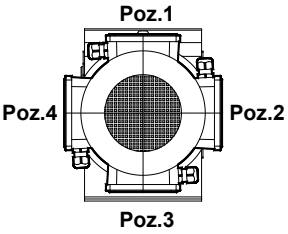
KV575.02
KV576.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

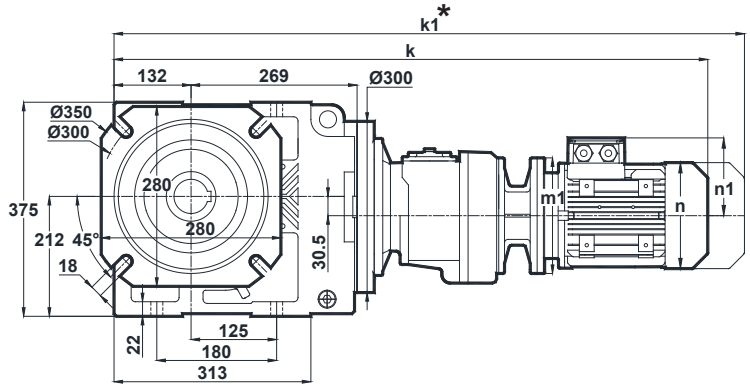


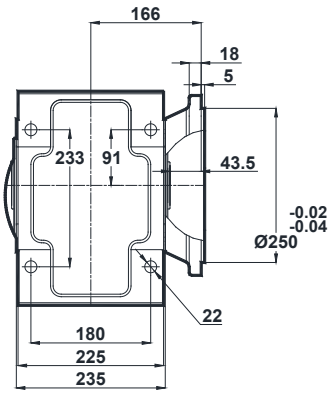
63-71-80
Tip / *Type* / Typ

	63/B5	71/B5 71/B14	80/B5 80/B14
k	876.5	865.5	917.5
k1	937.5	956.5	1010.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

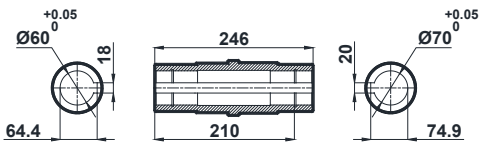
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV575.03
KV576.03





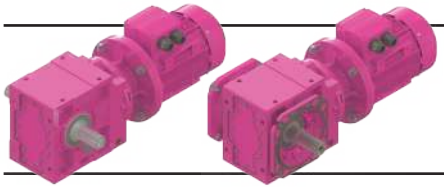
Std. **Ops.**



	63/B5	71/B5 71/B14	80/B5 80/B14
k	876.5	865.5	917.5
k1	937.5	956.5	1010.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

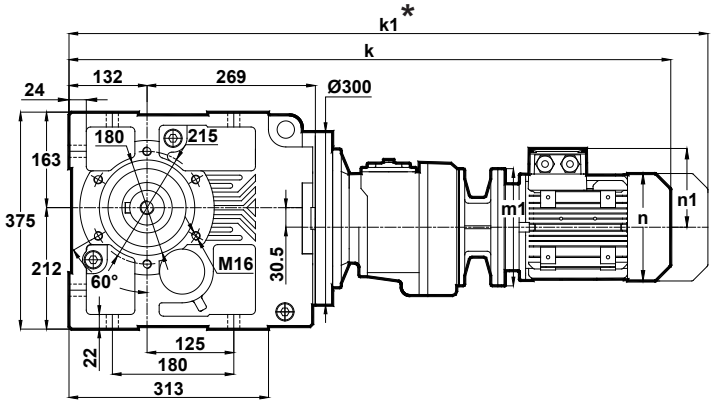
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

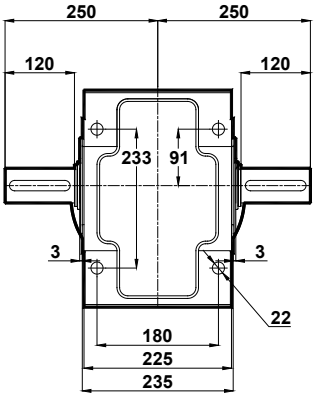
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

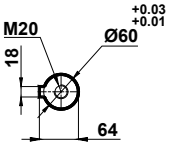


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV575.04
KV576.04

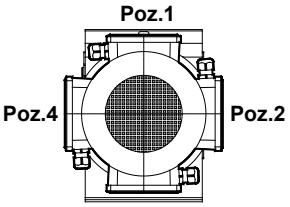






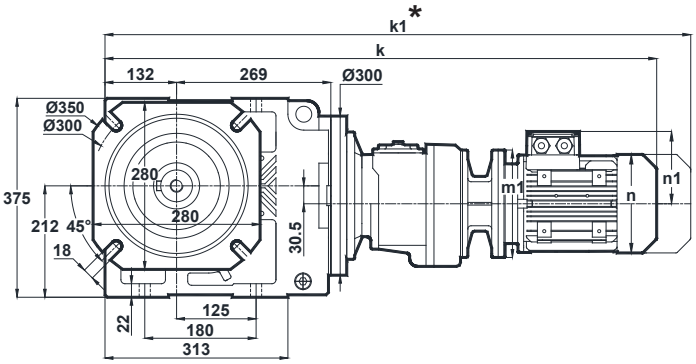
	63/B5	71/B5 71/B14	80/B5 80/B14
k	876.5	865.5	917.5
k1	937.5	956.5	1010.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

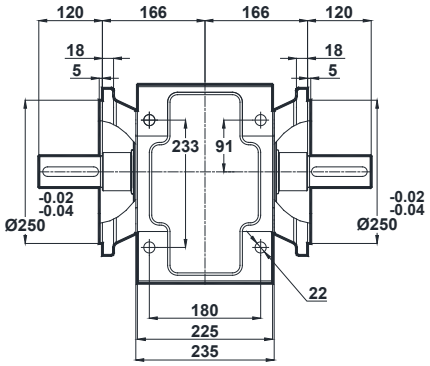
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

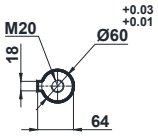


63-71-80
Tip / *Type* / Typ

KV575.05
KV576.05







Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

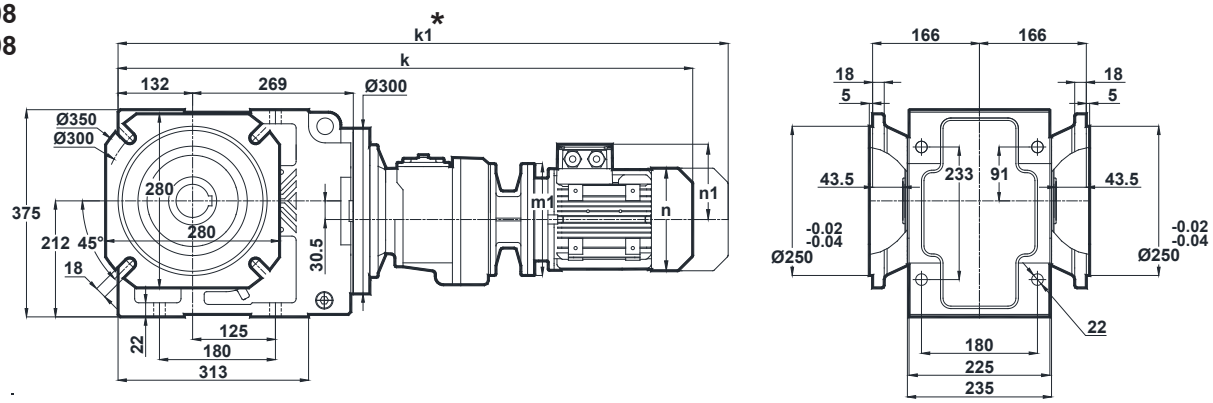
	63/B5	71/B5 71/B14	80/B5 80/B14
k	876.5	865.5	917.5
k1	937.5	956.5	1010.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

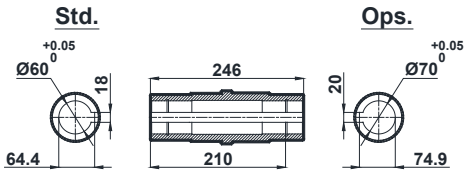
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

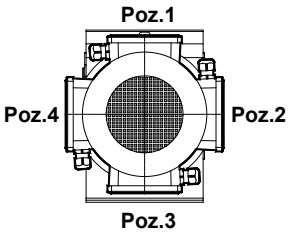
KV575.08
KV576.08





	63/B5	71/B5 71/B14	80/B5 80/B14
k	876.5	865.5	917.5
k1	937.5	956.5	1010.5
n / n1	121 / 97	137 / 112	155 / 123
m1 (B5)	140	160	200
m1 (B14)	-	105	120

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



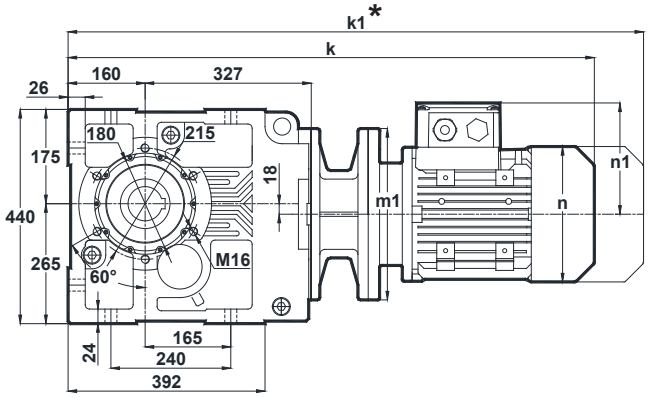
63-71-80
Tip / *Type* / Typ

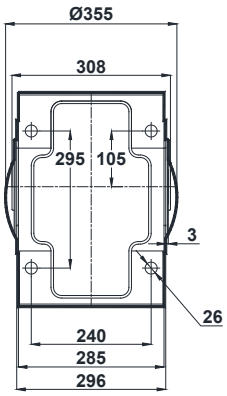
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

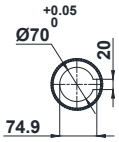
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

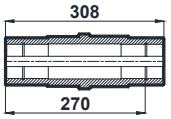
KV673.00



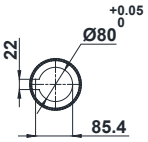


Std.



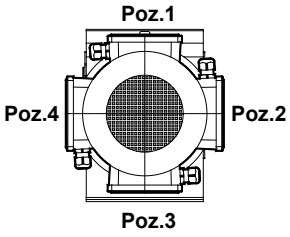


Ops.



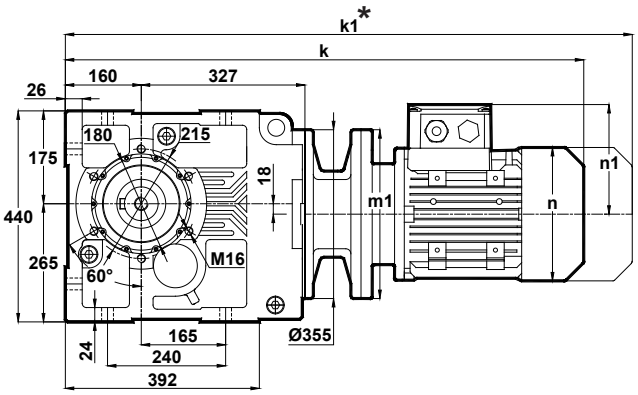
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	866	886.5	985.5	985.5	1140.5	1140.5	1228.5	1228.5	1303	1374	1399
k1	974.5	991	1115.5	1115.5	1288.5	1288.5	1387	1387	1489.5	1539	1564
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316
m1 (B5)	250	250	300	300	350	350	350	350	400	450	450
m1 (B14)	-	-	200	200	-	-	-	-	-	-	-

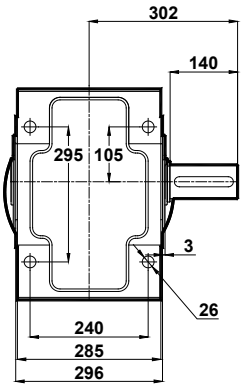
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

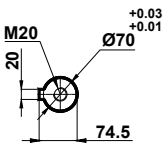


100-112-132-160-180-200-225
Tip / *Type* / Typ

KV673.01

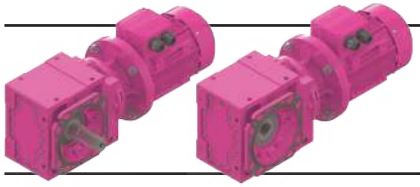






	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	866	886.5	985.5	985.5	1140.5	1140.5	1228.5	1228.5	1303	1374	1399
k1	974.5	991	1115.5	1115.5	1288.5	1288.5	1387	1387	1489.5	1539	1564
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316
m1 (B5)	250	250	300	300	350	350	350	350	400	450	450
m1 (B14)	-	-	200	200	-	-	-	-	-	-	-

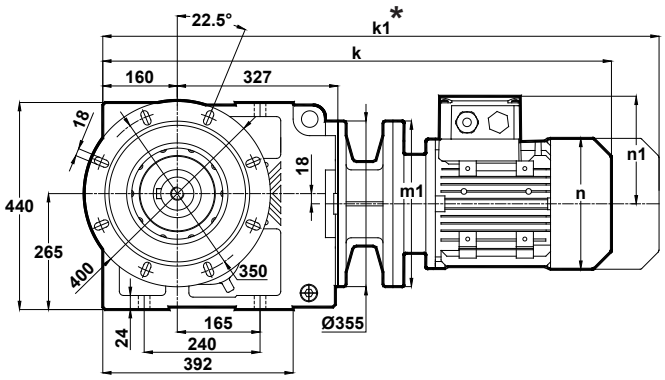
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

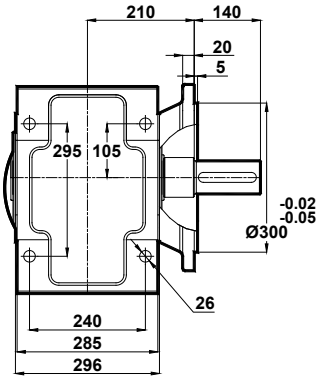


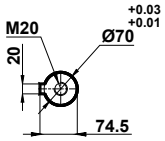
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV673.02

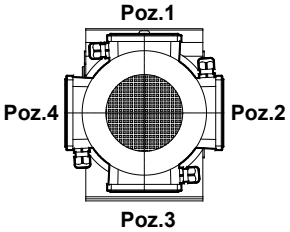






Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

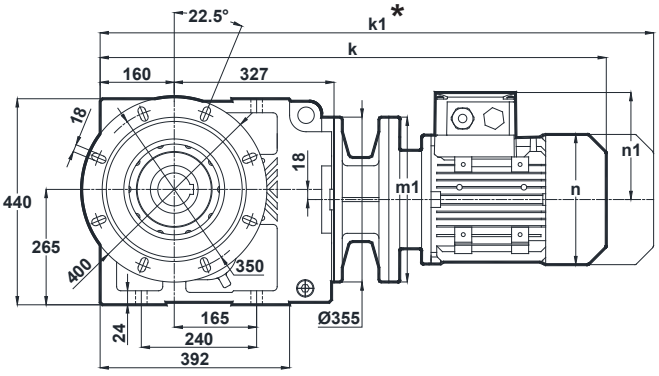
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

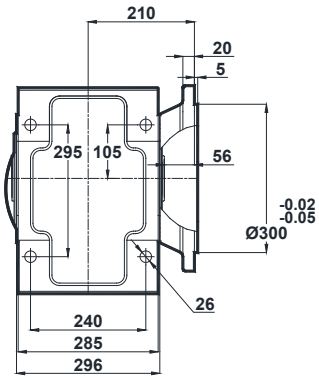


100-112-132-160-180-200-225
Tip / *Type* / Typ

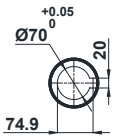
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	866	886.5	985.5	985.5	1140.5	1140.5	1228.5	1228.5	1303	1374	1399
k1	974.5	991	1115.5	1115.5	1288.5	1288.5	1387	1387	1489.5	1539	1564
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316
m1 (B5)	250	250	300	300	350	350	350	350	400	450	450
m1 (B14)	-	-	200	200	-	-	-	-	-	-	-

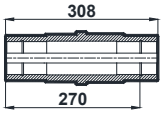
KV673.03



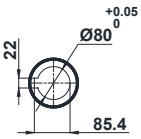


Std.





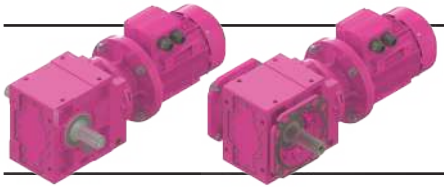
Ops.



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

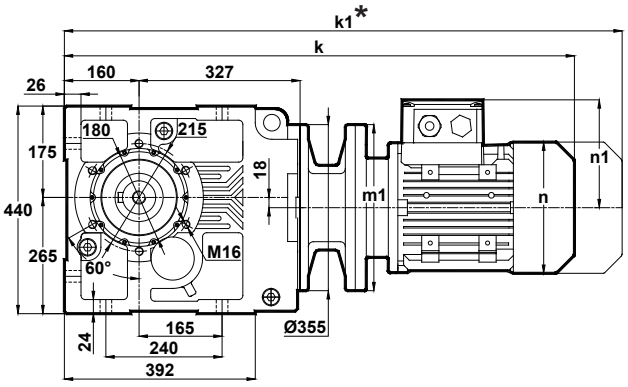
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	866	886.5	985.5	985.5	1140.5	1140.5	1228.5	1228.5	1303	1374	1399
k1	974.5	991	1115.5	1115.5	1288.5	1288.5	1387	1387	1489.5	1539	1564
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316
m1 (B5)	250	250	300	300	350	350	350	350	400	450	450
m1 (B14)	-	-	200	200	-	-	-	-	-	-	-

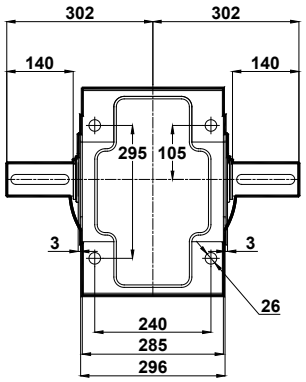
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

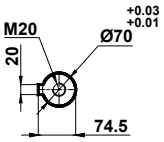


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

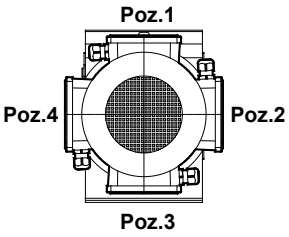
KV673.04







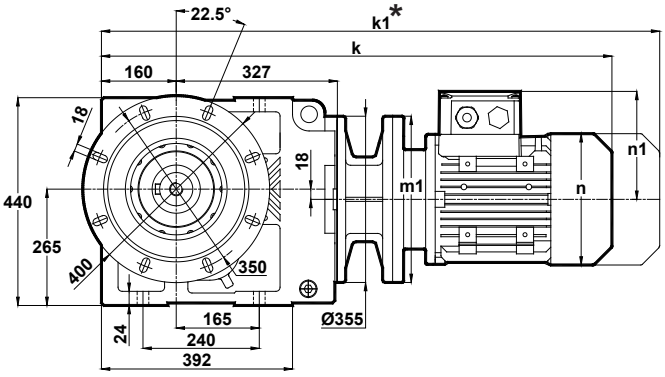
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

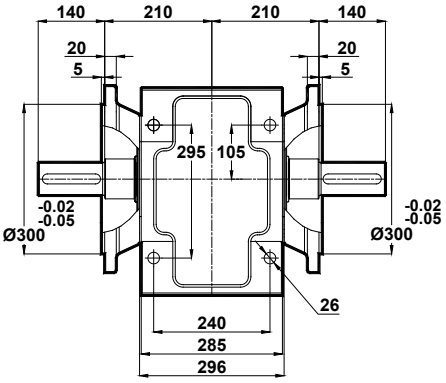


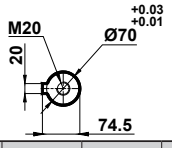
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	866	886.5	985.5	985.5	1140.5	1140.5	1228.5	1228.5	1303	1374	1399
k1	974.5	991	1115.5	1115.5	1288.5	1288.5	1387	1387	1489.5	1539	1564
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316
m1 (B5)	250	250	300	300	350	350	350	350	400	450	450
m1 (B14)	-	-	200	200	-	-	-	-	-	-	-

100-112-132-160-180-200-225
Tip / *Type* / Typ

KV673.05







Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

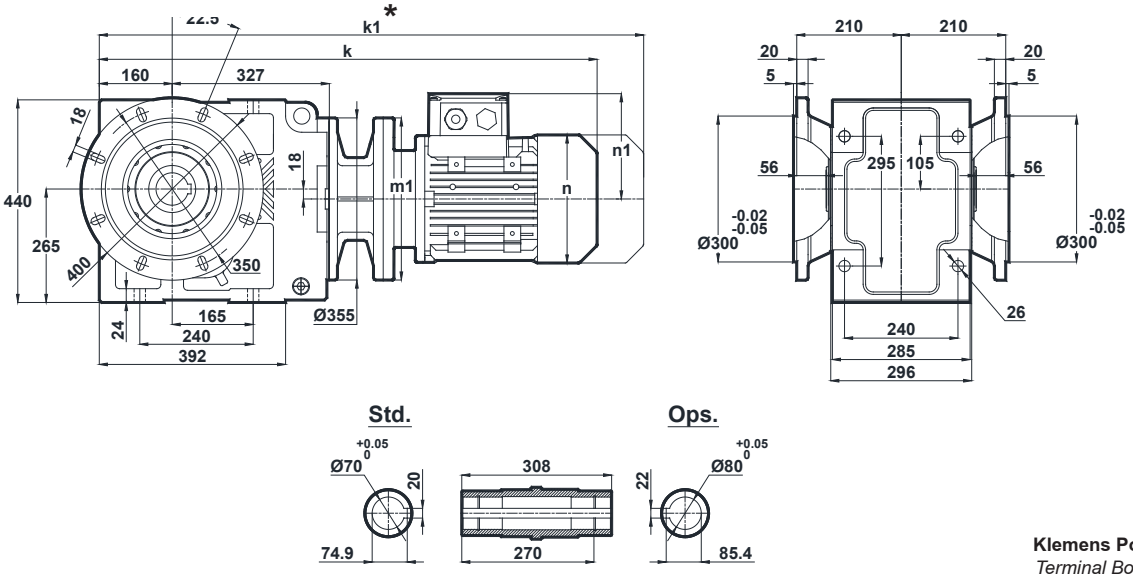
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	866	886.5	985.5	985.5	1140.5	1140.5	1228.5	1228.5	1303	1374	1399
k1	974.5	991	1115.5	1115.5	1288.5	1288.5	1387	1387	1489.5	1539	1564
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316
m1 (B5)	250	250	300	300	350	350	350	350	400	450	450
m1 (B14)	-	-	200	200	-	-	-	-	-	-	-

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

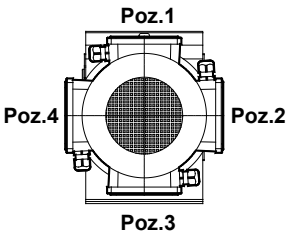
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV673.08



	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	866	886.5	985.5	985.5	1140.5	1140.5	1228.5	1228.5	1303	1374	1399
k1	974.5	991	1115.5	1115.5	1288.5	1288.5	1387	1387	1489.5	1539	1564
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316
m1 (B5)	250	250	300	300	350	350	350	350	400	450	450
m1 (B14)	-	-	200	200	-	-	-	-	-	-	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



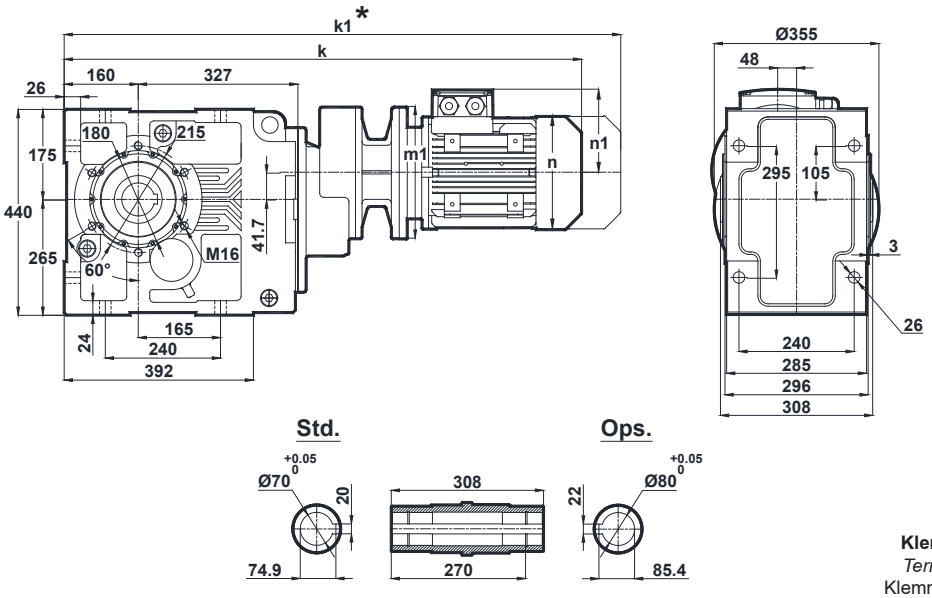
100-112-132-160-180-200-225
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

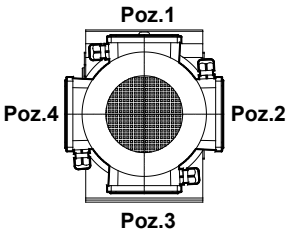
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV674.00



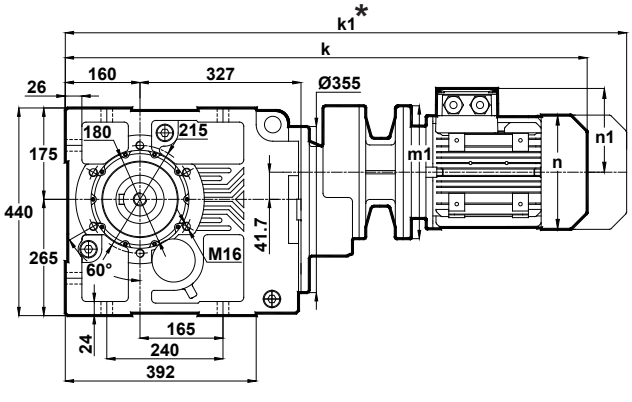
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	879.5	920.5	920.5	974.5
k1	972.5	1024	1024	1083
n / n1	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160

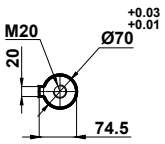
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



80-90-100
Tip / *Type* / Typ

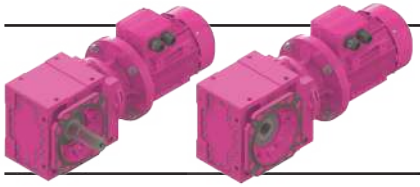
KV674.01





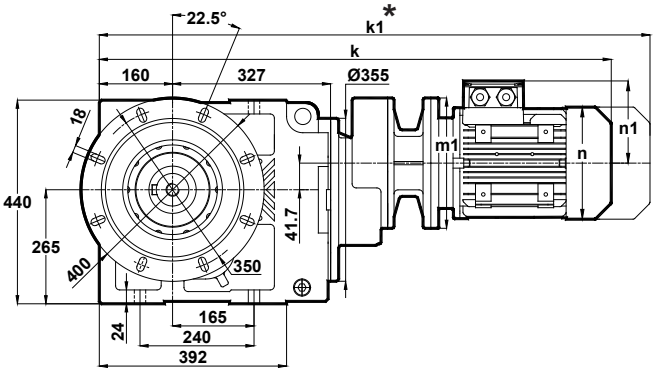
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	879.5	920.5	920.5	974.5
k1	972.5	1024	1024	1083
n / n1	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160

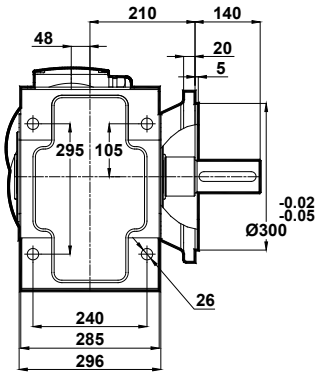
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

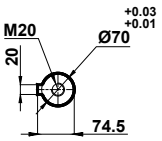


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

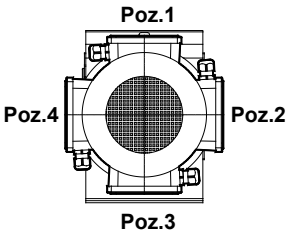
KV674.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

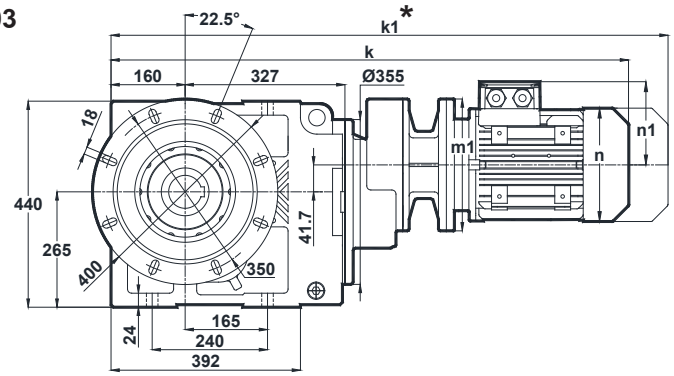


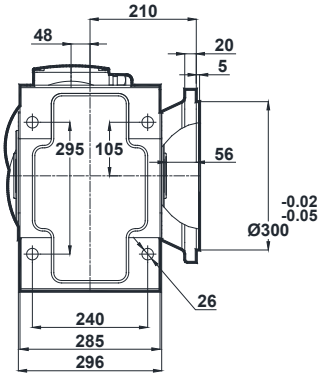
80-90-100
Tip / *Type* / Typ

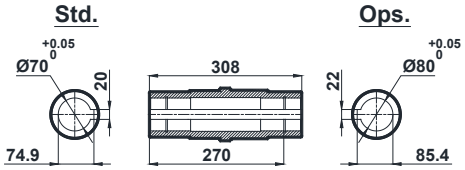
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	879.5	920.5	920.5	974.5
k1	972.5	1024	1024	1083
n / n1	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV674.03







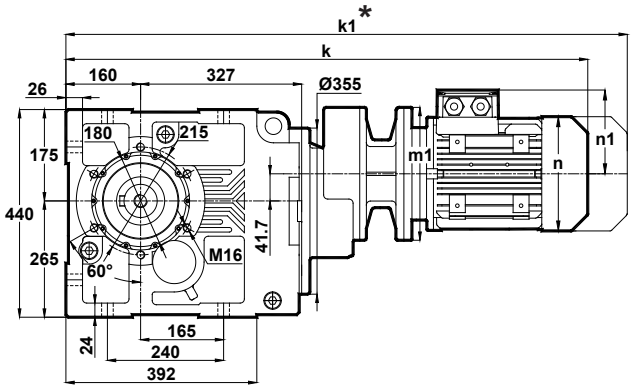
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	879.5	920.5	920.5	974.5
k1	972.5	1024	1024	1083
n / n1	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160

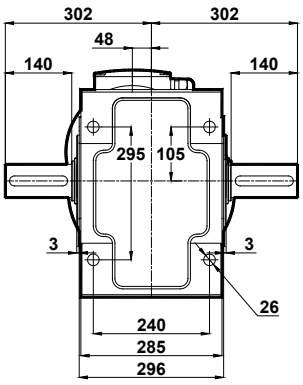
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

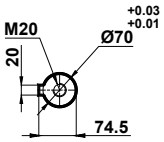
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV674.04

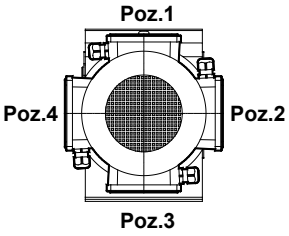






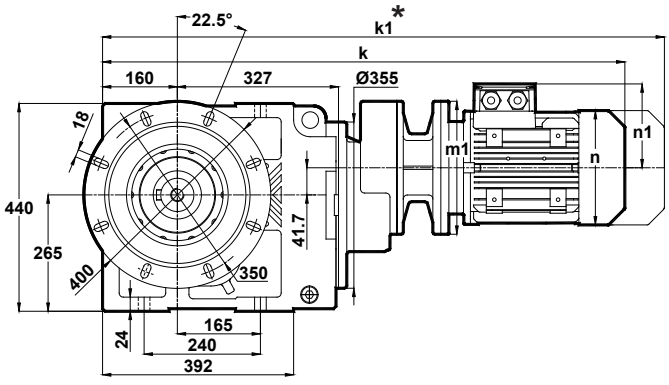
	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	879.5	920.5	920.5	974.5
k1	972.5	1024	1024	1083
n / n1	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160

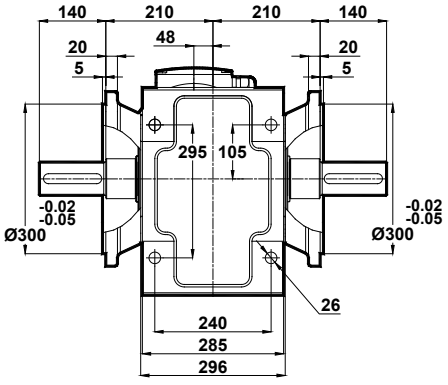
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

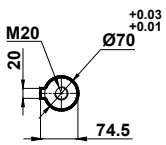


80-90-100
Tip / *Type* / Typ

KV674.05







	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	879.5	920.5	920.5	974.5
k1	972.5	1024	1024	1083
n / n1	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160

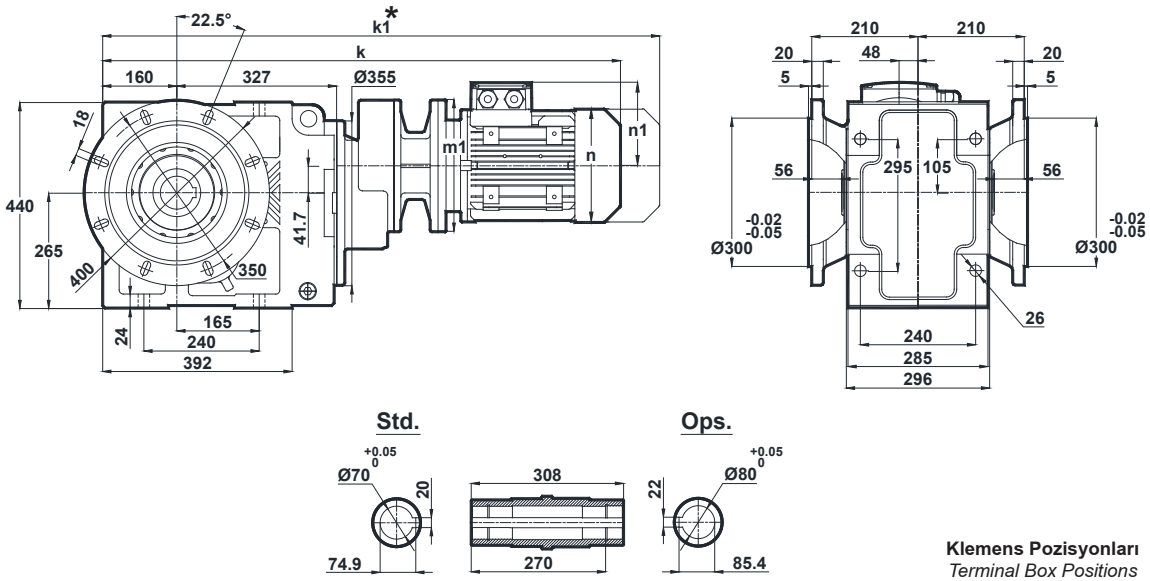
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

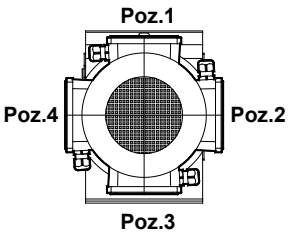
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV674.08



	80/B5	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	879.5	920.5	920.5	974.5
k1	972.5	1024	1024	1083
n / n1	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	200	200	200	250
m1 (B14)	-	140	140	160

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



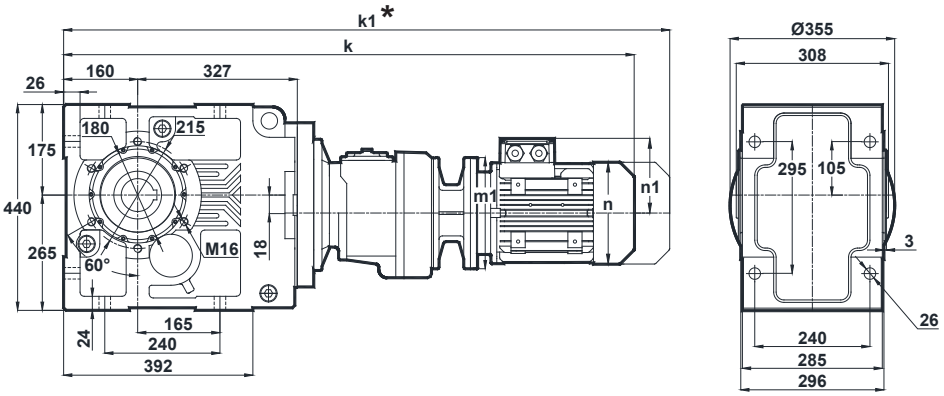
80-90-100
Tip / *Type* / Typ

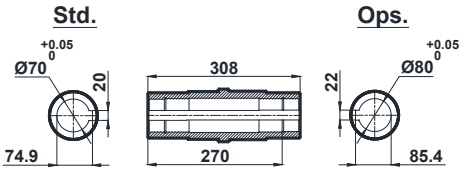
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

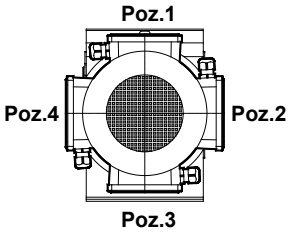
KV675.00
KV676.00





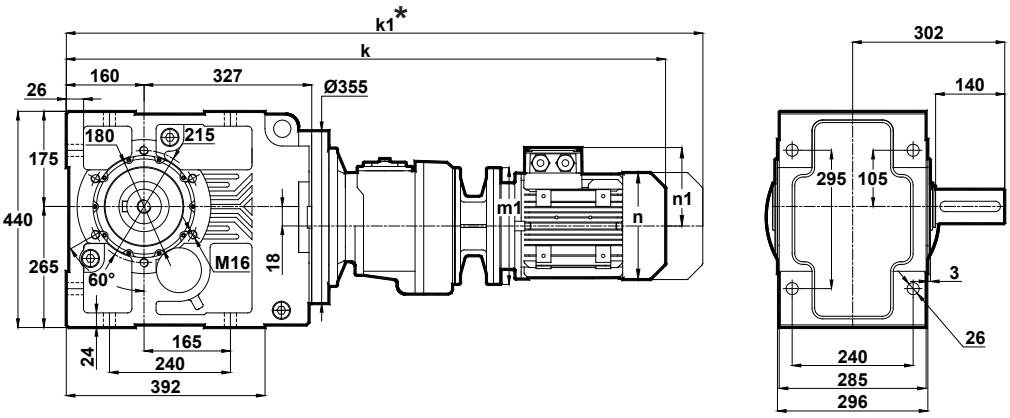
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	1007.5	1030.5	1071.5	1071.5
k1	1098.5	1123.5	1175	1175
n / n1	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140

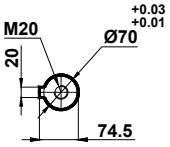
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80-90
Tip / *Type* / Typ

KV675.01
KV676.01



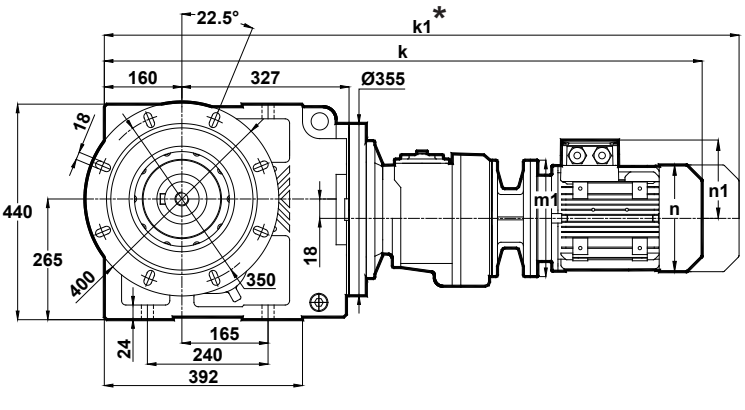


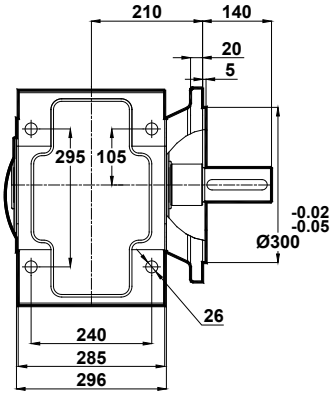
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	1007.5	1030.5	1071.5	1071.5
k1	1098.5	1123.5	1175	1175
n / n1	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140

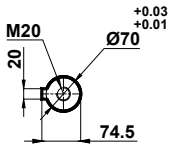
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV675.02
KV676.02

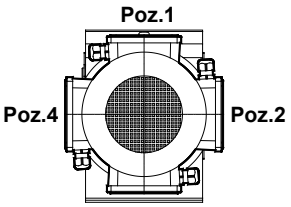






	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	1007.5	1030.5	1071.5	1071.5
k1	1098.5	1123.5	1175	1175
n / n1	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140

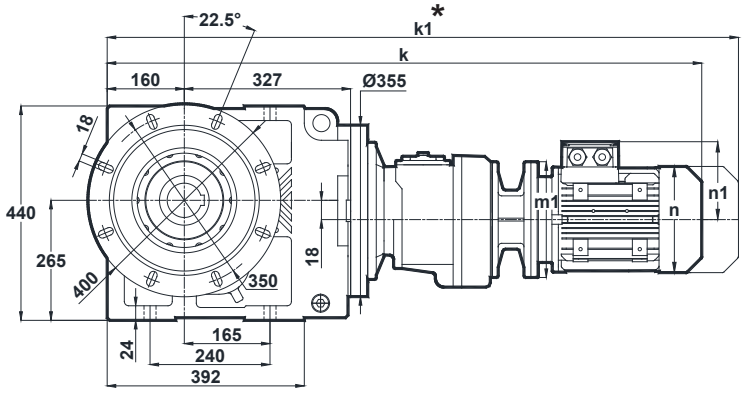
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

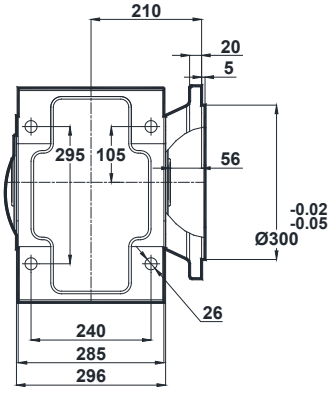


71-80-90
Tip / *Type* / Typ

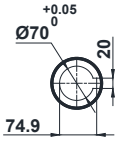
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

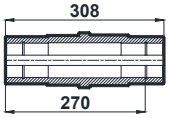
KV675.03
KV676.03



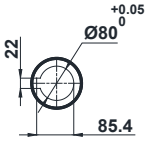


Std.





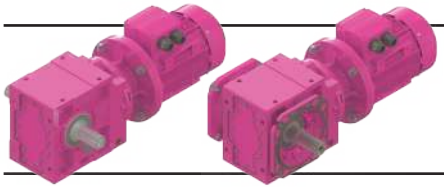
Ops.



	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	1007.5	1030.5	1071.5	1071.5
k1	1098.5	1123.5	1175	1175
n / n1	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140

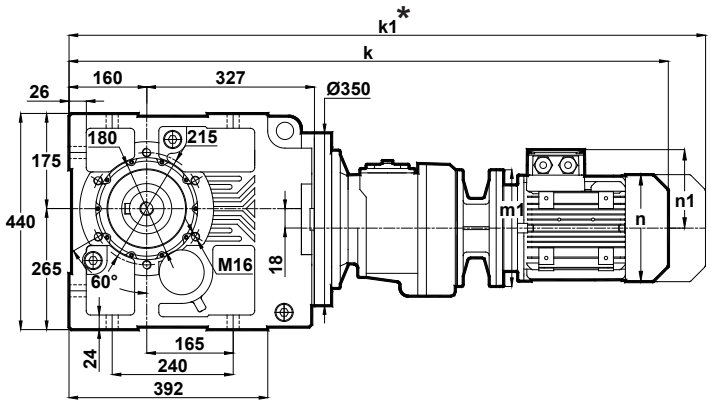
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

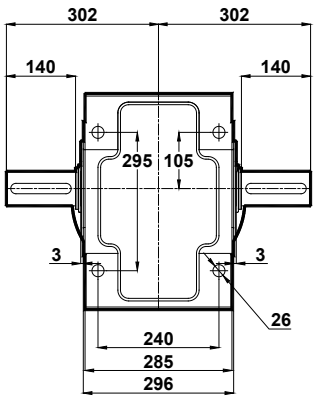
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

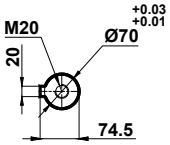


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV675.04
KV676.04

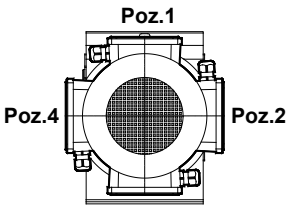






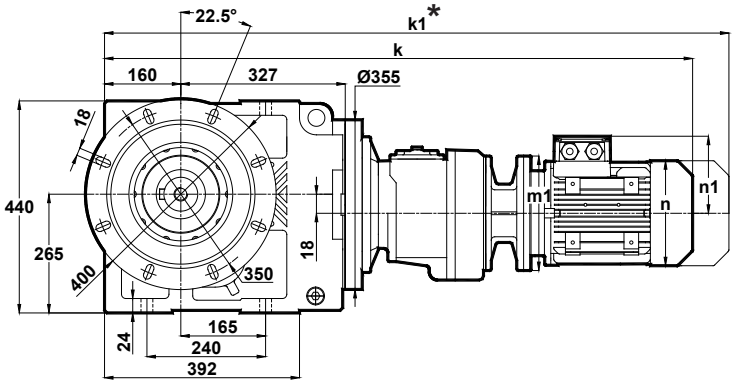
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	1007.5	1030.5	1071.5	1071.5
k1	1098.5	1123.5	1175	1175
n / n1	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140

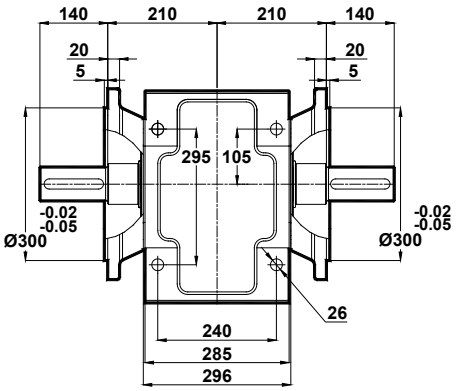
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

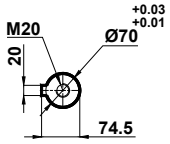


71-80-90
Tip / *Type* / Typ

KV675.05
KV676.05







Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

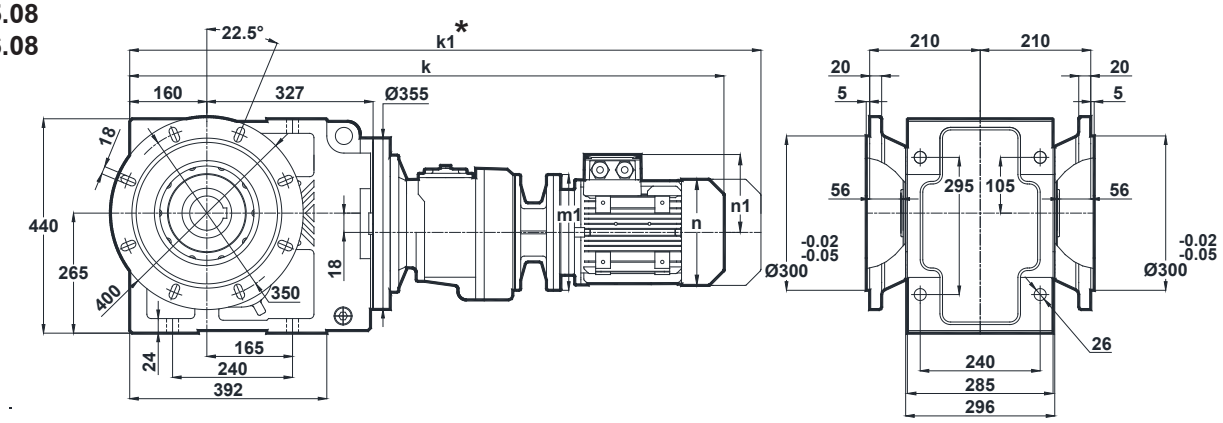
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	1007.5	1030.5	1071.5	1071.5
k1	1098.5	1123.5	1175	1175
n / n1	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

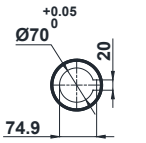
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

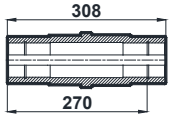
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV675.08
KV676.08

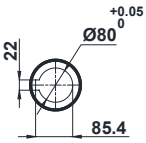


Std.



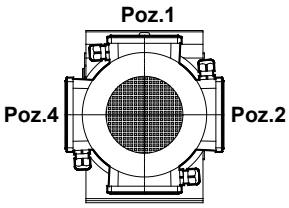


Ops.



	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14
k	1007.5	1030.5	1071.5	1071.5
k1	1098.5	1123.5	1175	1175
n / n1	137 / 112	155 / 123	176 / 132	176 / 132
m1 (B5)	160	200	200	200
m1 (B14)	-	120	140	140

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80-90
Tip / *Type* / Typ

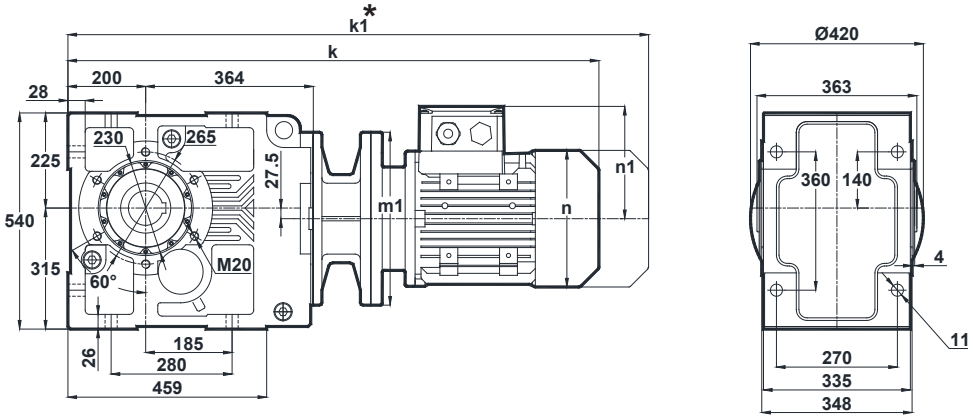
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

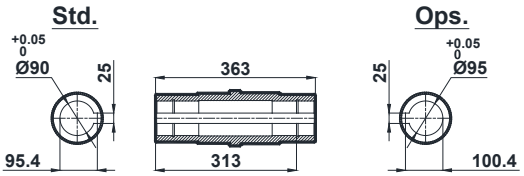
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

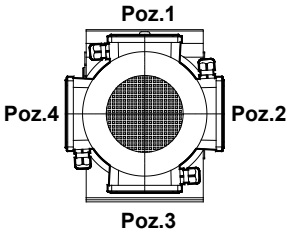
KV773.00





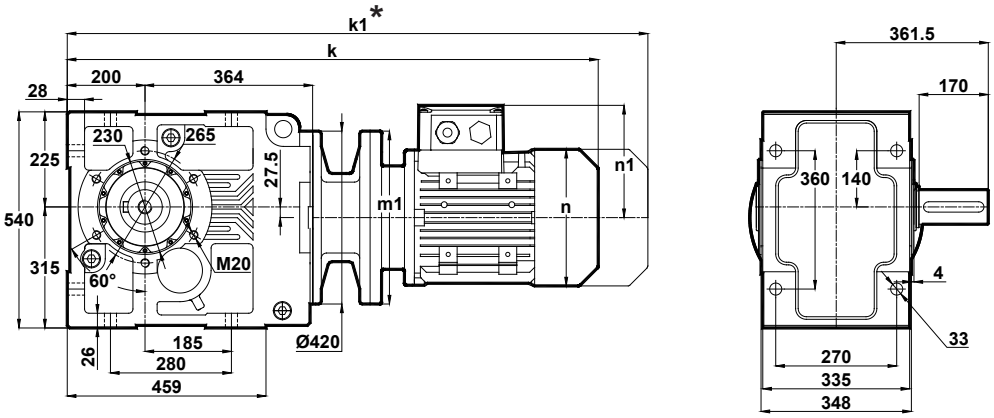
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1062.5	1062.5	1212	1212	1300	1300	1376	1447	1472	1548
k1	1192.5	1192.5	1360	1360	1458.5	1458.5	1562.5	1612	1637	1718.5
n / n1	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316	481 / 335
m1 (B5)	300	300	350	350	350	350	400	450	450	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-

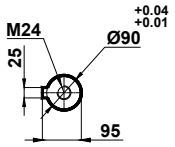
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



132-160-180-200-225-250
Tip / *Type* / Typ

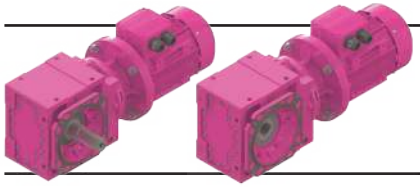
KV773.01





	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1062.5	1062.5	1212	1212	1300	1300	1376	1447	1472	1548
k1	1192.5	1192.5	1360	1360	1458.5	1458.5	1562.5	1612	1637	1718.5
n / n1	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316	481 / 335
m1 (B5)	300	300	350	350	350	350	400	450	450	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-

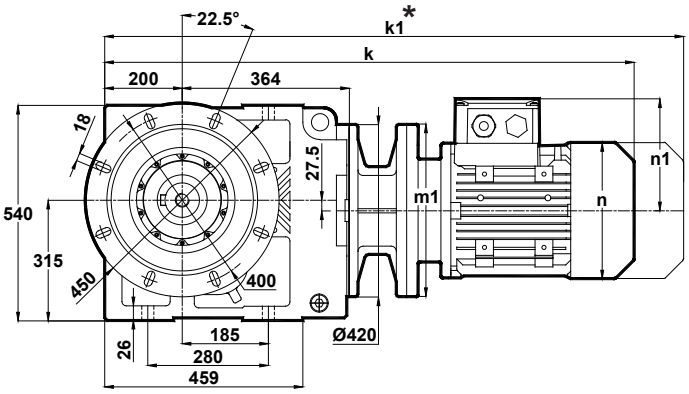
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

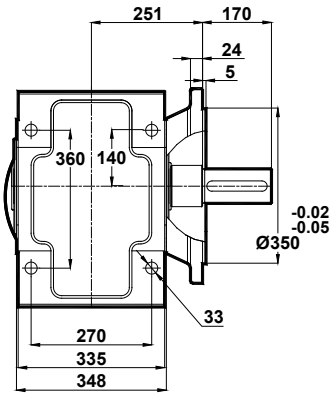


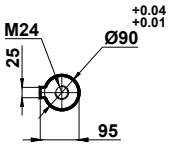
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV773.02

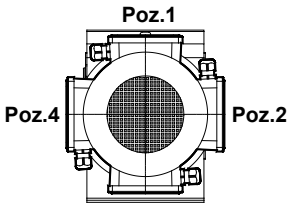






	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1062.5	1062.5	1212	1212	1300	1300	1376	1447	1472	1548
k1	1192.5	1192.5	1360	1360	1458.5	1458.5	1562.5	1612	1637	1718.5
n / n1	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316	481 / 335
m1 (B5)	300	300	350	350	350	350	400	450	450	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-

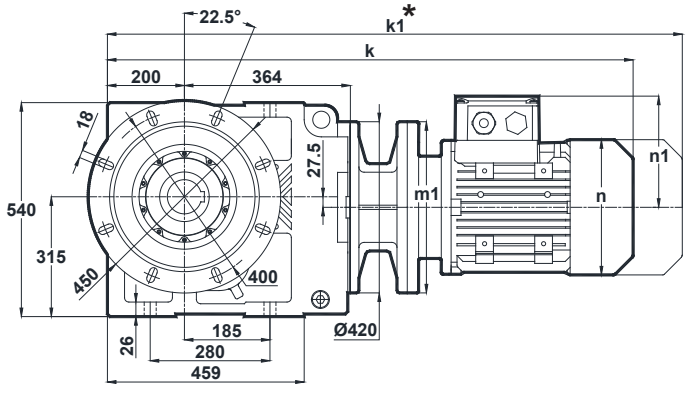
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

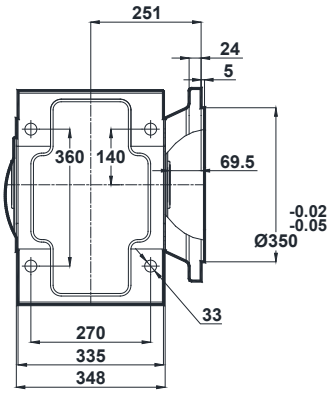


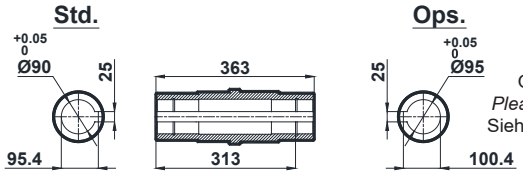
132-160-180-200-225-250
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV773.03



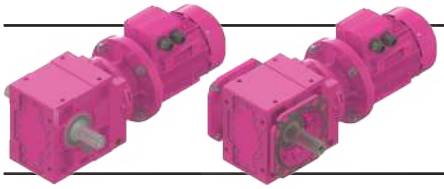




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

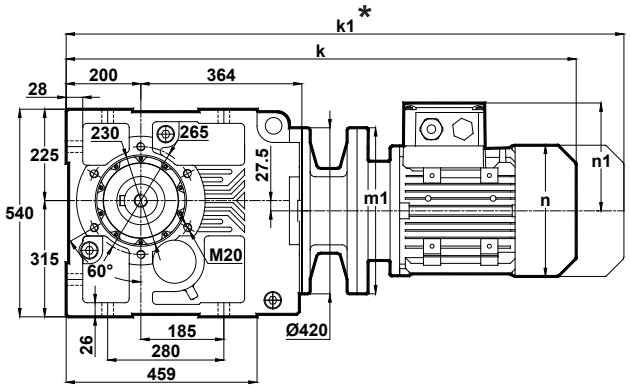
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1062.5	1062.5	1212	1212	1300	1300	1376	1447	1472	1548
k1	1192.5	1192.5	1360	1360	1458.5	1458.5	1562.5	1612	1637	1718.5
n / n1	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316	481 / 335
m1 (B5)	300	300	350	350	350	350	400	450	450	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-

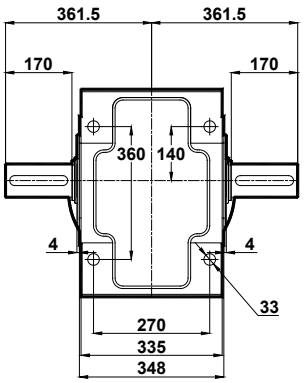
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

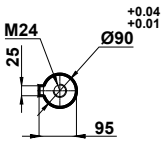


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

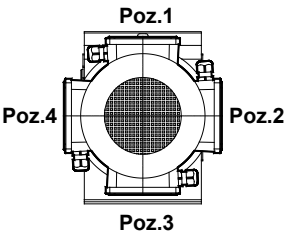
KV773.04







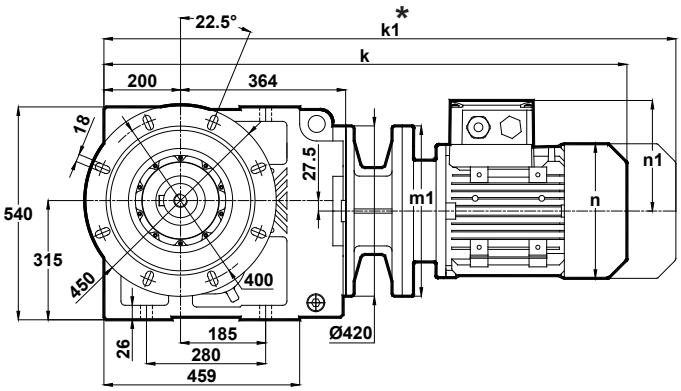
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

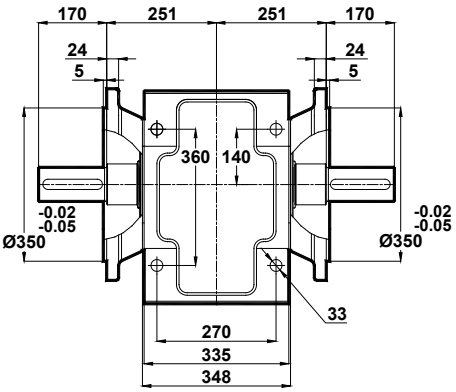


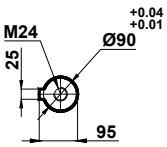
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1062.5	1062.5	1212	1212	1300	1300	1376	1447	1472	1548
k1	1192.5	1192.5	1360	1360	1458.5	1458.5	1562.5	1612	1637	1718.5
n / n1	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316	481 / 335
m1 (B5)	300	300	350	350	350	350	400	450	450	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-

132-160-180-200-225-250
Tip / *Type* / Typ

KV773.05







Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

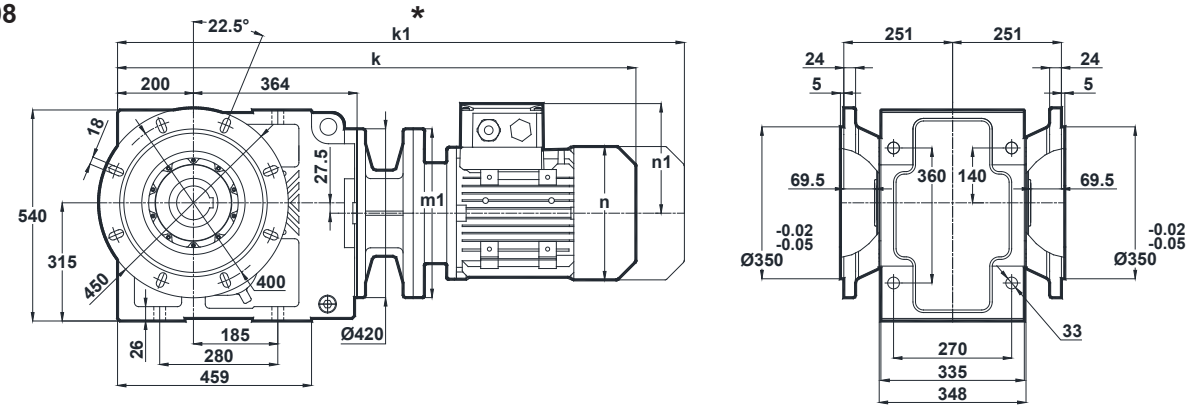
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1062.5	1062.5	1212	1212	1300	1300	1376	1447	1472	1548
k1	1192.5	1192.5	1360	1360	1458.5	1458.5	1562.5	1612	1637	1718.5
n / n1	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316	481 / 335
m1 (B5)	300	300	350	350	350	350	400	450	450	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-

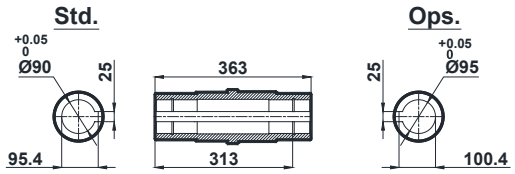
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

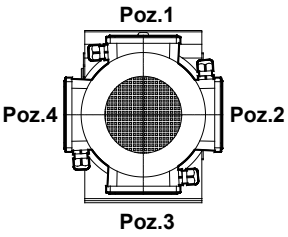
KV773.08





	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1062.5	1062.5	1212	1212	1300	1300	1376	1447	1472	1548
k1	1192.5	1192.5	1360	1360	1458.5	1458.5	1562.5	1612	1637	1718.5
n / n1	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316	481 / 335
m1 (B5)	300	300	350	350	350	350	400	450	450	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



132-160-180-200-225-250
Tip / *Type* / Typ

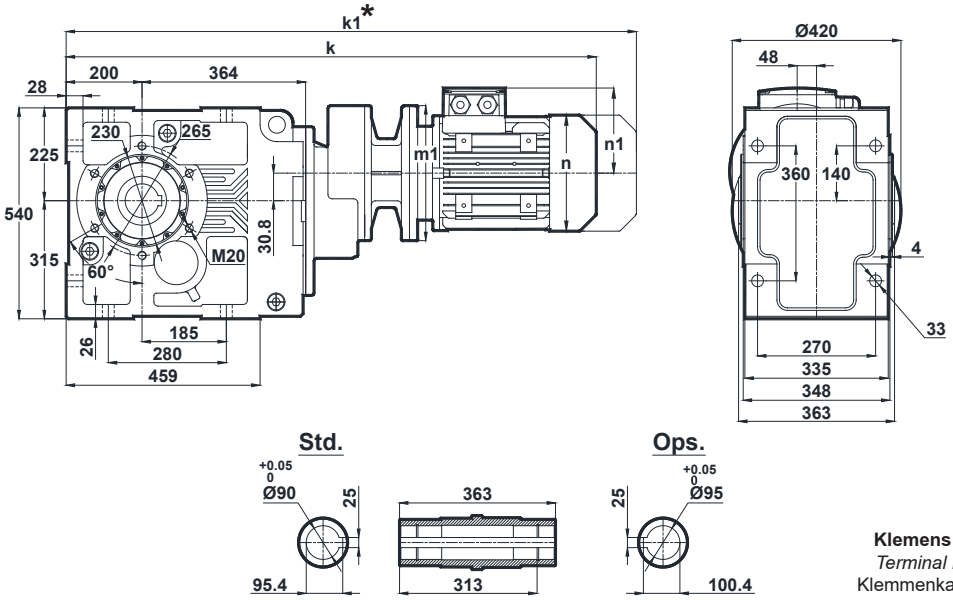
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

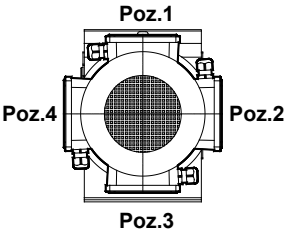
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV774.00



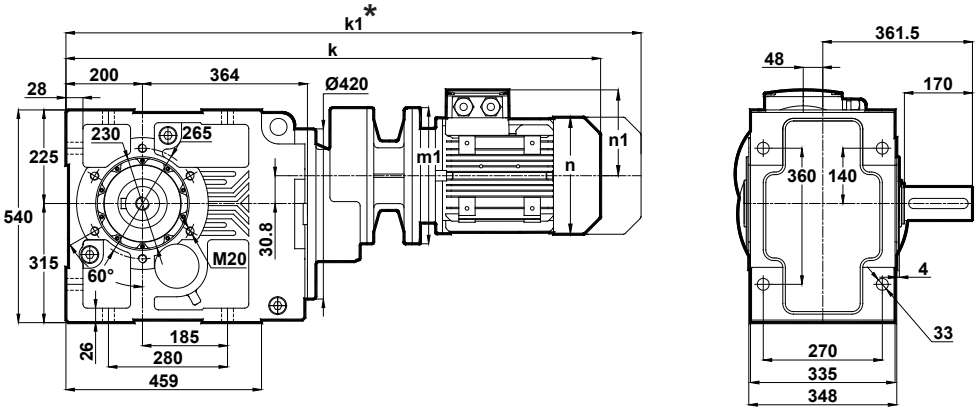
	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	997.5	997.5	1051.5	1072	1174.5	1174.5
k1	1101	1101	1160	1176.5	1304.5	1304.5
n / n1	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	250	250	300	300
m1 (B14)	140	140	160	160	200	200

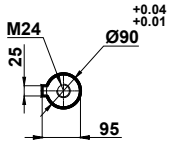
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



90-100-112-132
Tip / *Type* / Typ

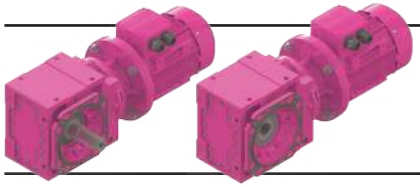
KV774.01





	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	997.5	997.5	1051.5	1072	1174.5	1174.5
k1	1101	1101	1160	1176.5	1304.5	1304.5
n / n1	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	250	250	300	300
m1 (B14)	140	140	160	160	200	200

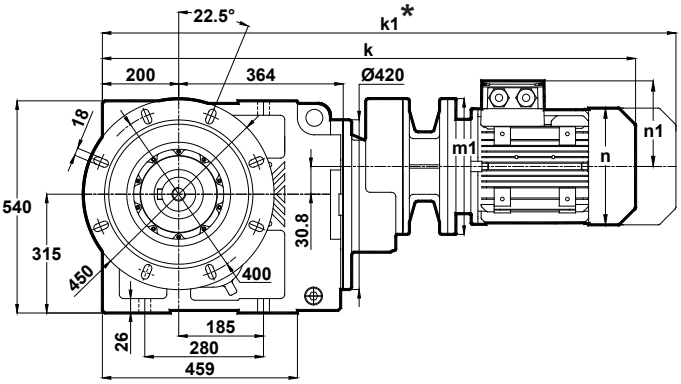
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

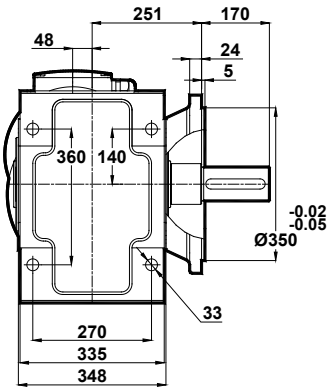


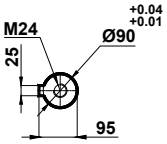
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV774.02

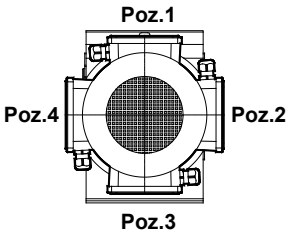






	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	997.5	997.5	1051.5	1072	1174.5	1174.5
k1	1101	1101	1160	1176.5	1304.5	1304.5
n / n1	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	250	250	300	300
m1 (B14)	140	140	160	160	200	200

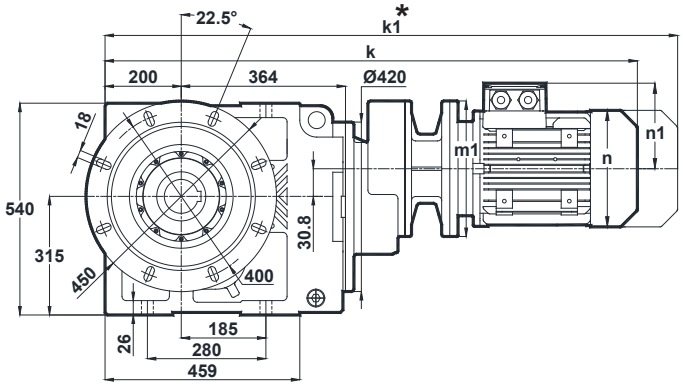
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

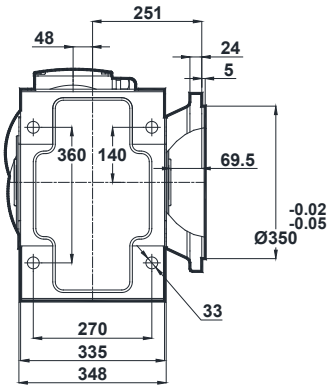


90-100-112-132
Tip / *Type* / Typ

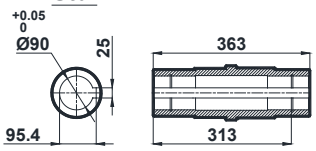
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV774.03

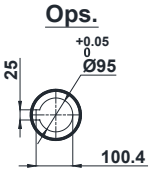




Std.



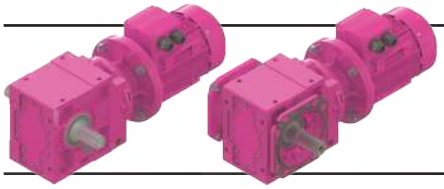
Ops.



	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	997.5	997.5	1051.5	1072	1174.5	1174.5
k1	1101	1101	1160	1176.5	1304.5	1304.5
n / n1	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	250	250	300	300
m1 (B14)	140	140	160	160	200	200

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

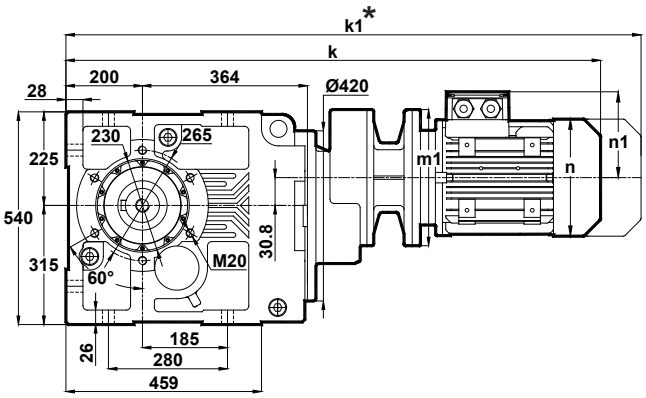
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

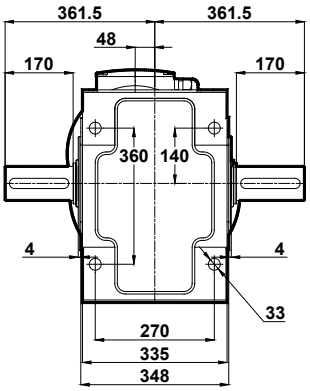


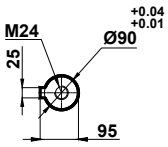
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

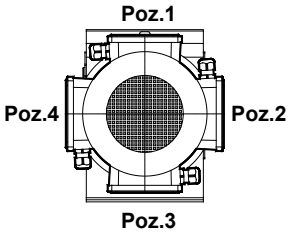
KV774.04







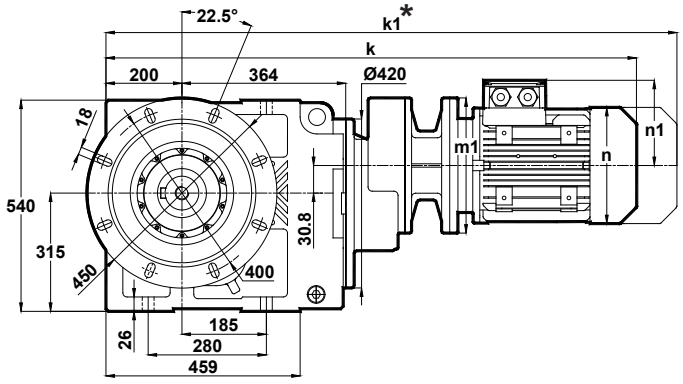
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

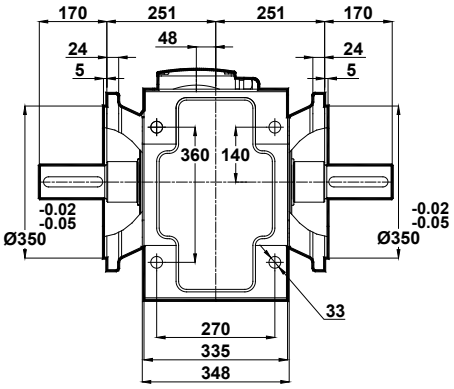


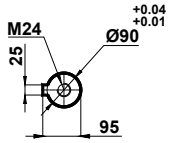
90-100-112-132
Tip / *Type* / Typ

	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	997.5	997.5	1051.5	1072	1174.5	1174.5
k1	1101	1101	1160	1176.5	1304.5	1304.5
n / n1	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	250	250	300	300
m1 (B14)	140	140	160	160	200	200

KV774.05







Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

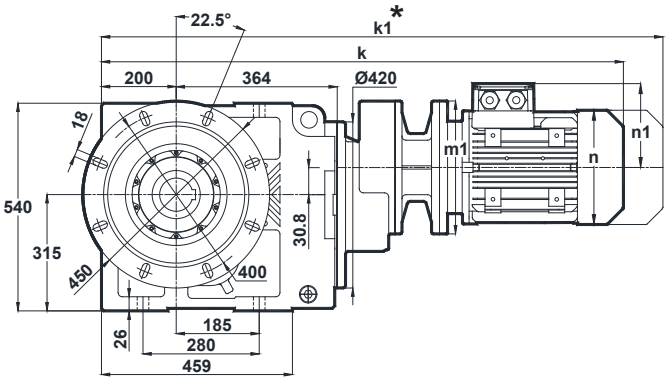
	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	997.5	997.5	1051.5	1072	1174.5	1174.5
k1	1101	1101	1160	1176.5	1304.5	1304.5
n / n1	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	250	250	300	300
m1 (B14)	140	140	160	160	200	200

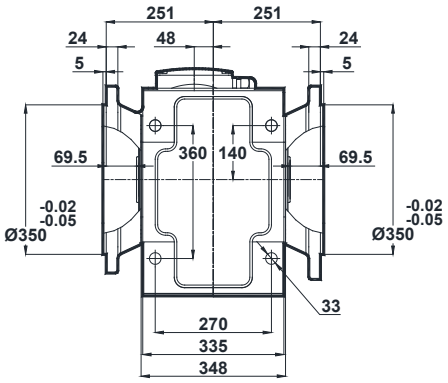
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

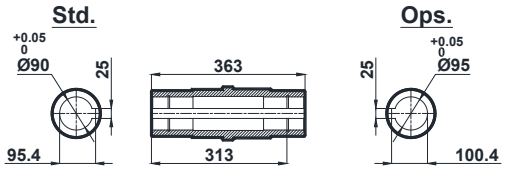
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV774.08

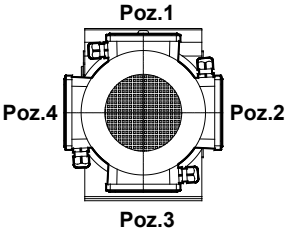






	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	997.5	997.5	1051.5	1072	1174.5	1174.5
k1	1101	1101	1160	1176.5	1304.5	1304.5
n / n1	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	250	250	300	300
m1 (B14)	140	140	160	160	200	200

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



90-100-112-132
Tip / *Type* / Typ

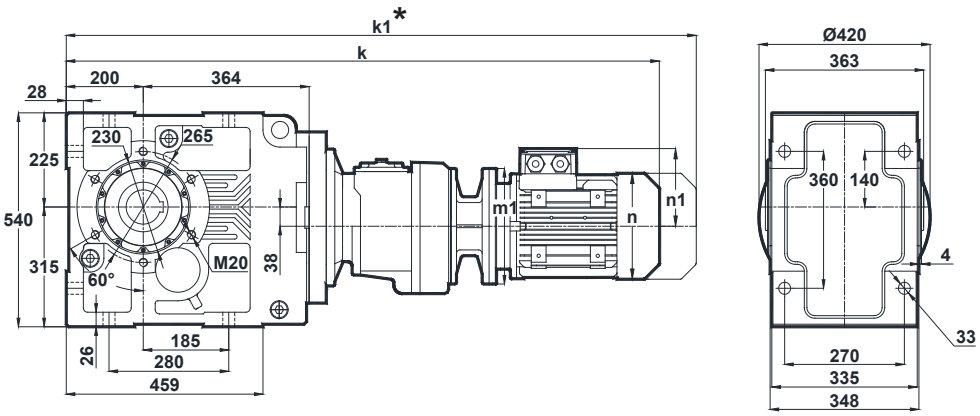
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

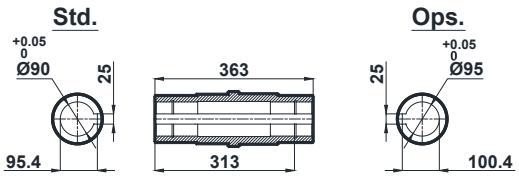
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

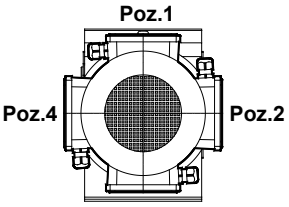
KV775.00
KV776.00





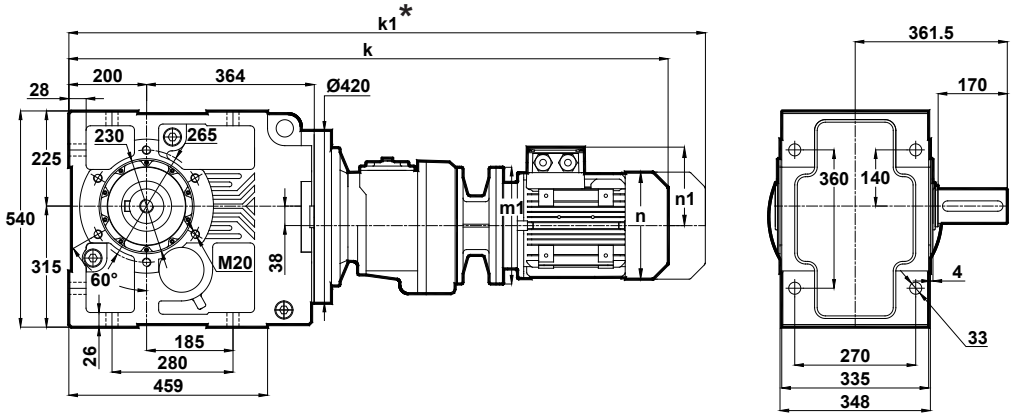
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

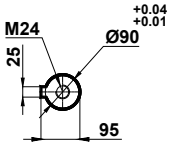
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	1084.5	1107.5	1148.5	1148.5	1201
k1	1175.5	1200.5	1252	1252	1309.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	160



71-80-90-100
Tip / *Type* / Typ

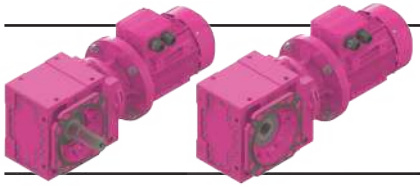
KV775.01
KV776.01





	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	1084.5	1107.5	1148.5	1148.5	1201
k1	1175.5	1200.5	1252	1252	1309.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	160

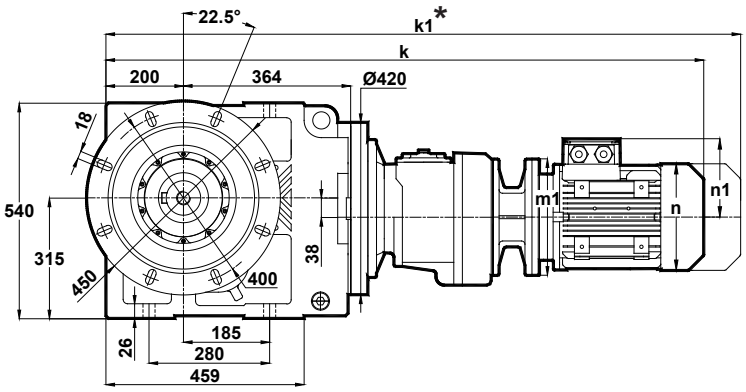
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

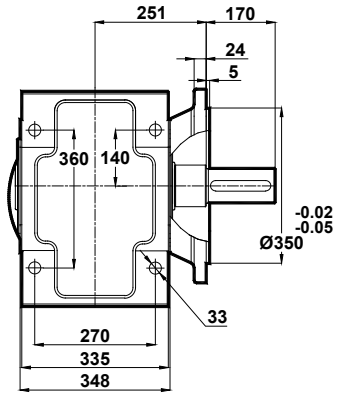


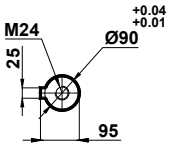
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

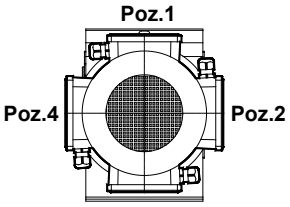
KV775.02
KV776.02







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

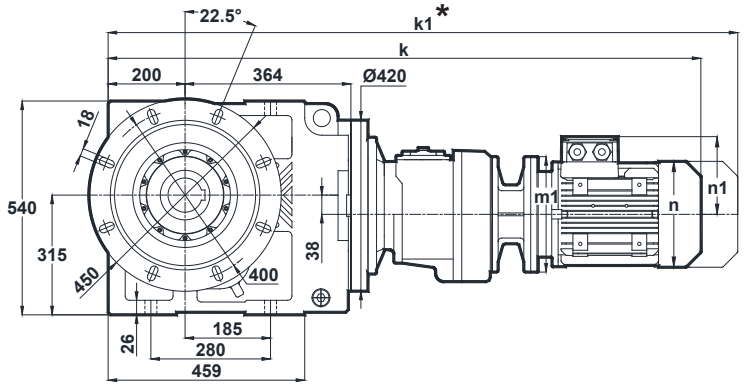


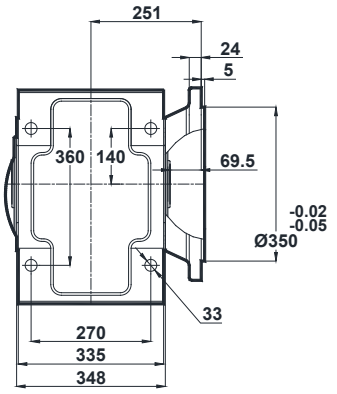
71-80-90-100
Tip / *Type* / Typ

	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	1084.5	1107.5	1148.5	1148.5	1201
k1	1175.5	1200.5	1252	1252	1309.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	160

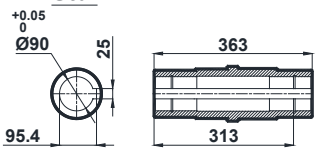
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV775.03
KV776.03

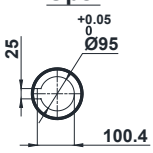




Std.



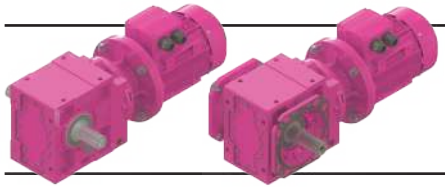
Ops.



	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	1084.5	1107.5	1148.5	1148.5	1201
k1	1175.5	1200.5	1252	1252	1309.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	160

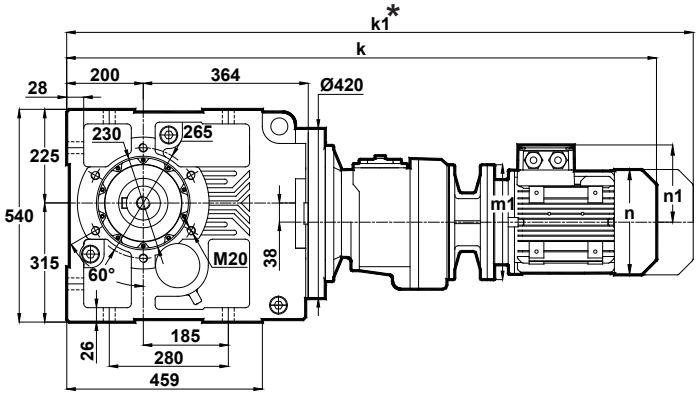
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

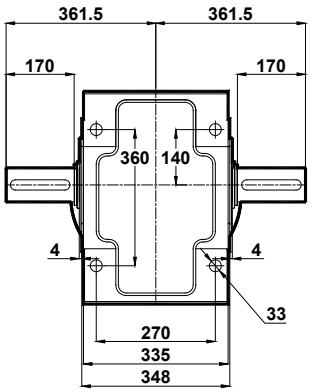
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

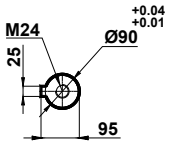


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV775.04
KV776.04

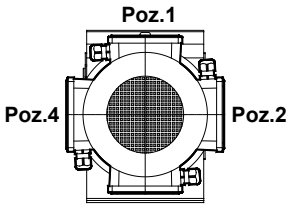






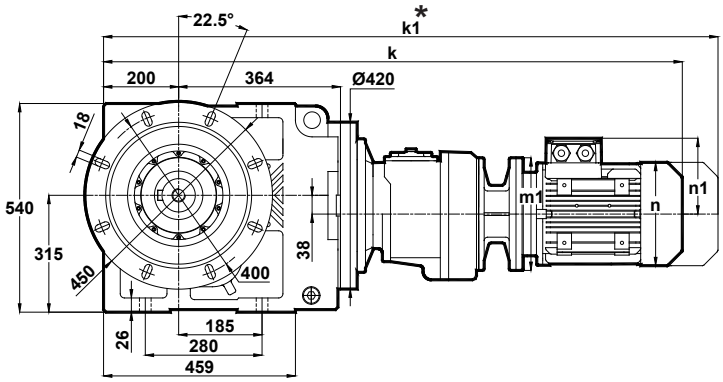
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	1084.5	1107.5	1148.5	1148.5	1201
k1	1175.5	1200.5	1252	1252	1309.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	160

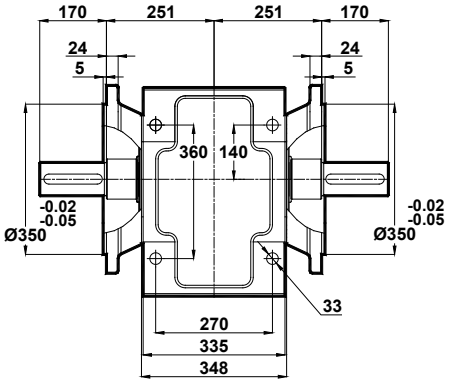
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

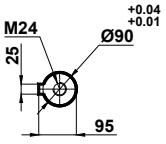


71-80-90-100
Tip / *Type* / Typ

KV775.05
KV776.05







Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

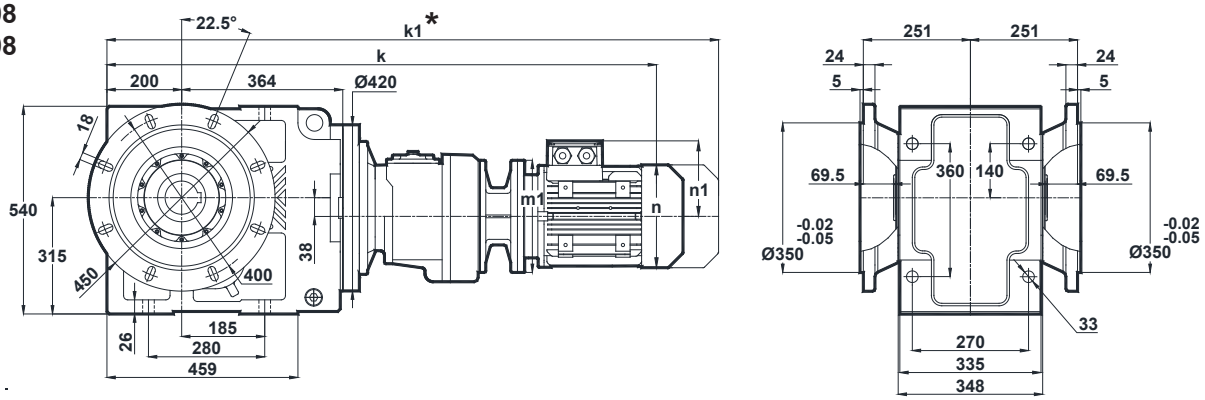
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	1084.5	1107.5	1148.5	1148.5	1201
k1	1175.5	1200.5	1252	1252	1309.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	160

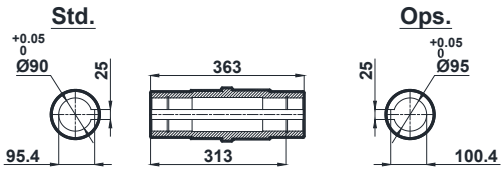
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

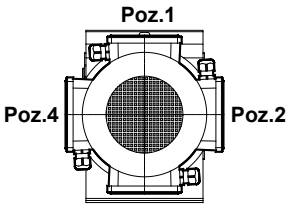
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV775.08
KV776.08





Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80-90-100
Tip / *Type* / Typ

	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14
k	1084.5	1107.5	1148.5	1148.5	1201
k1	1175.5	1200.5	1252	1252	1309.5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149
m1 (B5)	160	200	200	200	250
m1 (B14)	-	120	140	140	160

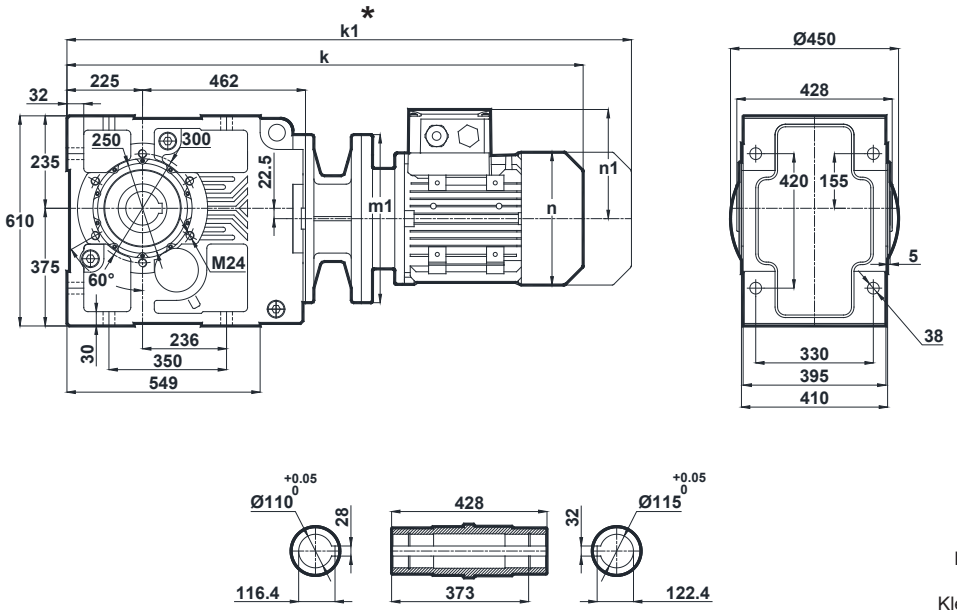
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

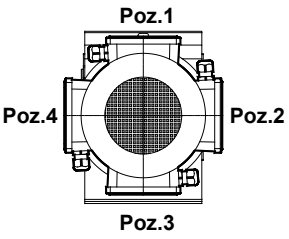
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV873.00



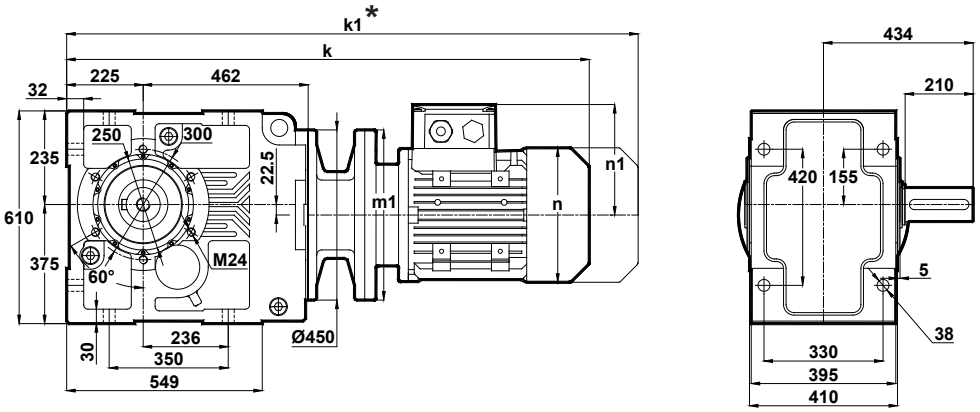
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1166	1166	1400	1400	1488	1488	1542	1560	1585	1661	1723	1723
k1	1288	1288	1548	1548	1646.5	1646.5	1728.5	1725	1750	1831.5	1896	1902
n / n1	257/181	257/181	316 / 224	316 / 224	348 / 250	348 / 250	396 /287	438 / 315,5	438 / 315,5	481 / 335	544 / 350	544 / 350
m1 (B5)	300	300	350	350	350	350	400	450	450	550	550	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

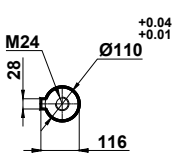
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



160-180-200-225-250-280
Tip / *Type* / Typ

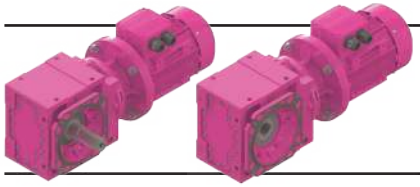
KV873.01





	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1166	1166	1400	1400	1488	1488	1542	1560	1585	1661	1723	1723
k1	1288	1288	1548	1548	1646.5	1646.5	1728.5	1725	1750	1831.5	1896	1902
n / n1	257/181	257/181	316 / 224	316 / 224	348 / 250	348 / 250	396 /287	438 / 315,5	438 / 315,5	481 / 335	544 / 350	544 / 350
m1 (B5)	300	300	350	350	350	350	400	450	450	550	550	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

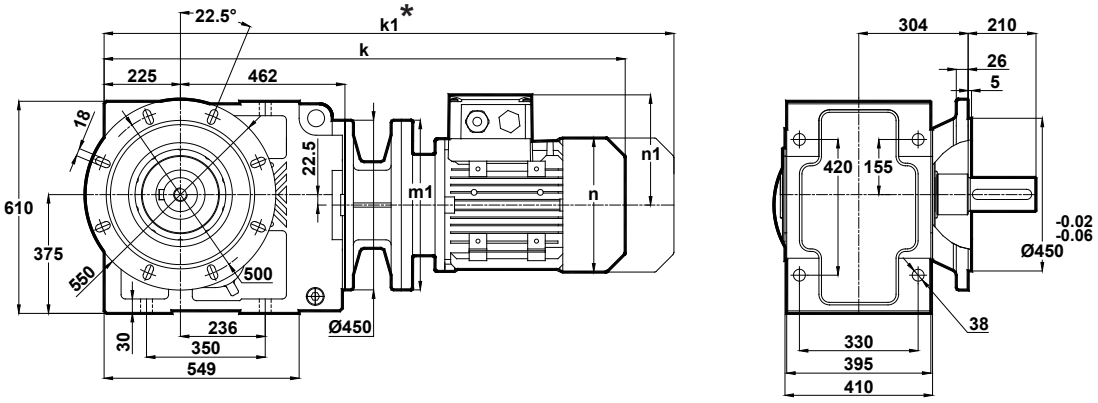
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

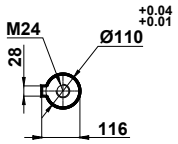


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

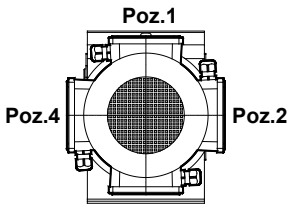
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV873.02





Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

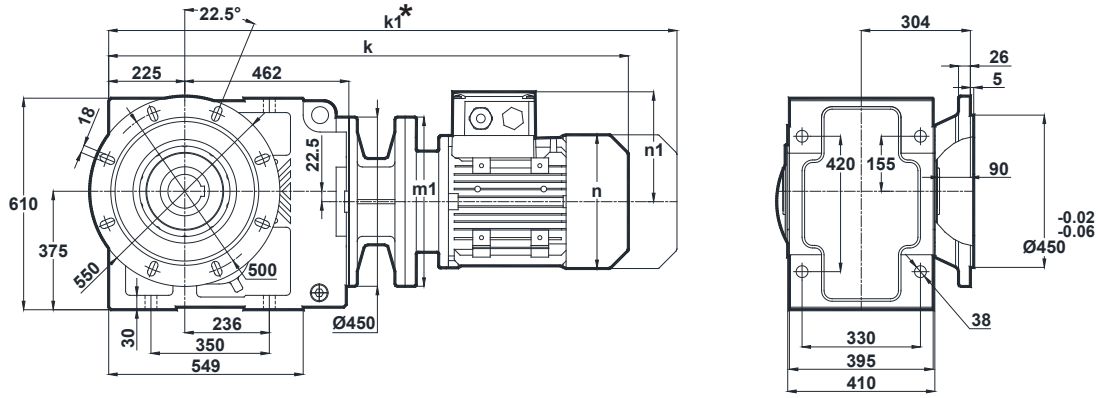


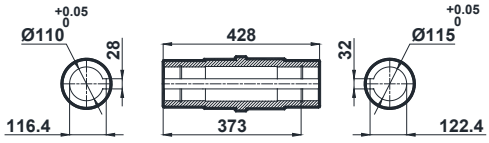
160-180-200-225-250-280
Tip / *Type* / Typ

	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1166	1166	1400	1400	1488	1488	1542	1560	1585	1661	1723	1723
k1	1288	1288	1548	1548	1646.5	1646.5	1728.5	1725	1750	1831.5	1896	1902
n / n1	257/181	257/181	316 / 224	316 / 224	348 / 250	348 / 250	396 /287	438 / 315,5	438 / 315,5	481 / 335	544 / 350	544 / 350
m1 (B5)	300	300	350	350	350	350	400	450	450	550	550	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV873.03

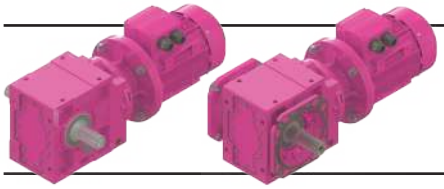




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1166	1166	1400	1400	1488	1488	1542	1560	1585	1661	1723	1723
k1	1288	1288	1548	1548	1646.5	1646.5	1728.5	1725	1750	1831.5	1896	1902
n / n1	257/181	257/181	316 / 224	316 / 224	348 / 250	348 / 250	396 /287	438 / 315,5	438 / 315,5	481 / 335	544 / 350	544 / 350
m1 (B5)	300	300	350	350	350	350	400	450	450	550	550	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

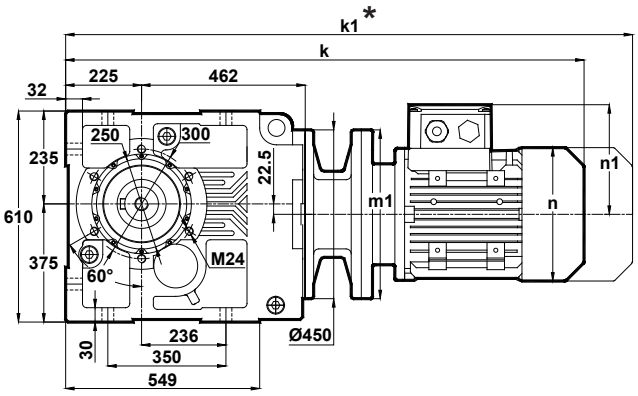
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

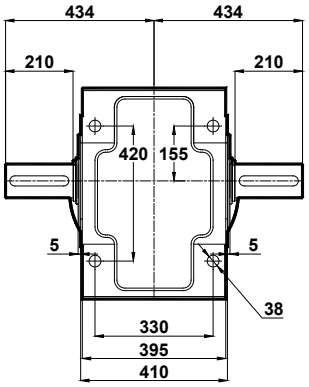


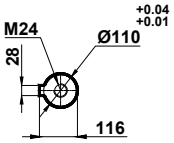
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

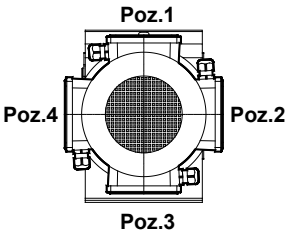
KV873.04







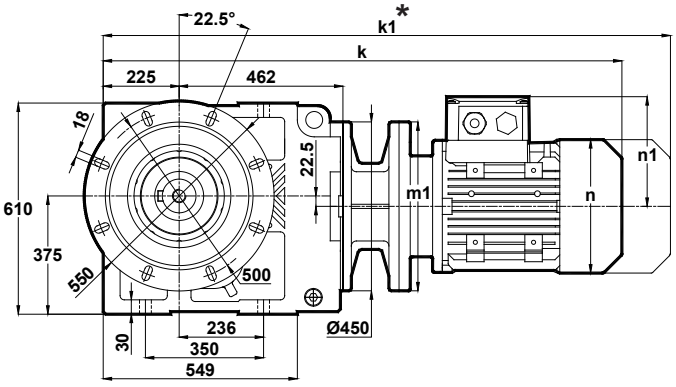
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

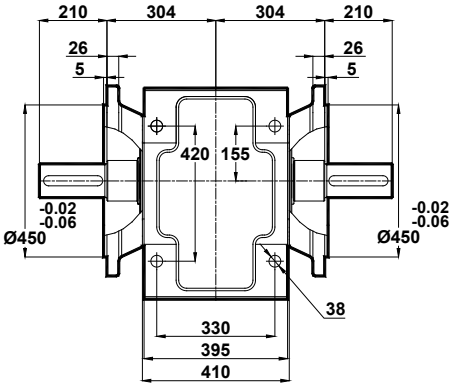


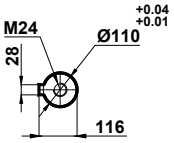
160-180-200-225-250-280
Tip / *Type* / Typ

	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1166	1166	1400	1400	1488	1488	1542	1560	1585	1661	1723	1723
k1	1288	1288	1548	1548	1646.5	1646.5	1728.5	1725	1750	1831.5	1896	1902
n / n1	257/181	257/181	316 / 224	316 / 224	348 / 250	348 / 250	396 /287	438 / 315,5	438 / 315,5	481 / 335	544 / 350	544 / 350
m1 (B5)	300	300	350	350	350	350	400	450	450	550	550	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

KV873.05







Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

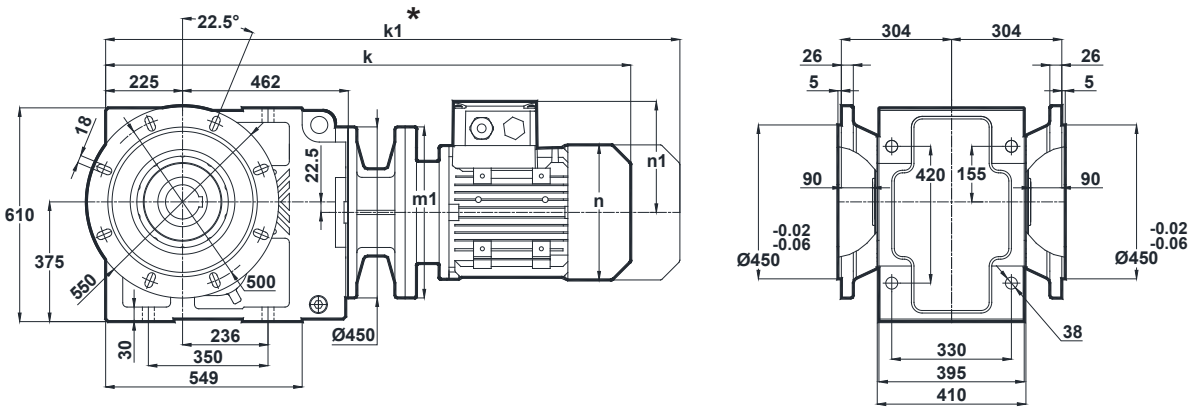
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1166	1166	1400	1400	1488	1488	1542	1560	1585	1661	1723	1723
k1	1288	1288	1548	1548	1646.5	1646.5	1728.5	1725	1750	1831.5	1896	1902
n / n1	257/181	257/181	316 / 224	316 / 224	348 / 250	348 / 250	396 /287	438 / 315,5	438 / 315,5	481 / 335	544 / 350	544 / 350
m1 (B5)	300	300	350	350	350	350	400	450	450	550	550	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

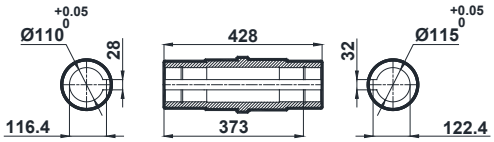
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

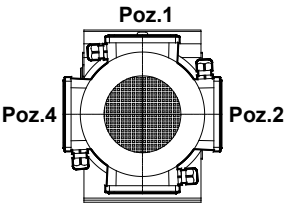
KV873.08





	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1166	1166	1400	1400	1488	1488	1542	1560	1585	1661	1723	1723
k1	1288	1288	1548	1548	1646.5	1646.5	1728.5	1725	1750	1831.5	1896	1902
n / n1	257/181	257/181	316 / 224	316 / 224	348 / 250	348 / 250	396 /287	438 / 315,5	438 / 315,5	481 / 335	544 / 350	544 / 350
m1 (B5)	300	300	350	350	350	350	400	450	450	550	550	550
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



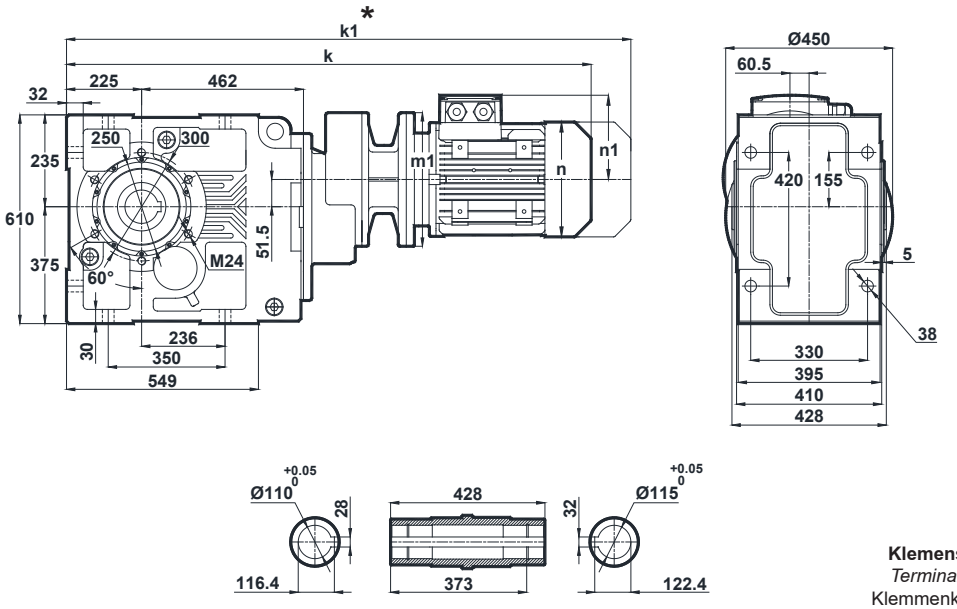
160-180-200-225-250-280
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

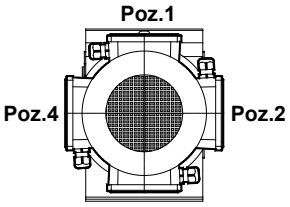
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV874.00



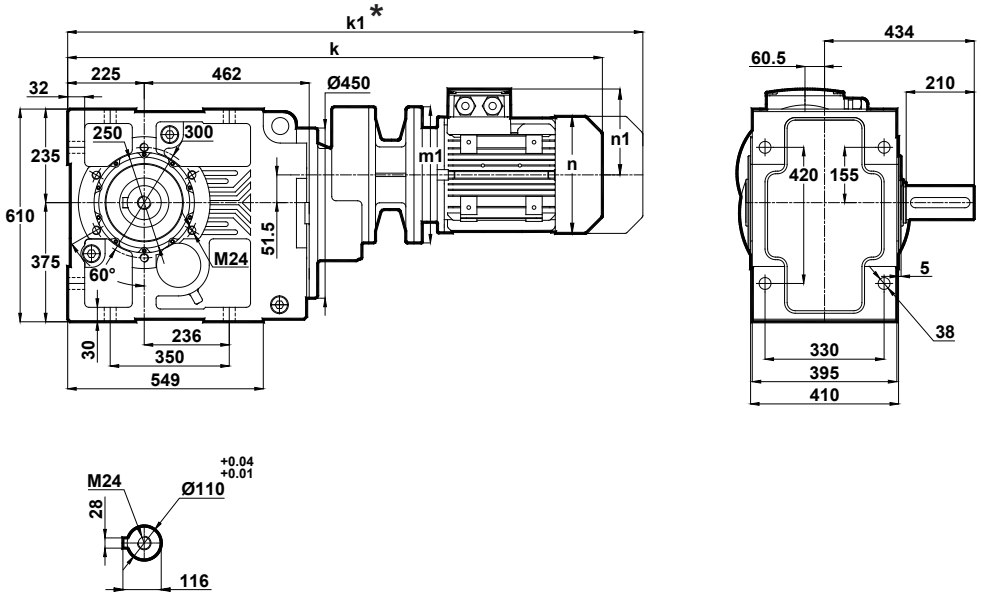
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5
k	1188	1208.5	1313.5	1313.5	1469	1469	1557
k1	1296.5	1313	1443.5	1443.5	1617	1617	1715.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250
m1 (B5)	250	250	300	300	350	350	350
m1 (B14)	-	-	200	200	-	-	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



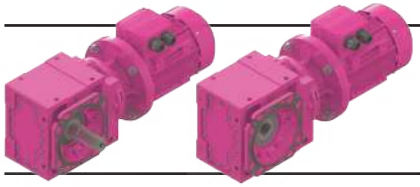
100-112-132-160-180
Tip / *Type* / Typ

KV874.01



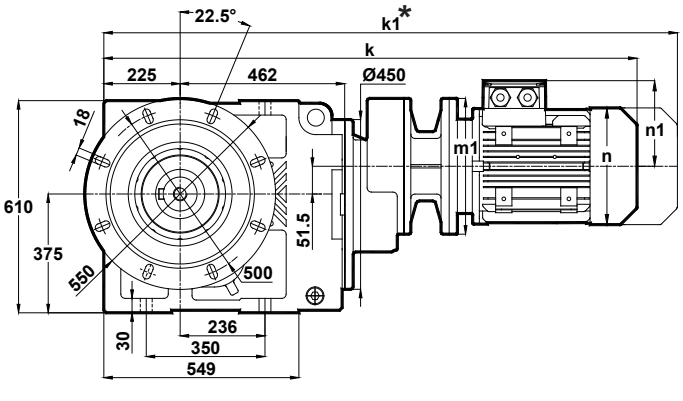
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5
k	1188	1208.5	1313.5	1313.5	1469	1469	1557
k1	1296.5	1313	1443.5	1443.5	1617	1617	1715.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250
m1 (B5)	250	250	300	300	350	350	350
m1 (B14)	-	-	200	200	-	-	-

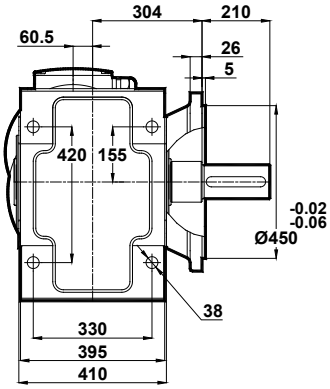
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

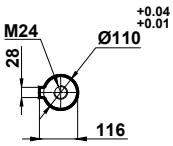


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV874.02

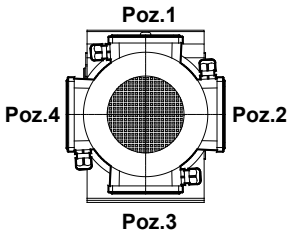






	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5
k	1188	1208.5	1313.5	1313.5	1469	1469	1557
k1	1296.5	1313	1443.5	1443.5	1617	1617	1715.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250
m1 (B5)	250	250	300	300	350	350	350
m1 (B14)	-	-	200	200	-	-	-

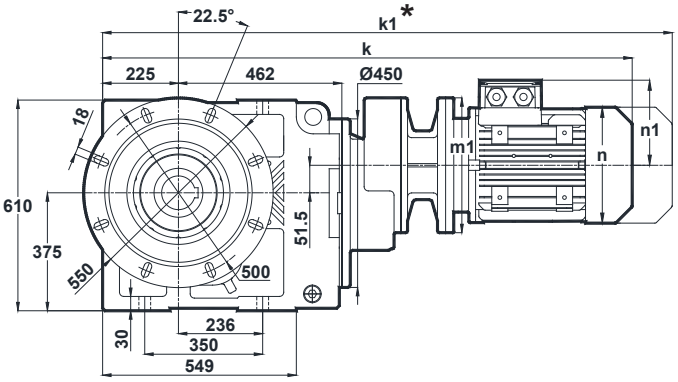
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

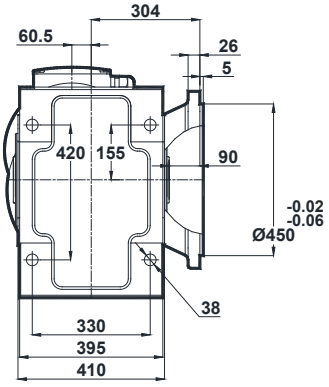


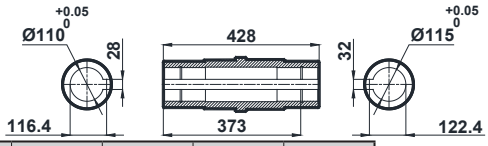
100-112-132-160-180
Tip / *Type /* Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV874.03



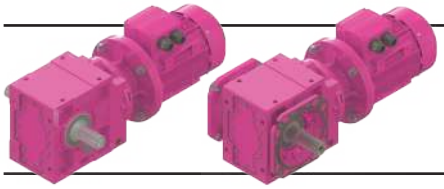




	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5
k	1188	1208.5	1313.5	1313.5	1469	1469	1557
k1	1296.5	1313	1443.5	1443.5	1617	1617	1715.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250
m1 (B5)	250	250	300	300	350	350	350
m1 (B14)	-	-	200	200	-	-	-

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

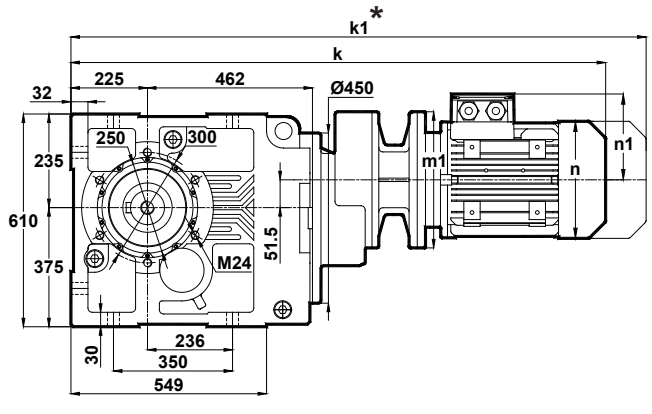
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

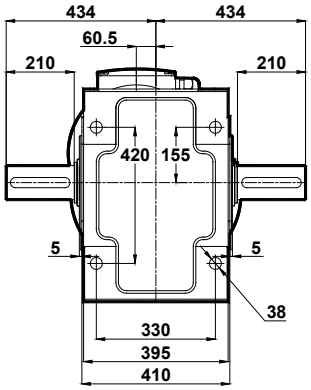


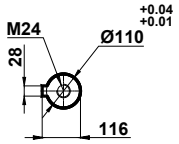
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV874.04

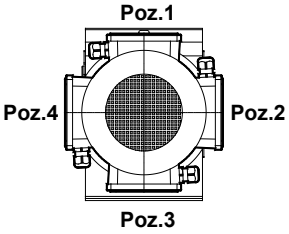






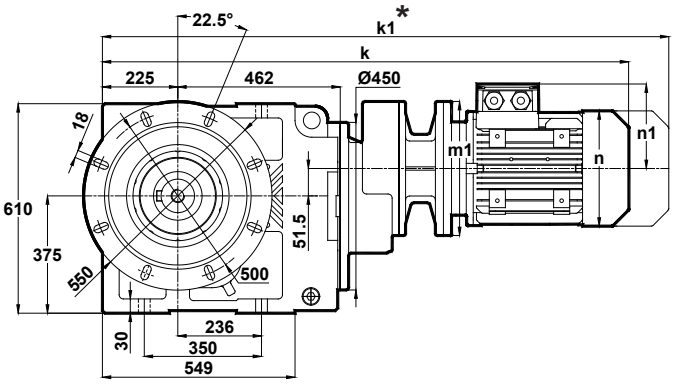
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5
k	1188	1208.5	1313.5	1313.5	1469	1469	1557
k1	1296.5	1313	1443.5	1443.5	1617	1617	1715.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250
m1 (B5)	250	250	300	300	350	350	350
m1 (B14)	-	-	200	200	-	-	-

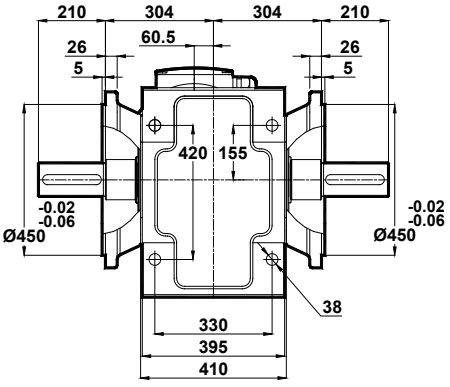
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

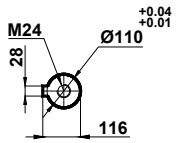


100-112-132-160-180
Tip / *Type* / Typ

KV874.05







Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

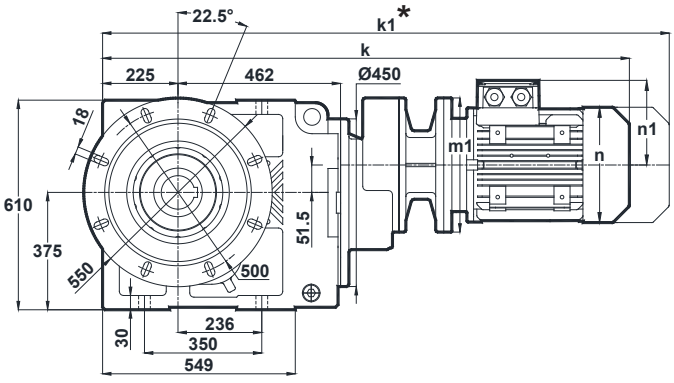
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5
k	1188	1208.5	1313.5	1313.5	1469	1469	1557
k1	1296.5	1313	1443.5	1443.5	1617	1617	1715.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250
m1 (B5)	250	250	300	300	350	350	350
m1 (B14)	-	-	200	200	-	-	-

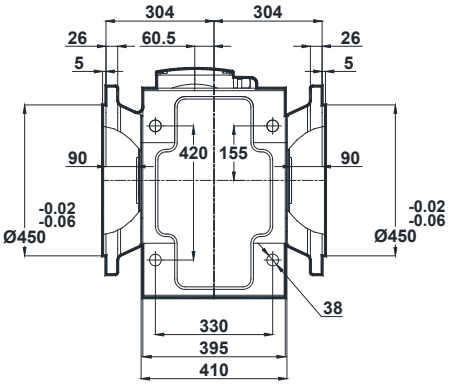
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

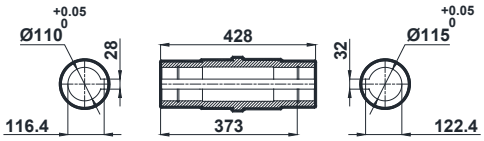
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV874.08

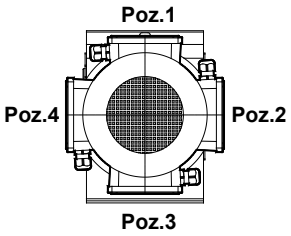






	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5
k	1188	1208.5	1313.5	1313.5	1469	1469	1557
k1	1296.5	1313	1443.5	1443.5	1617	1617	1715.5
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250
m1 (B5)	250	250	300	300	350	350	350
m1 (B14)	-	-	200	200	-	-	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



100-112-132-160-180
Tip / *Type* / Typ

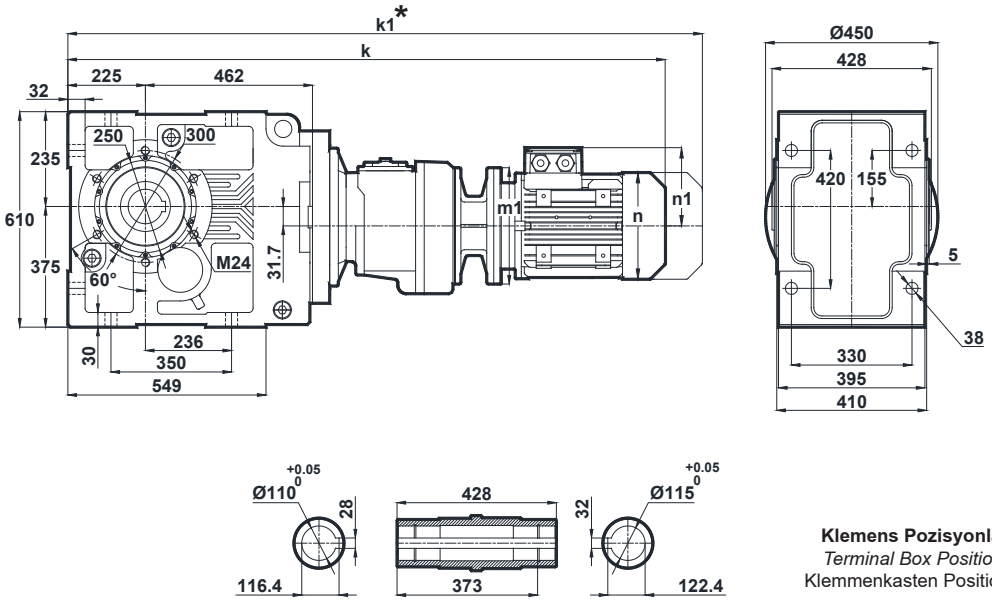
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

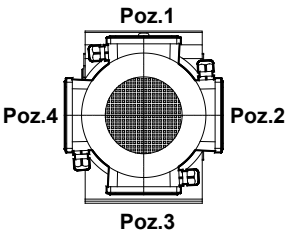
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV875.00
KV876.00



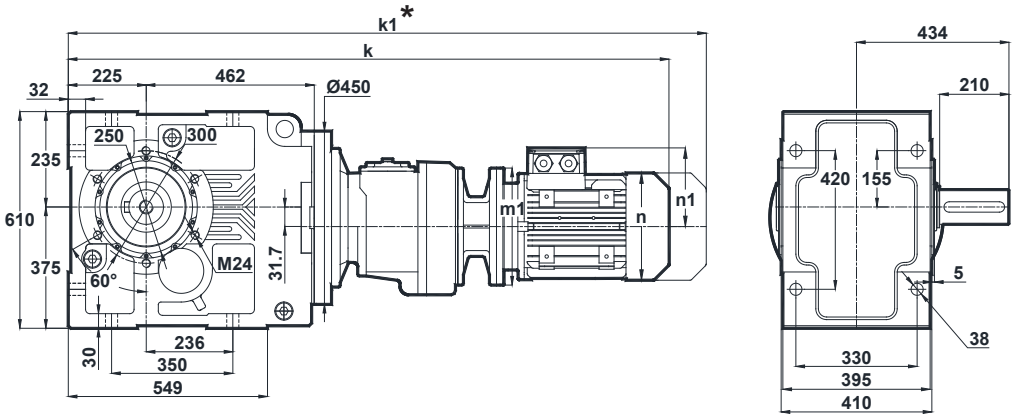
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

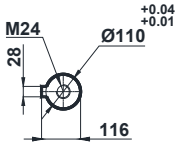
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1207.5	1230.5	1271.5	1271.5	1324	1344.5	1448,5	1448,5
k1	1298.5	1323.5	1375	1375	1432.5	1449	1570,5	1570,5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200



71-80-90-100-112
Tip / *Type* / Typ

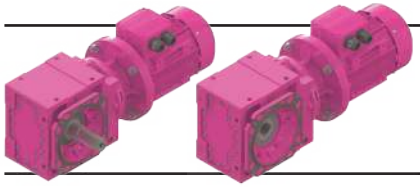
KV875.01
KV876.01





	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1207.5	1230.5	1271.5	1271.5	1324	1344.5	1448,5	1448,5
k1	1298.5	1323.5	1375	1375	1432.5	1449	1570,5	1570,5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200

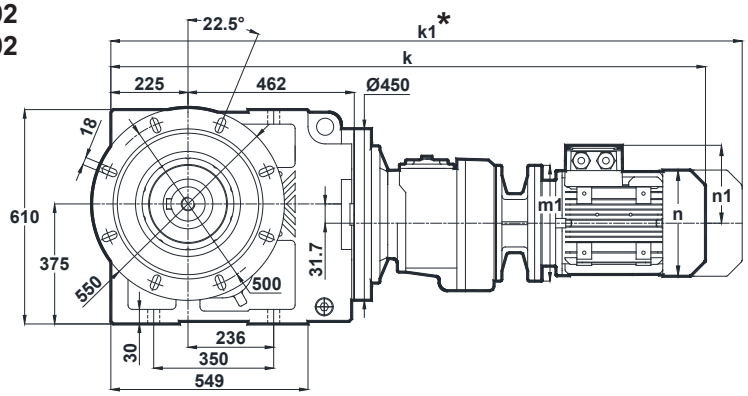
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

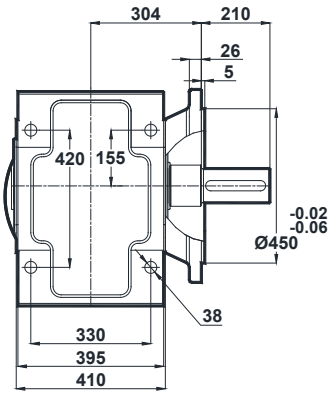


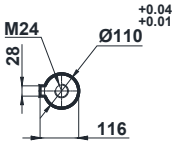
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV875.02
KV876.02

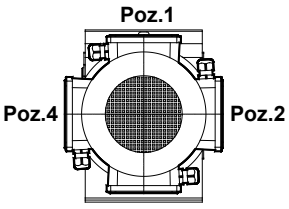






	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1207.5	1230.5	1271.5	1271.5	1324	1344.5	1448,5	1448,5
k1	1298.5	1323.5	1375	1375	1432.5	1449	1570,5	1570,5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200

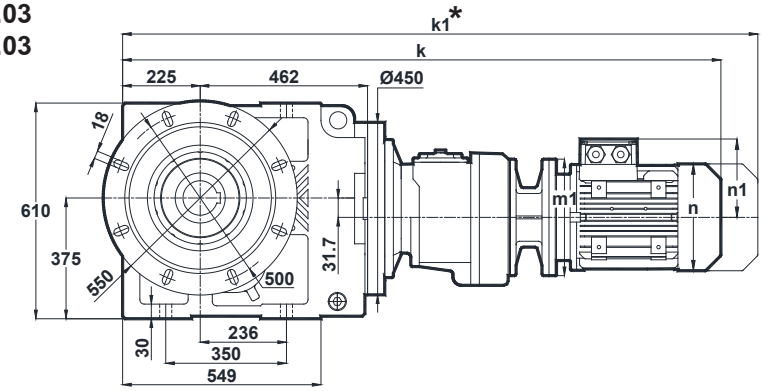
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

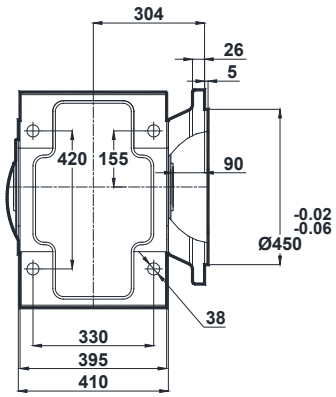


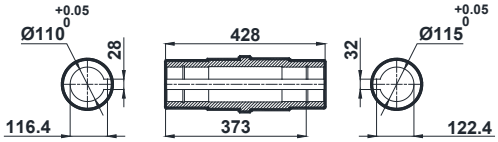
71-80-90-100-112
Tip / *Type* / Typ

Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KV875.03
KV876.03



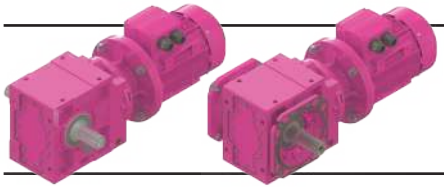




	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1207.5	1230.5	1271.5	1271.5	1324	1344.5	1448,5	1448,5
k1	1298.5	1323.5	1375	1375	1432.5	1449	1570,5	1570,5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200

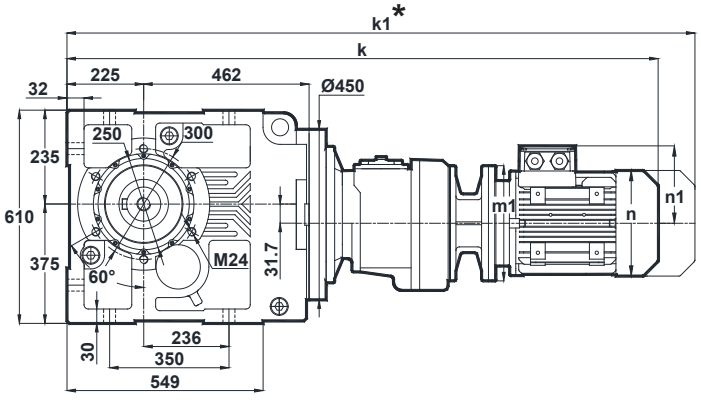
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

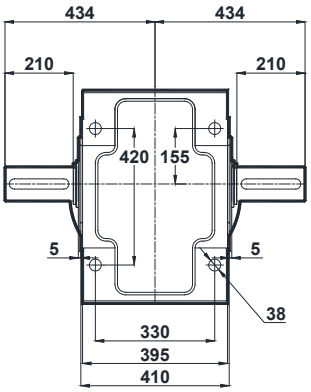
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

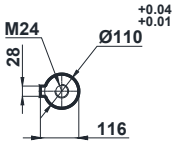


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV875.04
KV876.04

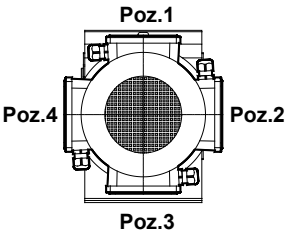






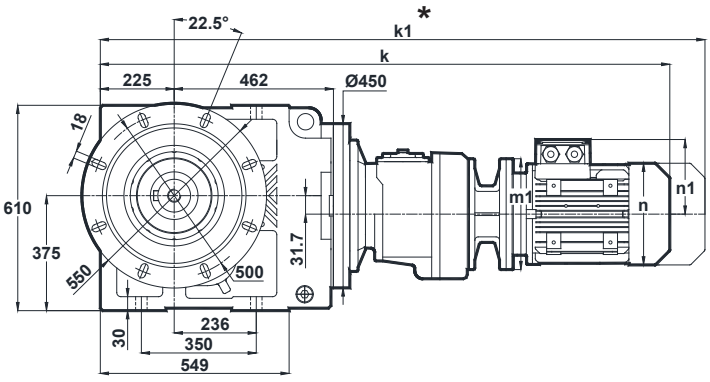
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1207.5	1230.5	1271.5	1271.5	1324	1344.5	1448,5	1448,5
k1	1298.5	1323.5	1375	1375	1432.5	1449	1570,5	1570,5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200

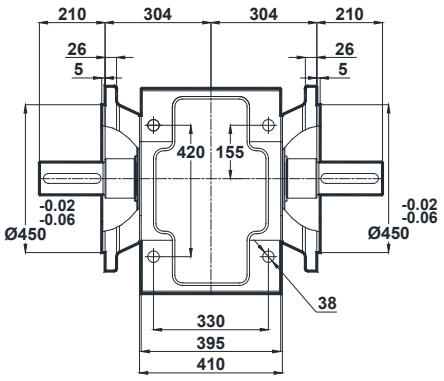
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

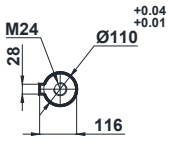


71-80-90-100-112
Tip / *Type* / Typ

KV875.05
KV876.05







Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

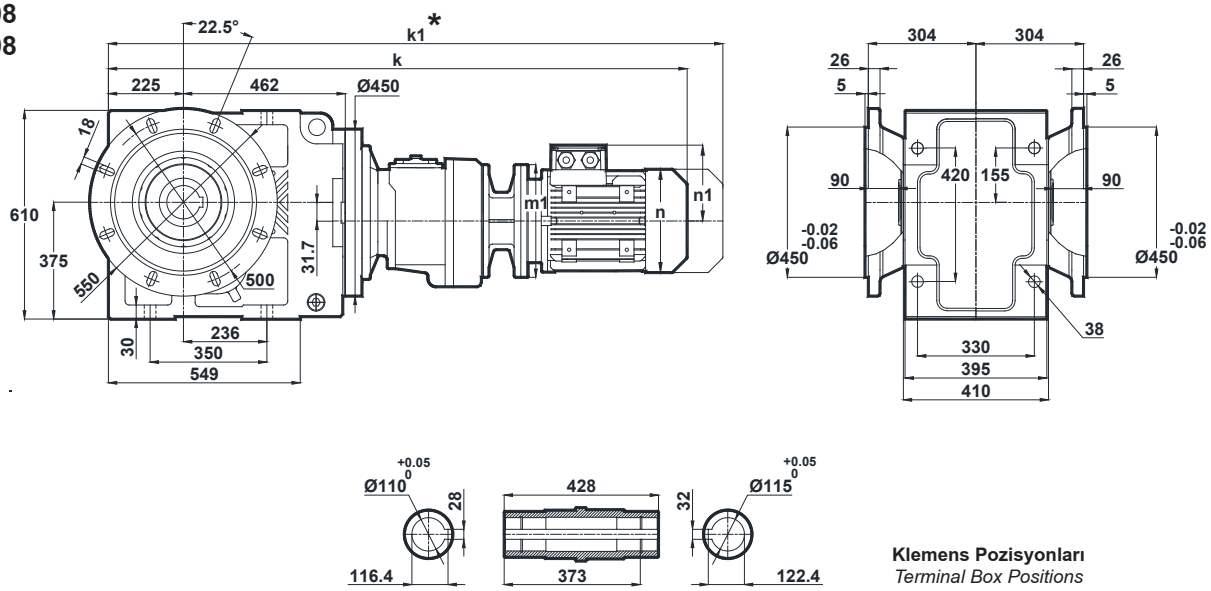
	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1207.5	1230.5	1271.5	1271.5	1324	1344.5	1448,5	1448,5
k1	1298.5	1323.5	1375	1375	1432.5	1449	1570,5	1570,5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

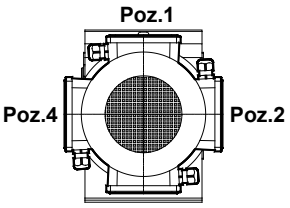
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV875.08
KV876.08



	71/B5	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1207.5	1230.5	1271.5	1271.5	1324	1344.5	1448,5	1448,5
k1	1298.5	1323.5	1375	1375	1432.5	1449	1570,5	1570,5
n / n1	137 / 112	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257/181	257/181
m1 (B5)	160	200	200	200	250	250	300	300
m1 (B14)	-	120	140	140	160	160	200	200

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-80-90-100-112
Tip / *Type* / Typ

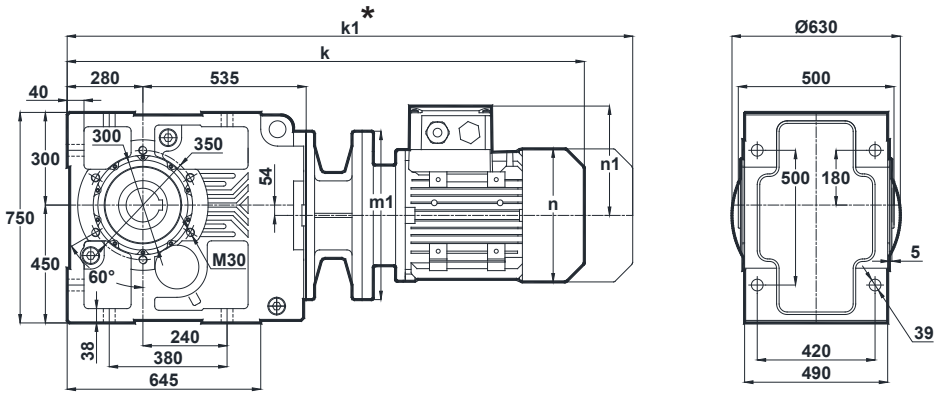
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

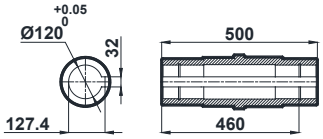
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

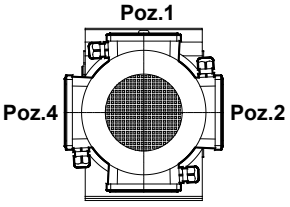
KV973.00





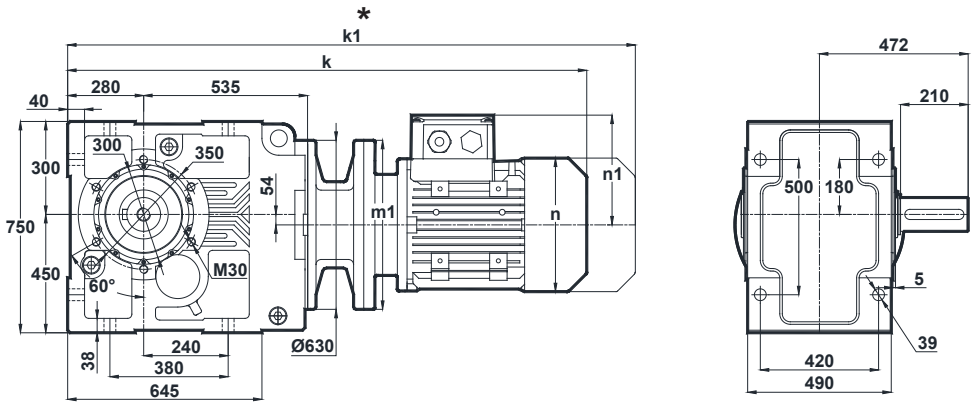
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5	315S/B5	315M/B5
k	1442	1442	1534	1534	1601	1698	1698	1791	1853	1853	2095	2095
k1	1590	1590	1692.5	1692.5	1783	1880.5	1880.5	1948.5	2051	2051	-	-
n / n1	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316	481 / 335	547 / 402	547 / 402	614 / 510	614 / 510
m1 (B5)	350	350	350	350	400	450	450	550	550	550	660	660
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

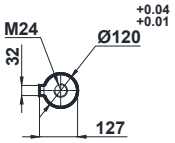
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



160-180-200-225-250-280-315
Tip / *Type* / Typ

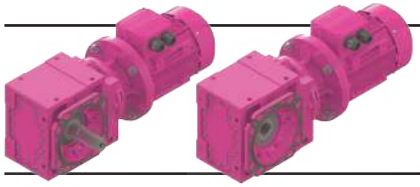
KV973.01





	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5	315S/B5	315M/B5
k	1442	1442	1534	1534	1601	1698	1698	1791	1853	1853	2095	2095
k1	1590	1590	1692.5	1692.5	1783	1880.5	1880.5	1948.5	2051	2051	-	-
n / n1	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316	481 / 335	547 / 402	547 / 402	614 / 510	614 / 510
m1 (B5)	350	350	350	350	400	450	450	550	550	550	660	660
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

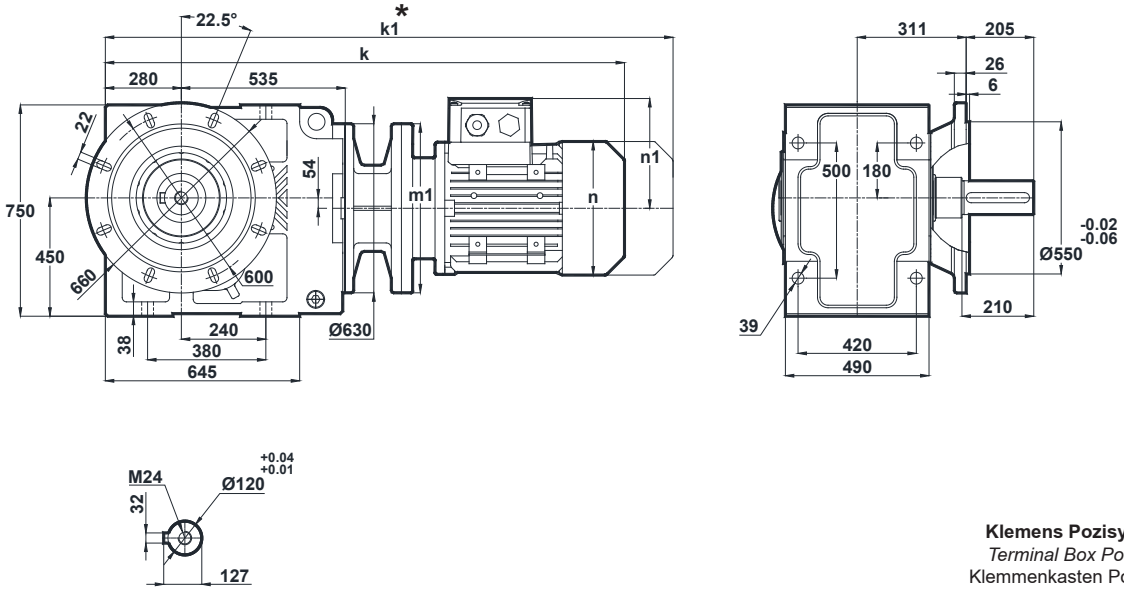
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



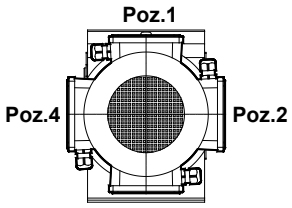
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV973.02



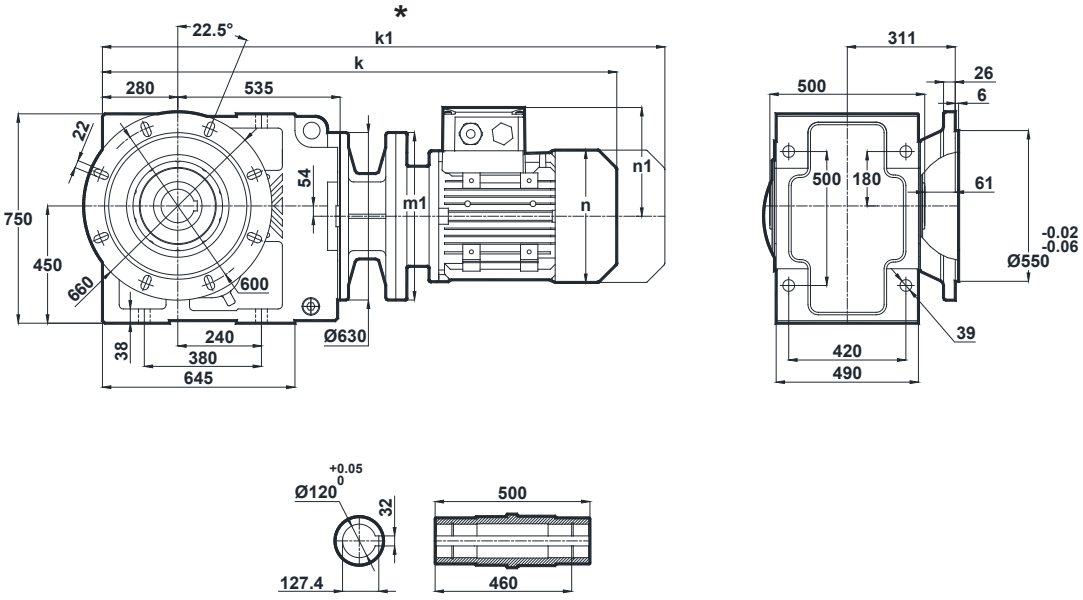
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



160-180-200-225-250-280-315
Tip / *Type* / Typ

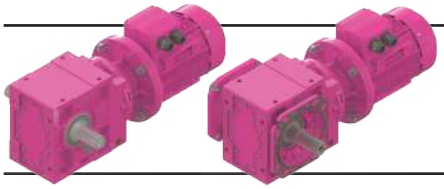
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5	315S/B5	315M/B5
k	1442	1442	1534	1534	1601	1698	1698	1791	1853	1853	2095	2095
k1	1590	1590	1692.5	1692.5	1783	1880.5	1880.5	1948.5	2051	2051	-	-
n / n1	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316	481 / 335	547 / 402	547 / 402	614 / 510	614 / 510
m1 (B5)	350	350	350	350	400	450	450	550	550	550	660	660
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

KV973.03



	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5	315S/B5	315M/B5
k	1442	1442	1534	1534	1601	1698	1698	1791	1853	1853	2095	2095
k1	1590	1590	1692.5	1692.5	1783	1880.5	1880.5	1948.5	2051	2051	-	-
n / n1	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316	481 / 335	547 / 402	547 / 402	614 / 510	614 / 510
m1 (B5)	350	350	350	350	400	450	450	550	550	550	660	660
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

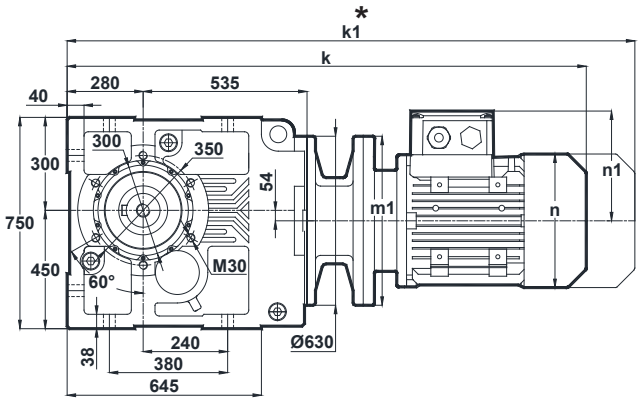
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

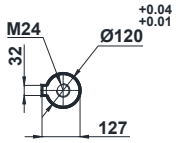


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

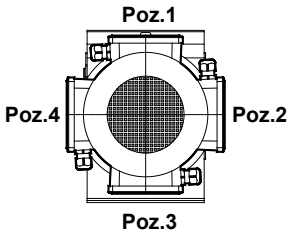
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV973.04





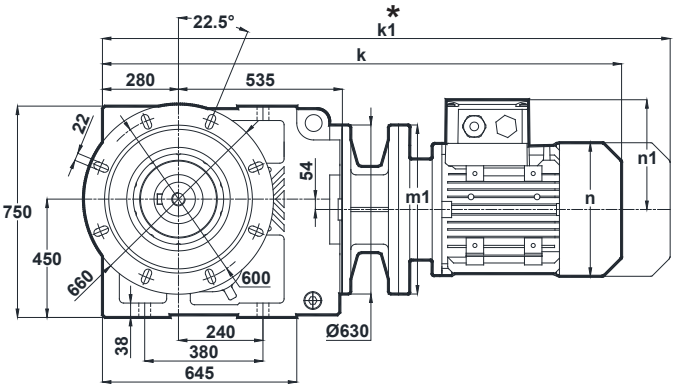
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

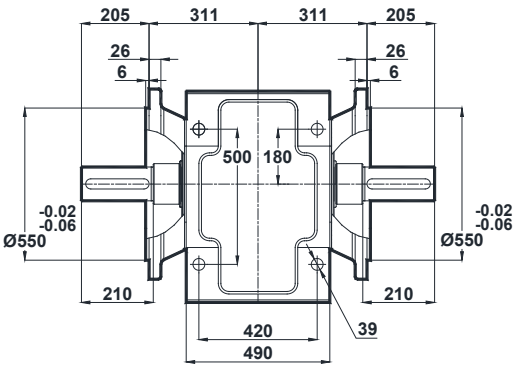


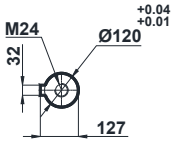
160-180-200-225-250-280-315
Tip / *Type* / Typ

	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5	315S/B5	315M/B5
k	1442	1442	1534	1534	1601	1698	1698	1791	1853	1853	2095	2095
k1	1590	1590	1692.5	1692.5	1783	1880.5	1880.5	1948.5	2051	2051	-	-
n / n1	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316	481 / 335	547 / 402	547 / 402	614 / 510	614 / 510
m1 (B5)	350	350	350	350	400	450	450	550	550	550	660	660
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

KV973.05







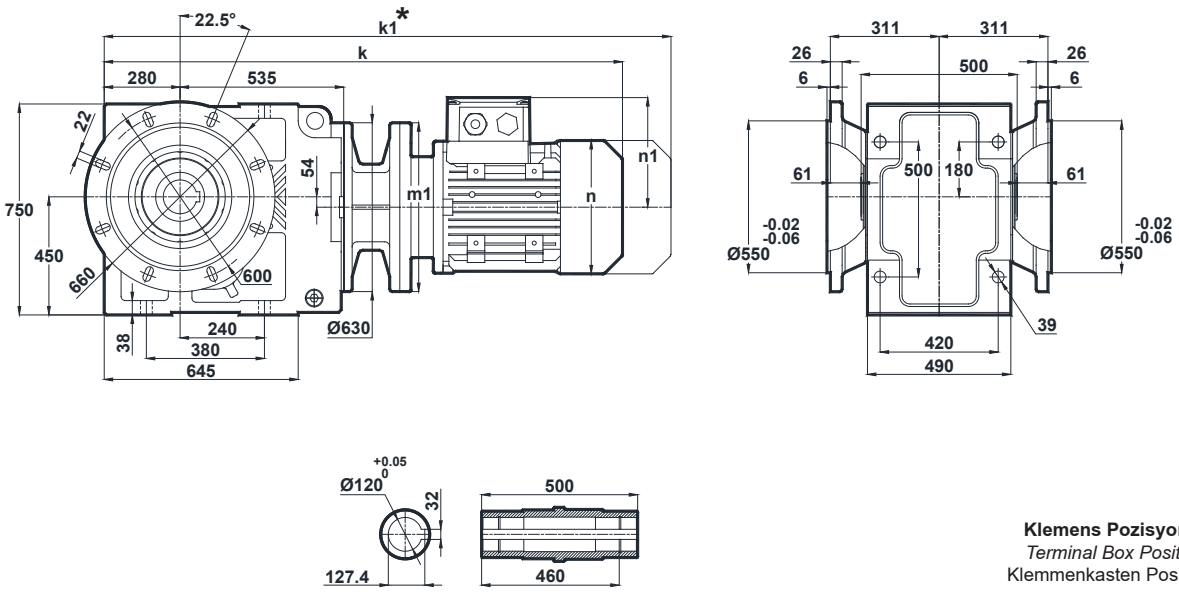
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5	315S/B5	315M/B5
k	1442	1442	1534	1534	1601	1698	1698	1791	1853	1853	2095	2095
k1	1590	1590	1692.5	1692.5	1783	1880.5	1880.5	1948.5	2051	2051	-	-
n / n1	316 / 224	316 / 224	354 / 240	354 / 240	399 / 285	438 / 314	438 / 314	481 / 335	544 / 350	544 / 350	614 / 510	614 / 510
m1 (B5)	350	350	350	350	400	450	450	550	550	550	660	660
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

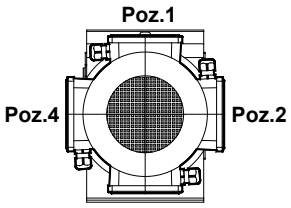
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV973.08



Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



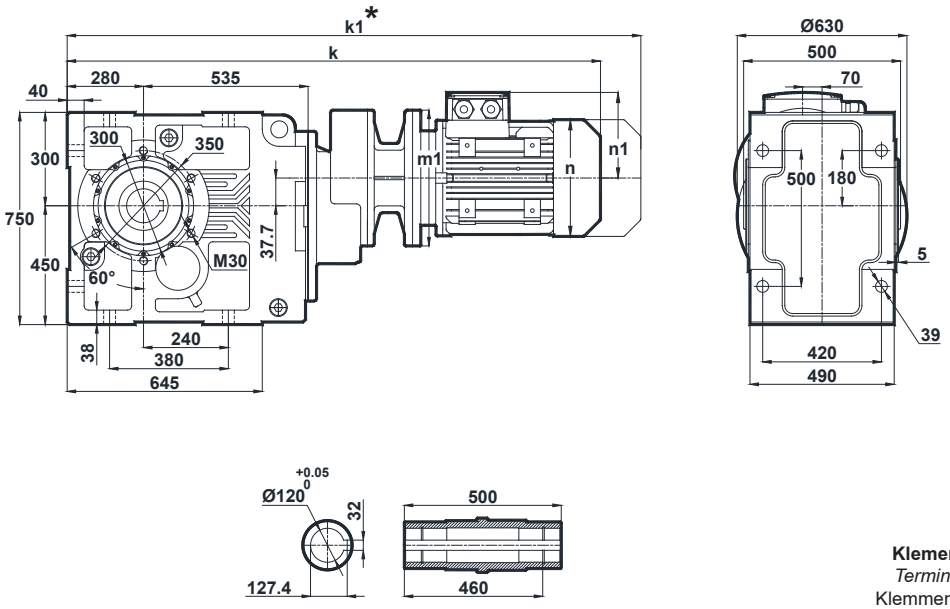
160-180-200-225-250-280-315
Tip / *Type* / Typ

	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5	315S/B5	315M/B5
k	1442	1442	1534	1534	1601	1698	1698	1791	1853	1853	2095	2095
k1	1590	1590	1692.5	1692.5	1783	1880.5	1880.5	1948.5	2051	2051	-	-
n / n1	316 / 224	316 / 224	348 / 250	348 / 250	396 / 287	438 / 316	438 / 316	481 / 335	547 / 402	547 / 402	614 / 510	614 / 510
m1 (B5)	350	350	350	350	400	450	450	550	550	550	660	660
m1 (B14)	-	-	-	-	-	-	-	-	-	-	-	-

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

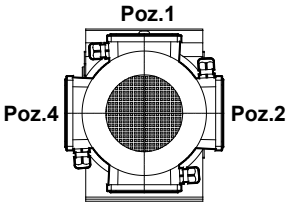
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV974.00



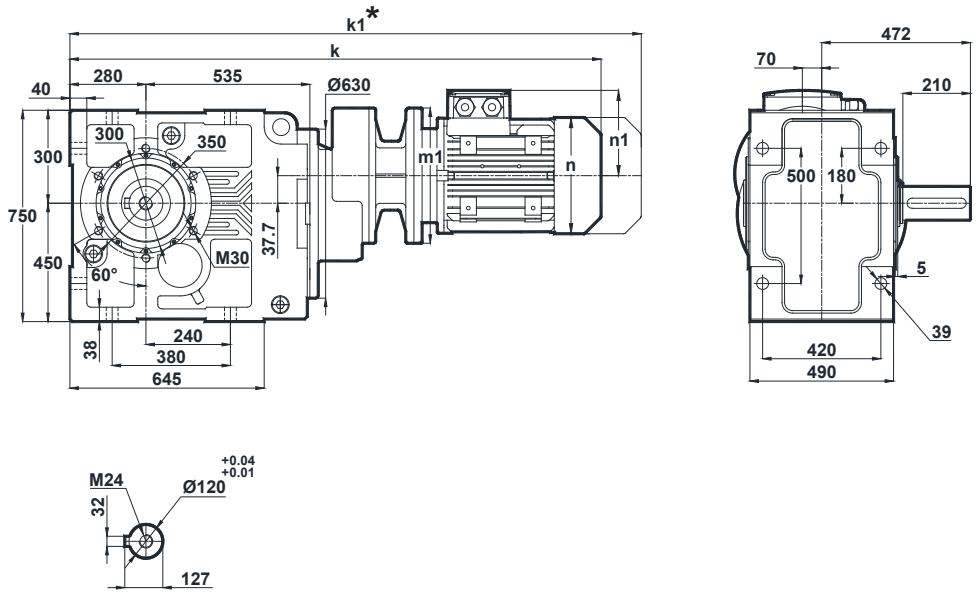
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	1346	1365.5	1465.5	1465.5	1620.5	1620.5	1712.5	1712.5
k1	1454.5	1470	1595.5	1595.5	1768.5	1768.5	1871	1871
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



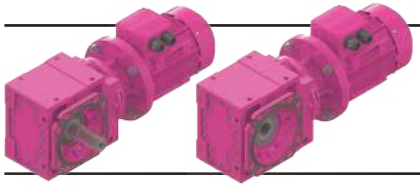
100-112-132-160-180
Tip / *Type* / Typ

KV974.01



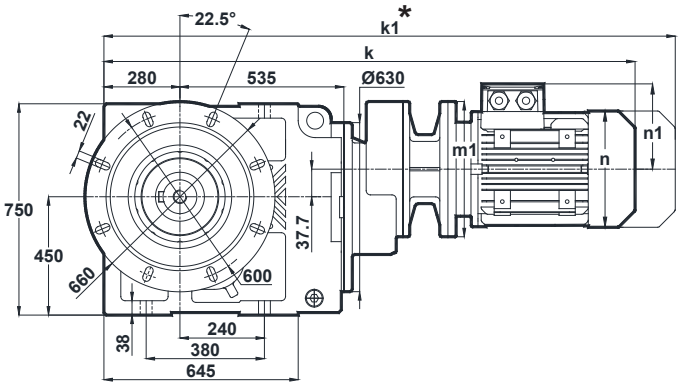
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	1346	1365.5	1465.5	1465.5	1620.5	1620.5	1712.5	1712.5
k1	1454.5	1470	1595.5	1595.5	1768.5	1768.5	1871	1871
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-

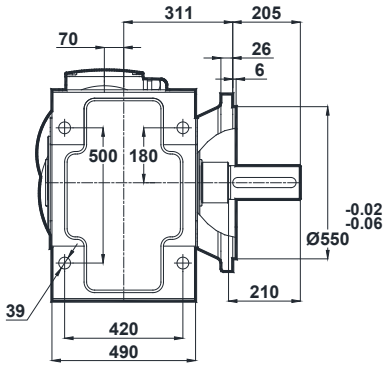
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

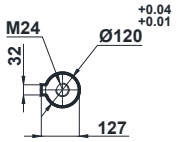


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV974.02

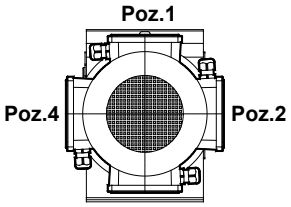






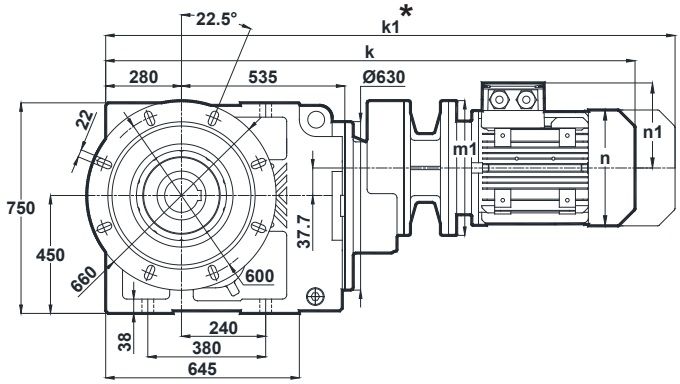
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	1346	1365.5	1465.5	1465.5	1620.5	1620.5	1712.5	1712.5
k1	1454.5	1470	1595.5	1595.5	1768.5	1768.5	1871	1871
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-

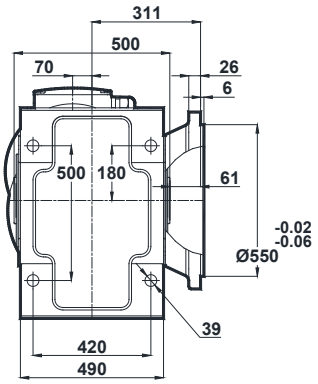
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

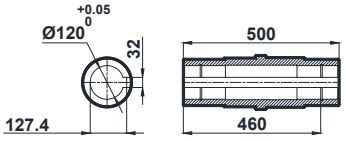


100-112-132-160-180
Tip / *Type* / Typ

KV974.03

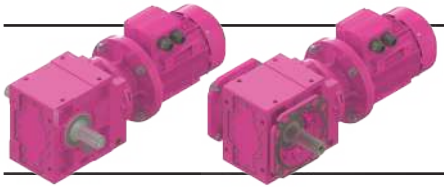






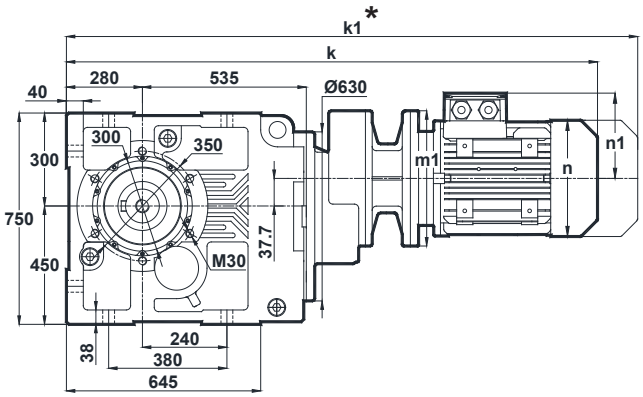
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	1346	1365.5	1465.5	1465.5	1620.5	1620.5	1712.5	1712.5
k1	1454.5	1470	1595.5	1595.5	1768.5	1768.5	1871	1871
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-

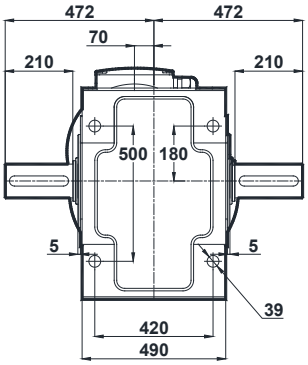
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

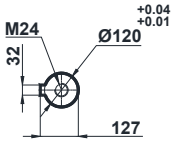


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV974.04

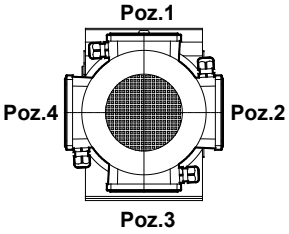






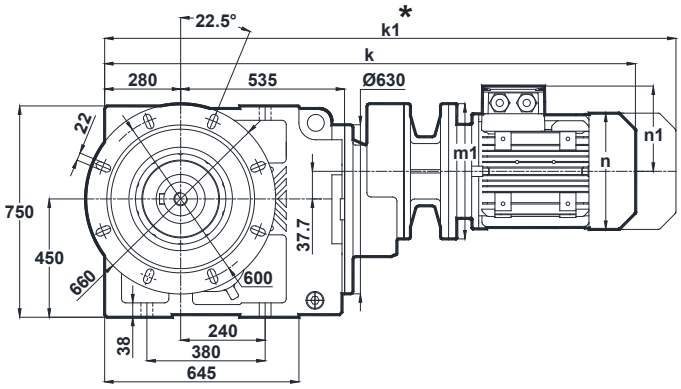
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	1346	1365.5	1465.5	1465.5	1620.5	1620.5	1712.5	1712.5
k1	1454.5	1470	1595.5	1595.5	1768.5	1768.5	1871	1871
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-

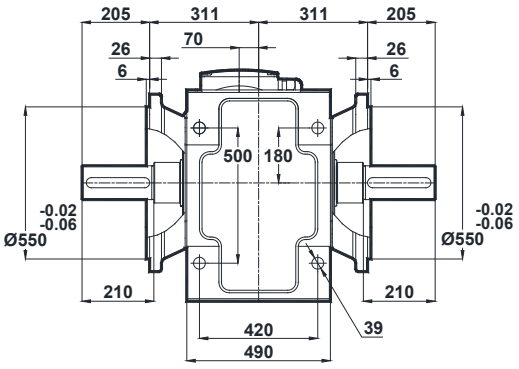
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

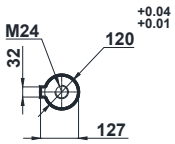


100-112-132-160-180
Tip / *Type* / Typ

KV974.05







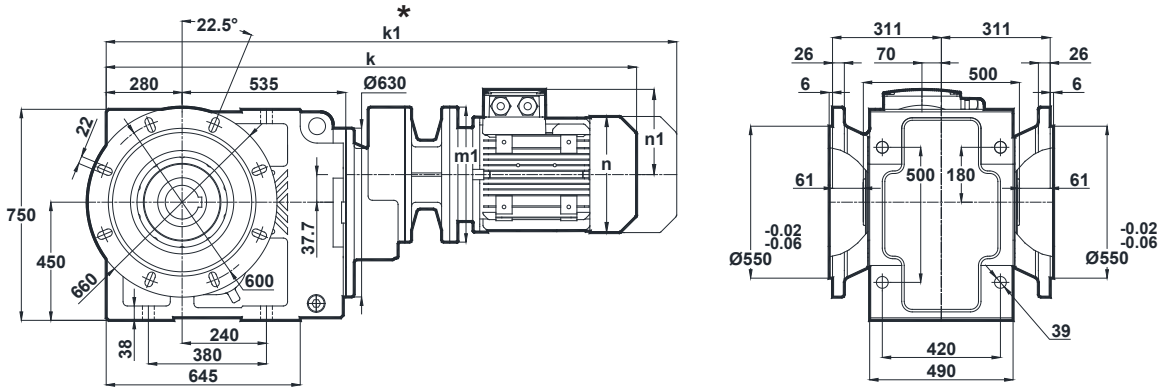
	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	1346	1365.5	1465.5	1465.5	1620.5	1620.5	1712.5	1712.5
k1	1454.5	1470	1595.5	1595.5	1768.5	1768.5	1871	1871
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-

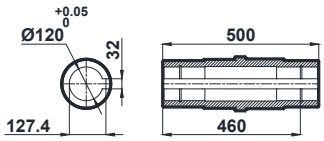
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

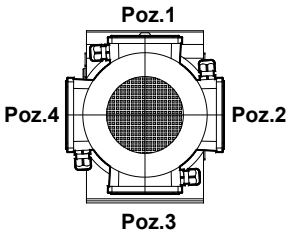
KV974.08





	100L/B5	112M/B5	132S/B5 132S/B14	132M/B5 132M/B14	160M/B5	160L/B5	180M/B5	180L/B5
k	1346	1365.5	1465.5	1465.5	1620.5	1620.5	1712.5	1712.5
k1	1454.5	1470	1595.5	1595.5	1768.5	1768.5	1871	1871
n / n1	193 / 149	215 / 161	257 / 181	257 / 181	316 / 224	316 / 224	348 / 250	348 / 250
m1 (B5)	250	250	300	300	350	350	350	350
m1 (B14)	-	-	200	200	-	-	-	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

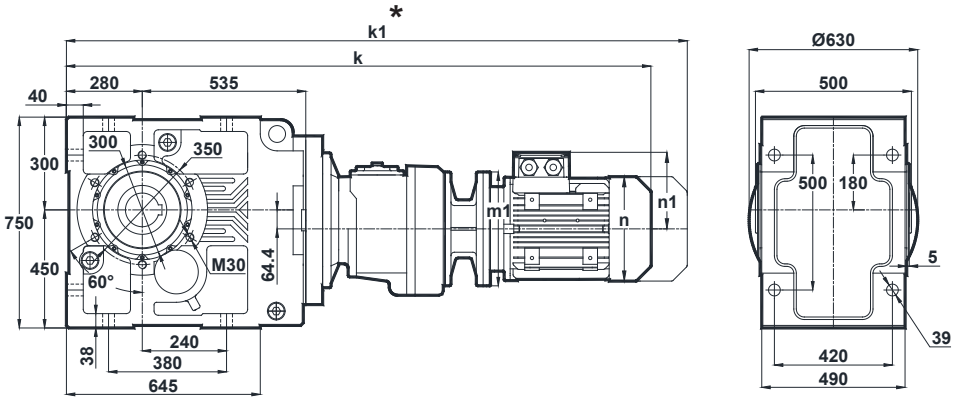


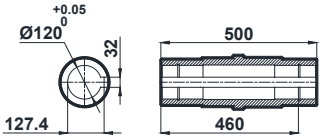
100-112-132-160-180
Tip / *Type* / Typ

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

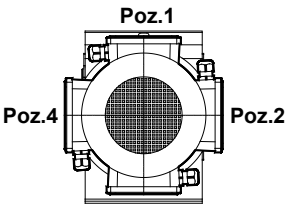
KV975.00
KV976.00





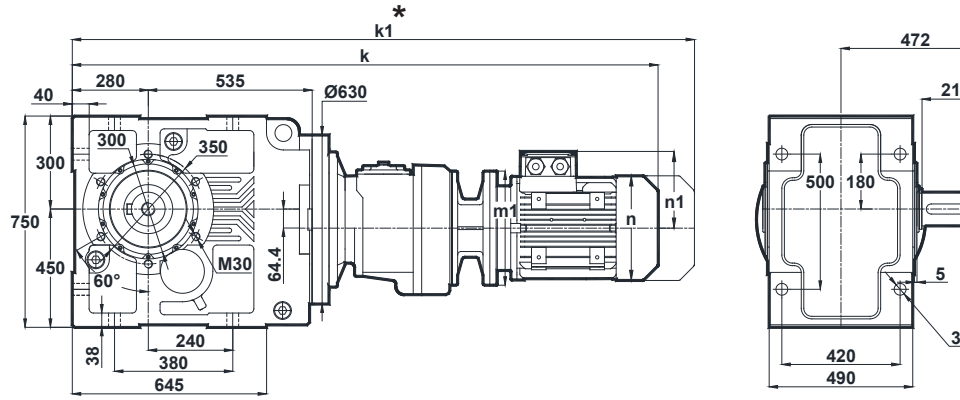
	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1405.5	1446.5	1446.5	1500.5	1520	1623.5	1623.5
k1	1498.5	1550	1550	1609	1624.5	1753.5	1753.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	200	250	250	300	300
m1 (B14)	-	140	140	160	160	200	200

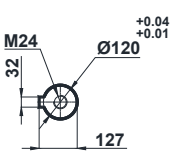
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



80-90-100-112-132
Tip / *Type* / Typ

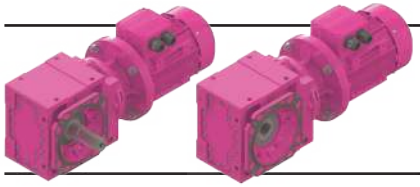
KV975.01
KV976.01





	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1405.5	1446.5	1446.5	1500.5	1520	1623.5	1623.5
k1	1498.5	1550	1550	1609	1624.5	1753.5	1753.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	200	250	250	300	300
m1 (B14)	-	140	140	160	160	200	200

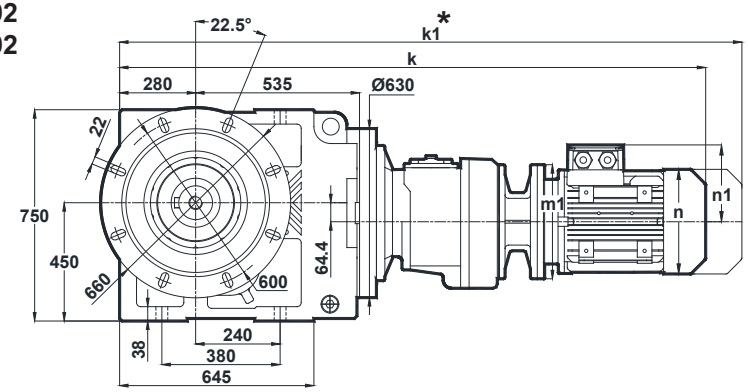
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

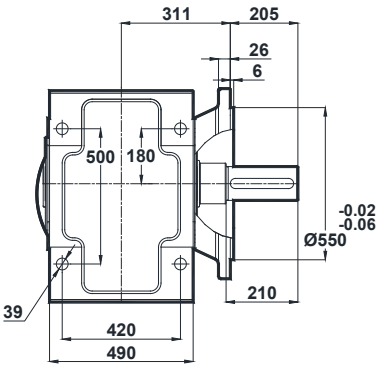


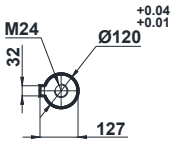
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

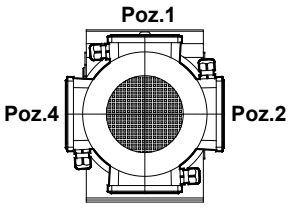
KV975.02
KV976.02







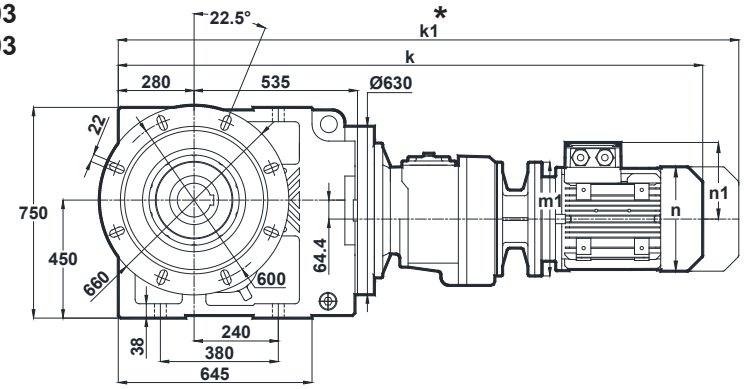
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

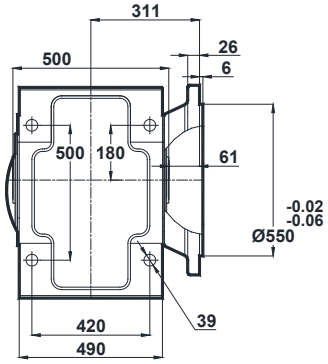


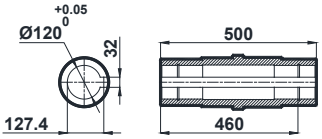
80-90-100-112-132
Tip / *Type* / Typ

	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1405.5	1446.5	1446.5	1500.5	1520	1623.5	1623.5
k1	1498.5	1550	1550	1609	1624.5	1753.5	1753.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	200	250	250	300	300
m1 (B14)	-	140	140	160	160	200	200

KV975.03
KV976.03

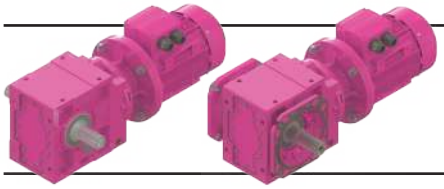






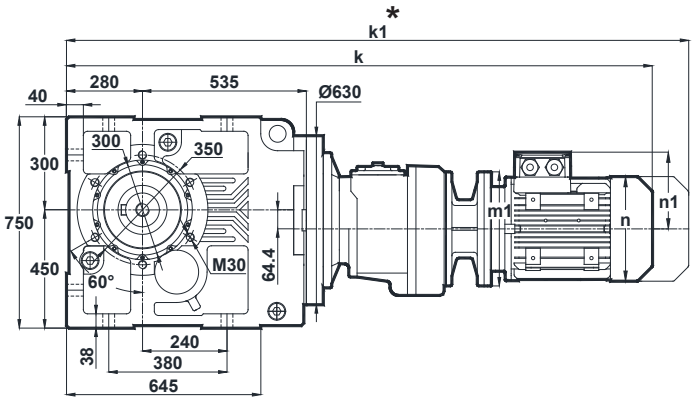
	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1405.5	1446.5	1446.5	1500.5	1520	1623.5	1623.5
k1	1498.5	1550	1550	1609	1624.5	1753.5	1753.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	200	250	250	300	300
m1 (B14)	-	140	140	160	160	200	200

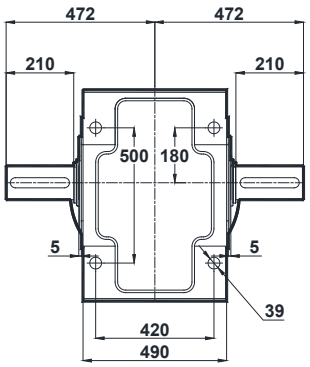
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

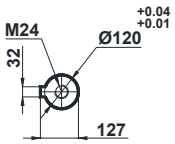


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV975.04
KV976.04

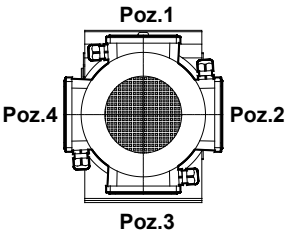






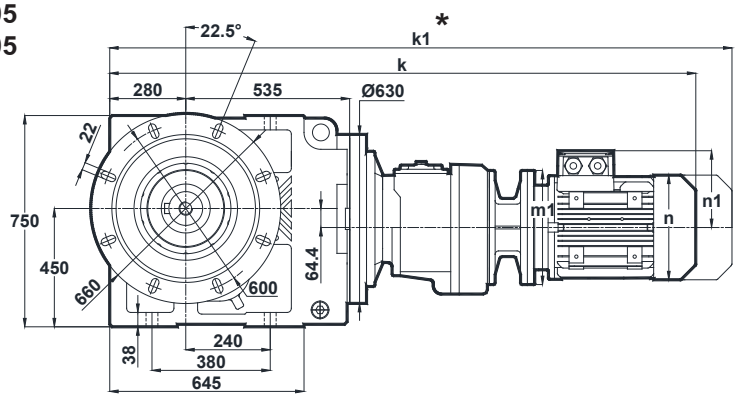
	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1405.5	1446.5	1446.5	1500.5	1520	1623.5	1623.5
k1	1498.5	1550	1550	1609	1624.5	1753.5	1753.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	200	250	250	300	300
m1 (B14)	-	140	140	160	160	200	200

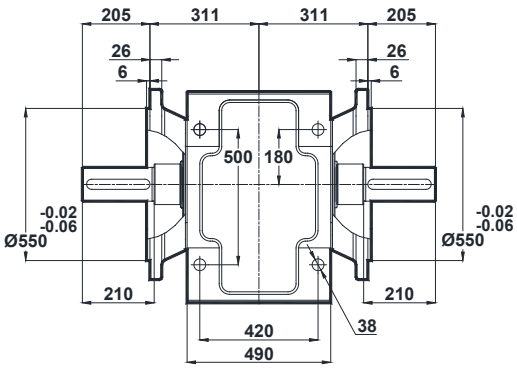
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

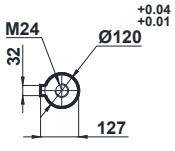


80-90-100-112-132
Tip / *Type* / Typ

KV975.05
KV976.05





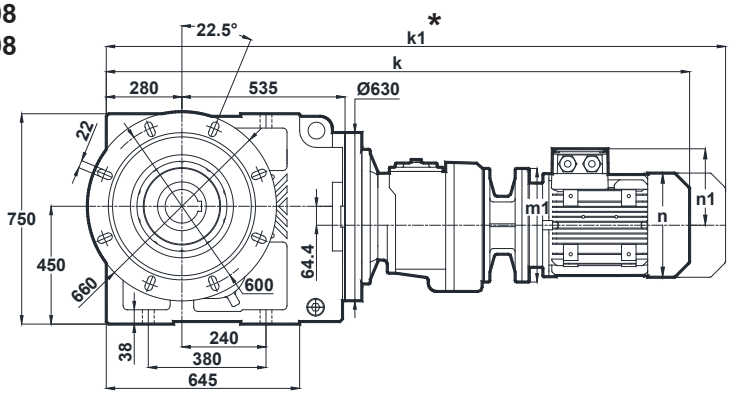


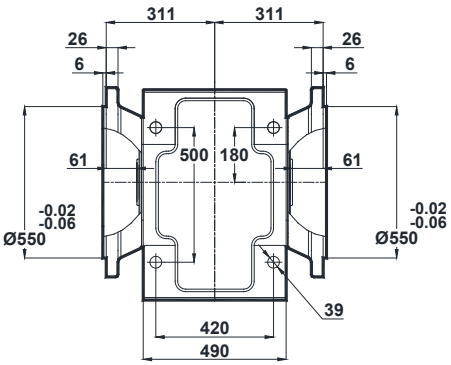
	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1405.5	1446.5	1446.5	1500.5	1520	1623.5	1623.5
k1	1498.5	1550	1550	1609	1624.5	1753.5	1753.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	200	250	250	300	300
m1 (B14)	-	140	140	160	160	200	200

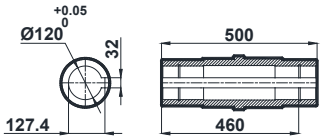
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KV975.08
KV976.08

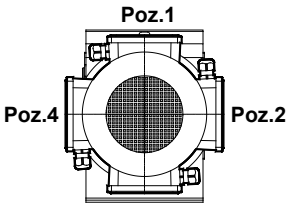






	80/B5 80/B14	90S/B5 90S/B14	90L/B5 90L/B14	100L/B5 100L/B14	112M/B5 112M/B14	132S/B5 132S/B14	132M/B5 132M/B14
k	1405.5	1446.5	1446.5	1500.5	1520	1623.5	1623.5
k1	1498.5	1550	1550	1609	1624.5	1753.5	1753.5
n / n1	155 / 123	176 / 132	176 / 132	193 / 149	215 / 161	257 / 181	257 / 181
m1 (B5)	200	200	200	250	250	300	300
m1 (B14)	-	140	140	160	160	200	200

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

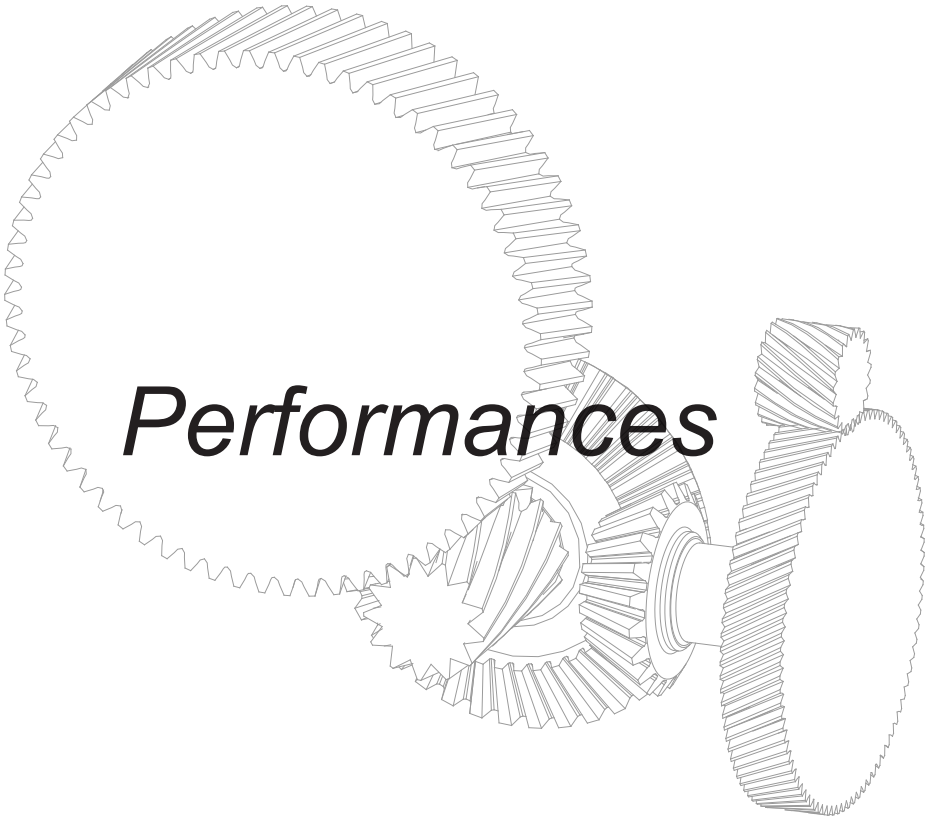


80-90-100-112-132
Tip / *Type* / Typ

*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

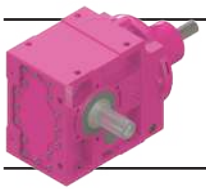
Notlar / *Notes* / Note

Güç ve Devir Tabloları



Performances

Leistung und Drehzahlübersicht

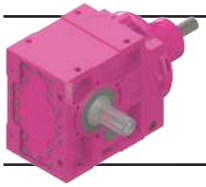


K Serisi Motorsuz Güç Devir Sayfaları

K Series Gear Units Performance Tables

K Serien Getriebe Leistung und Drehzahlübersicht

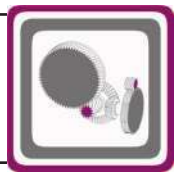
Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1450rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1450rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Giriş devri[d/d]** / *Input speed[rpm]* / Antriebsdrehzahl[upm]						**Güv. Rad.Yük Çıkış** *Per.O.Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1450rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1450rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite
				n1=2900	**n1=1450**	n1=950	n1=725	n1=475	n1=360				
65	7,46	194	**KT002**	2,3	**1,4**	1,1	0,86	0,56	0,43	2664	40	14	474
65	8,04	180		2,2	**1,3**	0,98	0,80	0,52	0,40	2748	91		
70	9,40	154		1,9	**1,2**	0,90	0,69	0,45	0,34	2879	48		
75	11,09	131		1,7	**1,1**	0,76	0,58	0,38	0,29	3031	-		
75	13,26	109		1,5	**0,91**	0,64	0,49	0,32	0,24	3265	96		
75	14,73	98		1,3	**0,82**	0,58	0,44	0,29	0,22	3408	195		
75	16,18	90		1,2	**0,75**	0,52	0,40	0,26	0,20	3540	211		
80	19,88	73		1,1	**0,65**	0,43	0,33	0,21	0,16	3794	161		
80	23,79	61	**KT003**	0,96	**0,55**	0,36	0,28	0,18	0,14	3153	764	15	474
80	25,64	57		0,89	**0,51**	0,34	0,26	0,17	0,13	3269	770		
80	29,95	48		0,82	**0,44**	0,29	0,22	0,15	0,11	3518	781		
80	35,34	41		0,70	**0,38**	0,25	0,19	0,12	0,09	3799	791		
80	45,41	32		0,58	**0,29**	0,19	0,15	0,10	0,07	4042	869		
80	48,93	30		0,54	**0,27**	0,18	0,14	0,09	0,07	4046	872		
80	57,16	25		0,47	**0,24**	0,15	0,12	0,08	0,06	4046	878		
80	67,44	22		0,40	**0,20**	0,13	0,10	0,07	0,05	4048	883		
80	80,66	18		0,34	**0,17**	0,11	0,09	0,06	0,04	4046	887		
80	89,62	16		0,31	**0,15**	0,10	0,08	0,05	0,04	4046	893		
80	98,44	15		0,28	**0,14**	0,09	0,07	0,05	0,04	4040	894		
80	120,91	12		0,23	**0,12**	0,08	0,06	0,04	0,03	4049	896		
90	6,28	231	**KT102**	3,5	**2,3**	1,7	1,8	1,2	0,89	2785	-	15	478
90	7,29	199		3,3	**2,0**	1,5	1,5	1,0	0,77	2971	-		
95	8,72	166		2,9	**1,7**	1,3	1,3	0,85	0,64	3160	-		
100	10,32	140		2,5	**1,5**	1,2	1,1	0,71	0,54	3347	-		
100	11,05	131		2,5	**1,4**	1,1	1,0	0,67	0,51	3446	-		
105	12,51	116		2,2	**1,3**	1,0	0,90	0,59	0,45	3585	-		
110	14,61	99		2,0	**1,2**	0,94	0,77	0,51	0,38	3780	-		
110	17,30	84		1,7	**1,0**	0,79	0,65	0,43	0,33	4062	-		
110	19,13	76		1,5	**0,93**	0,72	0,59	0,39	0,29	4236	-		
115	21,25	68		1,4	**0,87**	0,65	0,53	0,35	0,27	4377	-		
120	25,50	57		1,3	**0,76**	0,58	0,45	0,29	0,22	4672	-		
115	20,03	72	**KT103**	1,5	**0,93**	0,70	0,55	0,38	0,29	4176	704	16	478
120	23,22	62		1,3	**0,84**	0,62	0,50	0,33	0,25	4397	710		
125	27,81	52		1,2	**0,74**	0,54	0,41	0,27	0,21	4696	722		
130	32,90	44		1,0	**0,65**	0,46	0,35	0,23	0,18	4992	725		
135	35,22	41		1,0	**0,63**	0,43	0,33	0,22	0,16	5084	721		
135	38,22	38		0,94	**0,58**	0,40	0,30	0,20	0,15	5266	812		
140	44,32	33		0,85	**0,52**	0,34	0,26	0,17	0,13	5553	816		
140	53,07	27		0,74	**0,44**	0,29	0,22	0,14	0,11	5825	830		
140	62,79	23		0,66	**0,37**	0,24	0,19	0,12	0,09	5827	838		
140	67,22	22		0,64	**0,35**	0,23	0,17	0,11	0,09	5823	841		
140	76,13	19		0,59	**0,31**	0,20	0,15	0,10	0,08	5827	844		
140	88,87	16		0,53	**0,26**	0,17	0,13	0,09	0,07	5831	849		
140	105,26	14		0,45	**0,23**	0,15	0,11	0,07	0,06	5826	854		
140	116,34	12		0,41	**0,20**	0,13	0,10	0,07	0,05	5826	862		
140	129,27	11		0,37	**0,18**	0,12	0,09	0,06	0,05	5826	864		
180	6,70	216	**KT173**	6,7	**4,3**	2,8	2,4	1,6	1,2	4200	-	17	482
190	7,77	187		6,2	**3,9**	2,6	2,1	1,3	1,0	4420	-		
190	9,31	156		5,6	**3,3**	2,2	1,7	1,1	0,86	4650	-		
200	11,01	132		4,7	**2,9**	1,9	1,5	0,96	0,73	4900	-		
200	11,79	123		4,7	**2,7**	1,8	1,4	0,90	0,68	5000	-		
200	13,93	104		4,6	**2,3**	1,5	1,2	0,76	0,58	5060	-		
200	16,15	90		4,0	**2,0**	1,3	1,0	0,66	0,50	5270	-		
200	19,34	75		3,3	**1,7**	1,1	0,84	0,55	0,41	5550	202		
200	22,88	63		2,8	**1,4**	0,92	0,71	0,46	0,35	5820	326		
200	24,50	59		2,6	**1,3**	0,86	0,66	0,43	0,33	5930	375		
200	27,74	52		2,4	**1,2**	0,77	0,59	0,39	0,29	6140	423		
200	32,10	45		2,0	**1,0**	0,67	0,51	0,33	0,25	6400	875		
200	37,22	39		1,8	**0,88**	0,57	0,44	0,29	0,24	6670	891		



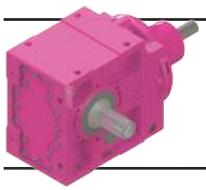
K Serisi Motorsuz Güç Devir Sayfaları

K Series Gear Units Performance Tables

K Serien Getriebe Leistung und Drehzahlübersicht

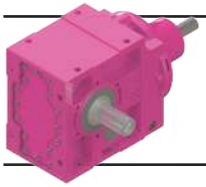


Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1450rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1450rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Giriş devri[d/d]** / *Input speed[rpm]* / Antriebsdrehzahl[upm]						**Güv. Rad.Yük Çıkış** *Per.O.Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1450rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1450rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite
				n1=2900	**n1=1450**	n1=950	n1=725	n1=475	n1=360				
200	44,57	33	**KT173**	1,5	**0,74**	0,49	0,37	0,27	0,20	7020	913	17	482
200	52,73	27		1,3	**0,63**	0,41	0,31	0,23	0,17	7370	925		
200	56,45	26		1,2	**0,58**	0,38	0,29	0,21	0,16	7520	929		
200	63,93	23		1,0	**0,52**	0,34	0,26	0,19	0,14	7790	934		
200	74,64	19		0,89	**0,45**	0,29	0,25	0,16	0,12	8100	943		
200	88,40	16		0,75	**0,38**	0,27	0,21	0,14	0,10	8100	950		
200	97,71	15		0,68	**0,34**	0,25	0,19	0,12	0,09	8100	960		
200	108,56	13		0,62	**0,31**	0,23	0,17	0,11	0,09	8100	965		
205	6,38	227	**KT202**	8,1	**5,1**	3,8	3,1	2,3	1,7	2306	-	19	486
215	7,65	190		7,2	**4,5**	3,3	2,7	1,9	1,5	2473	-		
230	9,25	157		6,3	**4,0**	2,9	2,4	1,6	1,2	2627	-		
235	10,57	137		5,7	**3,5**	2,7	2,1	1,4	1,1	2792	128		
245	12,17	119		5,2	**3,2**	2,4	1,8	1,2	0,92	2937	130		
255	14,32	101		4,5	**2,8**	2,0	1,6	1,0	0,78	3131	140		
260	15,26	95		4,4	**2,7**	1,9	1,5	0,96	0,73	3203	121		
270	17,47	83		3,9	**2,5**	1,7	1,3	0,84	0,64	3367	86		
280	20,23	72		3,5	**2,2**	1,5	1,1	0,73	0,55	3566	51		
280	23,79	61		3,2	**1,9**	1,2	0,95	0,62	0,47	3893	189		
265	26,31	55	**KT203**	2,6	**1,6**	1,1	0,87	0,57	0,43	3916	1713	20	486
280	31,55	46		2,3	**1,4**	0,95	0,72	0,48	0,36	4177	1721		
280	38,16	38		2,0	**1,2**	0,79	0,60	0,39	0,30	4644	1746		
280	43,67	33		1,8	**1,0**	0,69	0,52	0,34	0,26	4993	1841		
280	52,37	28		1,6	**0,87**	0,57	0,44	0,29	0,22	5483	1858		
280	63,33	23		1,4	**0,72**	0,48	0,36	0,24	0,18	6027	1873		
280	72,37	20		1,3	**0,64**	0,42	0,32	0,21	0,16	6428	1882		
280	83,32	17		1,1	**0,55**	0,36	0,28	0,18	0,14	6870	1890		
280	98,01	15		0,94	**0,47**	0,31	0,24	0,16	0,12	7403	1898		
280	104,49	14		0,88	**0,44**	0,29	0,22	0,15	0,11	7506	1901		
280	119,62	12		0,77	**0,39**	0,26	0,20	0,13	0,10	7497	1906		
280	138,53	10		0,67	**0,34**	0,22	0,17	0,11	0,08	7500	1911		
220	6,94	209	**KT273**	8,9	**5,1**	3,4	3,14	2,14	1,91	10742	-	25	490
230	8,28	175		7,8	**4,5**	2,9	2,73	1,92	1,70	11343	-		
240	9,92	146		6,8	**3,9**	2,6	2,36	1,65	1,45	12003	35		
250	12,00	121		5,9	**3,4**	2,2	2,09	1,46	1,27	12743	159		
350	13,34	109		7,3	**4,2**	2,8	2,54	1,75	1,35	12701	534		
370	15,92	91		6,3	**3,8**	2,5	2,23	1,50	1,13	12587	631		
390	19,08	76		5,6	**3,3**	2,2	1,90	1,25	0,95	12465	715		
410	23,08	63		4,9	**2,9**	1,9	1,57	1,03	0,78	12335	788		
430	25,55	57		4,6	**2,7**	1,8	1,42	0,93	0,71	12198	1277		
450	30,48	48		4,0	**2,4**	1,6	1,19	0,78	0,59	12000	1298		
450	36,55	40		3,5	**2,0**	1,3	0,99	0,65	0,49	12000	1339		
450	44,20	33		3,1	**1,6**	1,1	0,82	0,54	0,41	12000	1373		
450	50,51	29		2,8	**1,4**	0,9	0,72	0,47	0,36	12000	1394		
450	58,15	25		2,5	**1,2**	0,8	0,62	0,41	0,31	12000	1413		
450	68,40	21		2,1	**1,1**	0,7	0,53	0,35	0,26	12000	1431		
450	72,92	20		2,0	**1,0**	0,7	0,50	0,33	0,27	12000	1437		
450	83,48	17		1,7	**0,87**	0,6	0,44	0,29	0,24	12000	1450		
450	96,68	15		1,5	**0,75**	0,5	0,38	0,27	0,21	12000	1461		
450	113,65	13		1,3	**0,64**	0,4	0,32	0,23	0,18	12000	1472		
450	112,73	13	**KT275**	1,4	**0,68**	0,44	0,34	0,25	0,19	12000	613	28	494
450	131,68	11		1,2	**0,58**	0,38	0,29	0,21	0,16	12000	627		
450	200,35	7,2		0,77	**0,38**	0,25	0,21	0,14	0,11	12000	732		
450	215,91	6,7		0,71	**0,36**	0,26	0,20	0,13	0,10	12000	736		
450	252,20	5,7		0,61	**0,31**	0,22	0,17	0,11	0,08	12000	743		
450	300,85	4,8		0,51	**0,26**	0,19	0,14	0,09	0,07	12000	763		
450	360,73	4,0		0,48	**0,24**	0,17	0,13	0,09	0,07	12000	781		
450	436,24	3,3		0,39	**0,20**	0,14	0,11	0,07	0,05	12000	796		
450	498,55	2,9		0,35	**0,17**	0,13	0,10	0,06	0,05	12000	805		
450	573,99	2,5		0,30	**0,15**	0,11	0,08	0,05	0,04	12000	814		



K Serisi Motorsuz Güç Devir Sayfaları
K Series Gear Units Performance Tables
K Serien Getriebe Leistung und Drehzahlübersicht

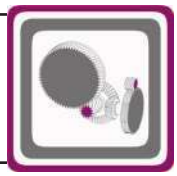
Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1450rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1450rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Giriş devri[d/d]** / *Input speed[rpm]* / Antriebsdrehzahl[upm]						**Güv. Rad.Yük Çıkış** *Per.O.Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1450rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1450rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite
				n1=2900	**n1=1450**	n1=950	n1=725	n1=475	n1=360				
450	675,13	2,1	**KT275**	0,26	**0,13**	0,09	0,07	0,05	0,04	12000	822	28	494
450	719,79	2,0		0,27	**0,12**	0,09	0,07	0,04	0,03	12000	825		
450	735,42	2,0	**KT276**	0,27	**0,12**	0,09	0,07	0,04	0,03	12000	826	30	494
450	881,79	1,6		0,22	**0,10**	0,07	0,06	0,04	0,03	12000	833		
450	1066,35	1,4		0,18	**0,08**	0,06	0,05	0,03	0,02	12000	840		
450	1218,69	1,2		0,16	**0,07**	0,05	0,04	0,03	0,02	12000	843		
450	1403,10	1,0		0,14	**0,06**	0,05	0,03	0,02	0,02	12000	847		
450	1650,31	0,88		0,12	**0,05**	0,04	0,03	0,02	0,01	12000	850		
450	1759,48	0,82		0,11	**0,05**	0,04	0,03	0,02	0,01	12000	851		
325	4,92	285	**KT283**	16,81	**10,3**	7,54	6,63	4,64	3,89	12000	-	30	498
335	5,74	253		15,19	**9,43**	7,10	5,70	4,38	3,56	12076	-		
340	6,70	217		13,51	**8,20**	6,16	5,01	3,79	3,11	12728	-		
350	7,40	196		12,23	**7,64**	5,72	4,58	3,50	2,87	13118	-		
360	8,63	168		10,85	**6,73**	5,02	4,07	3,09	2,53	13789	-		
370	10,16	143		9,54	**5,88**	4,43	3,54	2,71	2,23	14537	-		
550	10,37	140		13,87	**8,57**	6,12	4,67	3,06	2,32	14048	-		
575	12,10	120		12,41	**7,67**	5,25	4,00	2,62	1,99	14723	-		
600	14,12	103		11,21	**6,86**	4,50	3,43	2,25	1,70	15432	-		
600	15,60	93		10,46	**6,21**	4,07	3,11	2,04	1,54	15750	53		
600	18,21	80		9,32	**5,32**	3,49	2,66	1,74	1,32	15750	333		
600	21,42	68		8,37	**4,53**	2,96	2,26	1,48	1,12	15750	583		
600	23,76	61		6,87	**4,08**	2,67	2,04	1,34	1,01	15750	1595		
600	27,74	52		6,17	**3,79**	2,29	1,75	1,14	0,87	15750	1641		
600	32,35	45		5,54	**3,00**	1,96	1,50	0,98	0,74	15750	1686		
600	35,75	41		5,15	**2,71**	1,78	1,36	0,89	0,67	15750	1708		
600	41,72	35		4,57	**2,32**	1,52	1,16	0,76	0,58	15750	1739		
600	49,08	30		3,95	**1,97**	1,29	0,99	0,65	0,49	15750	1766		
600	58,35	25		3,32	**1,66**	1,09	0,83	0,54	0,41	15750	1790		
600	66,00	22		2,94	**1,47**	0,96	0,73	0,48	0,36	15750	1805		
600	75,26	19		2,58	**1,29**	0,84	0,64	0,42	0,32	15750	1818		
600	93,50	16		2,07	**1,04**	0,68	0,52	0,34	0,26	15750	1838		
600	106,33	14		1,82	**0,91**	0,60	0,46	0,30	0,25	15750	1847		
600	122,38	12		1,58	**0,79**	0,52	0,40	0,26	0,22	15750	1856		
600	143,00	10		1,36	**0,68**	0,44	0,34	0,25	0,19	15750	1864		
600	122,22	12	**KT284**	1,64	**0,82**	0,54	0,41	0,27	0,23	15750	1373	40	502
600	135,06	11		1,48	**0,74**	0,49	0,37	0,27	0,20	15750	1414		
600	157,62	9,2		1,27	**0,64**	0,42	0,32	0,23	0,18	15750	1469		
600	185,40	7,8		1,08	**0,54**	0,35	0,27	0,20	0,15	15750	1519		
600	220,43	6,6		0,91	**0,46**	0,30	0,25	0,17	0,13	15750	1564		
600	249,33	5,8		0,81	**0,40**	0,26	0,22	0,15	0,11	15750	1591		
600	284,33	5,1		0,71	**0,35**	0,26	0,20	0,13	0,10	15750	1617		
600	353,22	4,1		0,57	**0,28**	0,21	0,16	0,10	0,08	15750	1653		
600	300,42	4,8	**KT285**	0,68	**0,34**	0,25	0,19	0,12	0,09	15750	1018	45	506
600	359,71	4,0		0,57	**0,29**	0,21	0,16	0,10	0,08	15750	1029		
600	425,60	3,4		0,54	**0,27**	0,20	0,15	0,10	0,07	15750	1035		
600	455,64	3,2		0,50	**0,25**	0,18	0,14	0,09	0,07	15750	1037		
600	516,00	2,8		0,44	**0,22**	0,16	0,12	0,08	0,06	15750	1040		
600	570,18	2,5		0,40	**0,20**	0,15	0,11	0,07	0,06	15750	1049		
600	665,46	2,2		0,35	**0,17**	0,13	0,10	0,06	0,05	15750	1063		
600	782,73	1,9		0,29	**0,15**	0,11	0,08	0,05	0,04	15750	1075		
600	930,59	1,6		0,27	**0,12**	0,09	0,07	0,05	0,03	15750	1086		
600	1052,64	1,4		0,24	**0,11**	0,08	0,06	0,04	0,03	15750	1092		
600	820,35	1,8	**KT286**	0,28	**0,14**	0,10	0,08	0,05	0,04	15750	1101	45	506
600	951,33	1,5		0,27	**0,12**	0,09	0,07	0,04	0,03	15750	1104		
600	1139,09	1,3		0,23	**0,10**	0,08	0,06	0,04	0,03	15750	1107		
600	1347,72	1,1		0,19	**0,09**	0,06	0,05	0,03	0,02	15750	1109		
600	1442,85	1,0		0,18	**0,08**	0,06	0,05	0,03	0,02	15750	1110		



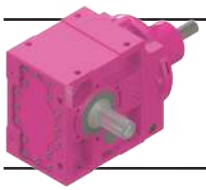
K Serisi Motorsuz Güç Devir Sayfaları

K Series Gear Units Performance Tables

K Serien Getriebe Leistung und Drehzahlübersicht



Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1450rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1450rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Giriş devri[d/d]** / *Input speed[rpm]* / Antriebsdrehzahl[upm]						**Güv. Rad.Yük Çıkış** *Per.O.Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1450rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1450rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite
				n1=2900	**n1=1450**	n1=950	n1=725	n1=475	n1=360				
600	1634,00	0,89	**KT286**	0,16	**0,07**	0,05	0,04	0,03	0,02	15750	1111	45	506
600	1805,57	0,80		0,15	**0,07**	0,05	0,04	0,02	0,02	15750	1114		
600	2107,29	0,69		0,12	**0,06**	0,04	0,03	0,02	0,02	15750	1118		
600	2478,65	0,58		0,11	**0,05**	0,03	0,03	0,02	0,01	15750	1122		
600	2946,88	0,49		0,09	**0,04**	0,03	0,02	0,01	0,01	15750	1125		
600	3333,36	0,43		0,08	**0,04**	0,03	0,02	0,01	0,01	15750	1127		
580	5,68	255	**KT373**	27	**17**	12	10	7,6	5,8	10852	-	60	510
595	6,63	219		23	**15**	11	8,8	6,5	5,0	11453	-		
610	7,73	188		21	**13**	9,7	7,8	5,6	4,3	12082	-		
630	8,54	170		19	**12**	8,9	7,2	5,1	3,9	12440	-		
655	9,97	145		17	**11**	7,9	6,4	4,4	3,3	13063	-		
805	10,60	137		20	**12**	8,2	6,2	4,1	3,1	12341	-		
820	12,38	117		18	**11**	7,0	5,3	3,5	2,7	11800	-		
820	14,44	100		16	**9,2**	6,0	4,6	3,0	2,3	11800	-		
820	15,96	91		15	**8,3**	5,4	4,2	2,7	2,1	11800	-		
820	18,62	78		13	**7,1**	4,7	3,6	2,3	1,8	11800	-		
820	21,90	66		12	**6,0**	4,0	3,0	2,0	1,5	11800	-		
820	24,72	59		11	**5,4**	3,5	2,7	1,8	1,3	11800	1429		
820	28,85	50		9,2	**4,6**	3,0	2,3	1,5	1,1	11800	1490		
820	33,65	43		7,9	**3,9**	2,6	2,0	1,3	0,98	11800	1549		
820	37,19	39		7,1	**3,6**	2,3	1,8	1,2	0,88	11800	1579		
820	43,40	33		6,1	**3,1**	2,0	1,5	1,0	0,76	11800	1619		
820	51,05	28		5,2	**2,6**	1,7	1,3	0,85	0,64	11800	1654		
820	60,69	24		4,4	**2,2**	1,4	1,1	0,71	0,54	11800	1686		
820	68,65	21		3,9	**1,9**	1,3	0,96	0,63	0,48	11800	1705		
820	78,29	19		3,4	**1,7**	1,1	0,85	0,55	0,42	11800	1723		
820	97,26	15		2,7	**1,4**	0,89	0,68	0,45	0,34	11800	1749		
820	110,61	13		2,4	**1,2**	0,78	0,60	0,39	0,30	11800	1761		
820	127,30	11		2,1	**1,0**	0,68	0,52	0,34	0,26	11800	1773		
820	148,75	9,7		1,8	**0,89**	0,58	0,45	0,29	0,25	11800	1783		
820	127,14	11	**KT374**	2,1	**1,1**	0,70	0,54	0,35	0,27	11800	1411	61	514
820	140,49	10		1,9	**0,97**	0,64	0,49	0,32	0,27	11800	1450		
820	163,96	8,8		1,7	**0,83**	0,55	0,42	0,27	0,23	11800	1503		
820	192,86	7,5		1,4	**0,71**	0,47	0,36	0,26	0,20	11800	1551		
820	229,29	6,3		1,2	**0,60**	0,39	0,30	0,22	0,16	11800	1594		
820	259,36	5,6		1,1	**0,53**	0,35	0,26	0,19	0,15	11800	1620		
820	295,76	4,9		0,93	**0,46**	0,30	0,26	0,17	0,13	11800	1645		
820	367,43	3,9		0,75	**0,37**	0,27	0,21	0,14	0,10	11800	1679		
820	374,18	3,9	**KT375**	0,75	**0,38**	0,27	0,21	0,14	0,10	11800	1047	62	518
820	442,71	3,3		0,64	**0,32**	0,23	0,18	0,12	0,09	11800	1052		
820	473,96	3,1		0,59	**0,30**	0,22	0,17	0,11	0,08	11800	1055		
820	536,75	2,7		0,53	**0,26**	0,19	0,15	0,10	0,07	11800	1057		
820	593,11	2,4		0,53	**0,26**	0,19	0,15	0,10	0,07	11800	1067		
820	692,22	2,1		0,45	**0,23**	0,17	0,13	0,08	0,06	11800	1079		
820	814,20	1,8		0,39	**0,19**	0,14	0,11	0,07	0,05	11800	1091		
820	968,01	1,5		0,32	**0,16**	0,12	0,09	0,06	0,04	11800	1102		
820	1094,97	1,3		0,29	**0,14**	0,10	0,08	0,05	0,04	11800	1108		
820	1184,90	1,2	**KT376**	0,27	**0,14**	0,10	0,08	0,05	0,04	11800	1122	64	518
820	1401,91	1,0		0,25	**0,11**	0,08	0,06	0,04	0,03	11800	1124		
820	1500,87	0,97		0,24	**0,11**	0,08	0,06	0,04	0,03	11800	1125		
820	1699,70	0,85		0,21	**0,09**	0,07	0,05	0,03	0,03	11800	1125		
820	1878,17	0,77		0,19	**0,09**	0,06	0,05	0,03	0,02	11800	1128		
820	2192,03	0,66		0,16	**0,07**	0,05	0,04	0,03	0,02	11800	1132		
820	2578,32	0,56		0,14	**0,06**	0,05	0,03	0,02	0,02	11800	1136		
820	3065,37	0,47		0,12	**0,05**	0,04	0,03	0,02	0,01	11800	1139		
820	3467,39	0,42		0,10	**0,05**	0,03	0,03	0,02	0,01	11800	1141		
830	6,21	233	**KT473**	35	**22**	16	12	9,9	8,1	12268	-	96	522

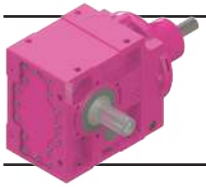


K Serisi Motorsuz Güç Devir Sayfaları

K Series Gear Units Performance Tables

K Serien Getriebe Leistung und Drehzahlübersicht

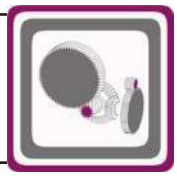
Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1450rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1450rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Giriş devri[d/d]** / *Input speed[rpm]* / Antriebsdrehzahl[upm]						**Güv. Rad.Yük Çıkış** *Per.O.Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1450rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1450rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite
				n1=2900	**n1=1450**	n1=950	n1=725	n1=475	n1=360				
865	7,48	194	**KT473**	30	**19**	14	11	8,6	7,0	13041	-	64	522
905	9,06	160		26	**16**	12	9,2	7,4	6,1	13870	-		
935	10,34	140		24	**15**	11	8,4	6,7	5,5	14467	-		
970	11,87	122		21	**13**	9,9	7,5	6,1	5,0	15099	-		
1005	13,71	106		19	**12**	8,9	6,8	5,5	4,5	15811	-		
1370	15,33	95		23	**14**	11	8,2	5,4	4,1	16173	-		
1425	17,49	83		21	**13**	9,4	7,2	4,7	3,6	16829	-		
1485	20,07	72		19	**12**	8,2	6,2	4,1	3,1	17538	-		
1550	23,19	63		18	**11**	7,1	5,4	3,5	2,7	17000	-		
1550	23,76	61		17	**11**	6,9	5,3	3,5	2,6	17000	-		
1550	25,15	58		17	**10**	6,5	5,0	3,3	2,5	17000	-		
1550	30,11	48		15	**8,3**	5,4	4,2	2,7	2,1	17000	-		
1550	39,11	37		12	**6,4**	4,2	3,2	2,1	1,6	17000	1424		
1550	44,64	32		11	**5,6**	3,7	2,8	1,8	1,4	17000	1563		
1550	51,22	28		9,6	**4,9**	3,2	2,4	1,6	1,2	17000	1612		
1550	59,19	24		8,5	**4,2**	2,8	2,1	1,4	1,1	17000	1657		
1550	60,63	24		8,3	**4,1**	2,7	2,1	1,4	1,0	17000	1668		
1550	64,17	23		7,8	**3,9**	2,6	2,0	1,3	0,97	17000	1683		
1550	76,83	19		6,5	**3,3**	2,1	1,6	1,1	0,81	17000	1726		
1550	87,49	17		5,7	**2,9**	1,9	1,4	0,94	0,71	17000	1753		
1550	97,79	15		5,1	**2,6**	1,7	1,3	0,84	0,64	17000	1777		
1550	110,65	13		4,5	**2,3**	1,5	1,1	0,74	0,56	17000	1796		
1550	135,98	11		3,7	**1,8**	1,2	0,92	0,60	0,46	17000	1823		
1550	153,47	9,4		3,3	**1,6**	1,1	0,82	0,53	0,41	17000	1835		
1550	160,79	9,0	**KT474**	3,2	**1,6**	1,0	0,80	0,52	0,40	17000	1870	98	526
1550	181,88	8,0		2,8	**1,4**	0,93	0,71	0,46	0,35	17000	1883		
1550	207,41	7,0		2,5	**1,2**	0,82	0,62	0,41	0,31	17000	1896		
1550	257,67	5,6		2,0	**1,0**	0,66	0,50	0,33	0,28	17000	1914		
1550	293,03	4,9		1,8	**0,88**	0,58	0,44	0,29	0,24	17000	1922		
1550	310,16	4,7		1,7	**0,84**	0,55	0,42	0,27	0,23	17000	1940		
1550	371,35	3,9		1,4	**0,70**	0,46	0,35	0,25	0,19	17000	1988		
1550	422,88	3,4		1,2	**0,61**	0,40	0,31	0,22	0,17	17000	2018		
1550	472,63	3,1		1,1	**0,55**	0,36	0,27	0,20	0,15	17000	2040		
1550	509,34	2,8	**KT475**	1,0	**0,52**	0,34	0,26	0,19	0,14	17000	1721	101	530
1550	610,72	2,4		0,87	**0,43**	0,28	0,24	0,16	0,12	17000	1729		
1550	655,16	2,2		0,81	**0,40**	0,27	0,22	0,15	0,11	17000	1731		
1550	738,55	2,0		0,72	**0,36**	0,26	0,20	0,13	0,10	17000	1735		
1550	844,06	1,7		0,63	**0,32**	0,23	0,18	0,11	0,09	17000	1740		
1550	901,03	1,6		0,59	**0,30**	0,22	0,16	0,11	0,08	17000	1741		
1550	971,77	1,5		0,55	**0,27**	0,20	0,15	0,10	0,08	17000	1743		
1550	1142,99	1,3		0,52	**0,26**	0,19	0,14	0,09	0,07	17000	1747		
1550	1218,61	1,2		0,49	**0,24**	0,18	0,14	0,09	0,07	17000	1748		
1550	1395,04	1,0		0,43	**0,21**	0,16	0,12	0,08	0,06	17000	1751		
1550	1476,60	0,98		0,40	**0,20**	0,15	0,11	0,07	0,06	17000	1755		
1550	1767,90	0,82		0,34	**0,17**	0,12	0,09	0,06	0,05	17000	1766		
1550	2183,54	0,66	**KT476**	0,28	**0,14**	0,10	0,08	0,05	0,04	17000	1792	104	530
1550	2495,47	0,58		0,27	**0,12**	0,09	0,07	0,04	0,03	17000	1794		
1550	2663,91	0,54		0,25	**0,11**	0,08	0,06	0,04	0,03	17000	1794		
1550	2873,07	0,50		0,23	**0,11**	0,08	0,06	0,04	0,03	17000	1795		
1550	3379,28	0,43		0,20	**0,09**	0,07	0,05	0,03	0,02	17000	1796		
1550	3602,83	0,40		0,19	**0,08**	0,06	0,05	0,03	0,02	17000	1797		
1550	4124,46	0,35		0,16	**0,07**	0,05	0,04	0,03	0,02	17000	1797		
1550	4365,60	0,33		0,15	**0,07**	0,05	0,04	0,03	0,02	17000	1799		
1550	5226,85	0,28		0,13	**0,06**	0,04	0,03	0,02	0,02	17000	1803		
1220	6,91	210	**KT573**	-	**29**	21	17	13	10,7	25040	-	138	534
1300	8,07	180		-	**26**	22	16	12	9,5	26129	-		
1380	9,48	153		38	**24**	18	14	11	8,9	27341	-		
1470	11,22	129		35	**21**	16	13	10	8,0	28667	-		
1700	11,58	125		-	**24**	18	14	11	9,0	28654	-		



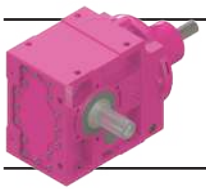
K Serisi Motorsuz Güç Devir Sayfaları

K Series Gear Units Performance Tables

K Serien Getriebe Leistung und Drehzahlübersicht



Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1450rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1450rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Giriş devri[d/d]** / *Input speed[rpm]* / Antriebsdrehzahl[upm]						**Güv. Rad.Yük Çıkış** *Per.O.Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1450rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1450rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite
				n1=2900	**n1=1450**	n1=950	n1=725	n1=475	n1=360				
1820	13,53	107	**KT573**	-	**22**	16	13	10	8,0	29850	-	138	534
1930	15,88	91		32	**20**	15	12	9,0	6,8	31234	-		
2050	18,80	77		29	**18**	13	11	7,6	5,8	32541	-		
2100	20,24	72		28	**17**	13	10	7,1	5,4	31991	-		
2200	22,77	64		26	**16**	12	9,5	6,3	4,8	30822	-		
2300	25,78	56		24	**14**	11	8,5	5,5	4,2	29547	-		
2300	30,25	48		-	**12**	9,2	7,2	4,7	3,6	29547	2775		
2430	35,34	41		-	**11**	8,1	6,2	4,0	3,1	27711	2799		
2500	38,16	38		17	**11**	7,5	5,7	3,7	2,8	26625	2845		
2620	44,73	32		15	**9,5**	6,4	4,9	3,2	2,4	24571	2869		
2700	52,88	27		14	**8,2**	5,4	4,1	2,7	2,0	22500	2909		
2700	59,49	24		13	**7,3**	4,8	3,7	2,4	1,8	22500	2956		
2700	67,37	22		12	**6,5**	4,2	3,2	2,1	1,6	22500	3000		
2700	82,14	18		10	**5,3**	3,5	2,7	1,7	1,3	22500	3058		
2700	97,19	15		9,0	**4,5**	2,9	2,2	1,5	1,1	22500	3099		
2700	109,86	13		7,9	**4,0**	2,6	2,0	1,3	0,99	22500	3125		
2700	125,51	12		6,9	**3,5**	2,3	1,7	1,1	0,86	22500	3149		
2700	117,96	12	**KT574**	7,6	**3,8**	2,5	1,9	1,2	0,94	22500	1466	140	538
2700	140,24	10		6,4	**3,2**	2,1	1,6	1,0	0,79	22500	1510		
2700	158,64	9,1		5,7	**2,8**	1,9	1,4	0,93	0,70	22500	1536		
2700	180,90	8,0		5,0	**2,5**	1,6	1,2	0,81	0,62	22500	1561		
2700	211,51	6,9		4,3	**2,1**	1,4	1,1	0,70	0,53	22500	1587		
2700	237,97	6,1		3,8	**1,9**	1,2	0,95	0,62	0,47	22500	1659		
2700	246,42	5,9		3,6	**1,8**	1,2	0,91	0,60	0,45	22500	1785		
2700	281,00	5,2		3,2	**1,6**	1,0	0,80	0,52	0,40	22500	1801		
2700	328,56	4,4		2,7	**1,4**	0,90	0,69	0,45	0,34	22500	1817		
2700	397,01	3,7		2,3	**1,1**	0,75	0,57	0,37	0,28	22500	1834		
2700	469,74	3,1		1,9	**0,96**	0,63	0,48	0,32	0,27	22500	1896		
2700	507,09	2,9	**KT575**	1,8	**0,91**	0,60	0,46	0,30	0,25	22500	1483	140	542
2700	570,53	2,5		1,6	**0,81**	0,53	0,41	0,27	0,22	22500	1520		
2700	787,70	1,8		1,2	**0,59**	0,39	0,29	0,21	0,16	22500	1603		
2700	932,00	1,6		1,0	**0,50**	0,33	0,28	0,18	0,14	22500	1637		
2700	1216,74	1,2		0,77	**0,38**	0,25	0,21	0,14	0,11	22500	1680		
2700	1368,95	1,1		0,68	**0,34**	0,25	0,19	0,12	0,09	22500	1696		
2700	1890,04	0,77		0,55	**0,27**	0,20	0,15	0,10	0,08	22500	1731		
2700	2236,28	0,65		0,46	**0,23**	0,17	0,13	0,08	0,06	22500	1745		
2700	2328,84	0,62	**KT576**	0,45	**0,23**	0,17	0,13	0,08	0,06	22500	1748	145	542
2700	2755,47	0,53		0,38	**0,19**	0,14	0,11	0,07	0,05	22500	1759		
2700	3597,31	0,40		0,29	**0,15**	0,11	0,08	0,05	0,04	22500	1774		
2700	4047,32	0,36		0,26	**0,13**	0,10	0,07	0,05	0,04	22500	1779		
2700	5587,93	0,26		0,21	**0,09**	0,07	0,05	0,03	0,03	22500	1791		
2700	6611,61	0,22		0,18	**0,08**	0,06	0,04	0,03	0,02	22500	1795		
2500	8,31	175	**KT673**	-	**49**	37	30	23	18	38163	-	235	546
2600	9,45	153		-	**44**	33	27	20	16	39661	-		
2700	10,81	134		-	**40**	30	24	19	14	41324	-		
2800	12,46	116		58	**36**	27	22	16	12	43197	-		
2900	14,49	100		52	**32**	24	20	14	11	45335	-		
4300	16,54	88		-	**42**	28	21	14	10	29600	-		
4300	18,74	77		-	**37**	24	19	12	9,2	29600	-		
4300	21,32	68		-	**33**	21	16	11	8,1	29600	-		
4300	24,38	59		-	**28**	19	14	9,3	7,1	29600	-		
4300	28,10	52		49	**25**	16	12	8,1	6,1	29600	-		
4300	32,68	44		43	**21**	14	11	7,0	5,3	29600	-		
4300	39,26	37		-	**18**	12	8,8	5,8	4,4	29600	3132		
4300	44,65	32		-	**16**	10	7,8	5,1	3,9	29600	3223		
4300	51,08	28		-	**14**	8,9	6,8	4,5	3,4	29600	3306		
4300	58,86	25		24	**12**	7,7	5,9	3,9	2,9	29600	3381		
4300	68,47	21		20	**10**	6,6	5,1	3,3	2,5	29600	3451		
4300	80,38	18		17	**8,6**	5,7	4,3	2,8	2,1	29600	3541		

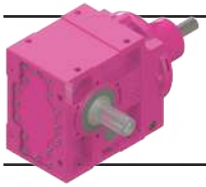


K Serisi Motorsuz Güç Devir Sayfaları

K Series Gear Units Performance Tables

K Serien Getriebe Leistung und Drehzahlübersicht

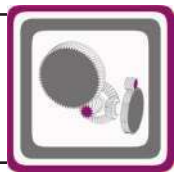
Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1450rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1450rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Giriş devri[d/d]** / *Input speed[rpm]* / Antriebsdrehzahl[upm]						**Güv. Rad.Yük Çıkış** *Per.O.Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1450rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1450rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite
				n1=2900	**n1=1450**	n1=950	n1=725	n1=475	n1=360				
4300	90,21	16	**KT673**	15	**7,7**	5,0	3,8	2,5	1,9	29600	3579	235	546
4300	100,90	14		14	**6,9**	4,5	3,4	2,3	1,7	29600	3600		
4300	127,16	11		11	**5,3**	3,4	2,8	1,7	1,3	29600	3675		
4300	123,38	12	**KT674**	11	**5,7**	3,8	2,9	1,9	1,4	29600	687	238	550
4300	140,49	10		10	**5,1**	3,3	2,5	1,7	1,3	29600	808		
4300	157,02	9,2		9,1	**4,5**	3,0	2,3	1,5	1,1	29600	920		
4300	178,62	8,1		8,0	**4,0**	2,6	2,0	1,3	0,99	29600	1342		
4300	204,32	7,1		7,0	**3,5**	2,3	1,7	1,1	0,87	29600	1616		
4300	235,44	6,2		6,1	**3,0**	2,0	1,5	0,99	0,75	29600	1702		
4300	273,88	5,3		5,2	**2,6**	1,7	1,3	0,85	0,65	29600	1781		
4300	321,51	4,5		4,4	**2,2**	1,5	1,1	0,73	0,55	29600	1853		
4300	363,81	4,0		3,9	**2,0**	1,3	0,98	0,64	0,49	29600	1865		
4300	423,90	3,4	**KT675**	3,4	**1,7**	1,1	0,86	0,56	0,43	29600	1852	243	554
4300	489,82	3,0		3,0	**1,5**	0,98	0,75	0,49	0,37	29600	1863		
4300	531,08	2,7		2,8	**1,4**	0,90	0,69	0,45	0,34	29600	1869		
4300	635,86	2,3		2,3	**1,2**	0,76	0,58	0,38	0,29	29600	1880		
4300	724,08	2,0		2,0	**1,0**	0,66	0,51	0,33	0,25	29600	1886		
4300	809,27	1,8		1,8	**0,91**	0,59	0,45	0,30	0,25	29600	1892		
4300	915,75	1,6		1,6	**0,80**	0,53	0,40	0,26	0,22	29600	1897		
4300	1041,68	1,4		1,4	**0,71**	0,46	0,35	0,26	0,20	29600	1916		
4300	1191,60	1,2		1,2	**0,62**	0,41	0,31	0,23	0,17	29600	1933		
4300	1373,07	1,1		1,1	**0,54**	0,35	0,27	0,20	0,15	29600	1949		
4300	1597,25	0,91		0,92	**0,46**	0,30	0,26	0,17	0,13	29600	1963		
4300	1875,03	0,77		0,79	**0,39**	0,26	0,22	0,14	0,11	29600	1977		
4300	1884,33	0,77	**KT676**	0,80	**0,40**	0,26	0,22	0,15	0,11	29600	2009	250	554
4300	2082,19	0,70		0,72	**0,36**	0,26	0,20	0,13	0,10	29600	2011		
4300	2430,14	0,60		0,62	**0,31**	0,23	0,17	0,11	0,09	29600	2014		
4300	2858,39	0,51		0,53	**0,26**	0,19	0,15	0,10	0,07	29600	2016		
4300	3398,35	0,43		0,50	**0,25**	0,18	0,14	0,09	0,07	29600	2018		
4300	3844,04	0,38		0,44	**0,22**	0,16	0,12	0,08	0,06	29600	2020		
4300	4383,55	0,33		0,39	**0,19**	0,14	0,11	0,07	0,05	29600	2021		
4300	5445,72	0,27		0,31	**0,16**	0,11	0,09	0,06	0,04	29600	2023		
4300	6193,17	0,23		0,27	**0,14**	0,10	0,08	0,05	0,04	29600	2024		
4300	7044,81	0,21		0,27	**0,12**	0,09	0,07	0,04	0,03	29600	2027		
4300	8058,67	0,18		0,23	**0,11**	0,08	0,06	0,04	0,03	29600	2030		
4300	9285,97	0,16		0,20	**0,09**	0,07	0,05	0,03	0,03	29600	2033		
4300	10802,05	0,13		0,17	**0,08**	0,06	0,04	0,03	0,02	29600	2036		
4300	12680,66	0,11		0,15	**0,07**	0,05	0,04	0,02	0,02	29600	2038		
3900	7,41	196	**KT773**	-	**80**	64	51	39	31	33549	-	360	558
4050	8,52	170		-	**72**	57	46	35	27	35041	-		
4200	9,83	147		-	**65**	52	41	31	24	36696	-		
4250	10,20	142		-	**63**	50	40	30	23	37083	-		
4400	11,44	127		-	**58**	46	37	27	20	38376	-		
4500	12,89	112		-	**53**	42	34	24	18	40022	-		
7250	15,25	95		-	**72**	56	42	28	21	36482			
7550	17,52	83		-	**65**	48	37	24	18	38064	-		
7900	20,23	72		-	**59**	42	32	21	16	39680	-		
8000	20,97	69		-	**58**	40	31	20	15	40071	-		
8000	23,52	62		-	**52**	36	27	18	14	42417	-		
8000	26,52	55		-	**46**	32	24	16	12	44953	-		
8000	29,40	49		-	**41**	29	22	14	11	47214	374		
8000	33,78	43		-	**36**	25	19	13	9,5	50370	1262		
8000	39,00	37		-	**31**	22	17	11	8,2	53774	2055		
8000	40,44	36		-	**30**	21	16	10	7,9	54659	2095		
8000	45,36	32		-	**27**	19	14	9,3	7,1	55500	2636		
8000	51,13	28		-	**24**	17	13	8,3	6,3	55500	3136		
8000	58,00	25		-	**21**	15	11	7,3	5,5	55500	3600		
8000	66,32	22		39	**18**	13	9,7	6,4	4,8	55500	4030		
8000	76,59	19		34	**16**	11	8,4	5,5	4,2	55500	4219		



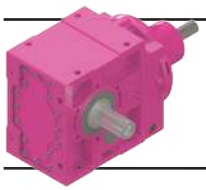
K Serisi Motorsuz Güç Devir Sayfaları

K Series Gear Units Performance Tables

K Serien Getriebe Leistung und Drehzahlübersicht

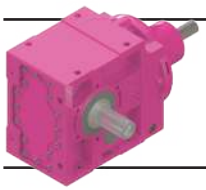


Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1450rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1450rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Giriş devri[d/d]** / *Input speed[rpm]* / Antriebsdrehzahl[upm]						**Güv. Rad.Yük Çıkış** *Per.O.Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1450rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1450rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite
				n1=2900	**n1=1450**	n1=950	n1=725	n1=475	n1=360				
8000	88,57	16	**KT773**	29	**14**	9,6	7,3	4,8	3,6	55500	4332	360	558
8000	99,00	15		26	**12**	8,6	6,5	4,3	3,2	55500	4386		
8000	111,63	13		23	**11**	7,6	5,8	3,8	2,9	55500	4437		
8000	127,11	11	**KT774**	21	**10**	6,8	5,2	3,4	2,6	55000	-	370	562
8000	142,56	10		18	**9,2**	6,0	4,6	3,0	2,3	55000	-		
8000	160,70	9,0		16	**8,2**	5,4	4,1	2,7	2,0	55000	-		
8000	182,29	8,0		14	**7,2**	4,7	3,6	2,4	1,8	55000	-		
8000	208,42	7,0		13	**6,3**	4,2	3,2	2,1	1,6	55000	530		
8000	240,71	6,0		11	**5,5**	3,6	2,7	1,8	1,4	55000	1265		
8000	278,35	5,2		9,5	**4,7**	3,1	2,4	1,6	1,2	55000	1628		
8000	311,14	4,7		8,5	**4,3**	2,8	2,1	1,4	1,1	55000	1663		
8000	354,32	4,1		7,5	**3,7**	2,4	1,9	1,2	0,93	55000	1694		
8000	396,00	3,7		6,7	**3,3**	2,2	1,7	1,1	0,83	55000	1647		
8000	436,74	3,3	**KT775**	6,2	**3,1**	2,0	1,5	1,0	0,77	55000	1746	381	566
8000	504,65	2,9		5,4	**2,7**	1,8	1,3	0,88	0,67	55000	1771		
8000	547,17	2,7		5,0	**2,5**	1,6	1,2	0,81	0,62	55000	1786		
8000	655,11	2,2		4,2	**2,1**	1,4	1,0	0,68	0,52	55000	1810		
8000	746,01	1,9		3,7	**1,8**	1,2	0,91	0,60	0,45	55000	1826		
8000	833,78	1,7		3,3	**1,6**	1,1	0,82	0,54	0,41	55000	1839		
8000	943,49	1,5		2,9	**1,4**	0,95	0,72	0,47	0,36	55000	1851		
8000	1058,16	1,4		2,6	**1,3**	0,85	0,65	0,42	0,32	55000	1892		
8000	1192,77	1,2		2,3	**1,1**	0,75	0,57	0,38	0,28	55000	1930		
8000	1353,02	1,1		2,0	**1,0**	0,66	0,51	0,33	0,25	55000	1966		
8000	1547,01	0,94		1,8	**0,88**	0,58	0,44	0,29	0,24	55000	2000		
8000	1786,65	0,81		1,5	**0,77**	0,50	0,38	0,25	0,21	55000	2031		
8000	2066,04	0,70		1,3	**0,66**	0,43	0,33	0,24	0,18	55000	2058		
8000	1941,39	0,75	**KT776**	1,4	**0,72**	0,47	0,36	0,26	0,20	55000	2124	386	566
8000	2145,24	0,68		1,3	**0,65**	0,43	0,33	0,24	0,18	55000	2129		
8000	2503,73	0,58		1,1	**0,56**	0,37	0,28	0,20	0,15	55000	2135		
8000	2944,95	0,49		0,95	**0,48**	0,31	0,26	0,17	0,13	55000	2141		
8000	3501,26	0,41		0,80	**0,40**	0,26	0,22	0,15	0,11	55000	2146		
8000	3960,44	0,37		0,71	**0,35**	0,26	0,20	0,13	0,10	55000	2150		
8000	4516,30	0,32		0,62	**0,31**	0,23	0,17	0,11	0,09	55000	2153		
8000	5610,63	0,26		0,50	**0,25**	0,18	0,14	0,09	0,07	55000	2157		
8000	6380,72	0,23		0,49	**0,25**	0,18	0,14	0,09	0,07	55000	2159		
8000	7156,22	0,20		0,44	**0,22**	0,16	0,12	0,08	0,06	55000	2167		
8000	8066,59	0,18		0,39	**0,19**	0,14	0,11	0,07	0,05	55000	2174		
8000	9150,37	0,16		0,34	**0,17**	0,13	0,10	0,06	0,05	55000	2181		
8000	10462,31	0,14		0,30	**0,15**	0,11	0,08	0,05	0,04	55000	2188		
8000	12082,94	0,12		0,26	**0,13**	0,09	0,07	0,05	0,04	55000	2194		
8000	13972,49	0,10		0,25	**0,11**	0,08	0,06	0,04	0,03	55000	2199		
8000	15618,73	0,09		0,22	**0,10**	0,07	0,06	0,04	0,03	55000	2202		
7850	9,63	151	**KT873**	-	**132**	98	77	51	38	59317	-	615	570
8100	11,05	131		-	**118**	88	67	44	33	62056	-		
8350	12,25	118		-	**110**	80	61	40	30	64010	-		
8650	13,93	104		-	**100**	70	53	35	26	66615	-		
12600	16,78	86		-	**121**	91	72	47	36	64685	-		
13100	19,26	75		-	**110**	82	63	41	31	67491	-		
13550	21,34	68		-	**103**	74	57	37	28	69502	-		
14100	24,28	60		-	**94**	65	50	33	25	72195	-		
13300	29,88	49		-	**72**	53	41	27	20	81282	-		
13800	34,28	42		-	**65**	46	35	23	18	84864	-		
14250	38,00	38		-	**61**	42	32	21	16	85187	-		
14750	43,22	34		-	**55**	37	28	18	14	80404	-		
15000	49,75	29		-	**49**	32	24	16	12	76000	-		
15000	55,53	26		-	**44**	29	22	14	11	76000	-		
15000	62,42	23		-	**39**	25	19	13	9,6	76000	-		
15000	70,76	20		63	**34**	22	17	11	8,5	76000	-		
15000	81,06	18		57	**30**	20	15	9,8	7,4	76000	-		



K Serisi Motorsuz Güç Devir Sayfaları
K Series Gear Units Performance Tables
K Serien Getriebe Leistung und Drehzahlübersicht

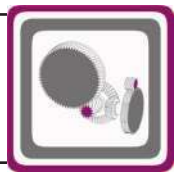
Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1450rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1450rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Giriş devri[d/d]** / *Input speed[rpm]* / Antriebsdrehzahl[upm]						**Güv. Rad.Yük Çıkış** *Per.O.Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1450rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1450rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite
				n1=2900	**n1=1450**	n1=950	n1=725	n1=475	n1=360				
15000	92,80	16	**KT873**	52	**26**	17	13	8,6	6,5	76000	-	615	570
15000	103,24	14		47	**23**	15	12	7,7	5,8	76000	-		
15000	115,87	13		42	**21**	14	10	6,8	5,2	76000	-		
15000	86,63	17	**KT874**	56	**28**	18	14	9,2	7,0	76000	-	630	574
15000	98,53	15		50	**25**	16	12	8,1	6,2	76000	-		
15000	113,42	13		43	**22**	14	11	7,1	5,4	76000	-		
15000	126,62	11		39	**19**	13	9,7	6,3	4,8	76000	-		
15000	142,32	10		34	**17**	11	8,6	5,6	4,3	76000	-		
15000	161,34	9,0		30	**15**	10,0	7,6	5,0	3,8	76000	175		
15000	184,83	7,8		27	**13**	8,7	6,7	4,4	3,3	76000	1361		
15000	207,95	7,0		24	**12**	7,8	5,9	3,9	2,9	76000	1664		
15000	235,47	6,2		21	**10**	6,9	5,2	3,4	2,6	76000	1948		
15000	287,10	5,1		17	**8,6**	5,6	4,3	2,8	2,1	76000	2311		
15000	339,70	4,3		15	**7,3**	4,8	3,6	2,4	1,8	76000	2584		
15000	383,99	3,8		13	**6,5**	4,2	3,2	2,1	1,6	76000	2648		
15000	438,70	3,3		11	**5,7**	3,7	2,8	1,9	1,4	76000	2688		
15000	463,83	3,1	**KT875**	11	**5,5**	3,6	2,7	1,8	1,4	76000	695	640	578
15000	514,05	2,8		9,9	**4,9**	3,2	2,5	1,6	1,2	76000	1122		
15000	584,66	2,5		8,7	**4,3**	2,8	2,2	1,4	1,1	76000	1448		
15000	673,01	2,2		7,5	**3,8**	2,5	1,9	1,2	0,94	76000	1551		
15000	751,30	1,9		6,8	**3,4**	2,2	1,7	1,1	0,84	76000	1622		
15000	844,51	1,7		6,0	**3,0**	2,0	1,5	0,99	0,75	76000	1690		
15000	957,34	1,5		5,3	**2,7**	1,7	1,3	0,87	0,66	76000	1754		
15000	1096,71	1,3		4,6	**2,3**	1,5	1,2	0,76	0,58	76000	1814		
15000	1313,07	1,1		3,9	**1,9**	1,3	0,97	0,64	0,48	76000	1838		
15000	1495,27	0,97		3,4	**1,7**	1,1	0,86	0,56	0,42	76000	1852		
15000	1671,18	0,87		3,1	**1,5**	1,0	0,77	0,50	0,38	76000	1865		
15000	1891,08	0,77		2,7	**1,4**	0,89	0,68	0,44	0,34	76000	1875		
15000	2074,42	0,70	**KT876**	2,5	**1,3**	0,83	0,63	0,41	0,31	76000	2042	650	578
15000	2387,89	0,61		2,2	**1,1**	0,72	0,55	0,36	0,27	76000	2067		
15000	2665,68	0,54		2,0	**0,98**	0,64	0,49	0,32	0,27	76000	2085		
15000	2996,39	0,48		1,7	**0,87**	0,57	0,44	0,29	0,24	76000	2101		
15000	3396,71	0,43		1,5	**0,77**	0,50	0,39	0,25	0,21	76000	2116		
15000	3891,23	0,37		1,3	**0,67**	0,44	0,34	0,24	0,19	76000	2131		
15000	4299,81	0,34		1,2	**0,61**	0,40	0,30	0,22	0,17	76000	2136		
15000	5018,35	0,29		1,0	**0,52**	0,34	0,26	0,19	0,14	76000	2142		
15000	5902,70	0,25		0,89	**0,45**	0,29	0,25	0,16	0,12	76000	2147		
15000	7017,76	0,21		0,75	**0,38**	0,27	0,21	0,14	0,10	76000	2152		
15000	7938,12	0,18		0,67	**0,33**	0,24	0,18	0,12	0,09	76000	2155		
15000	9052,24	0,16		0,58	**0,29**	0,21	0,16	0,11	0,08	76000	2158		
15000	11245,67	0,13		0,52	**0,26**	0,19	0,15	0,10	0,07	76000	2162		
15000	12789,19	0,11		0,46	**0,23**	0,17	0,13	0,08	0,06	76000	2164		
11300	11,69	124	**KT973**	252	**153**	115	93	71	58	77710	20760	1045	582
11600	13,06	111		232	**140**	106	85	65	53	80410	20630		
11950	14,65	99		213	**129**	97	78	60	47	83470	20500		
12300	16,51	88		194	**118**	89	72	54	42	86610	20370		
12680	18,73	77		176	**107**	81	65	50	38	90120	20240		
19120	22,05	66		232	**137**	91	70	47	36	77500	20630		
19200	24,73	59		212	**123**	82	63	42	32	77500	20500		
19280	27,88	52		194	**109**	73	56	37	28	77500	20380		
19380	31,63	46		177	**97**	65	50	33	25	76500	20270		
19510	38,21	38		147	**82**	54	42	27	21	75500	20430		
19600	42,86	34		135	**73**	49	37	24	19	75000	20360		
19700	48,31	30		124	**65**	43	33	22	16	74500	20290		
19800	54,80	26		112	**58**	38	29	19	14	74000	20220		
19940	64,28	23		96	**50**	33	25	16	12	73500	20150		
20000	71,60	20		87	**45**	29	22	15	11	73500	20100		
20000	80,31	18		78	**40**	26	20	13	9,9	73500	20060		
20000	90,85	16		69	**35**	23	18	12	8,7	73500	20020		



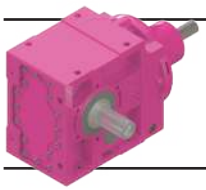
K Serisi Motorsuz Güç Devir Sayfaları

K Series Gear Units Performance Tables

K Serien Getriebe Leistung und Drehzahlübersicht

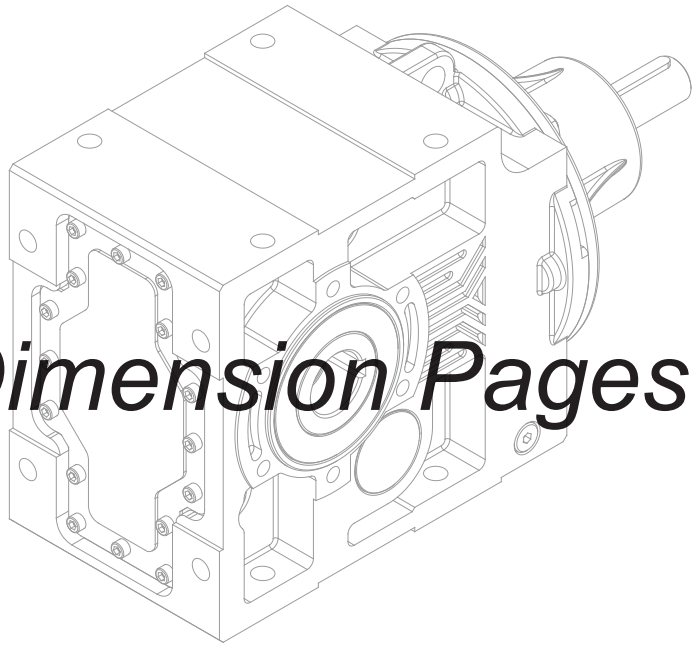


Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1450rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1450rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Giriş devri[d/d]** / *Input speed[rpm]* / Antriebsdrehzahl[upm]						**Güv. Rad.Yük Çıkış** *Per.O.Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1450rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1450rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite
				n1=2900	**n1=1450**	n1=950	n1=725	n1=475	n1=360				
20000	103,87	14	**KT973**	61	**31**	20	16	10	7,7	73500	19980	1045	582
20000	117,32	12		55	**28**	18	14	9,0	6,8	73500	19950		
20000	130,38	11		49	**25**	16	12	8,1	6,2	73500	19930		
20000	146,20	9,9		44	**22**	14	11	7,2	5,5	73500	19900		
20000	134,57	11	**KT974**	49	**24**	16	12	7,9	6,0	73500	-	1070	586
20000	151,03	9,6		43	**22**	14	11	7,1	5,4	73500	-		
20000	168,94	8,6		39	**19**	13	9,7	6,4	4,8	73500	-		
20000	181,51	8,0		36	**18**	12	9,0	5,9	4,5	73500	-		
20000	238,77	6,1		28	**14**	9,0	6,9	4,5	3,4	73500	5760		
20000	269,15	5,4		24	**12**	8,0	6,1	4,0	3,0	73500	6120		
20000	305,31	4,7		22	**11**	7,1	5,4	3,5	2,7	73500	6020		
20000	358,16	4,0		18	**9,2**	6,0	4,6	3,0	2,3	73500	5880		
20000	398,92	3,6		17	**8,3**	5,4	4,1	2,7	2,1	73500	5790		
20000	361,44	4,0	**KT975**	19	**9,3**	6,1	4,7	3,0	2,3	73500	2970	1090	590
20000	427,72	3,4		16	**7,9**	5,2	3,9	2,6	2,0	73500	2910		
20000	460,51	3,1		15	**7,3**	4,8	3,7	2,4	1,8	73500	2890		
20000	518,12	2,8		13	**6,5**	4,3	3,3	2,1	1,6	73500	3320		
20000	586,70	2,5		12	**5,8**	3,8	2,9	1,9	1,4	73500	3260		
20000	659,09	2,2		10	**5,1**	3,4	2,6	1,7	1,3	73500	3230		
20000	715,34	2,0		9,5	**4,7**	3,1	2,4	1,5	1,2	73500	3200		
20000	846,39	1,7		8,0	**4,0**	2,6	2,0	1,3	0,99	73500	3170		
20000	949,26	1,5		7,2	**3,6**	2,3	1,8	1,2	0,89	73500	3150		
20000	1070,02	1,4		6,3	**3,2**	2,1	1,6	1,0	0,79	73500	3130		
20000	1213,78	1,2		5,6	**2,8**	1,8	1,4	0,92	0,70	73500	3100		
20000	1423,89	1,0		4,8	**2,4**	1,6	1,2	0,78	0,59	73500	3060		
20000	1585,92	0,91		4,3	**2,1**	1,4	1,1	0,70	0,53	73500	2650		
20000	1985,89	0,73	**KT976**	3,5	**1,7**	1,1	0,87	0,57	0,43	73500	2800	1090	590
20000	2218,31	0,65		3,1	**1,6**	1,0	0,78	0,51	0,39	73500	2780		
20000	2348,01	0,62		3,0	**1,5**	0,97	0,74	0,48	0,37	73500	2780		
20000	2811,23	0,52		2,5	**1,2**	0,81	0,62	0,41	0,31	73500	2770		
20000	3306,00	0,44		2,1	**1,1**	0,69	0,53	0,35	0,26	73500	2720		
20000	3499,30	0,41		2,0	**1,0**	0,65	0,50	0,33	0,27	73500	2720		
20000	4189,63	0,35		1,7	**0,83**	0,55	0,42	0,27	0,23	73500	2710		
20000	5350,83	0,27		1,3	**0,65**	0,43	0,33	0,24	0,18	73500	2700		
20000	6741,12	0,22		1,0	**0,52**	0,34	0,26	0,19	0,14	73500	2680		
20000	8652,97	0,17		0,81	**0,41**	0,27	0,23	0,15	0,11	73500	2670		
20000	12474,60	0,12		0,56	**0,28**	0,21	0,16	0,10	0,08	73500	2660		
20000	15680,79	0,09		0,50	**0,25**	0,18	0,14	0,09	0,07	73500	2650		



Notlar / *Notes* / Notizen

Ölçü Sayfaları

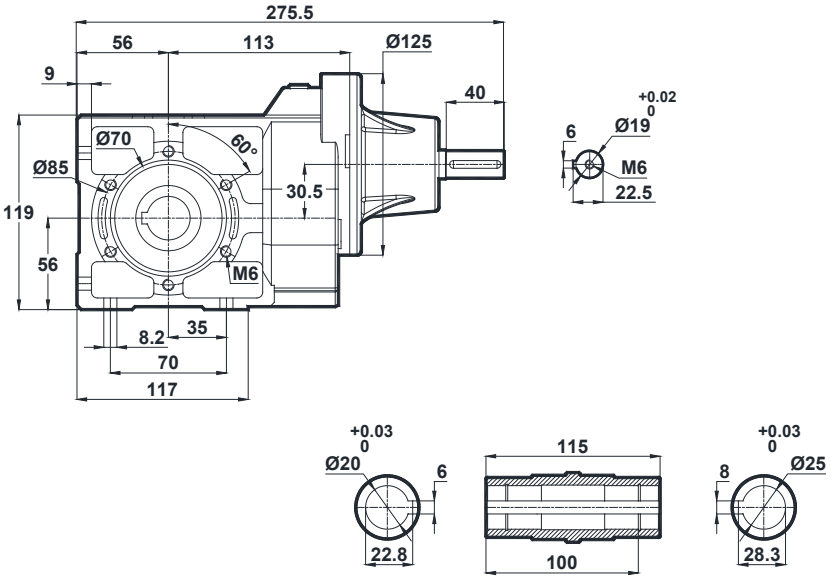


Dimension Pages

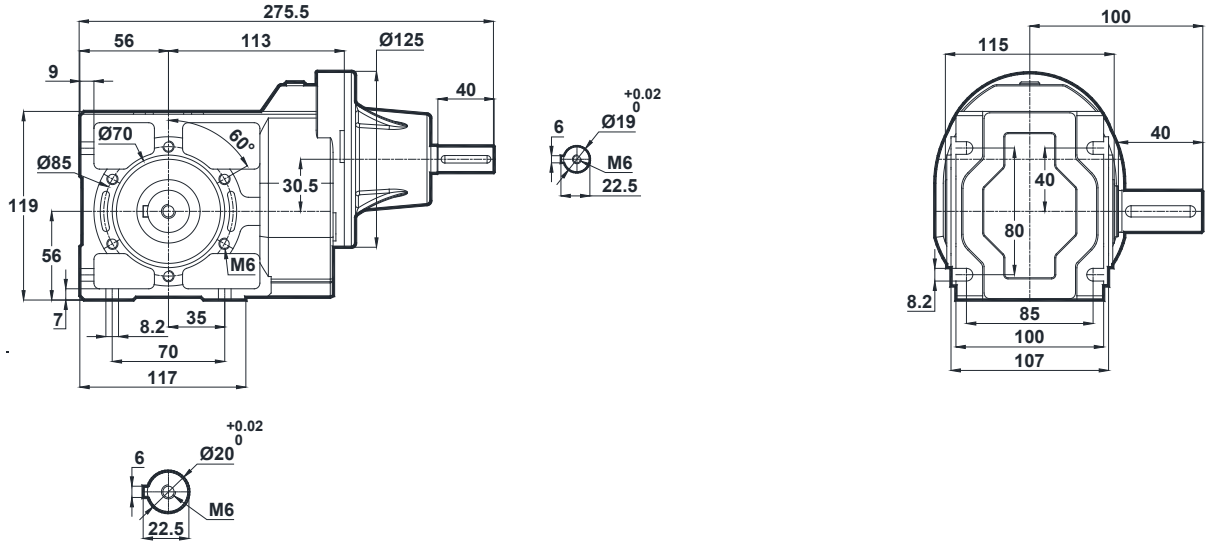
Abmessungsseiten

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT002.00
KT003.00

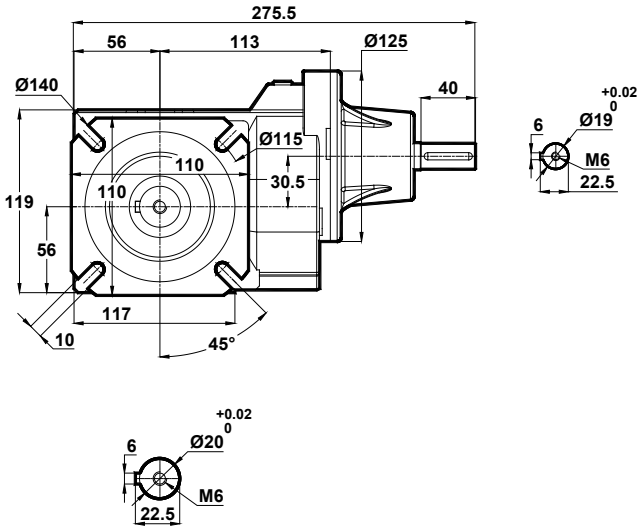


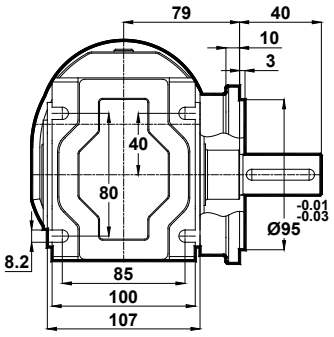
KT002.01
KT003.01



-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

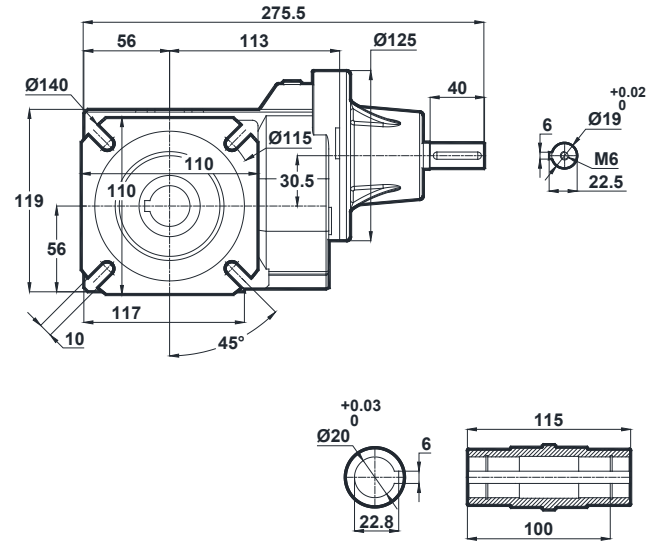
KT002.02
KT003.02

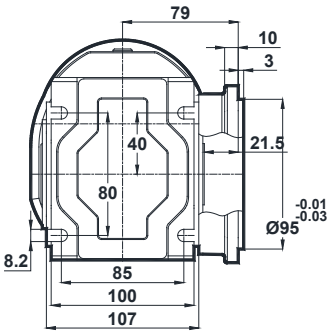




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KT002.03
KT003.03

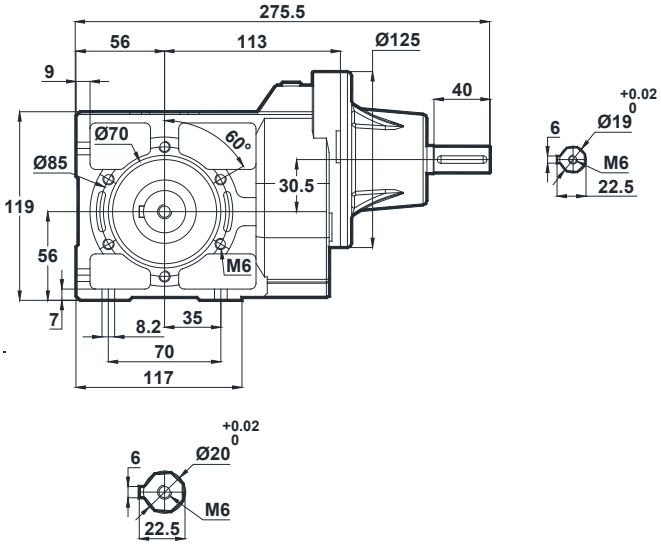


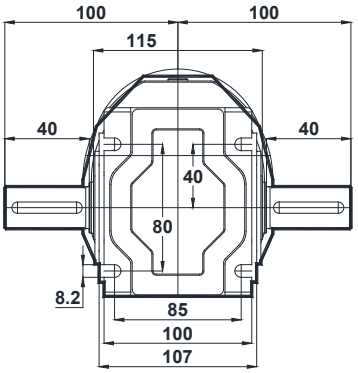


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

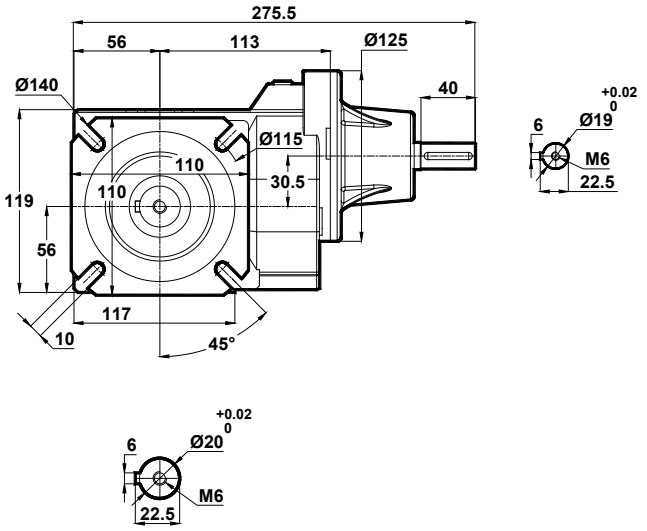
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

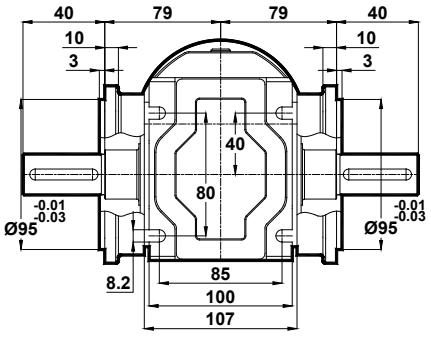
KT002.04
KT003.04





KT002.05
KT003.05

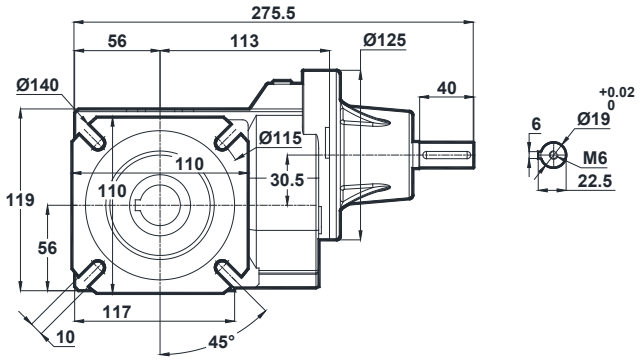


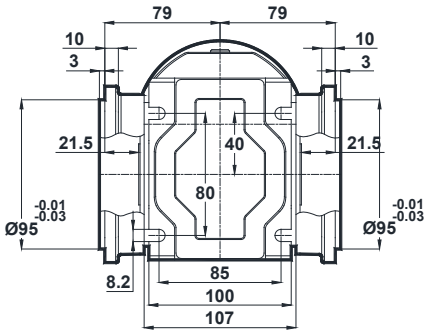


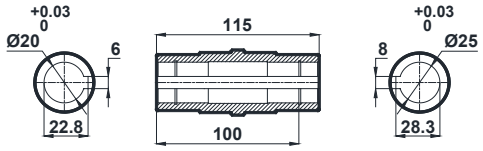
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT002.08
KT003.08



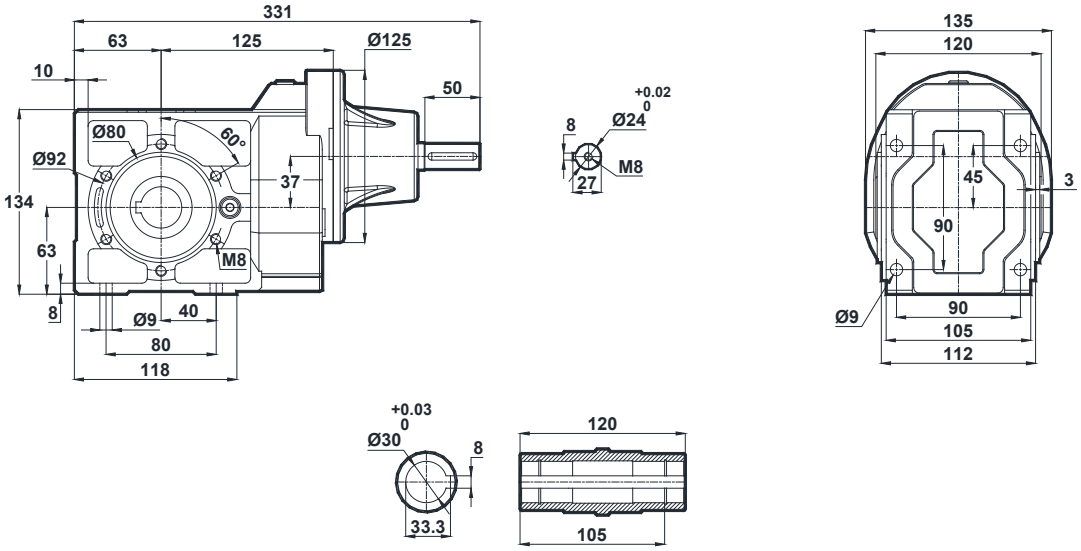




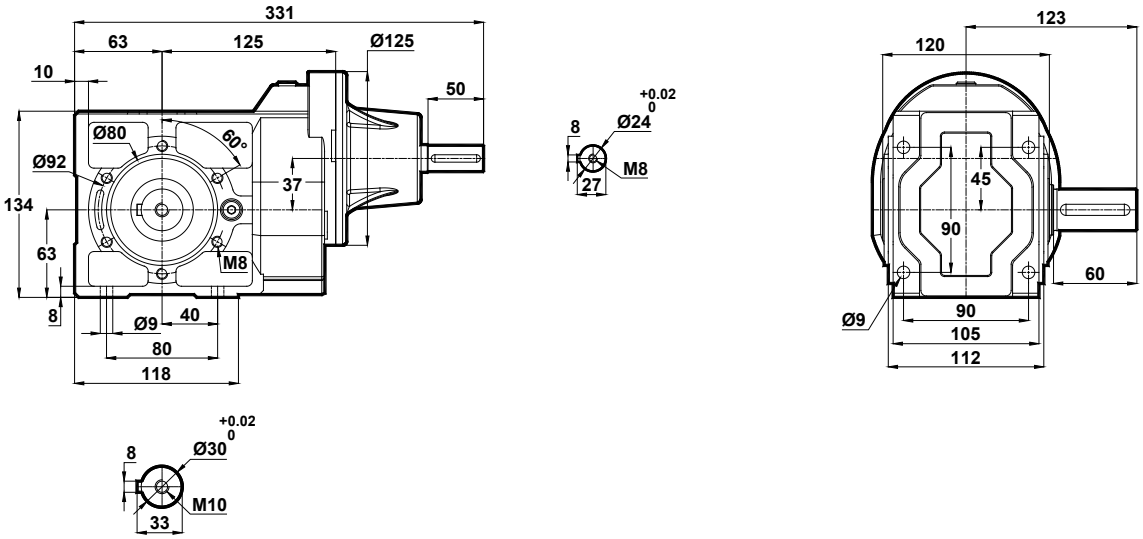
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT102.00
KT103.00

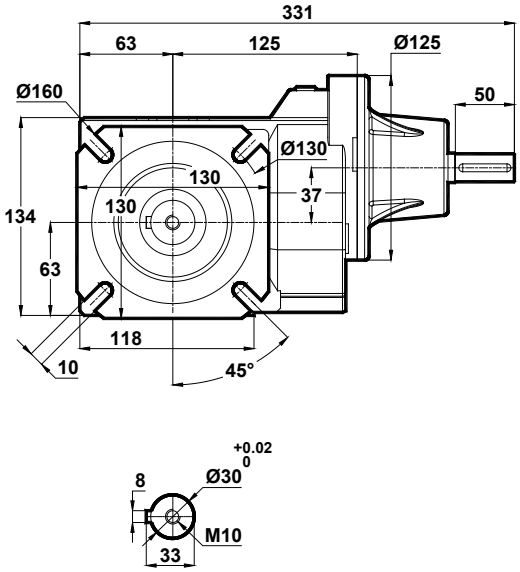


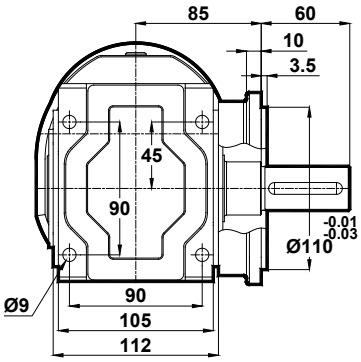
KT102.01
KT103.01



-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

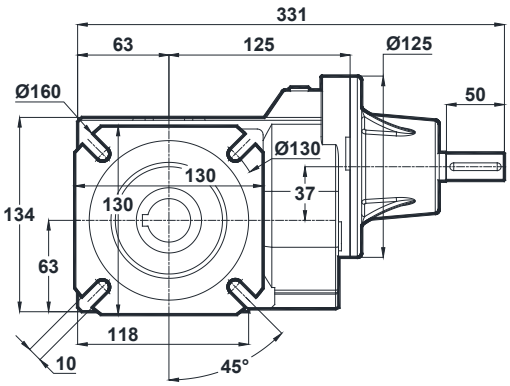
KT102.02
KT103.02

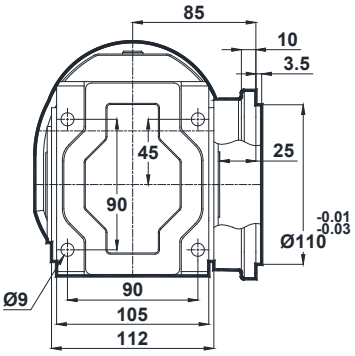




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KT102.03
KT103.03

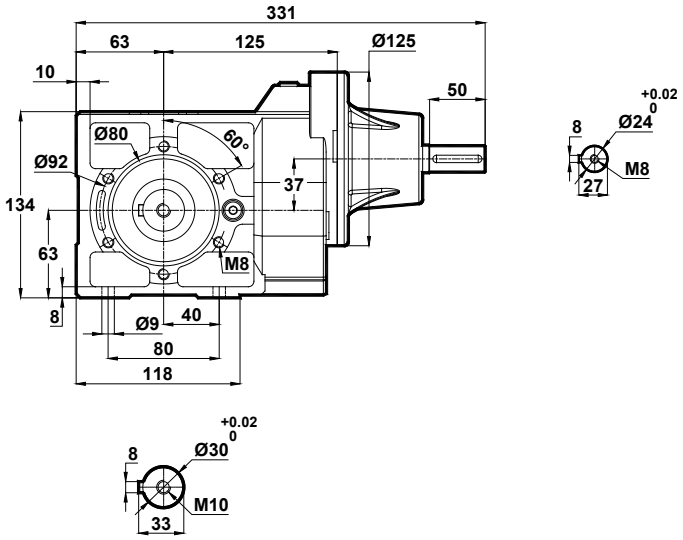




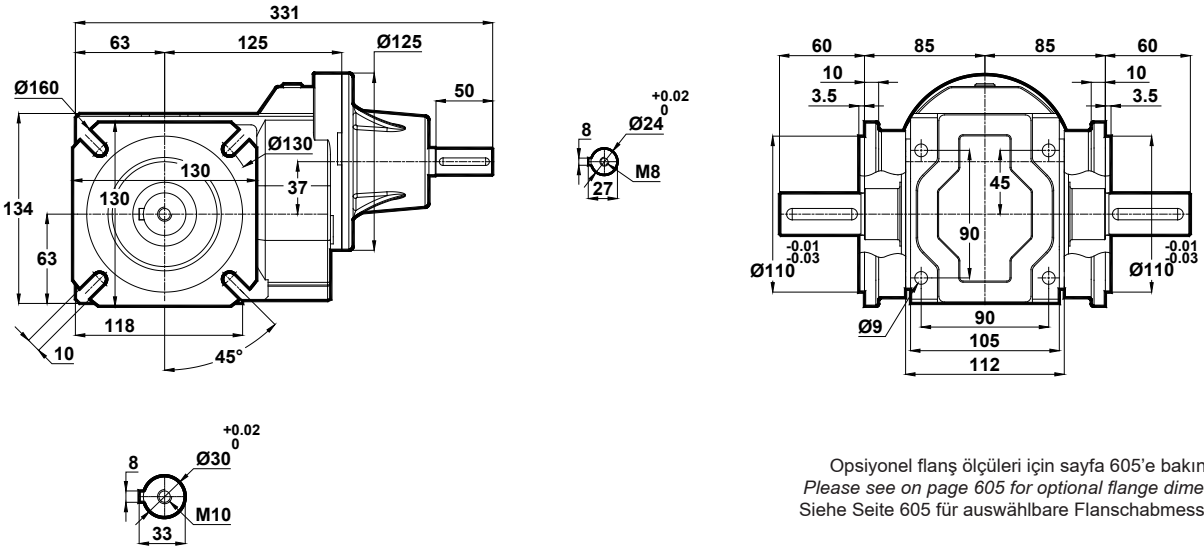
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT102.04
KT103.04



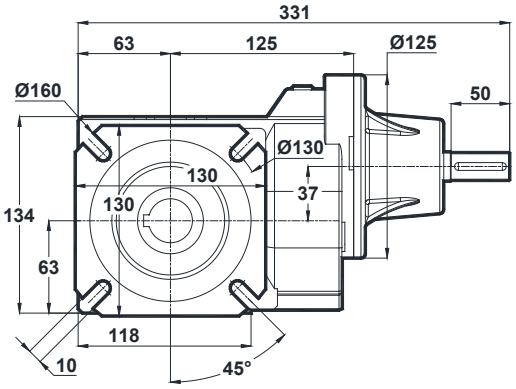
KT102.05
KT103.05

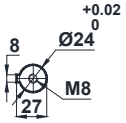


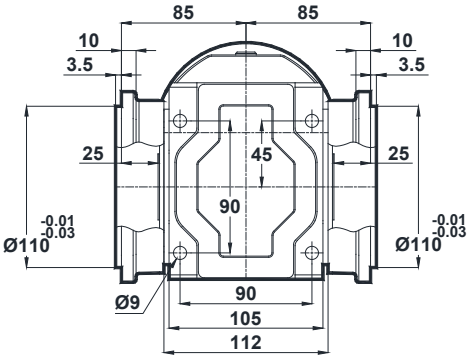
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

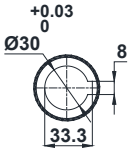
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

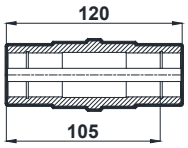
KT102.08
KT103.08







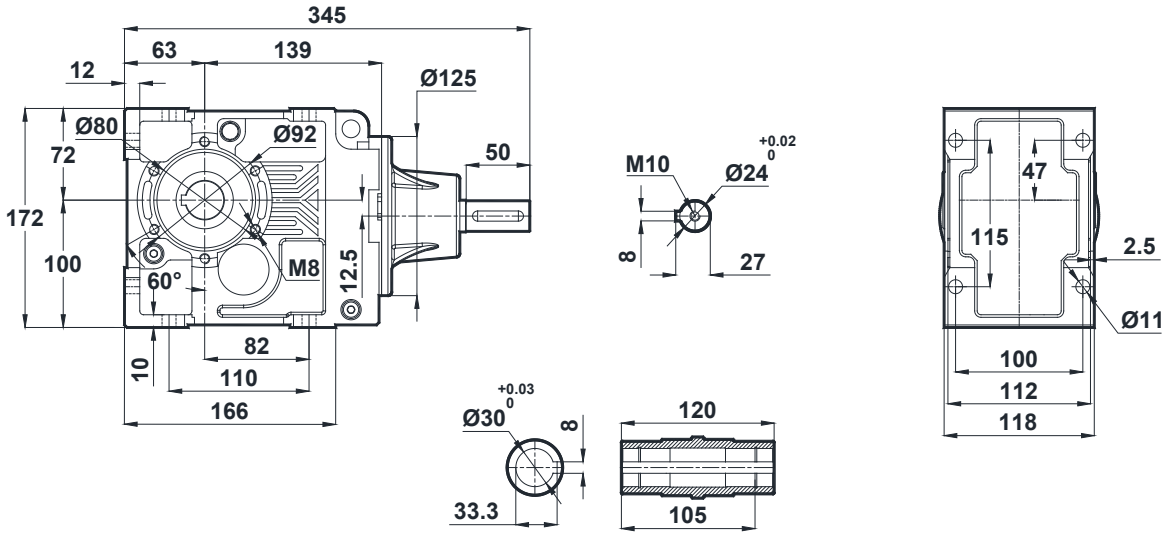




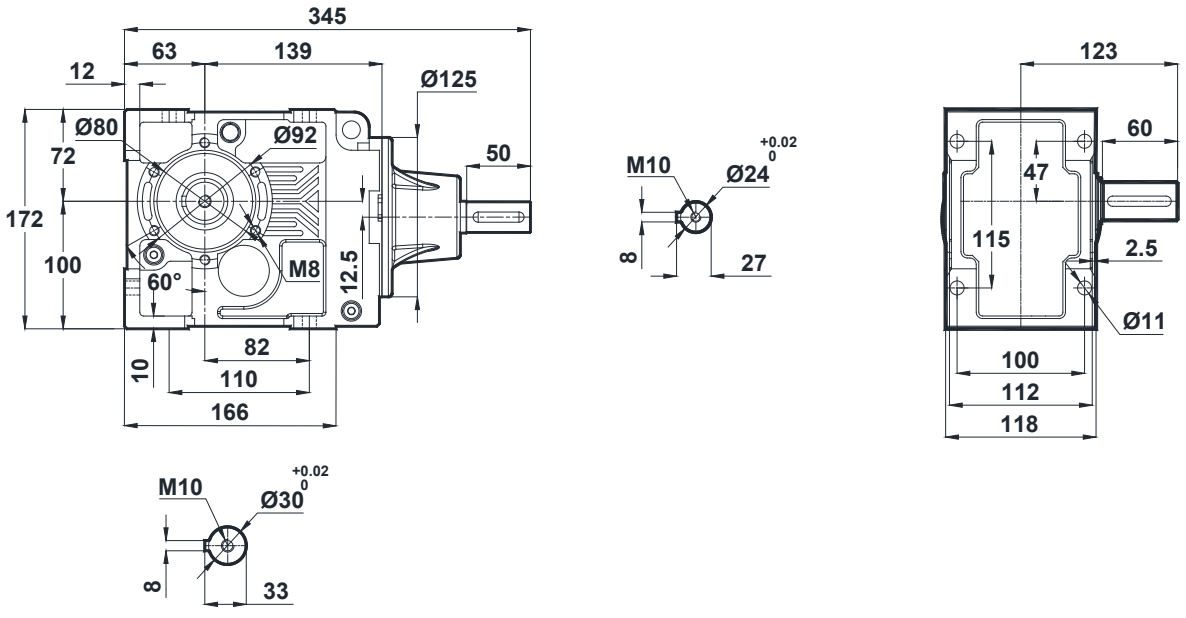
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT172.00
KT173.00

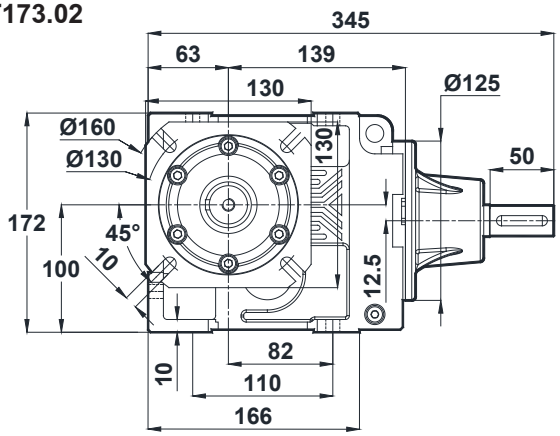


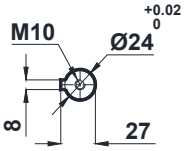
KT172.01
KT173.01

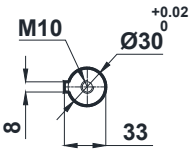


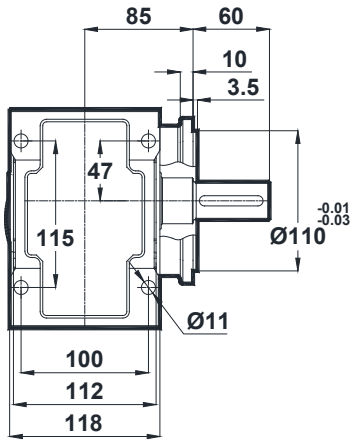
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT172.02
KT173.02



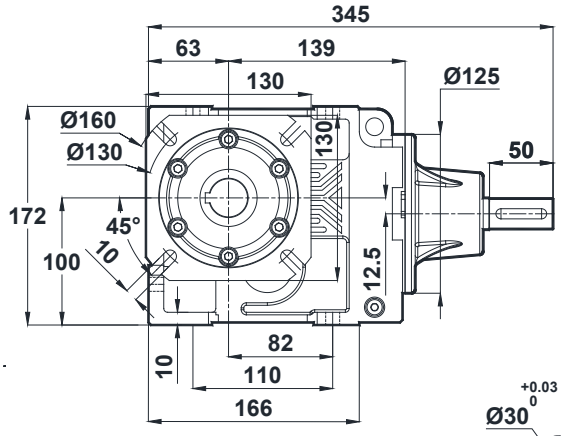


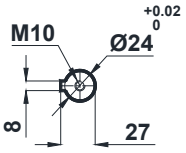


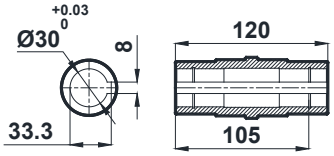


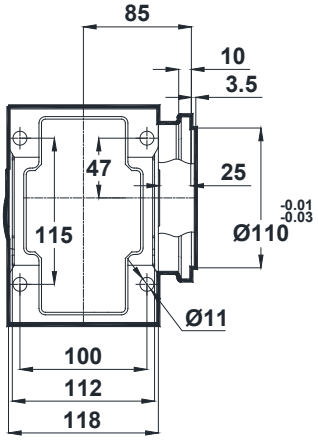
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KT172.03
KT173.03





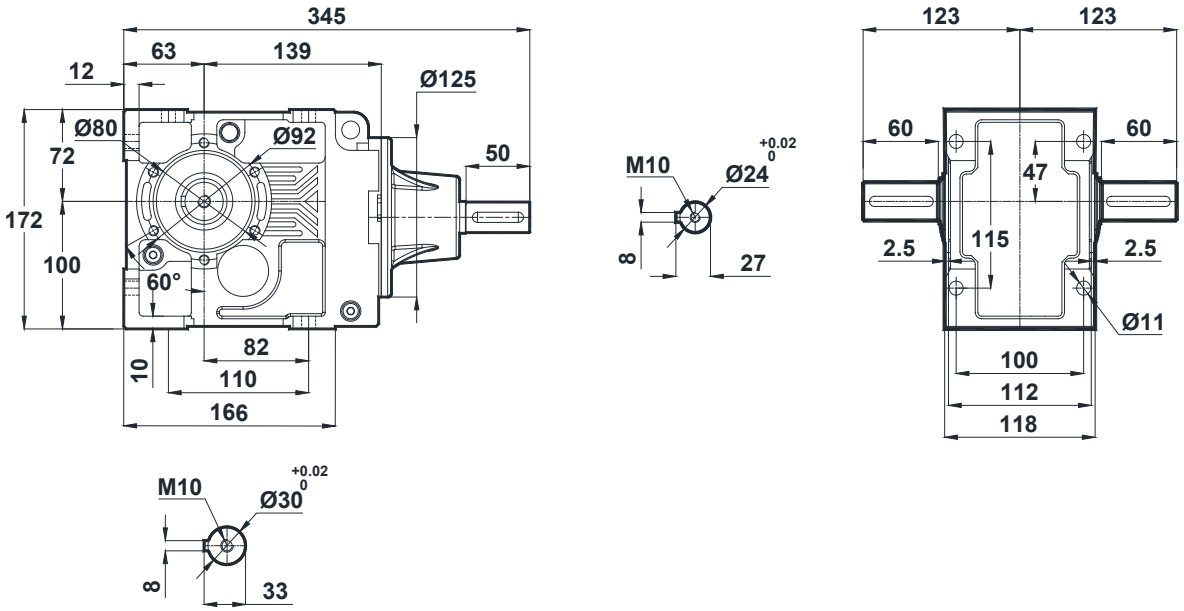




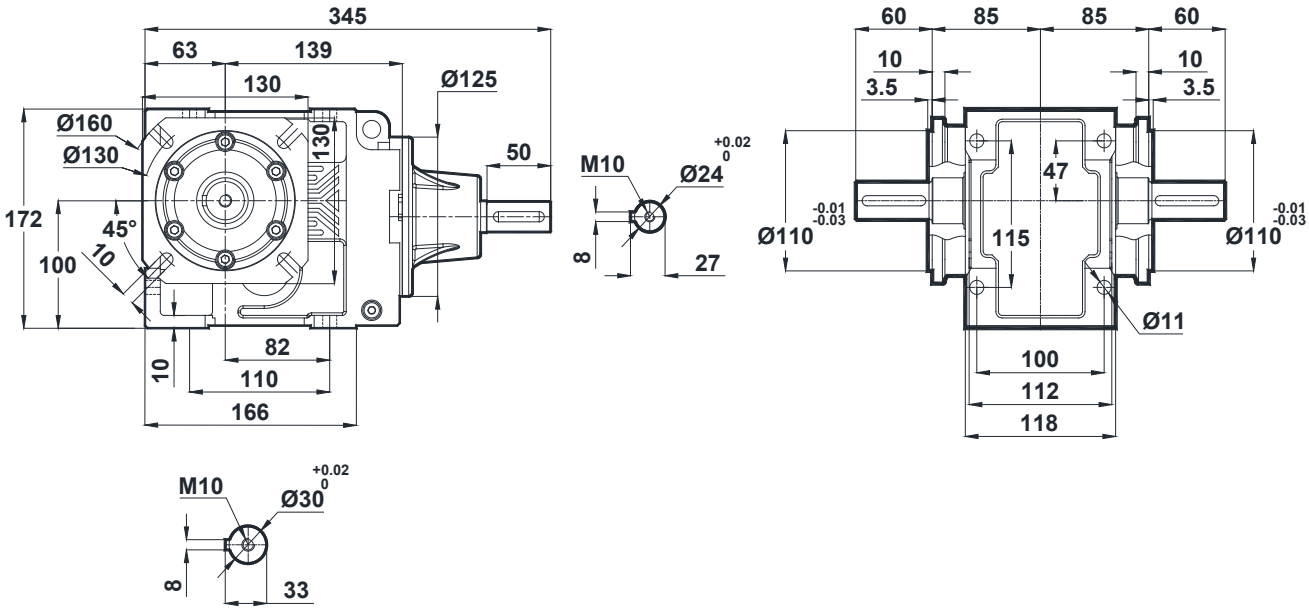
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT172.04
KT173.04

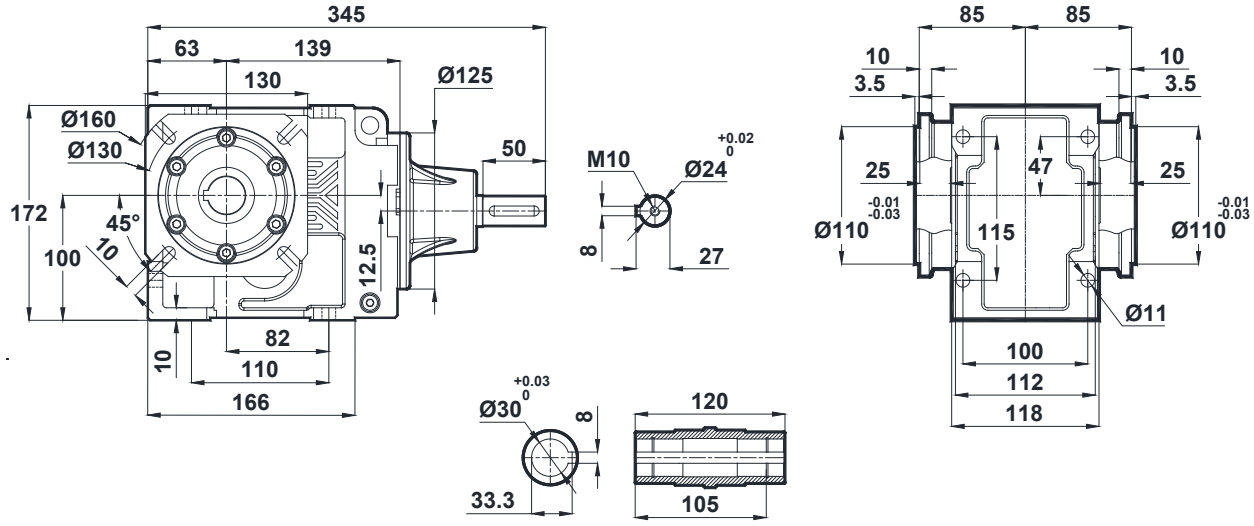


KT172.05
KT173.05



-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

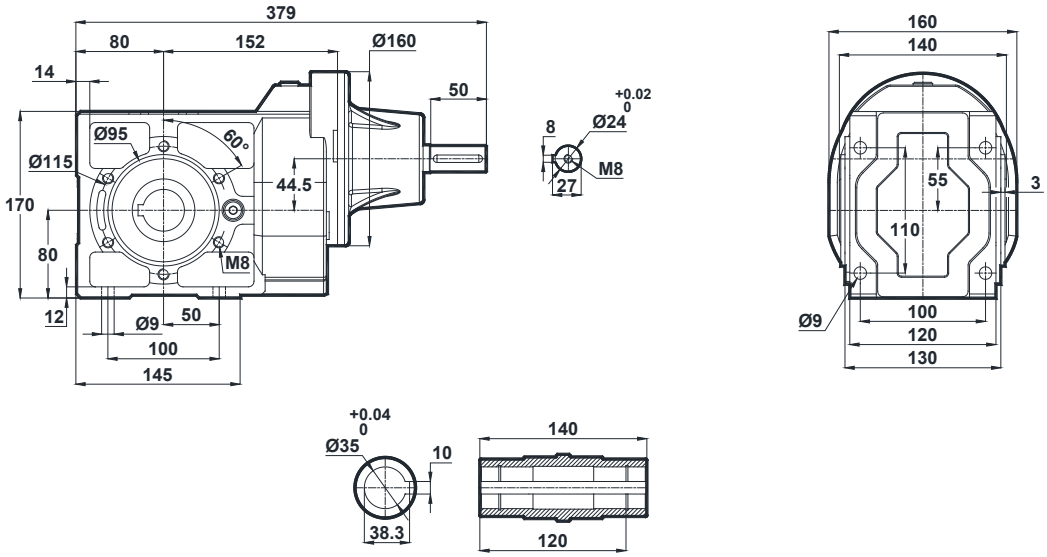
KT172.08
KT173.08



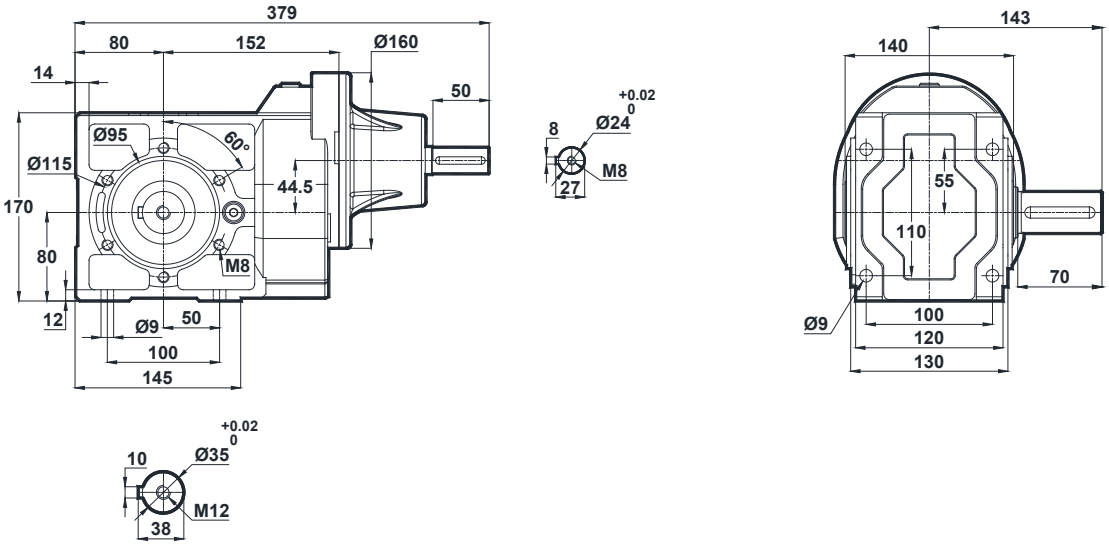
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT202.00
KT203.00

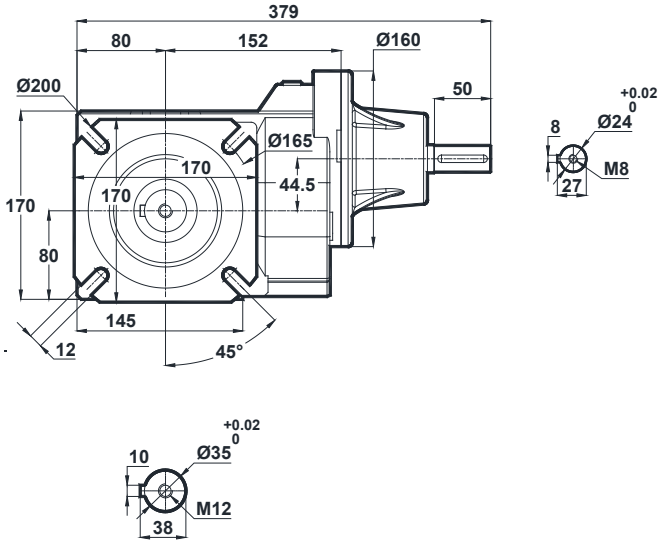


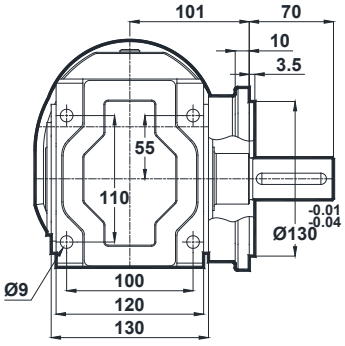
KT202.01
KT203.01



-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

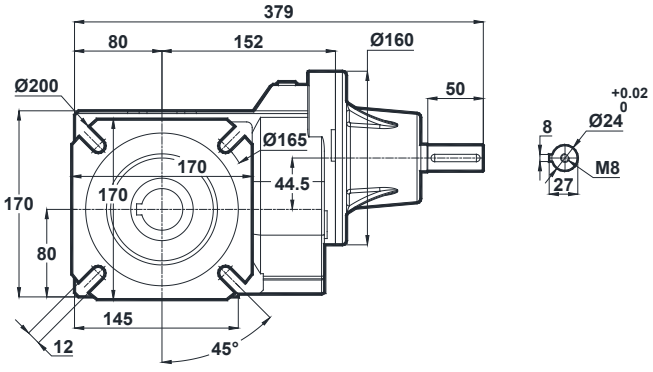
KT202.02
KT203.02

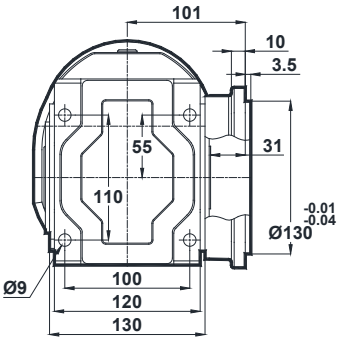




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KT202.03
KT203.03

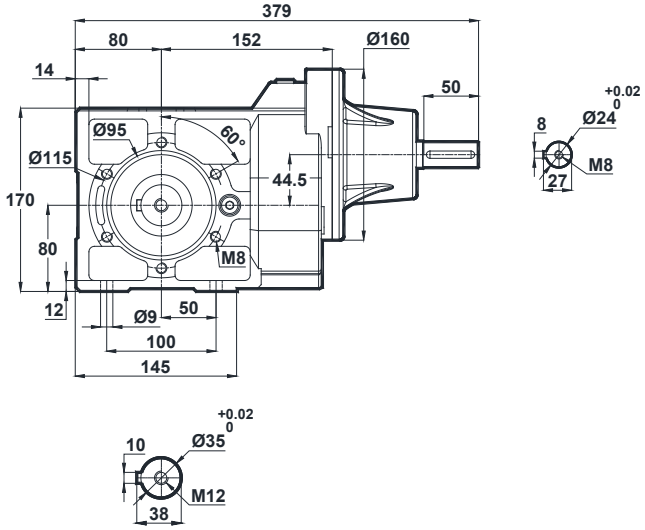




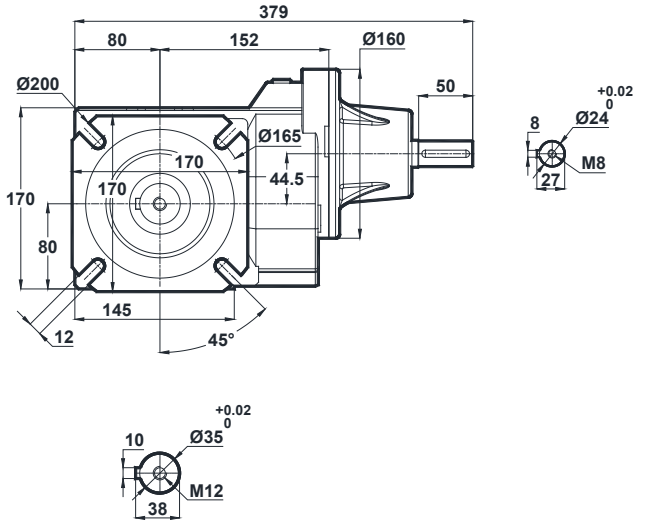
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT202.04
KT203.04



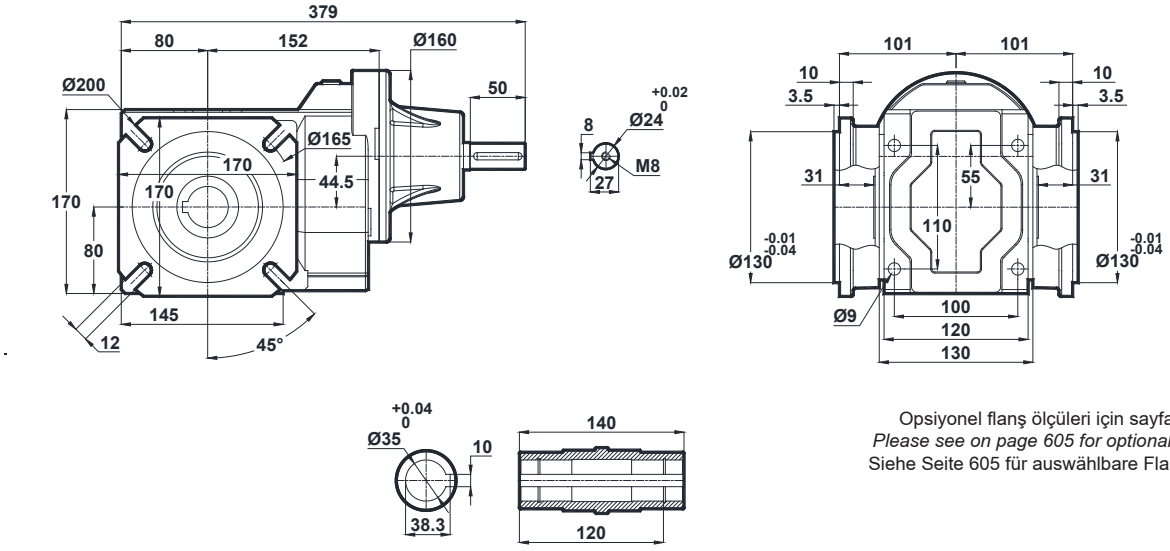
KT202.05
KT203.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

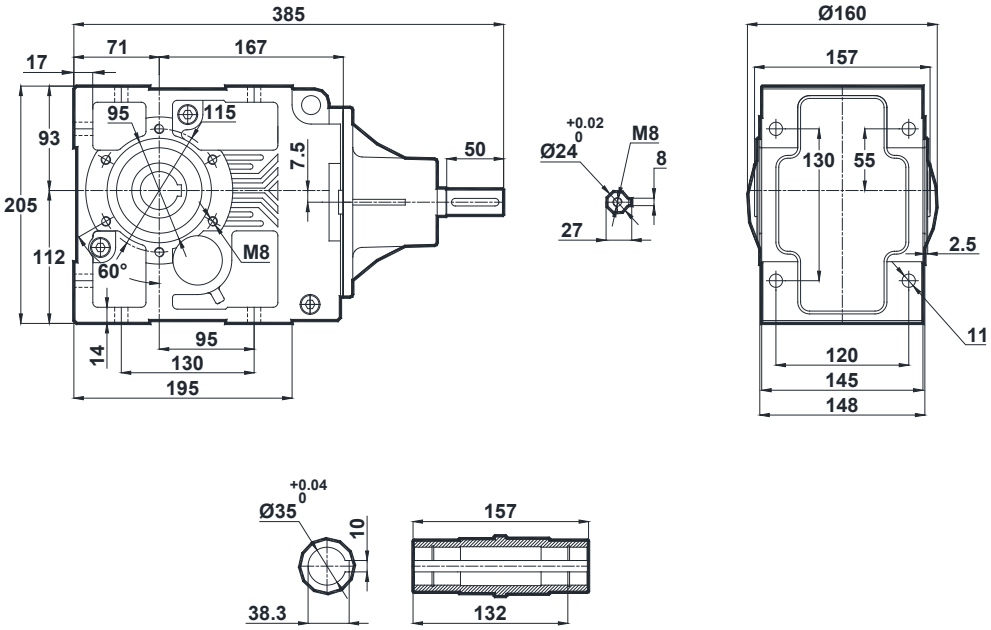
KT202.08
KT203.08



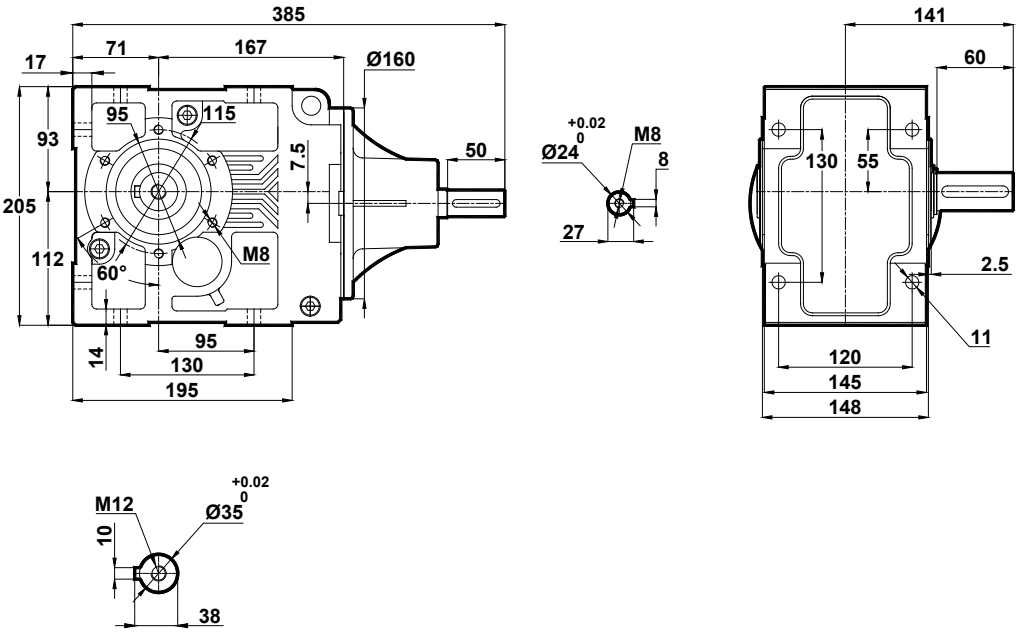
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT273.00

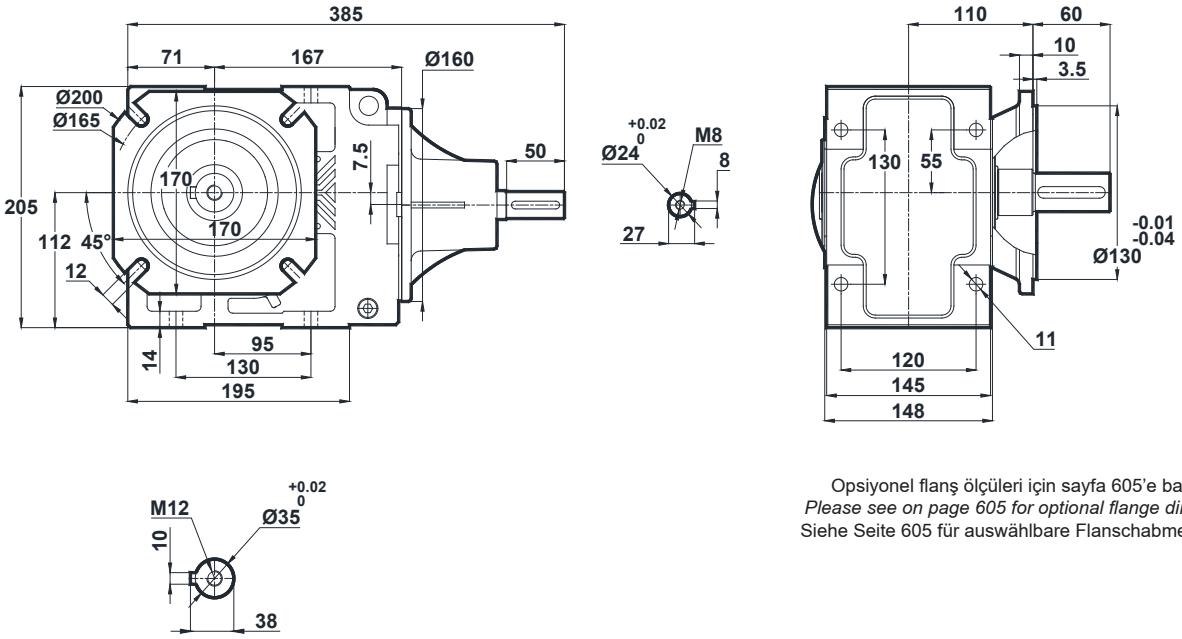


KT273.01



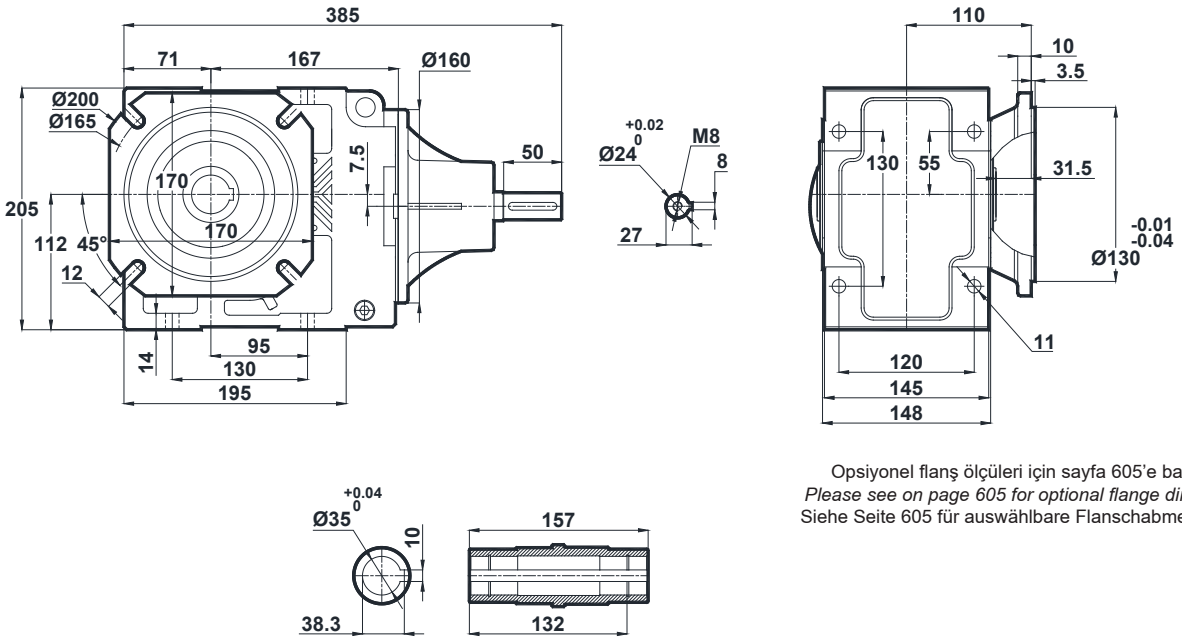
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT273.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

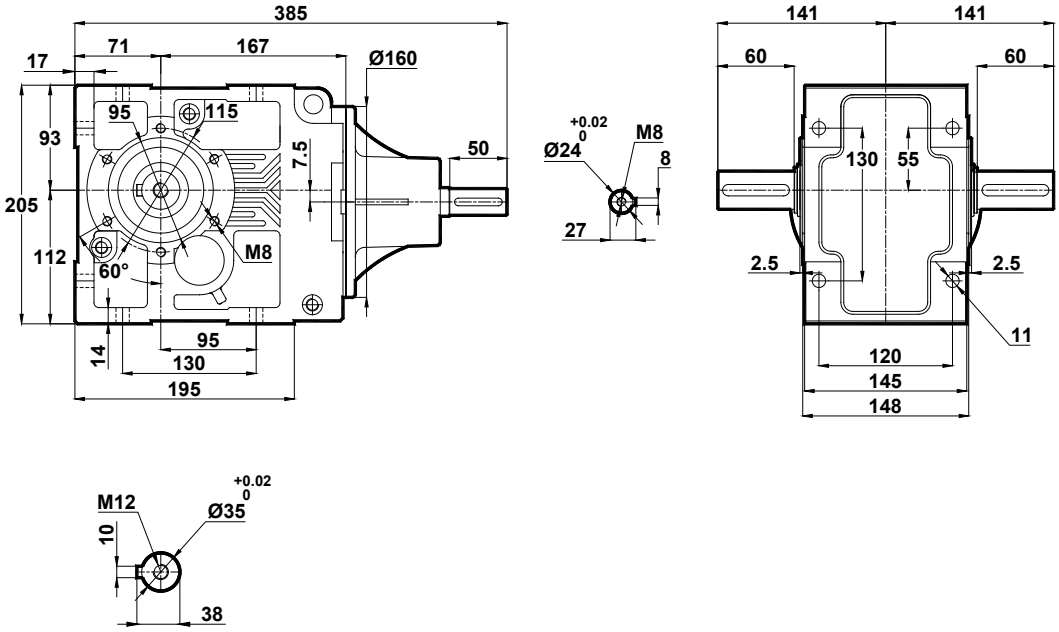
KT273.03



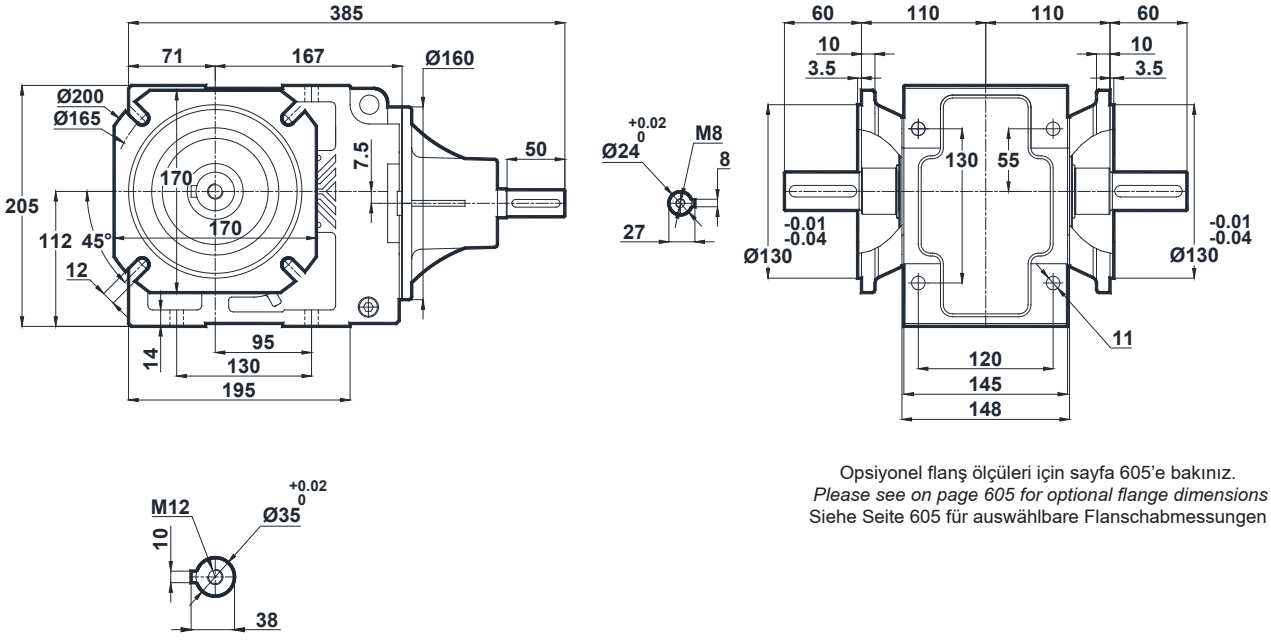
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT273.04



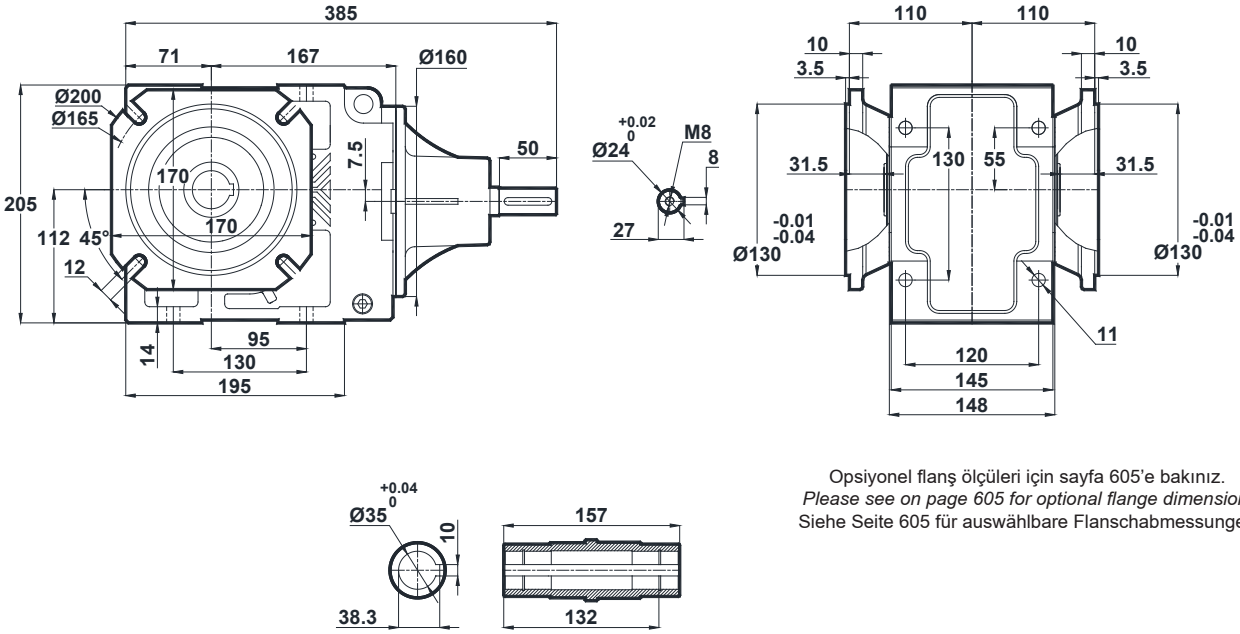
KT273.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

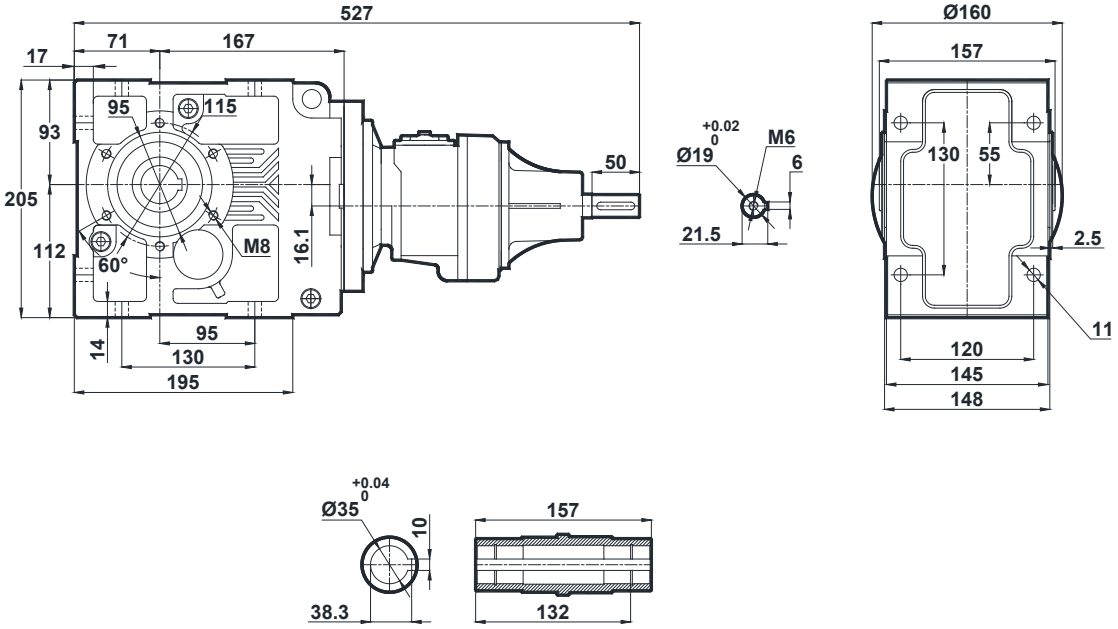
KT273.08



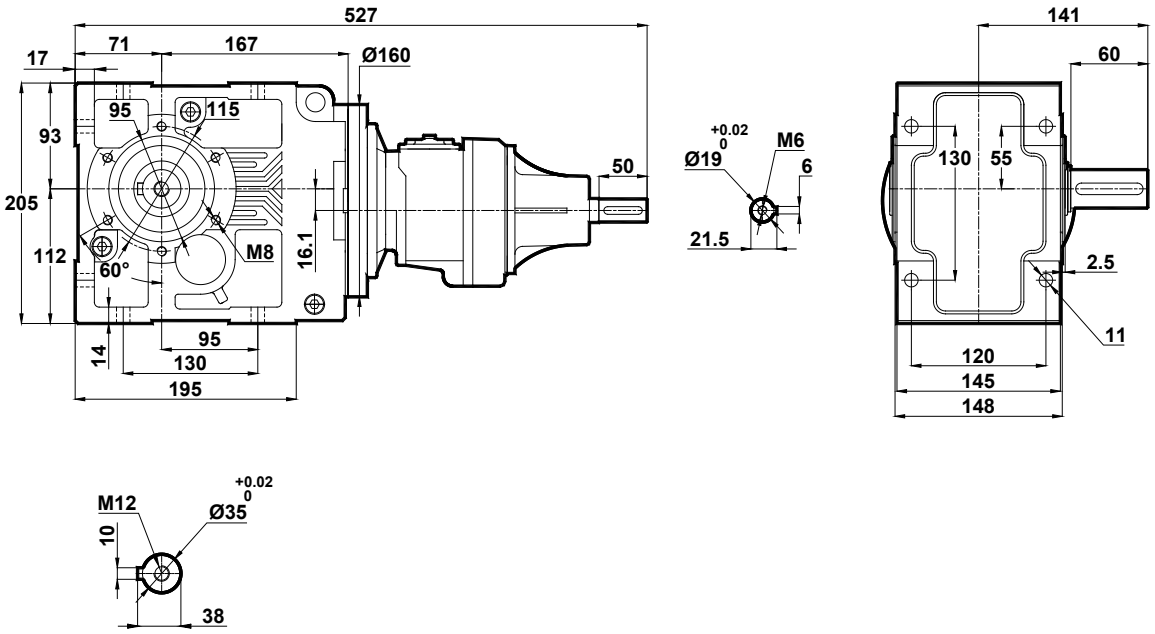
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT275.00
KT276.00

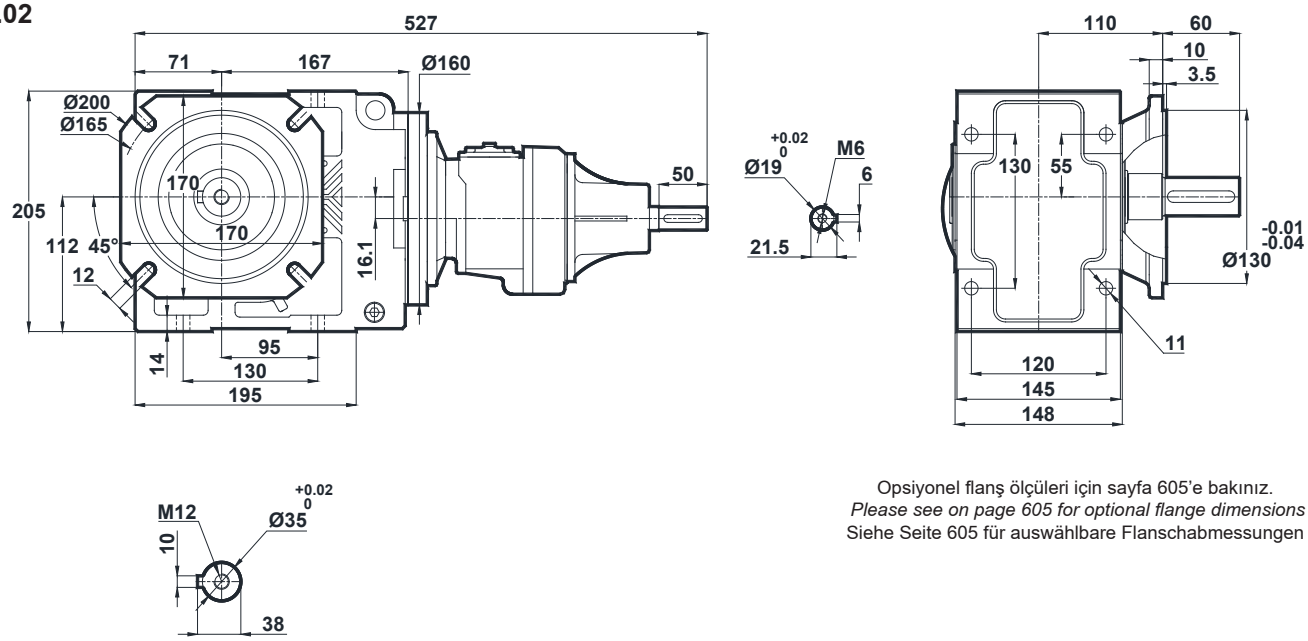


KT275.01
KT276.01



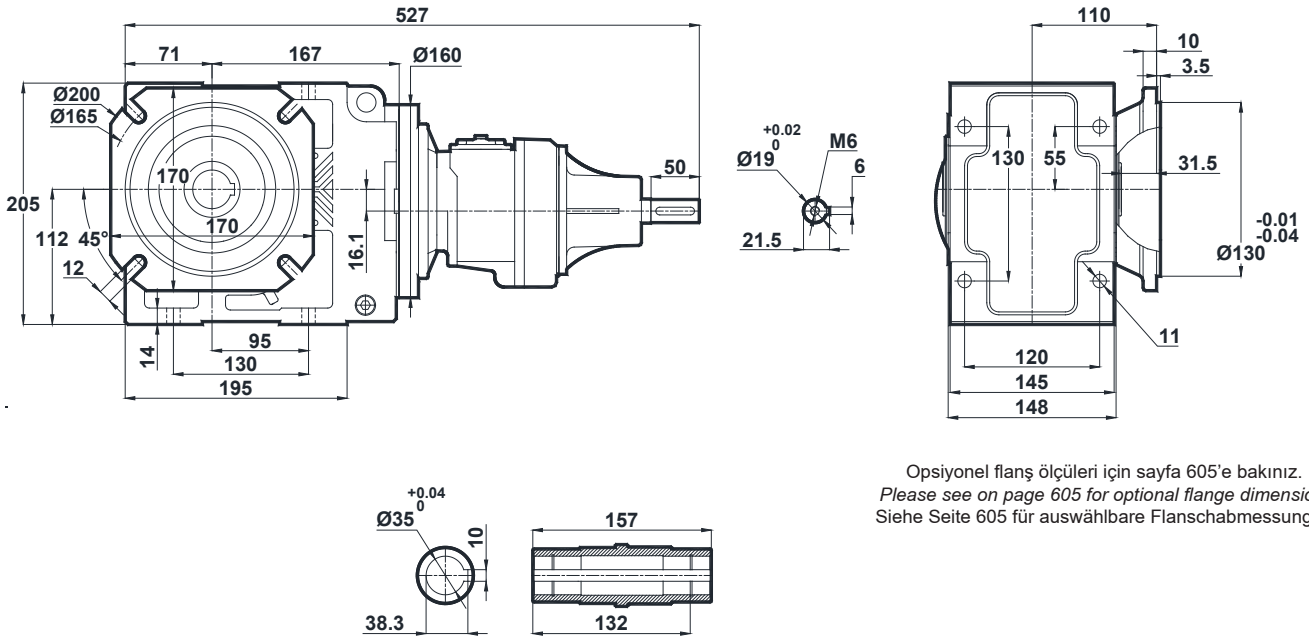
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT275.02
KT276.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

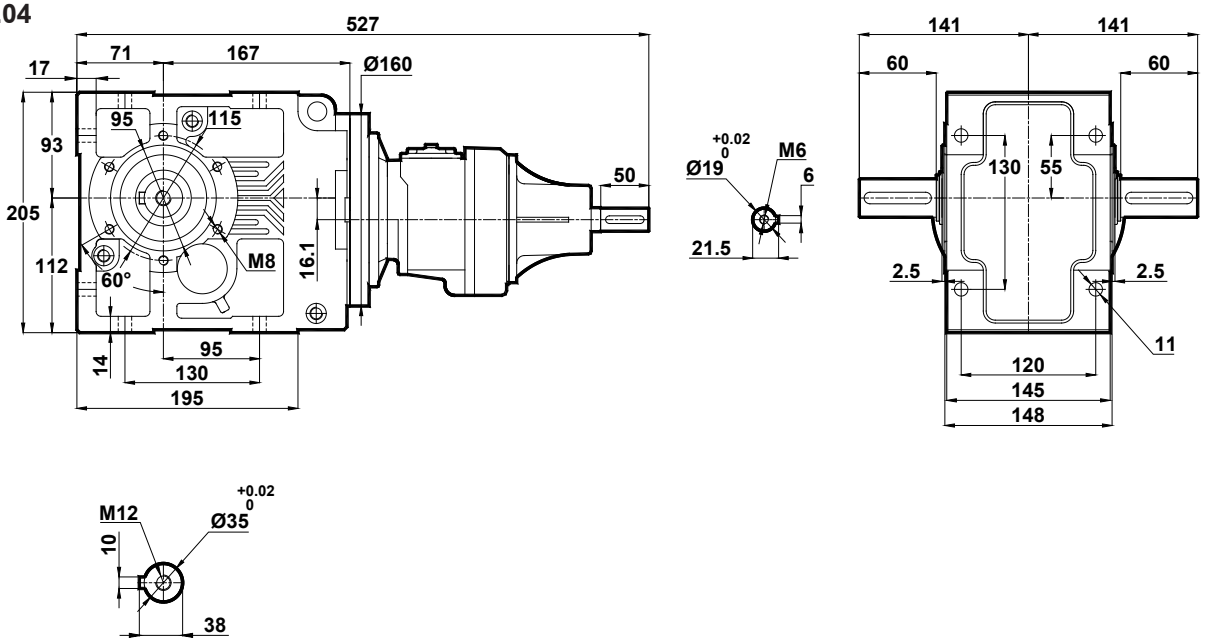
KT275.03
KT276.03



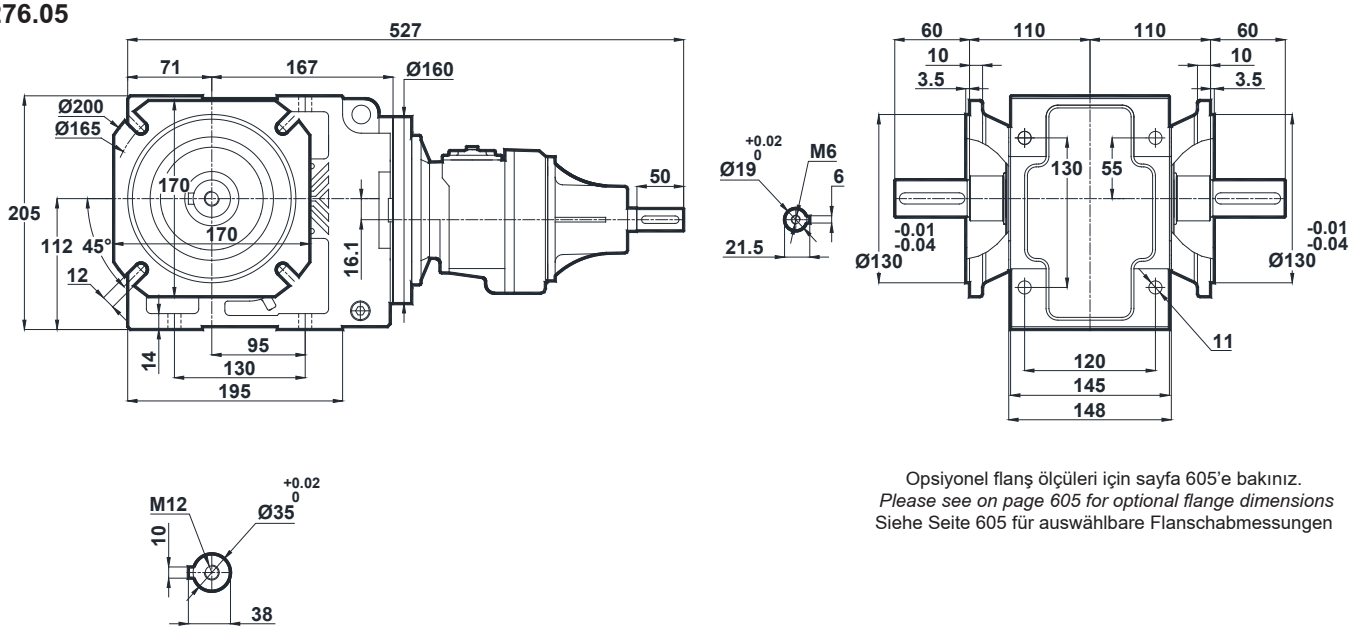
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT275.04
KT276.04



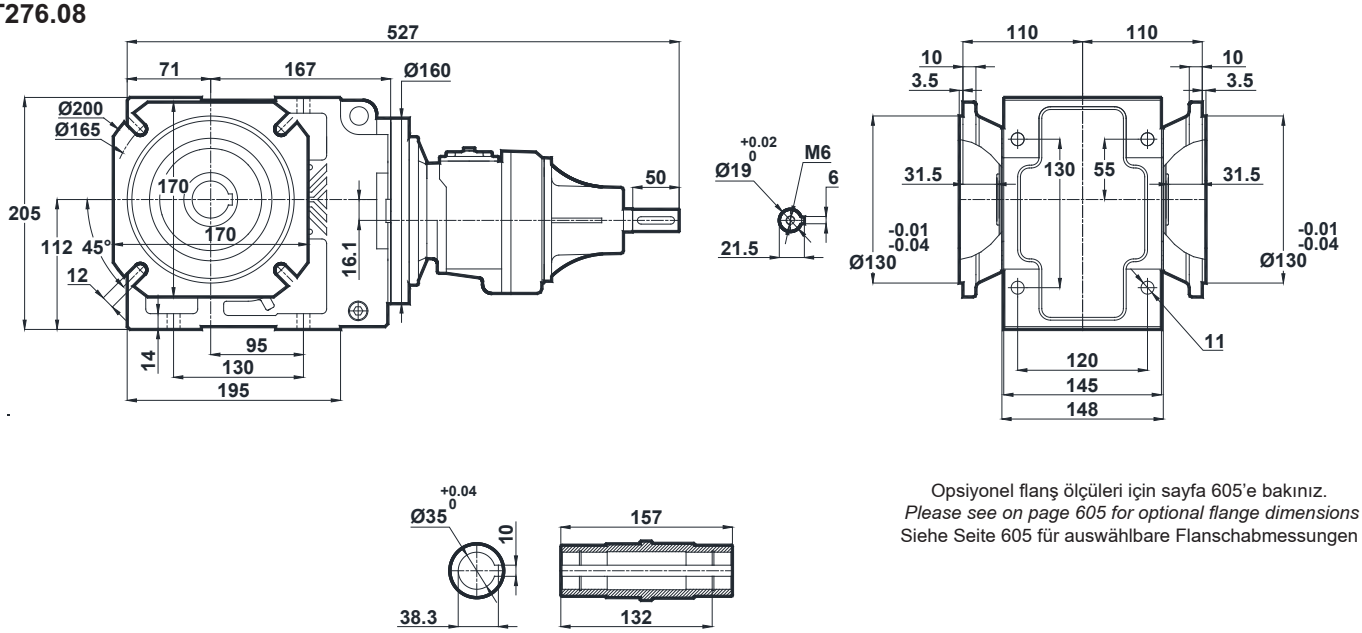
KT275.05
KT276.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

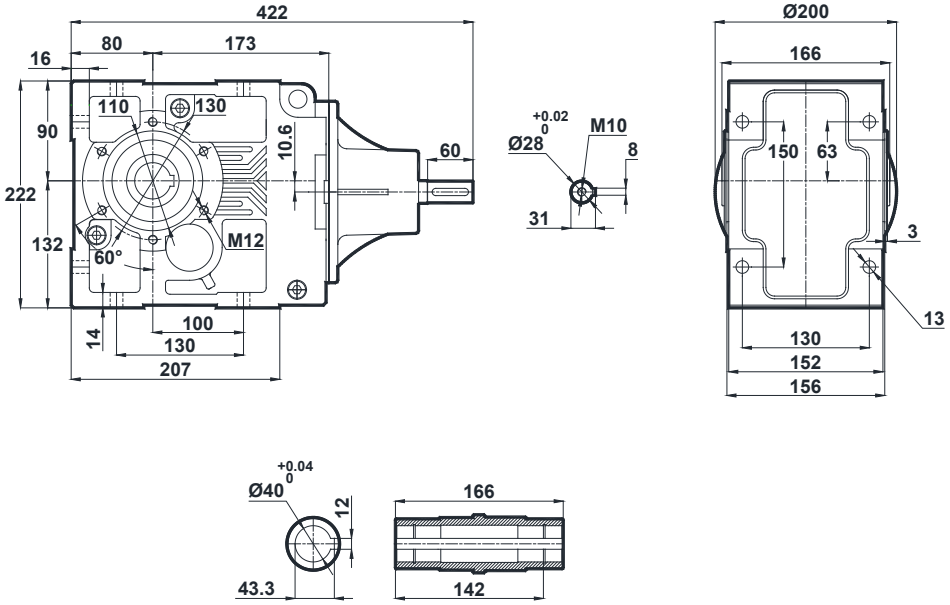
KT275.08
KT276.08



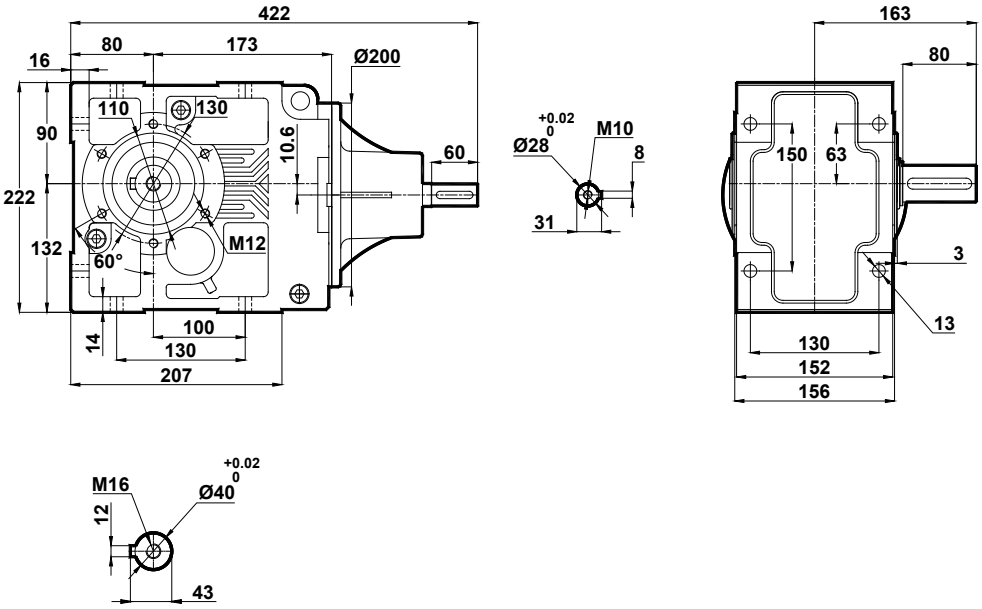
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT283.00

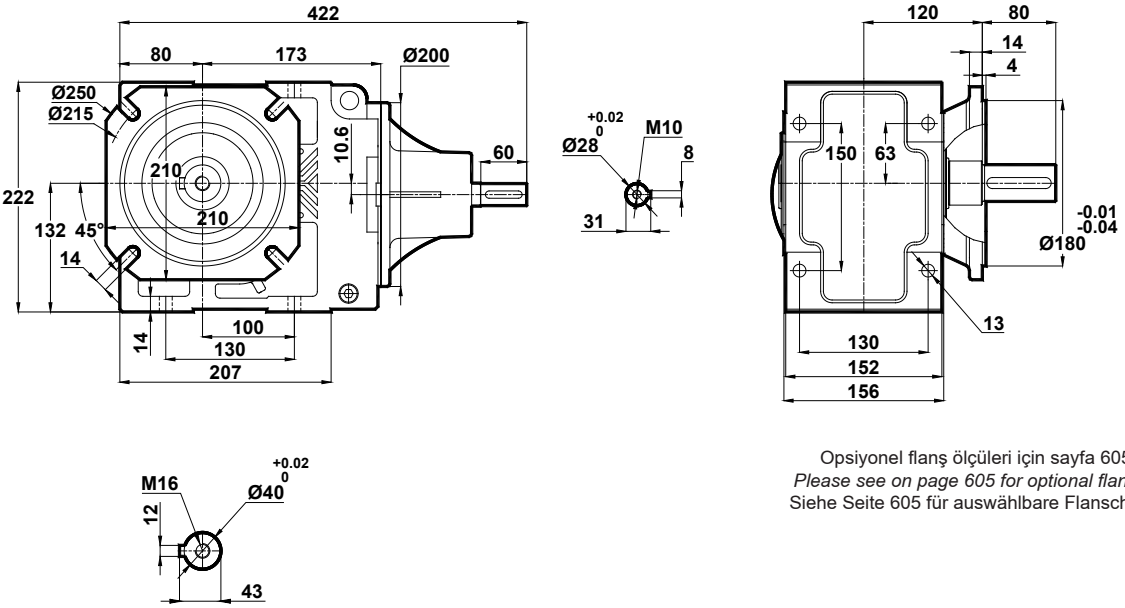


KT283.01



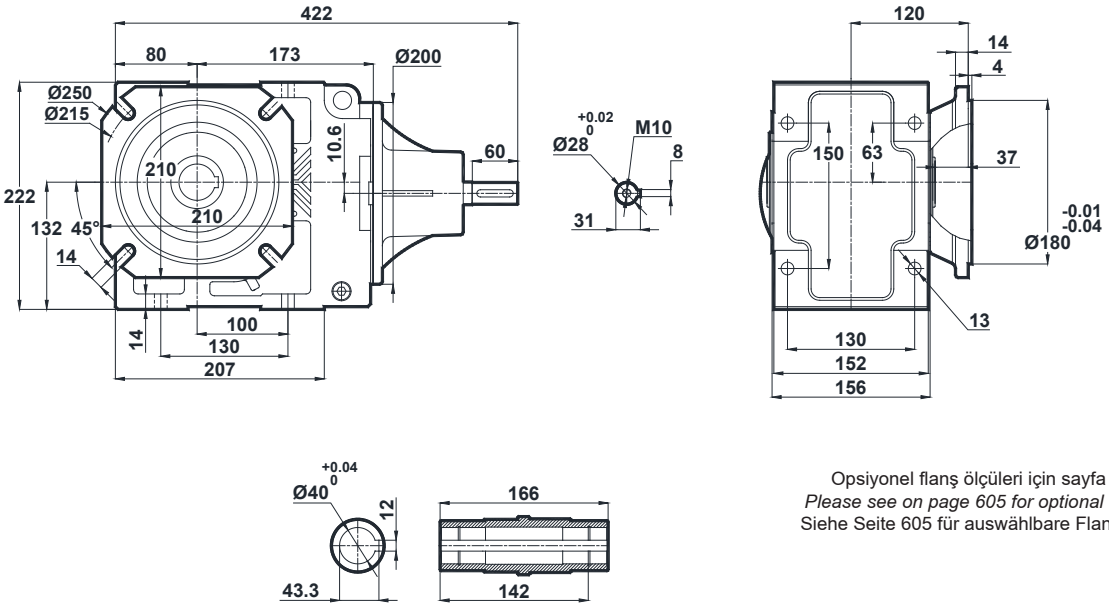
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT283.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

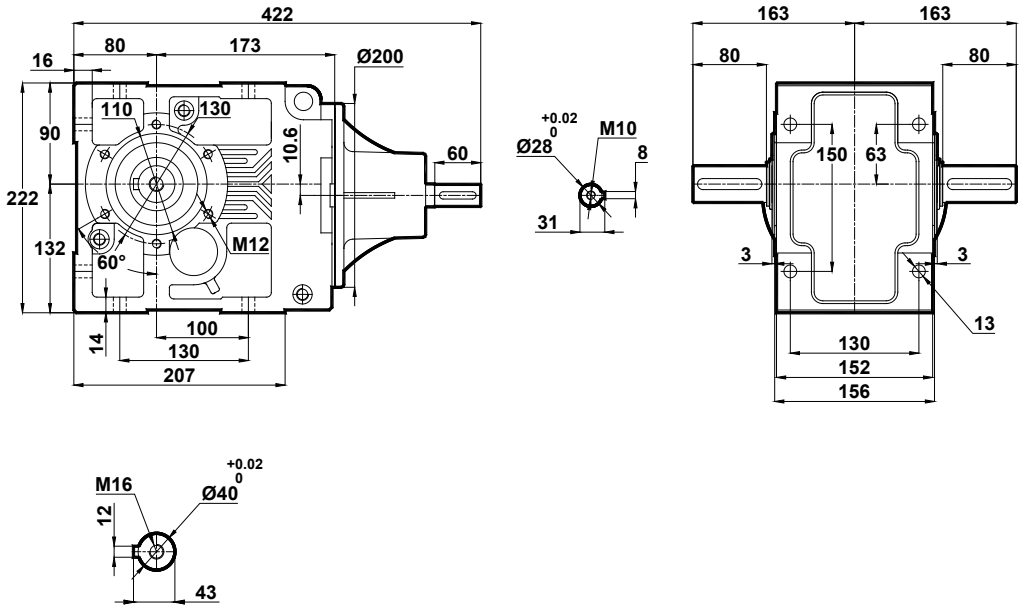
KT283.03



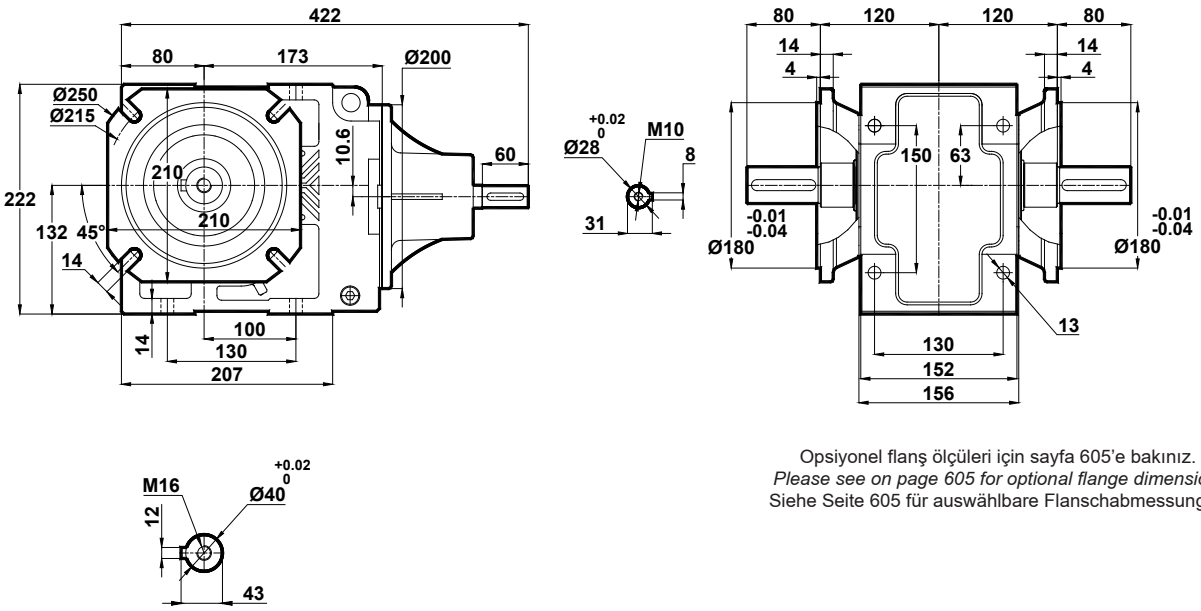
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT283.04



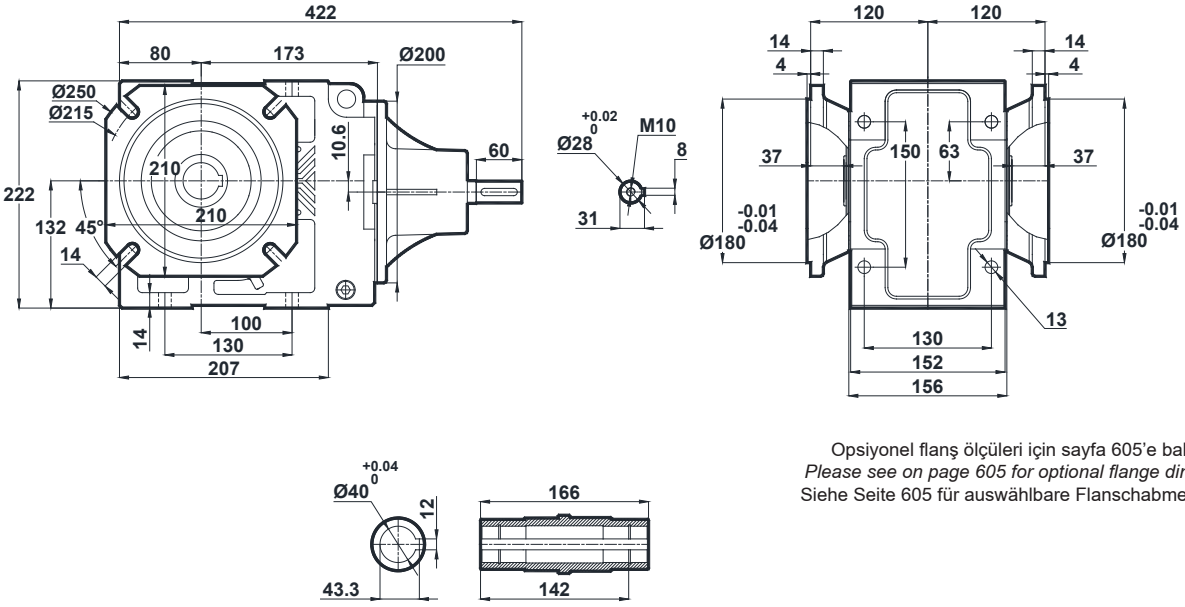
KT283.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

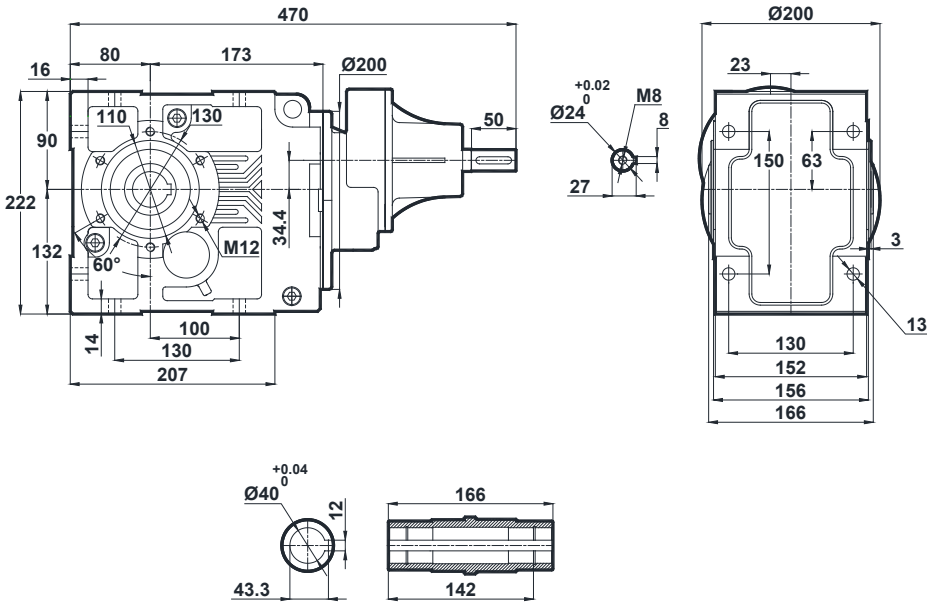
KT283.08



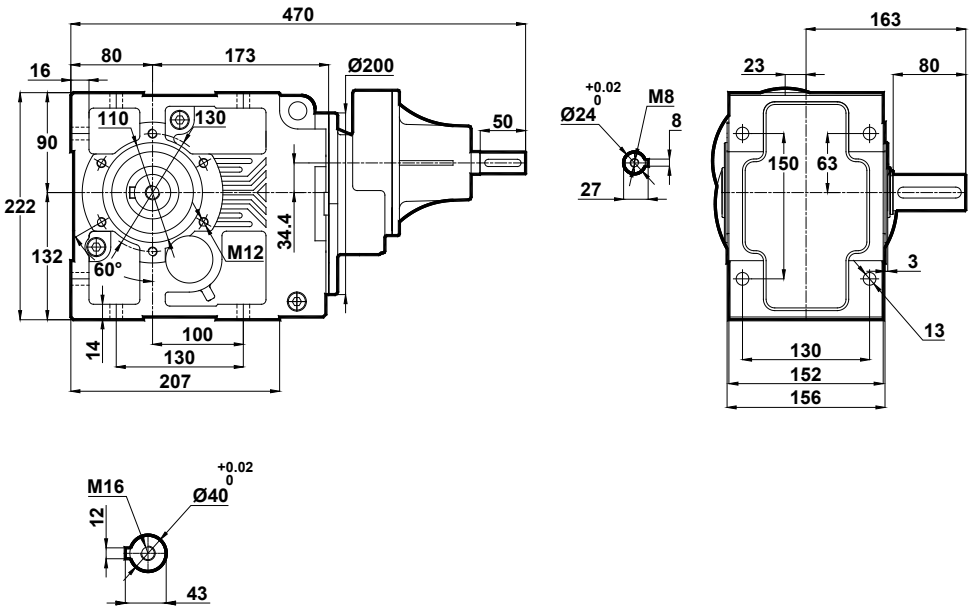
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT284.00

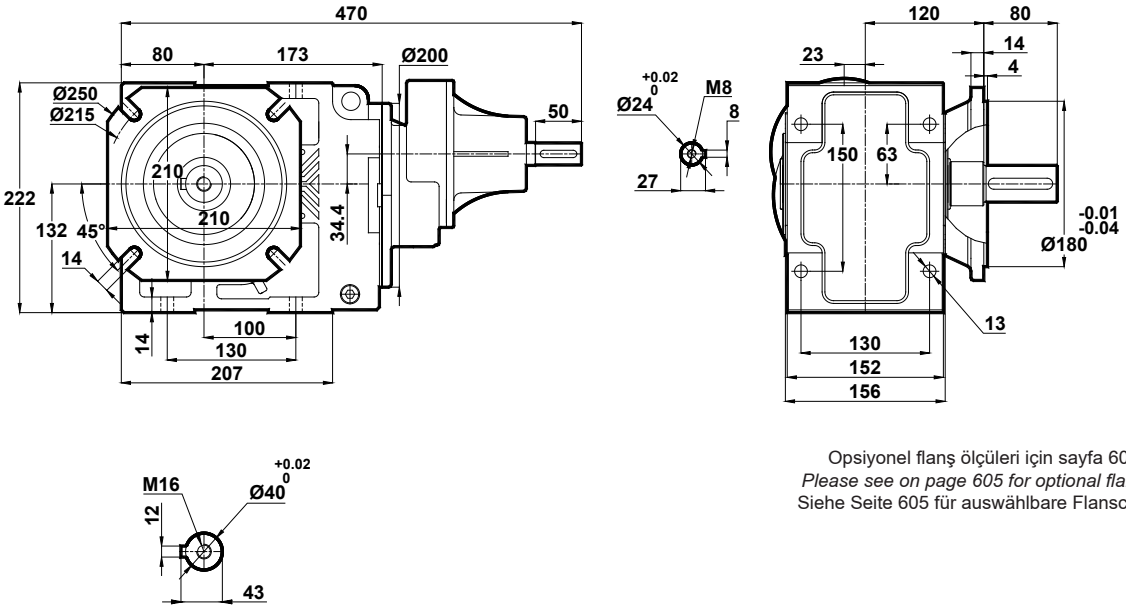


KT284.01



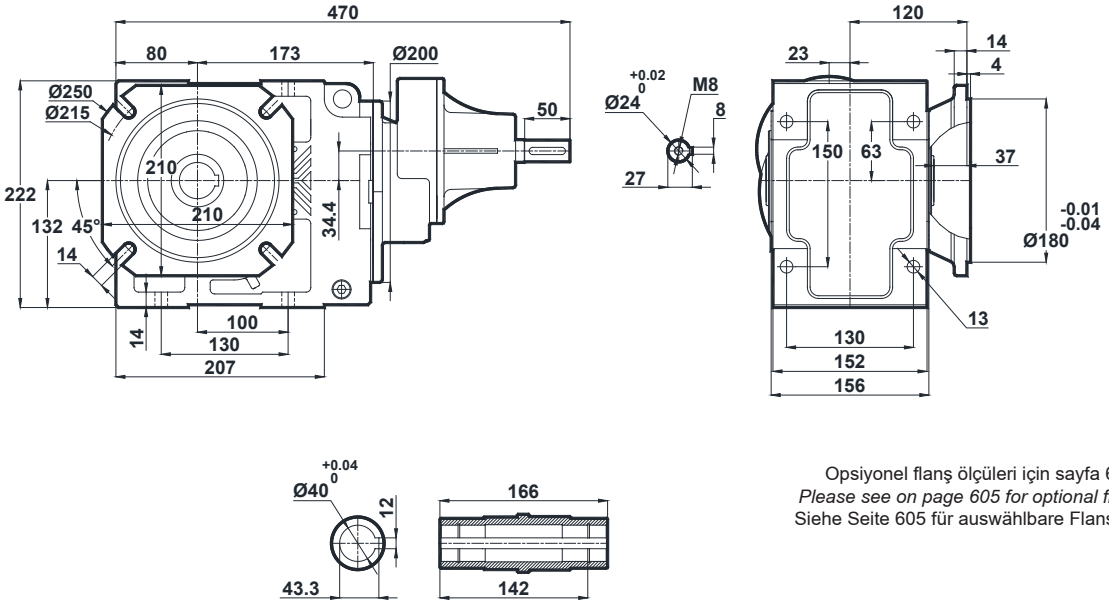
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT284.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

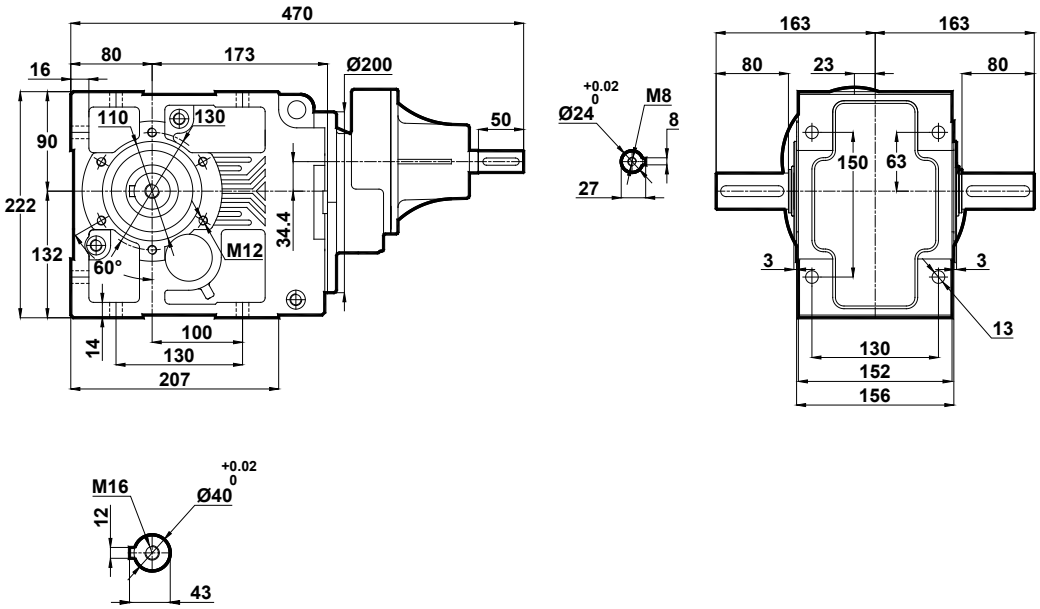
KT284.03



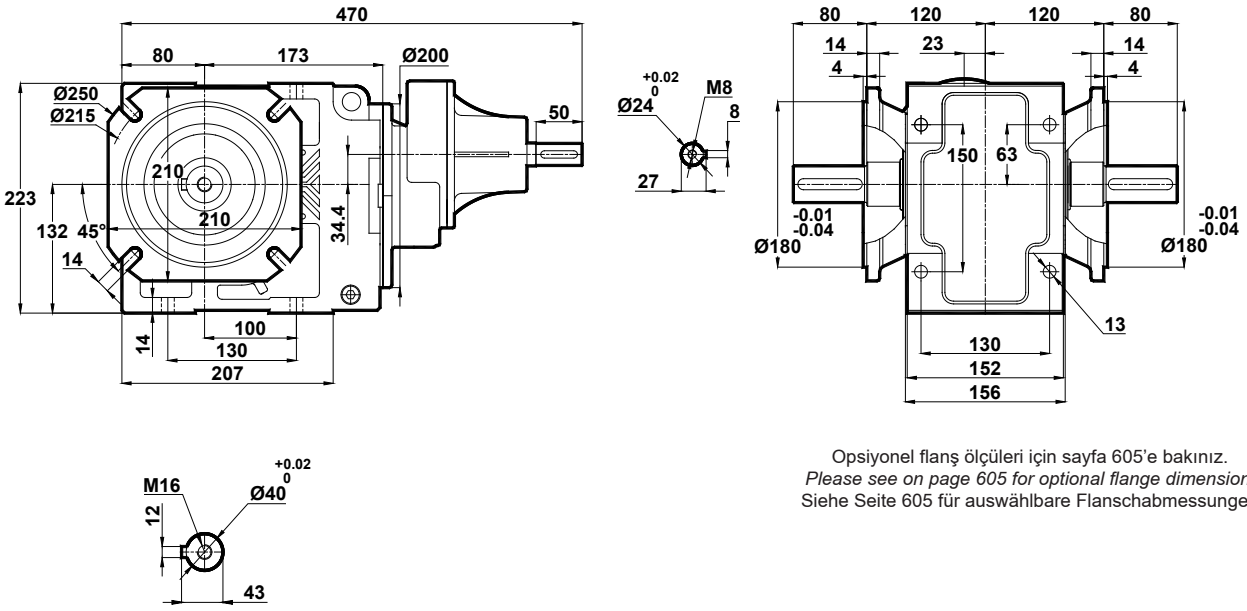
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT284.04



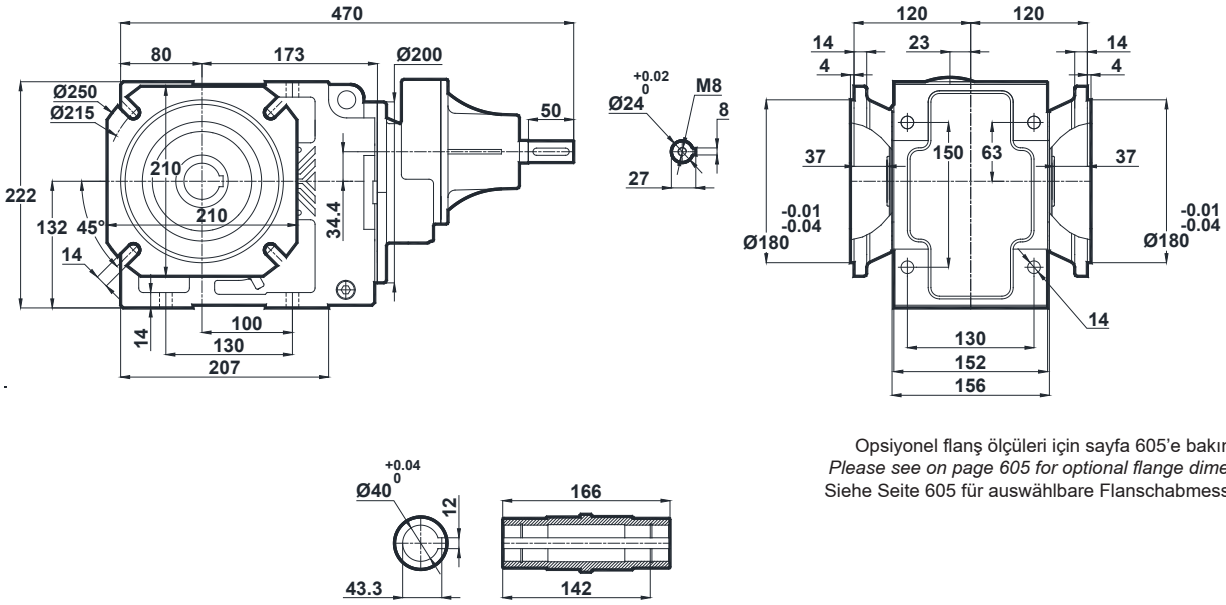
KT284.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

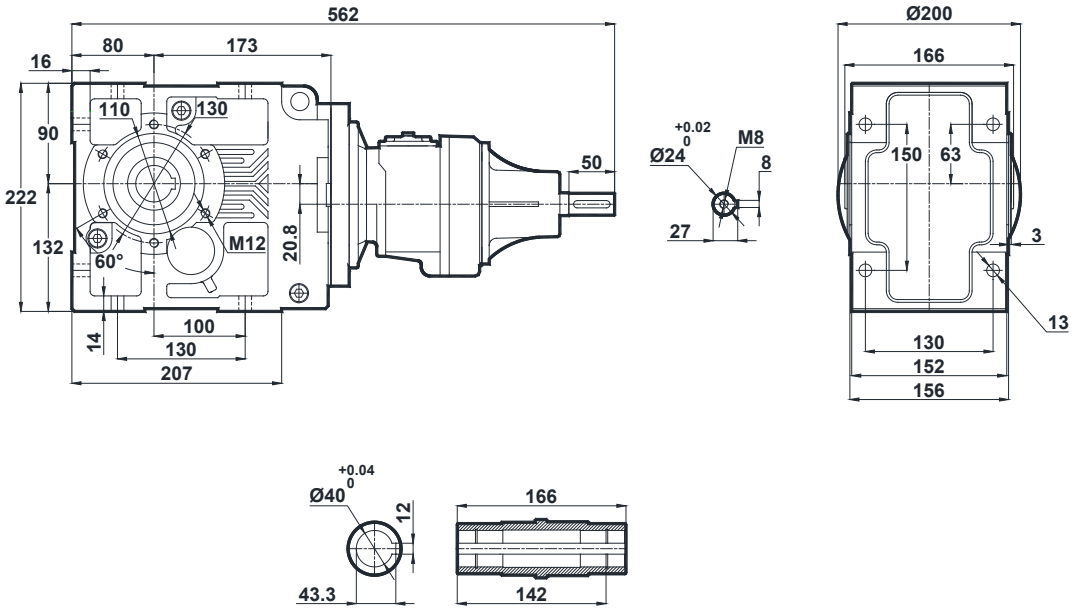
KT284.08



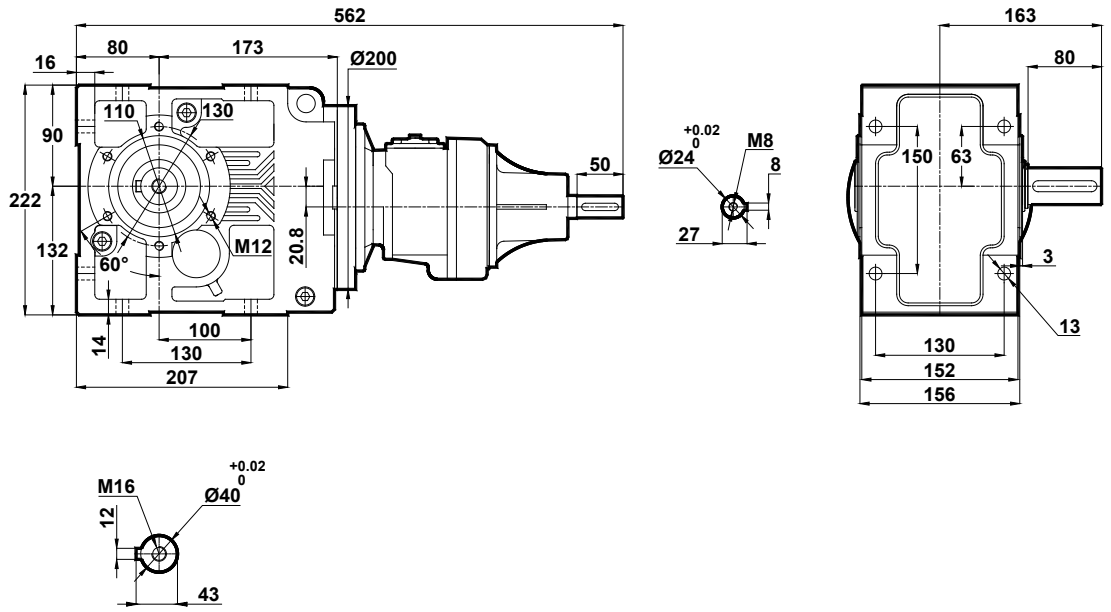
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT285.00
KT286.00

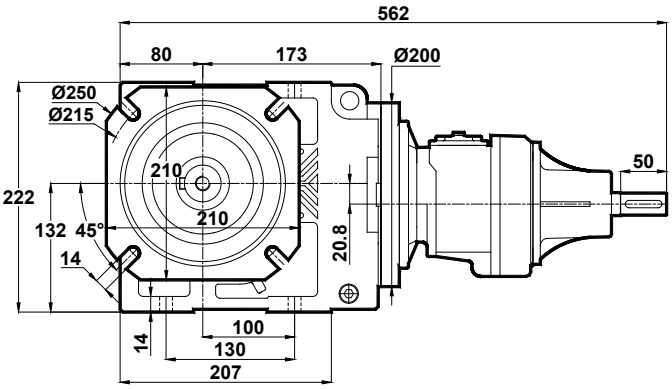


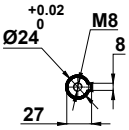
KT285.01
KT286.01

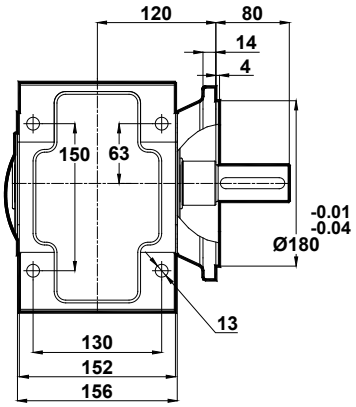


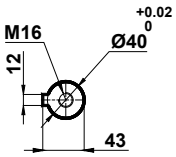
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT285.02
KT286.02



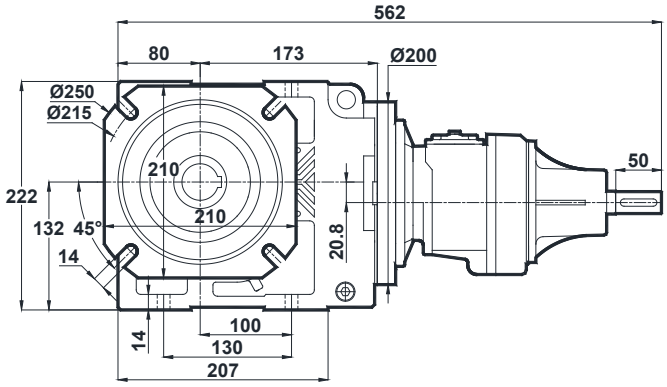


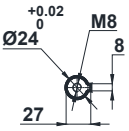


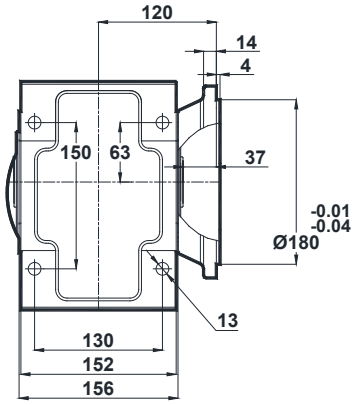


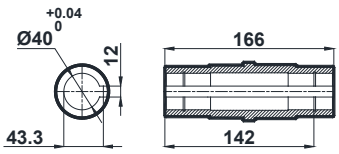
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KT285.03
KT286.03





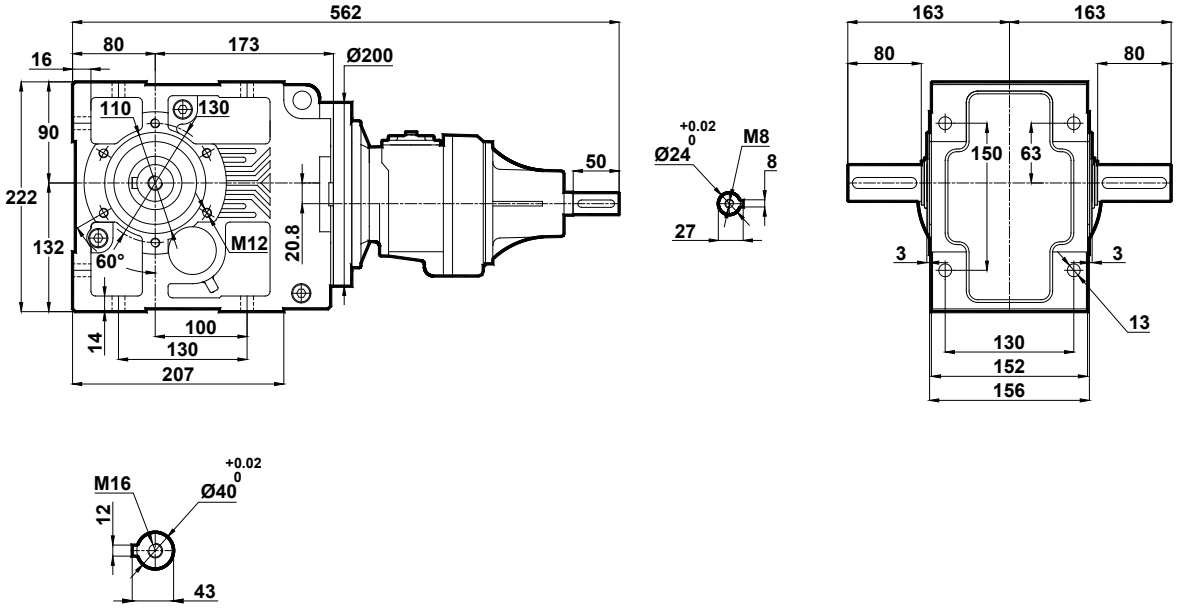




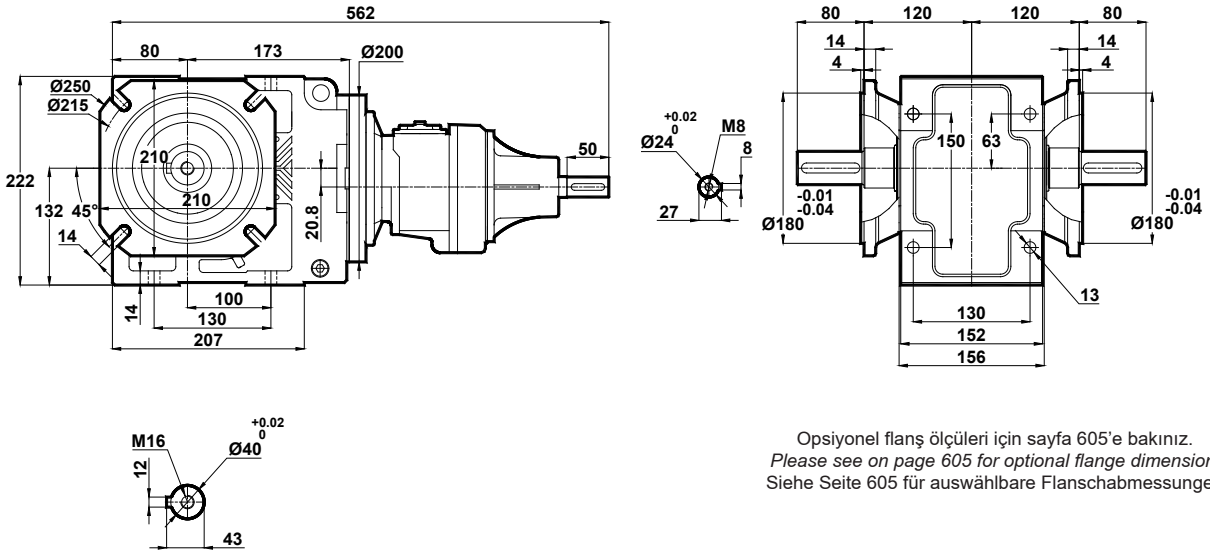
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT285.04
KT286.04



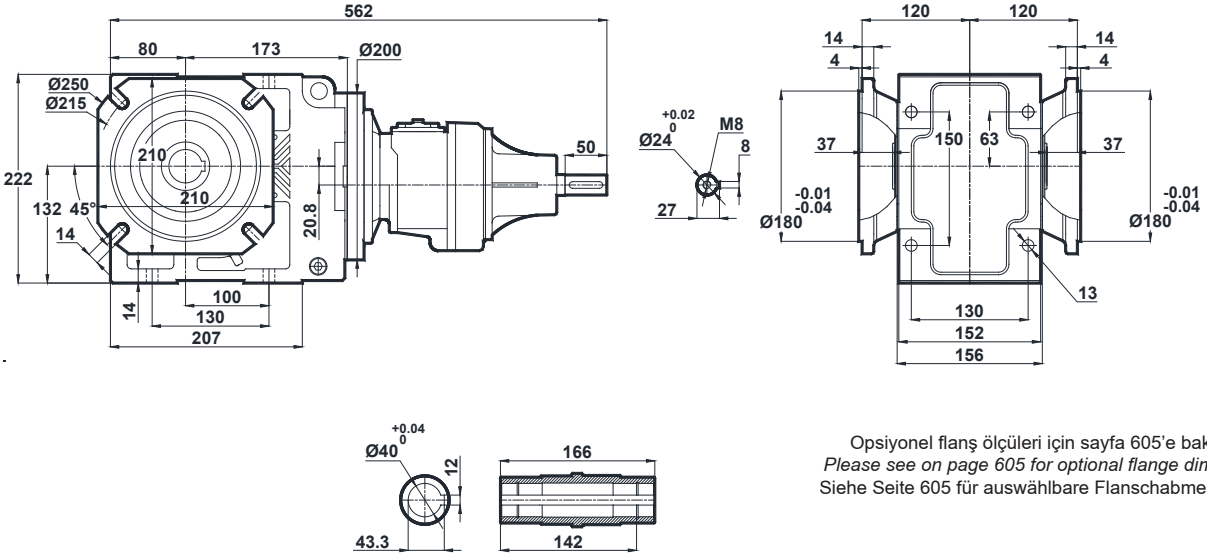
KT285.05
KT286.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

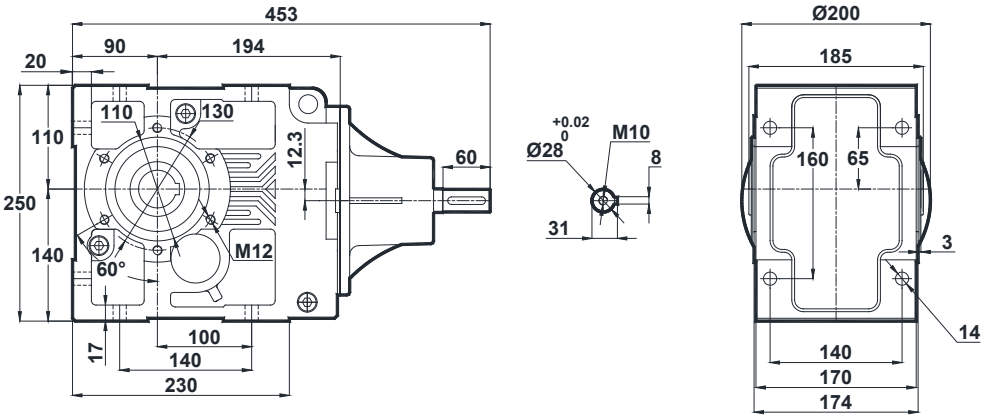
KT285.08
KT286.08

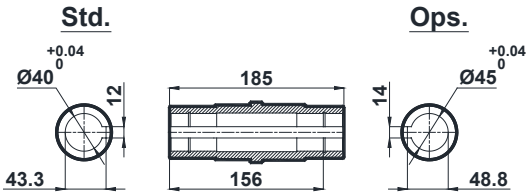


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

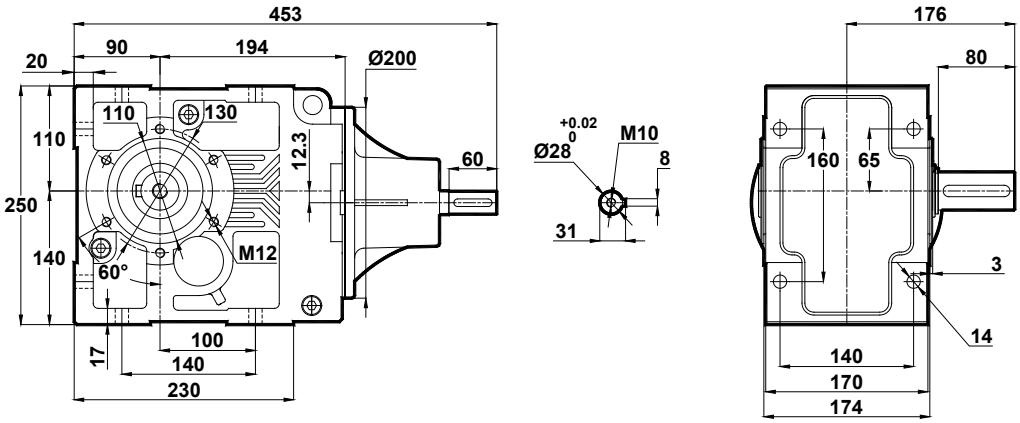
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

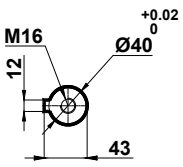
KT373.00





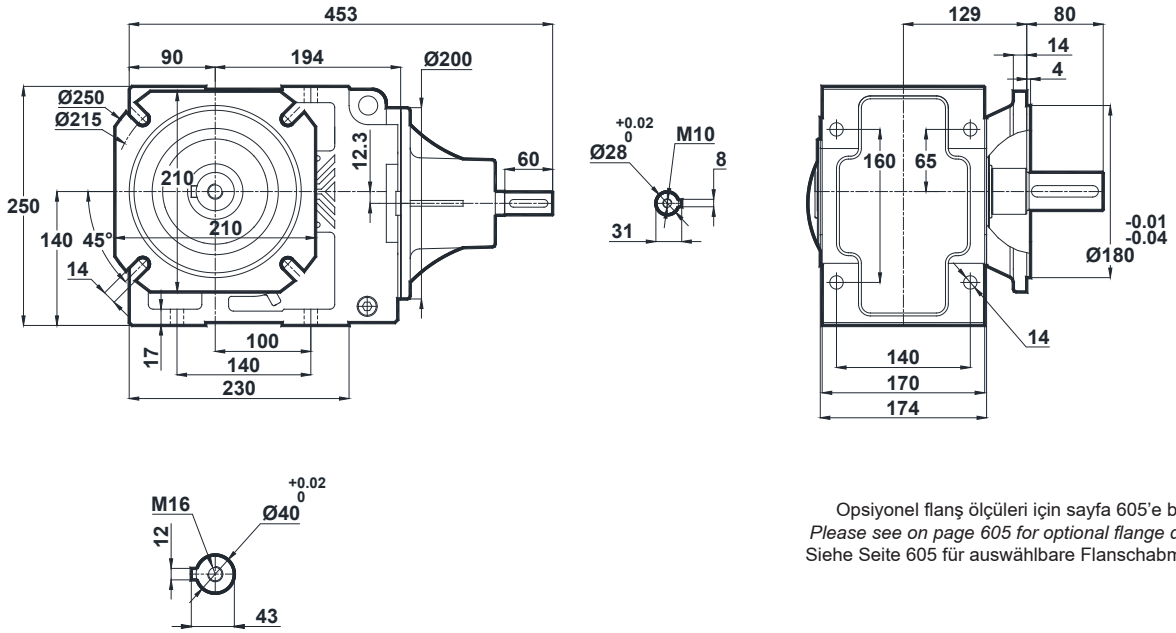
KT373.01





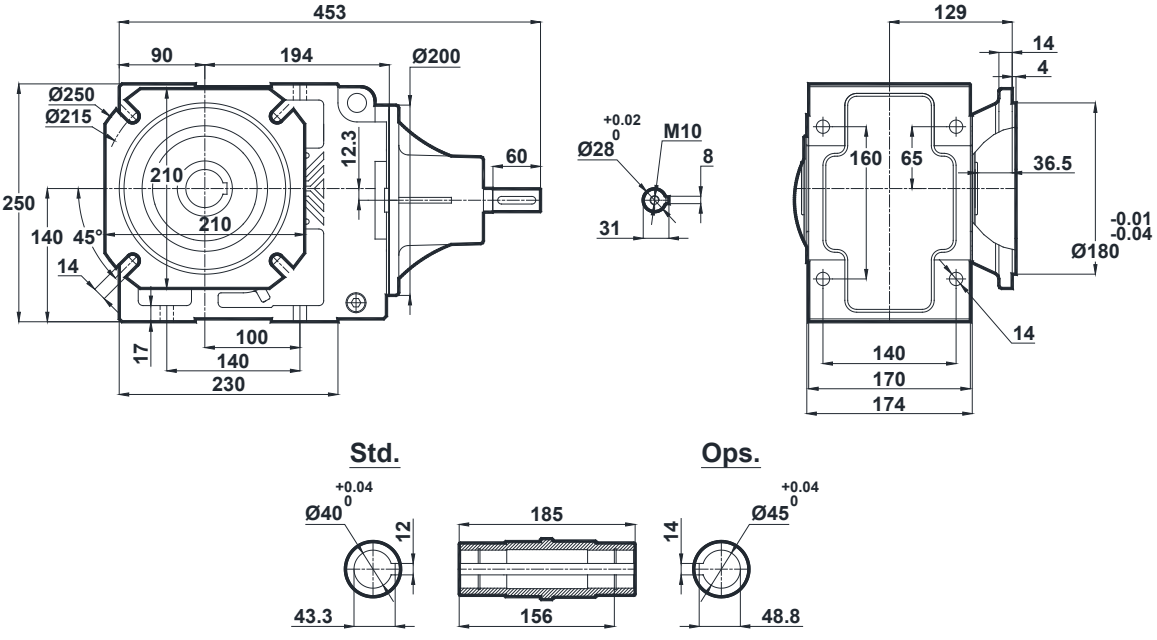
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT373.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

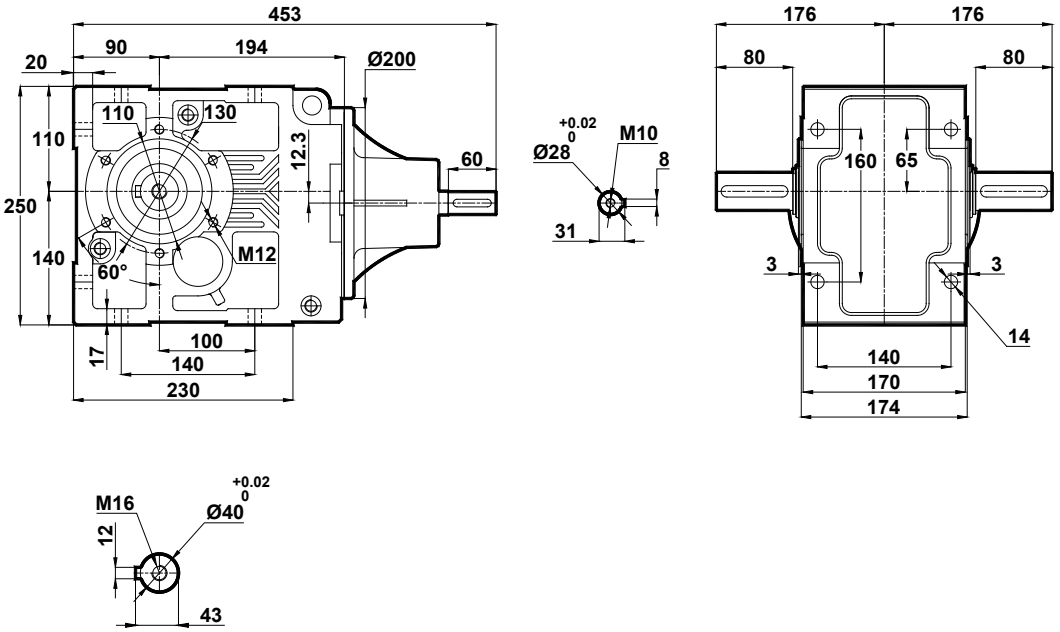
KT373.03



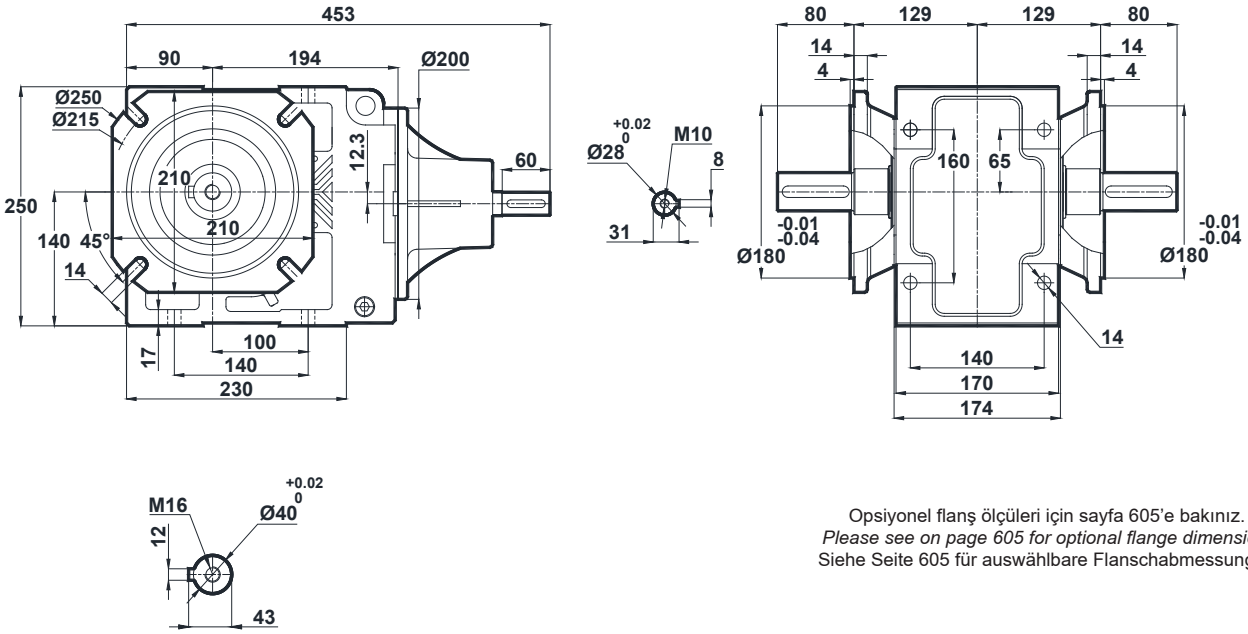
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT373.04



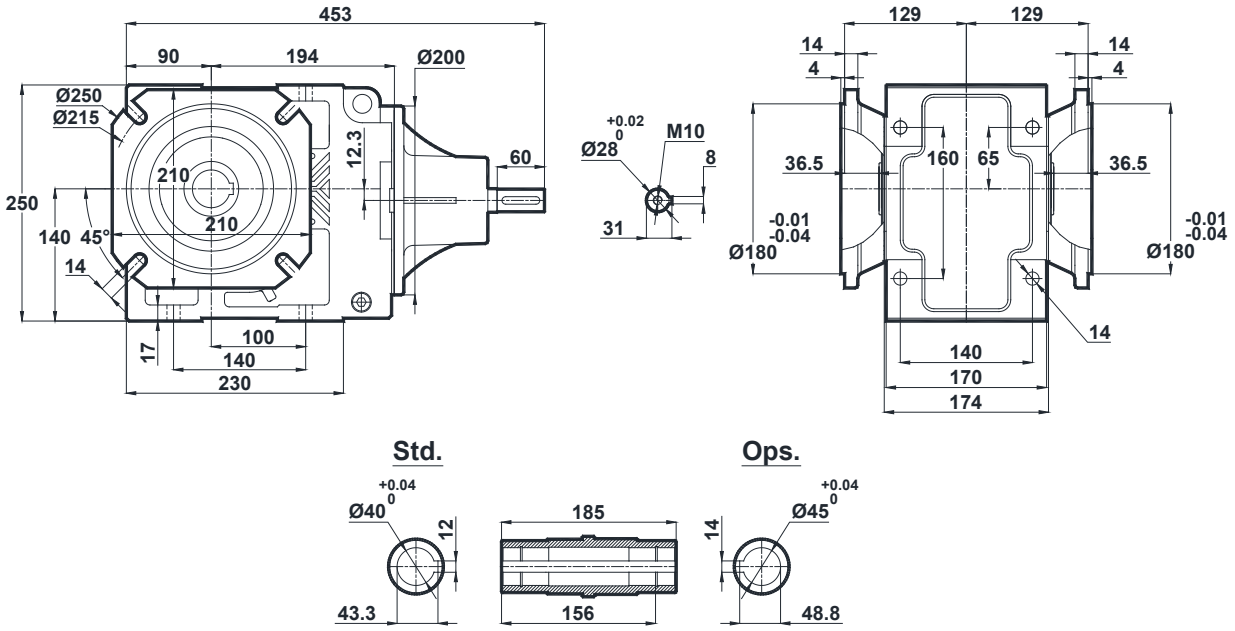
KT373.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT373.08

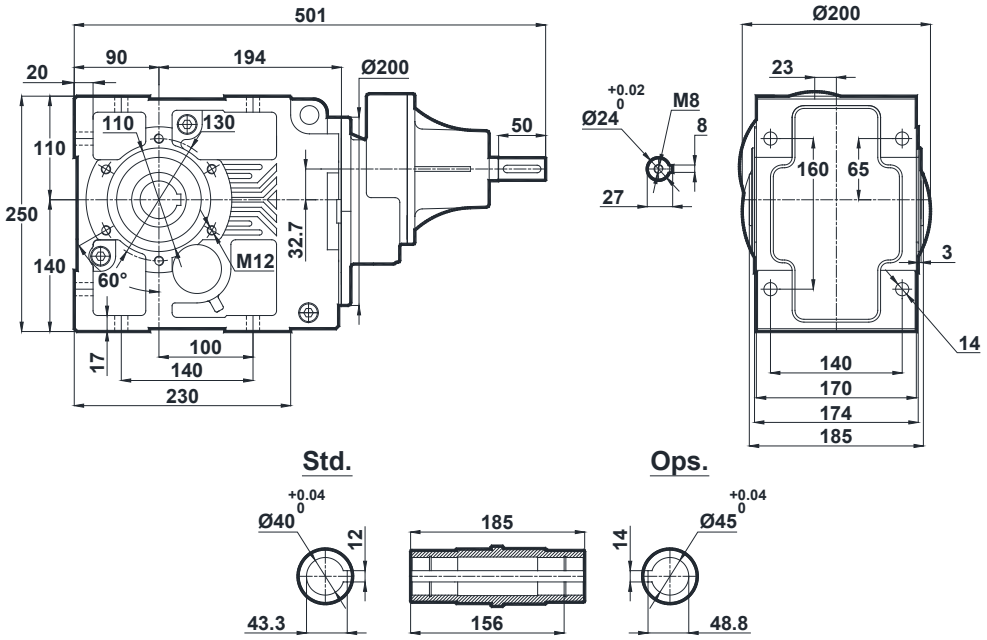


Std. **Ops.**

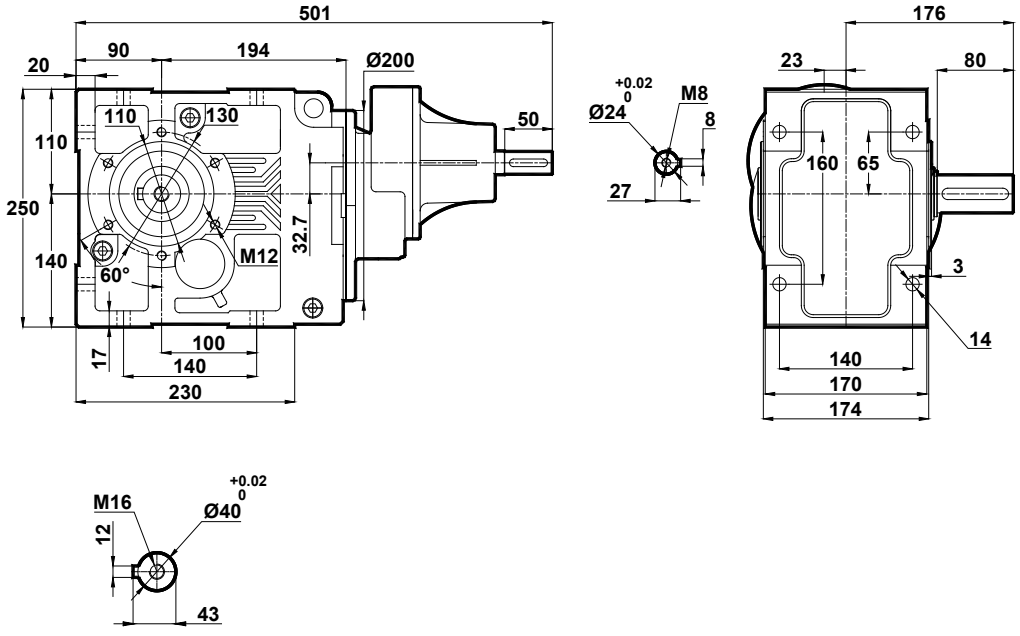
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT374.00

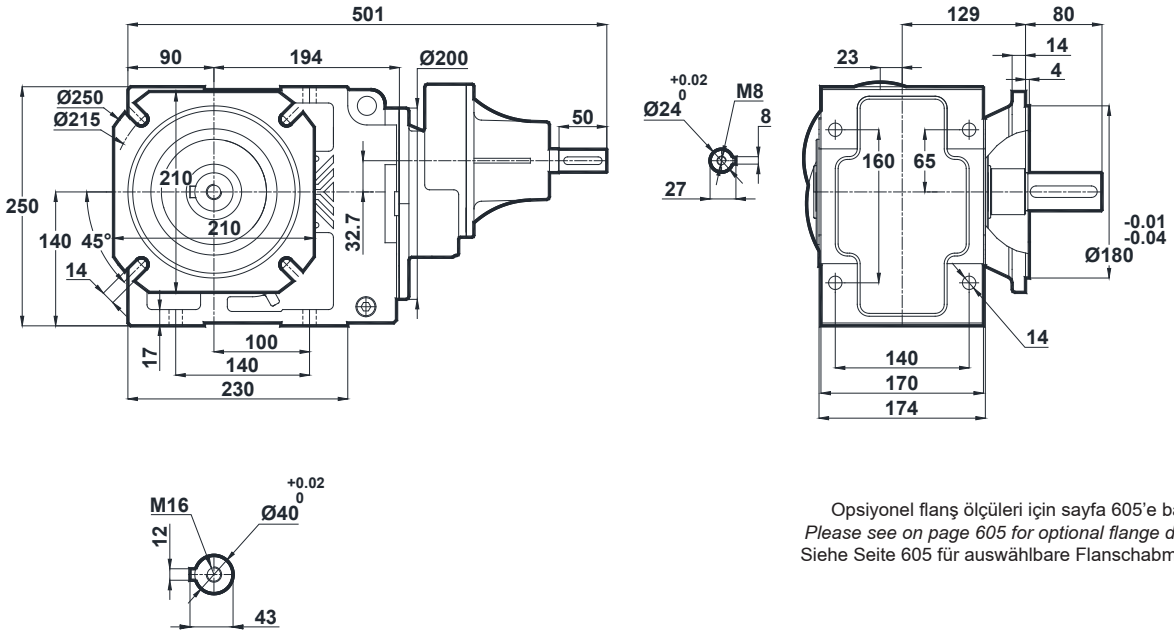


KT374.01



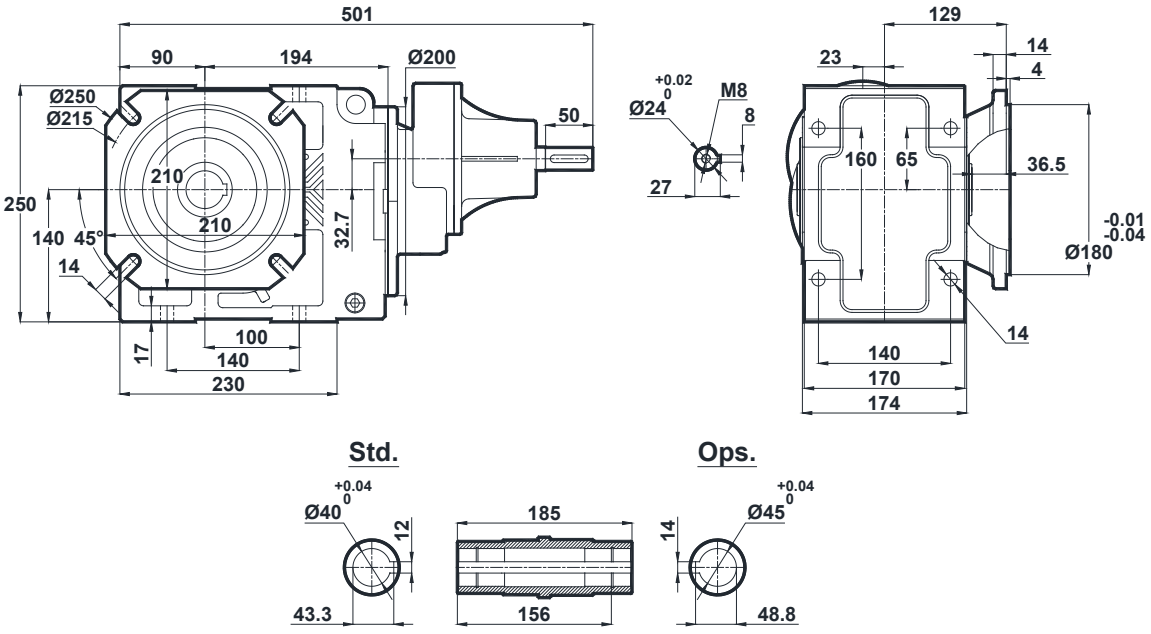
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT374.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

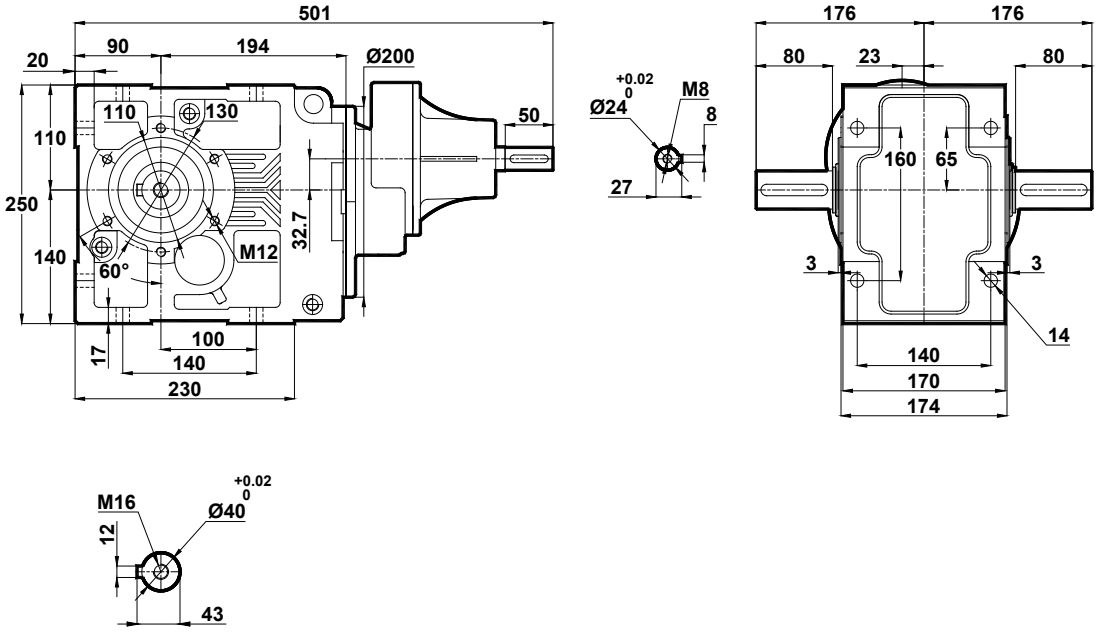
KT374.03



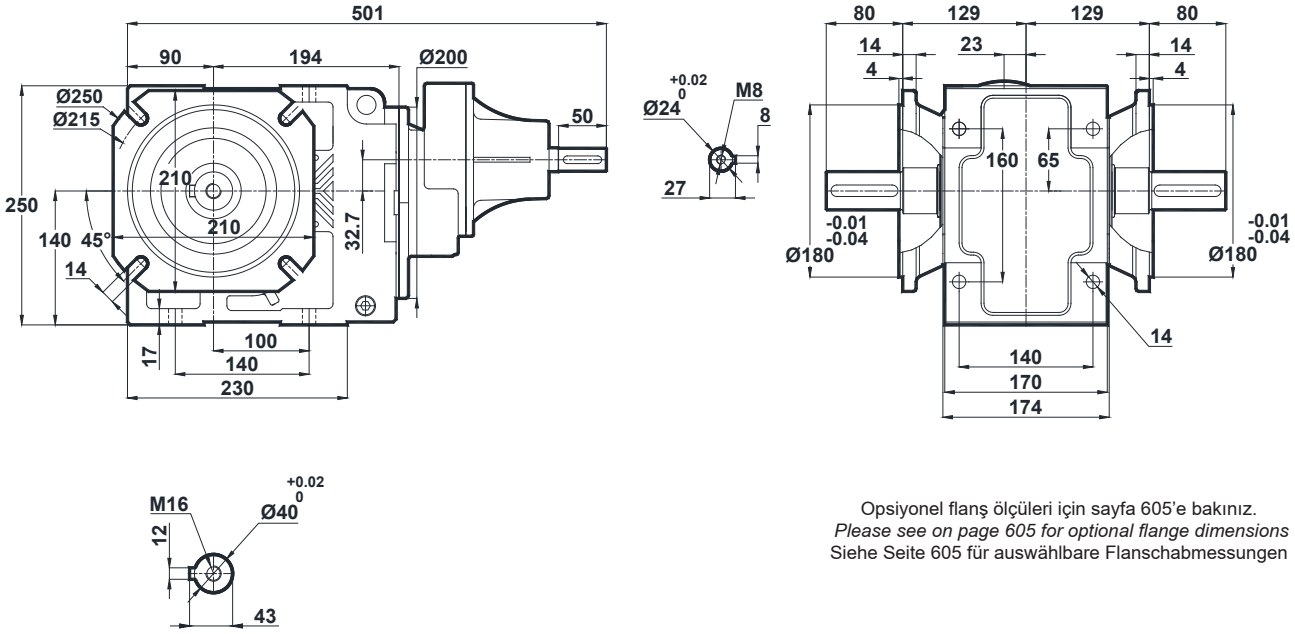
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT374.04



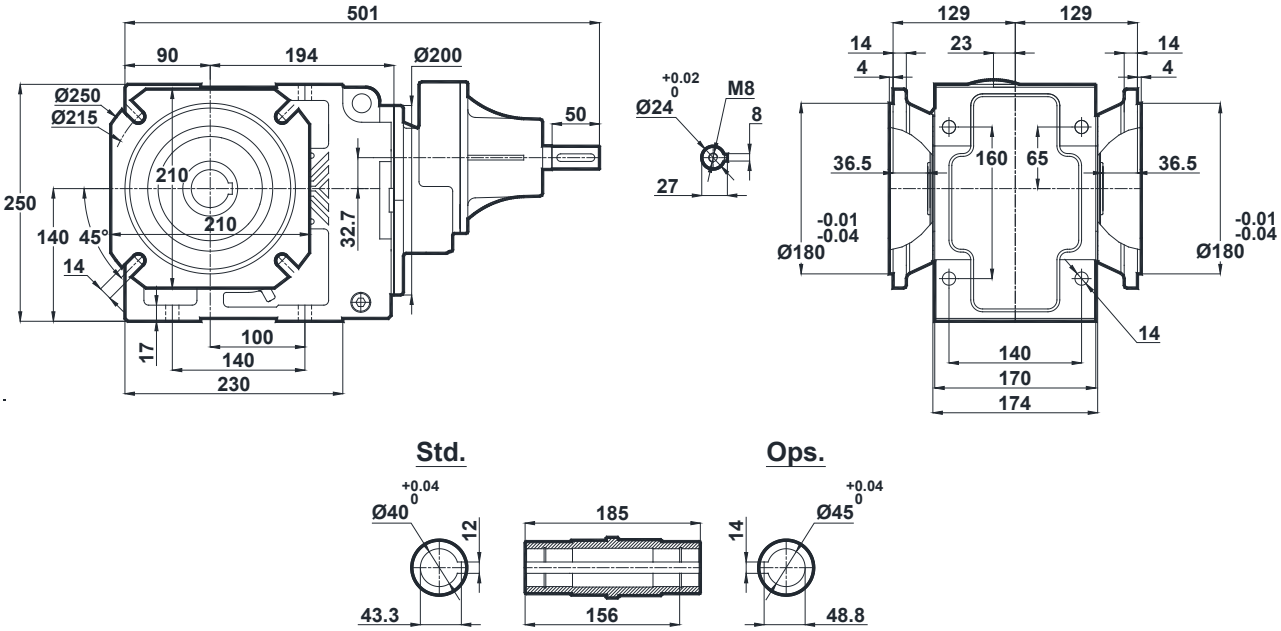
KT374.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

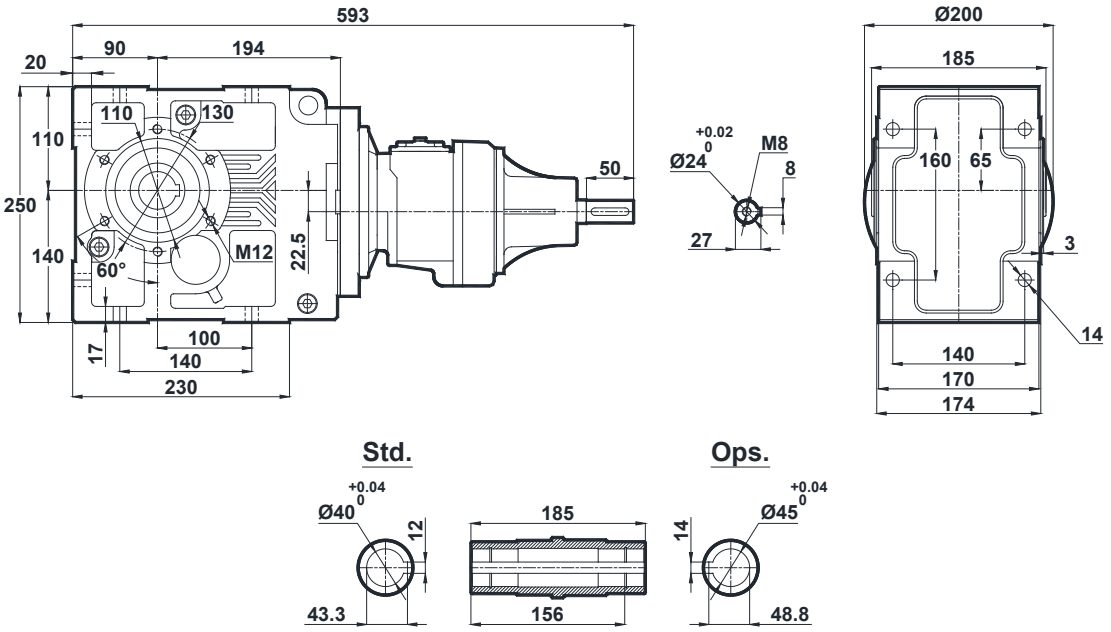
KT374.08



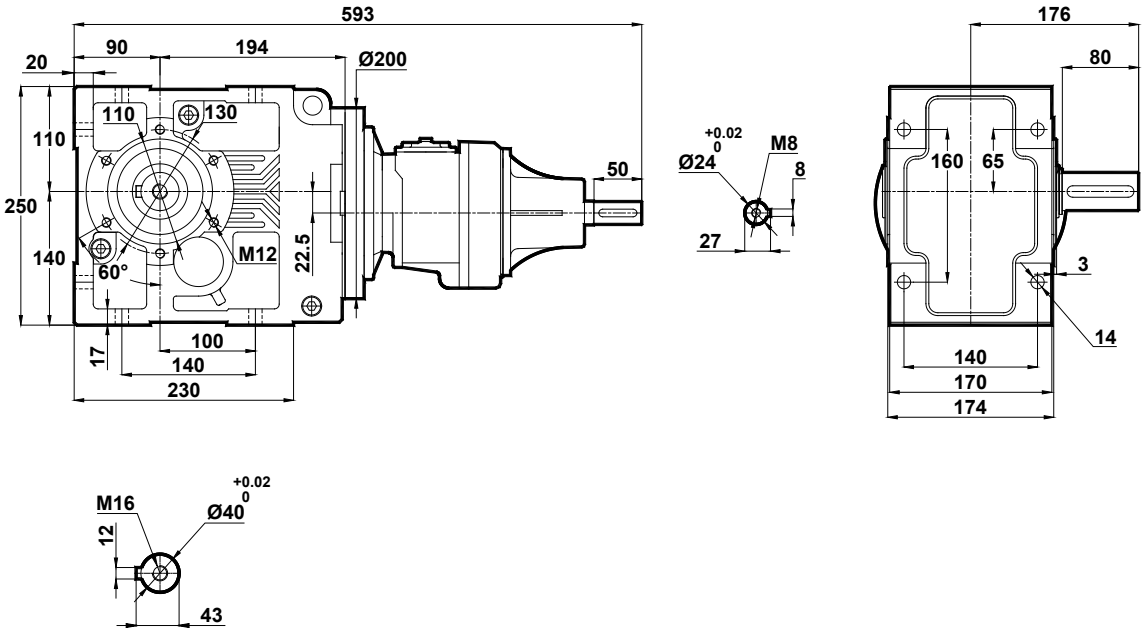
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT375.00
KT376.00

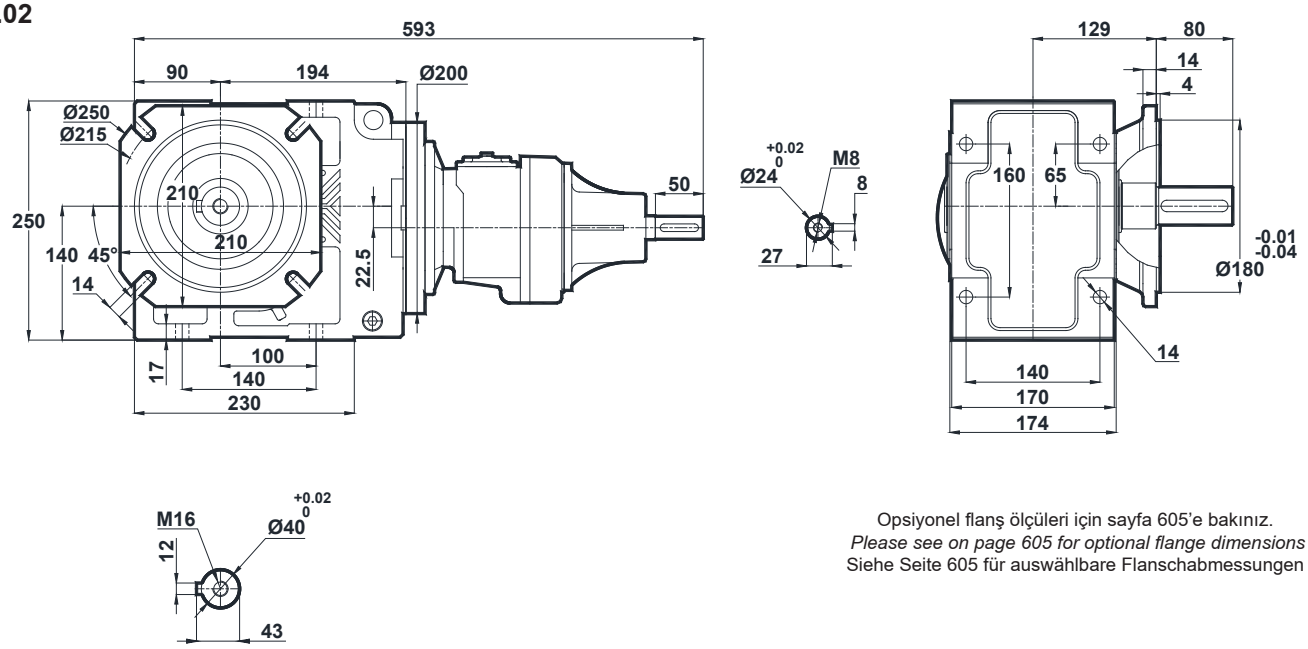


KT375.01
KT376.01



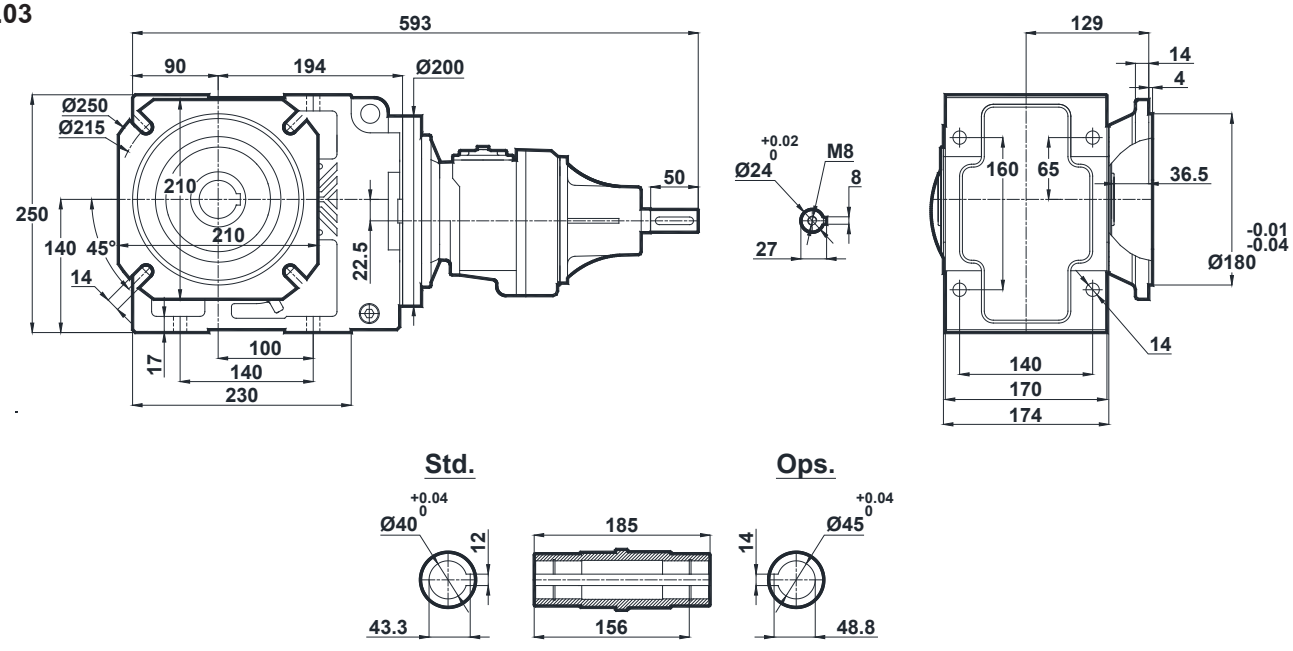
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT375.02
KT376.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KT375.03
KT376.03



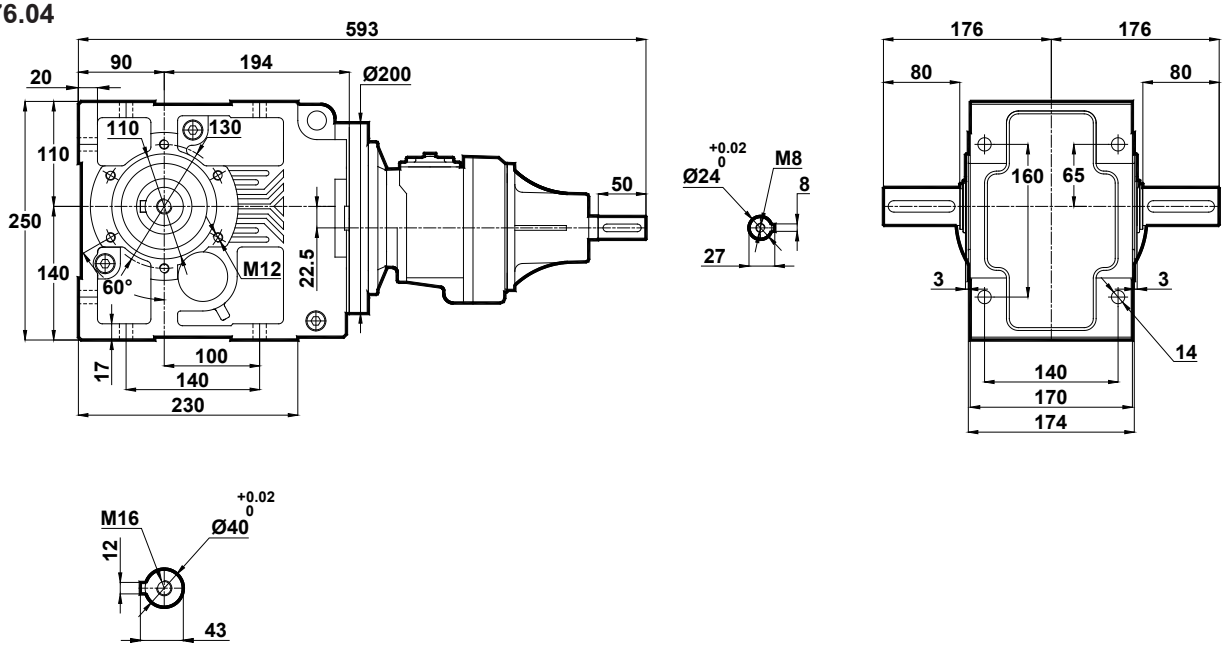
Std.

Ops.

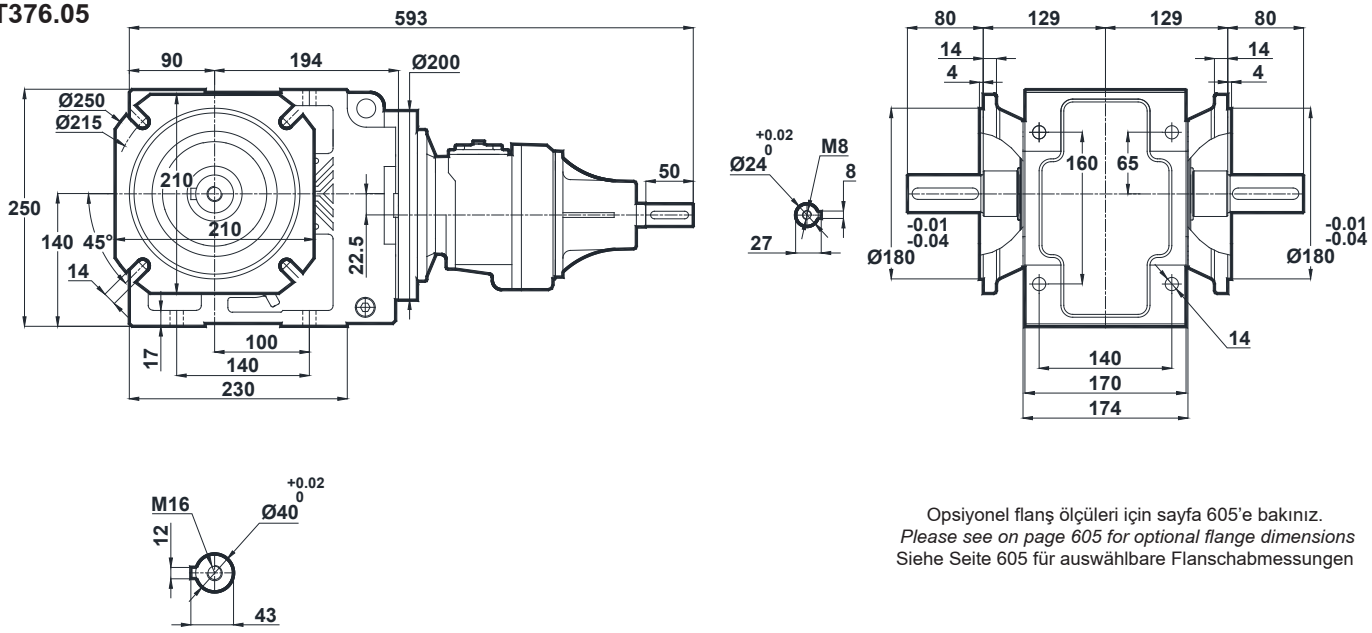
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT375.04
KT376.04



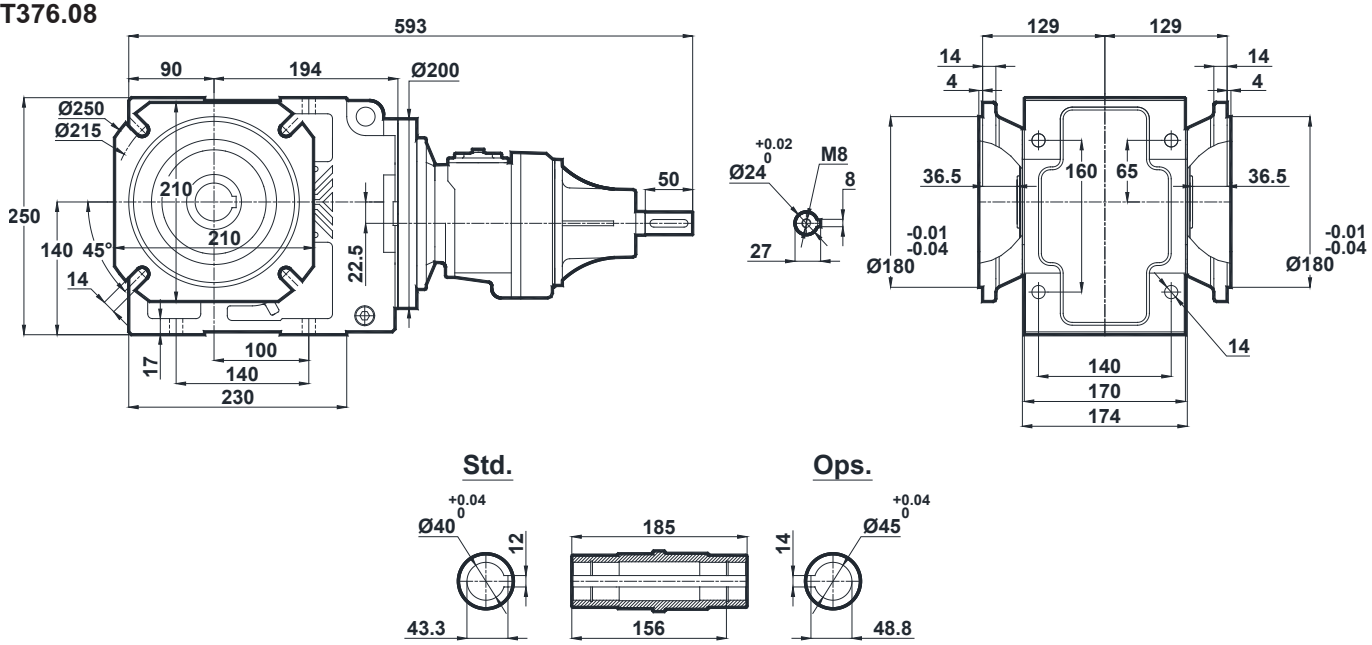
KT375.05
KT376.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

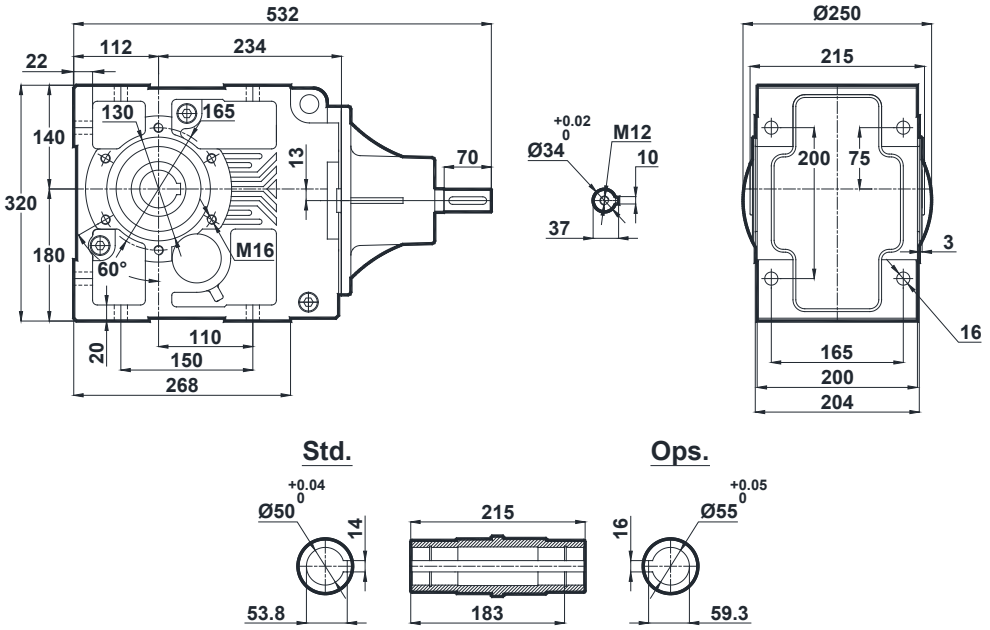
KT375.08
KT376.08



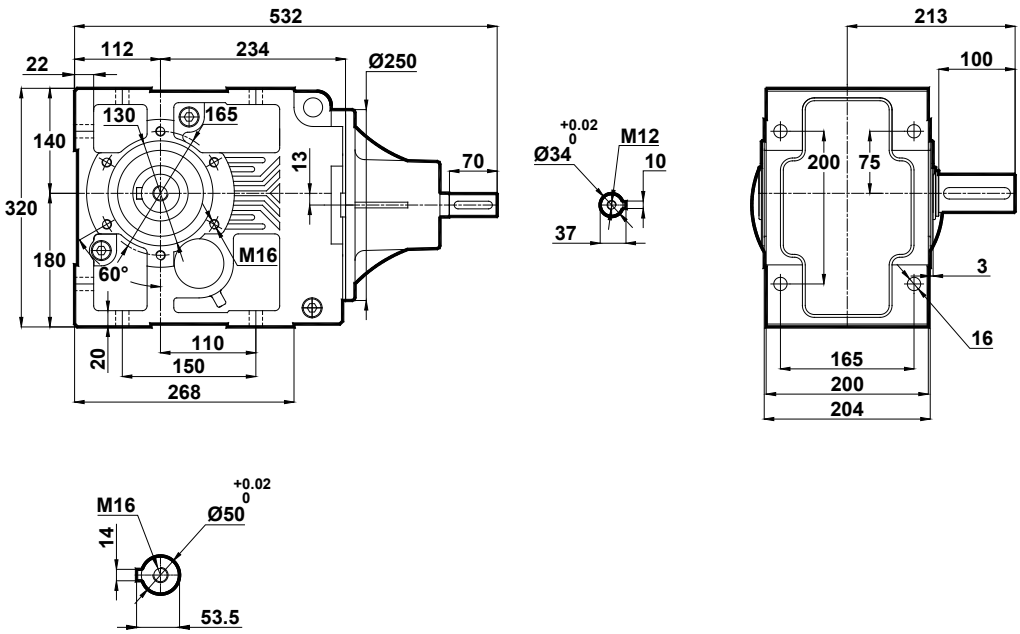
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT473.00

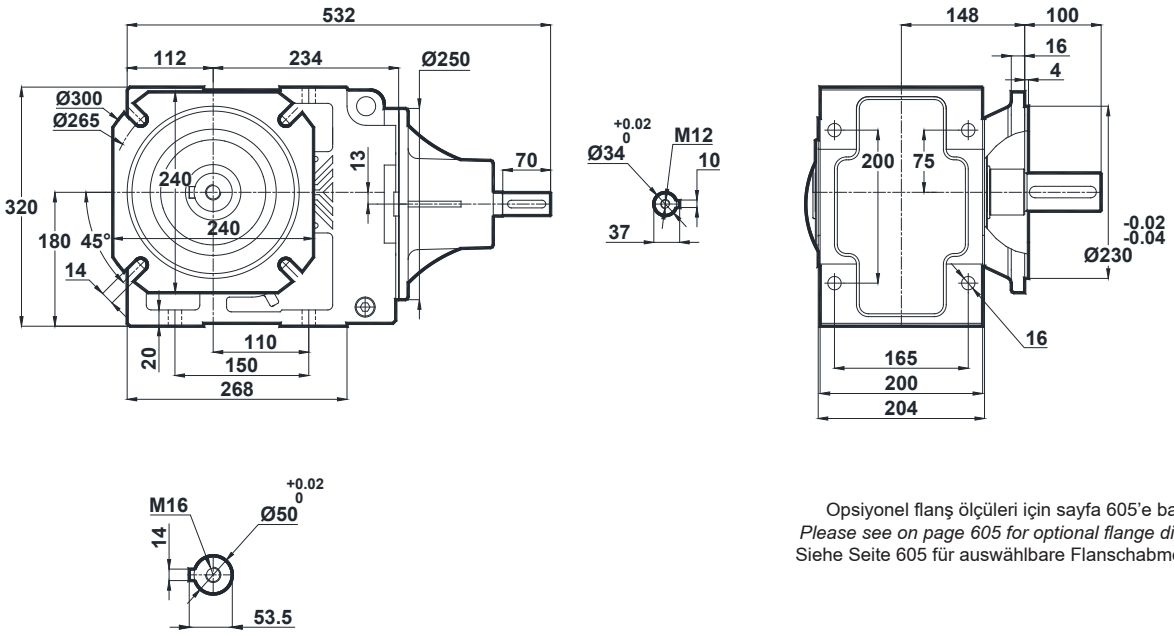


KT473.01



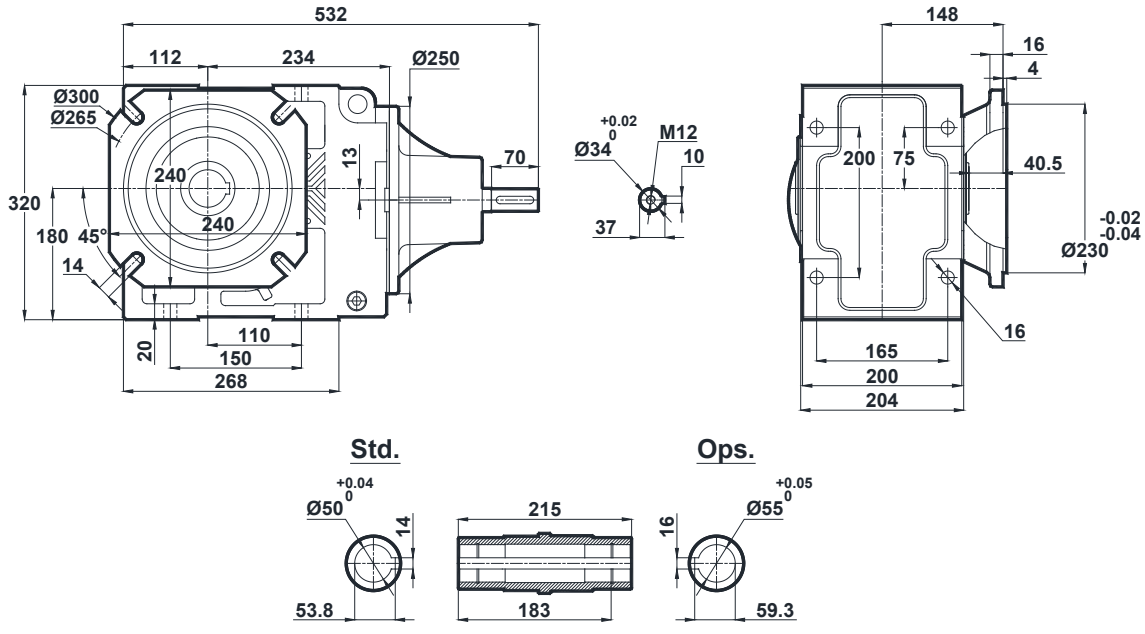
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT473.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

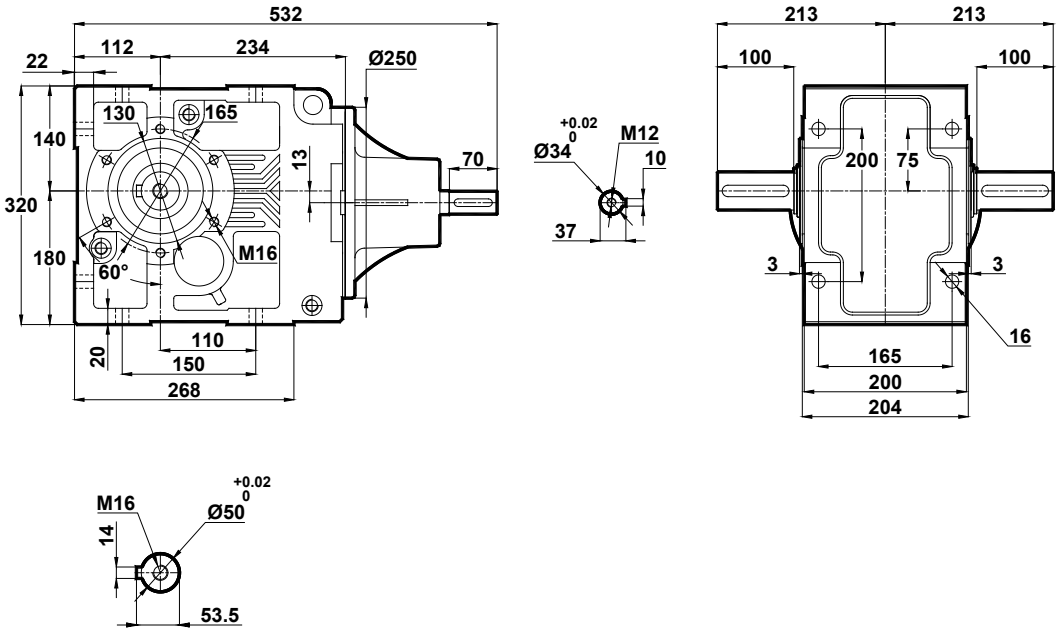
KT473.03



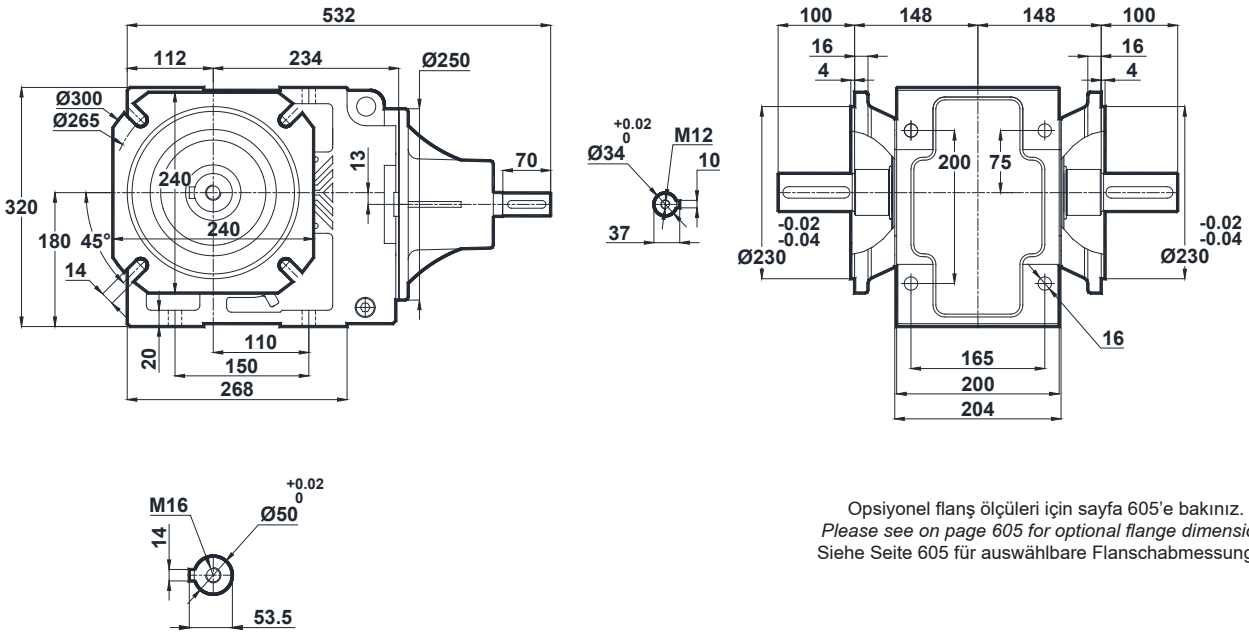
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT473.04



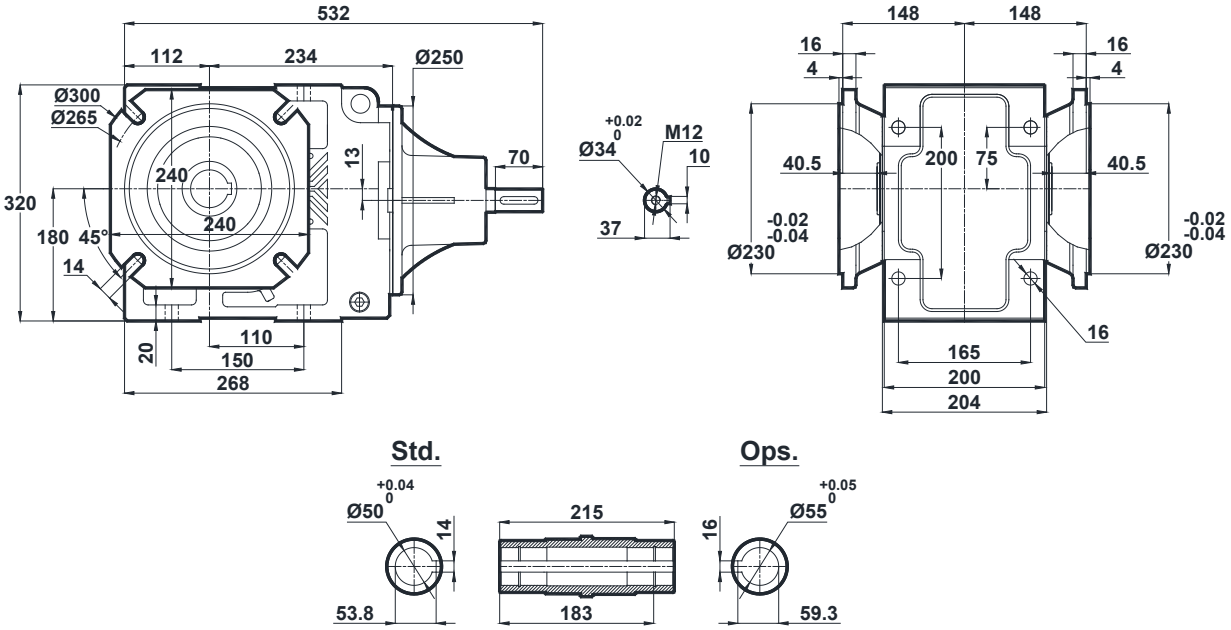
KT473.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

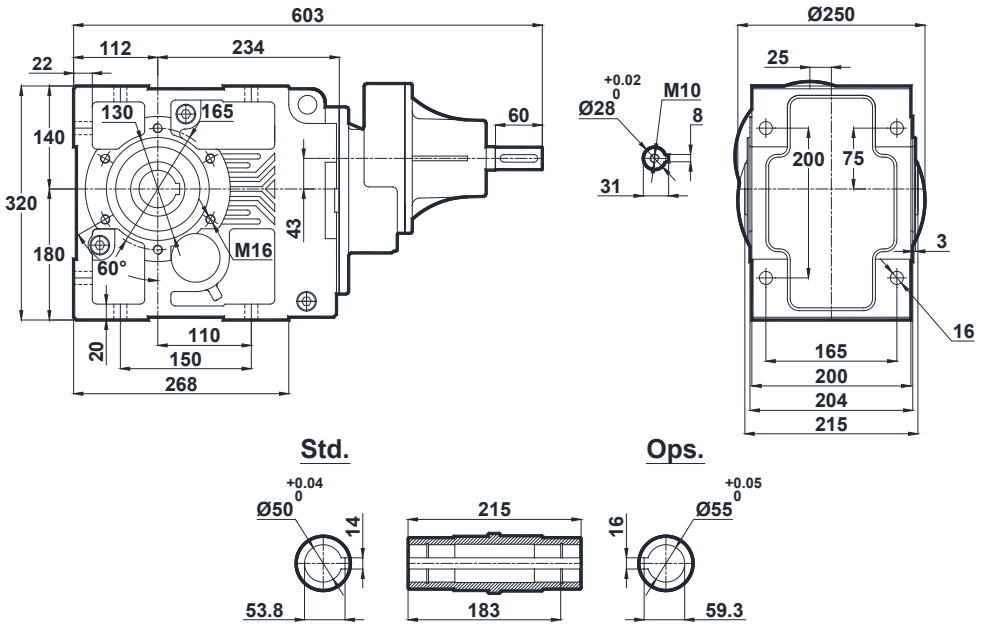
KT473.08



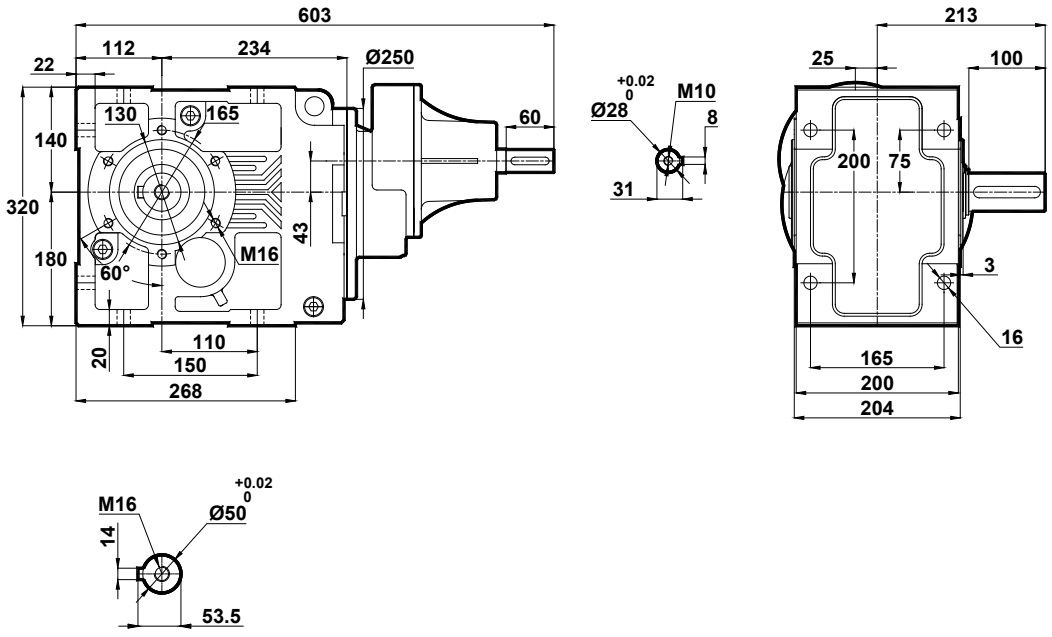
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT474.00

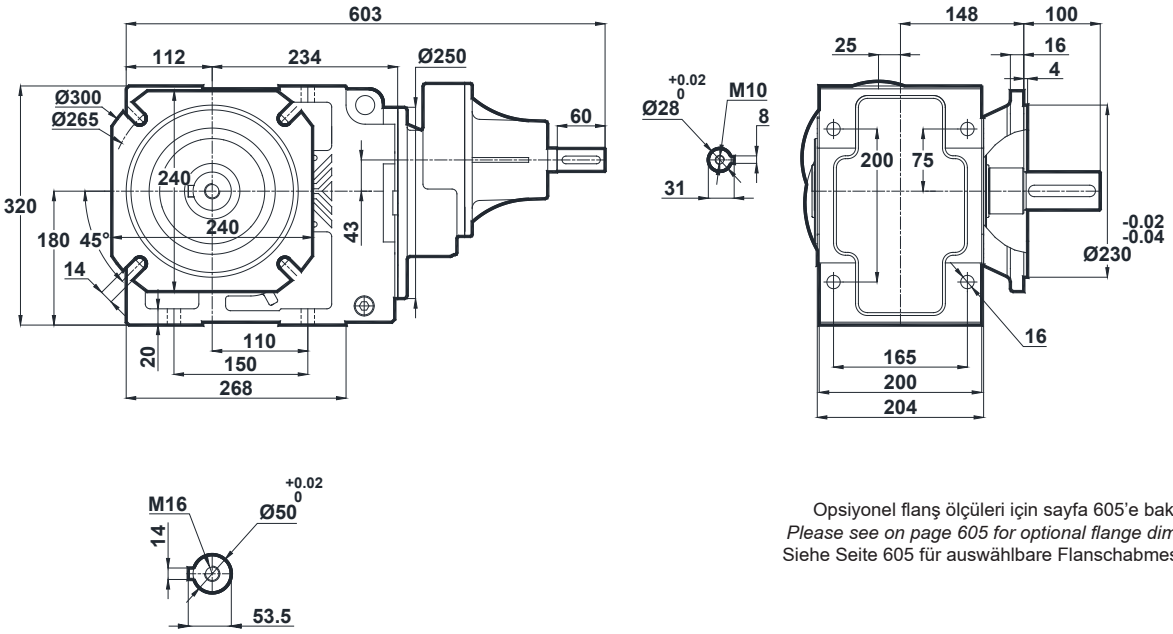


KT474.01



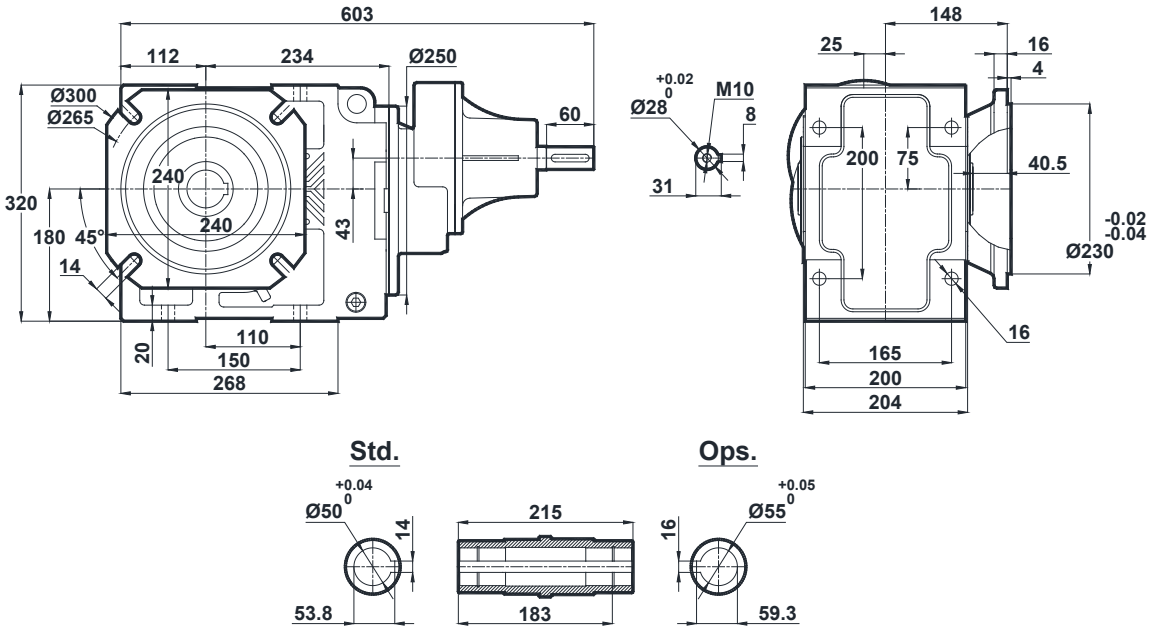
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT474.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

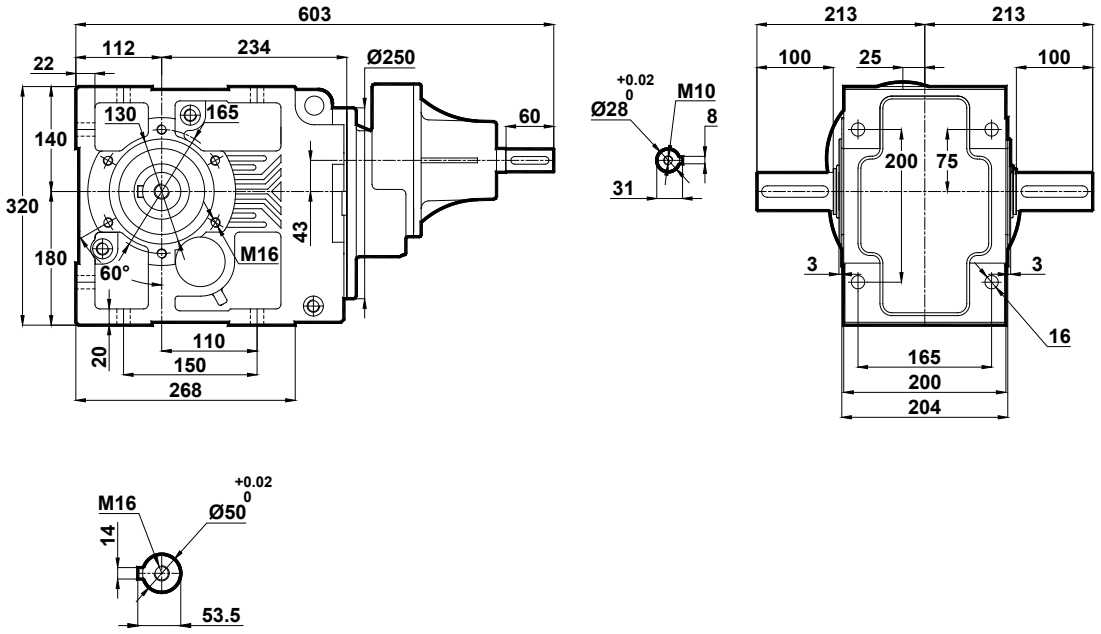
KT474.03



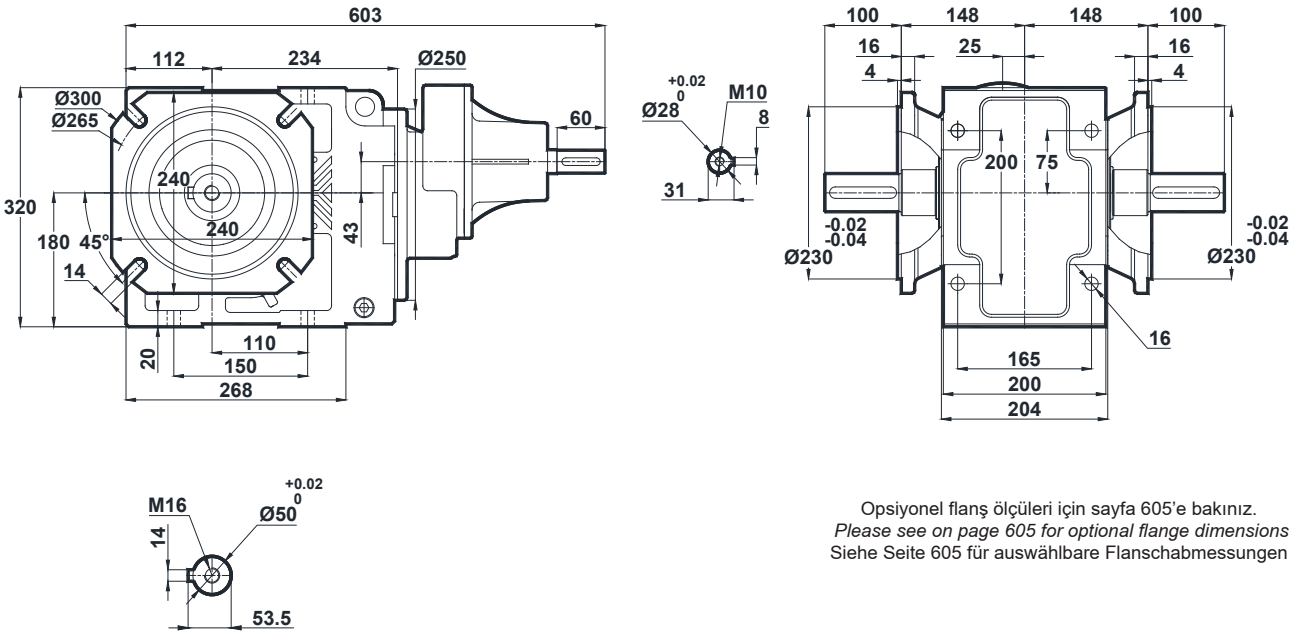
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT474.04



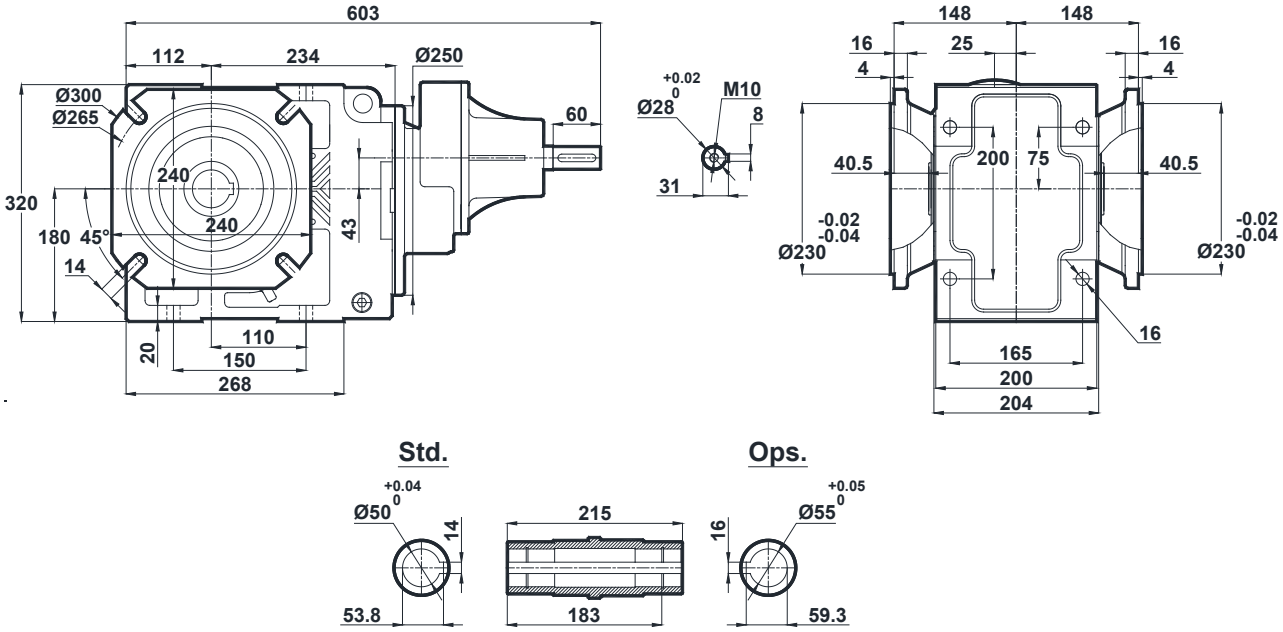
KT474.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

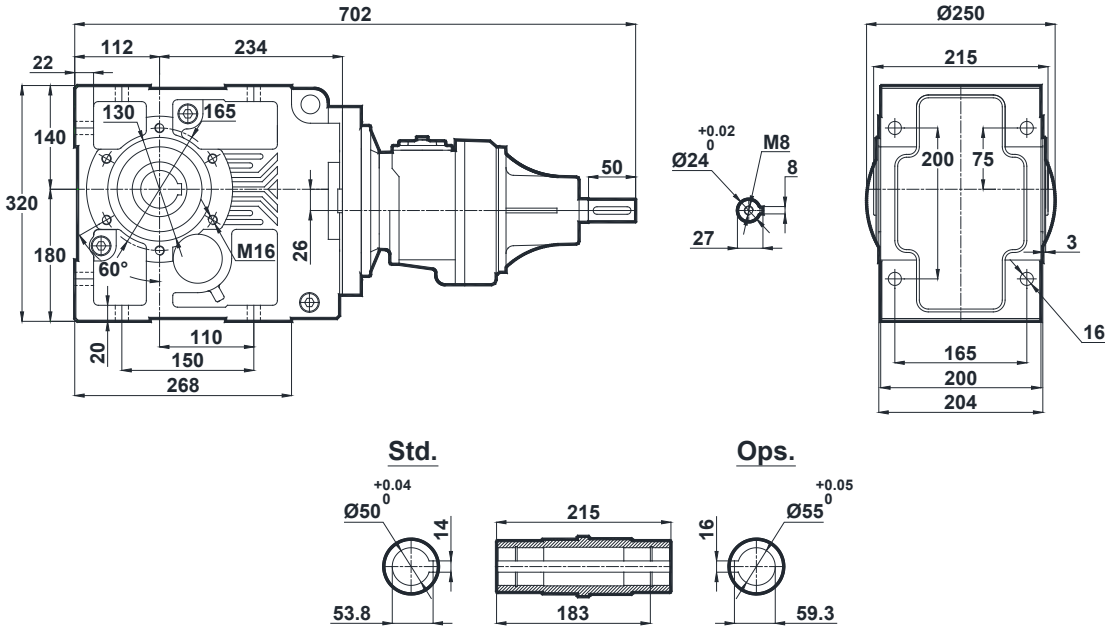
KT474.08



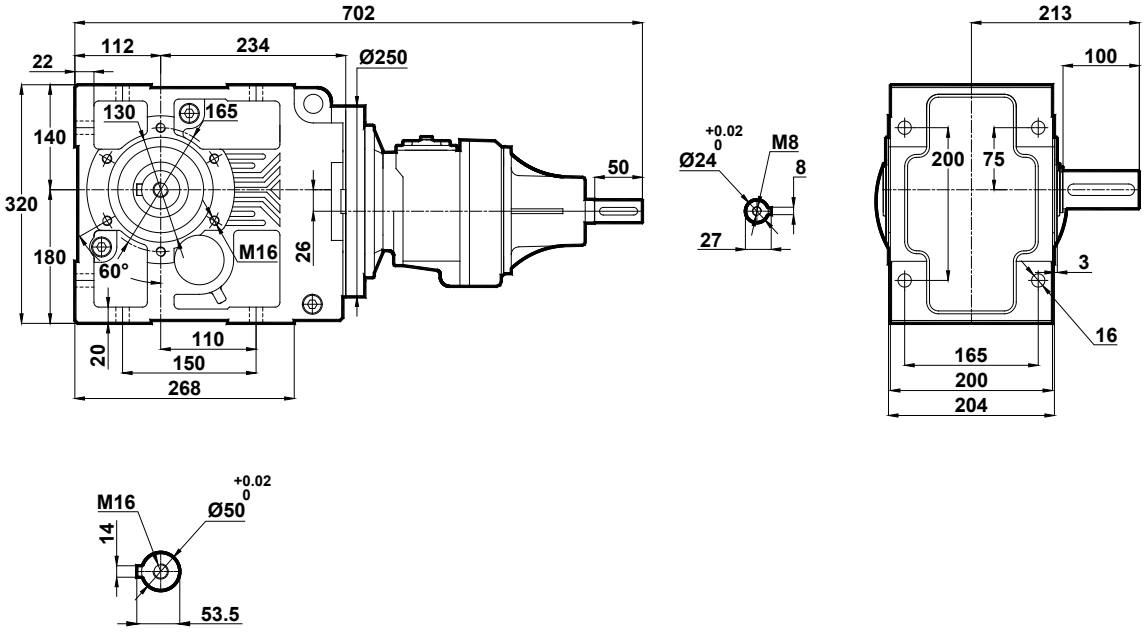
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT475.00
KT476.00

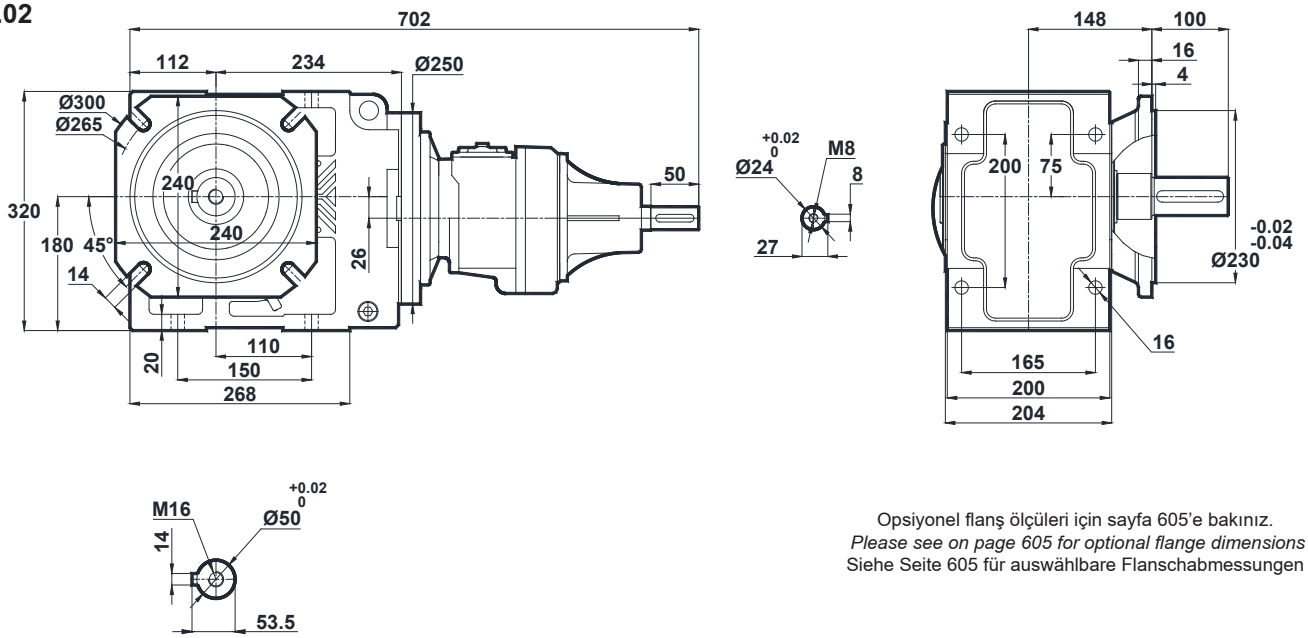


KT475.01
KT476.01



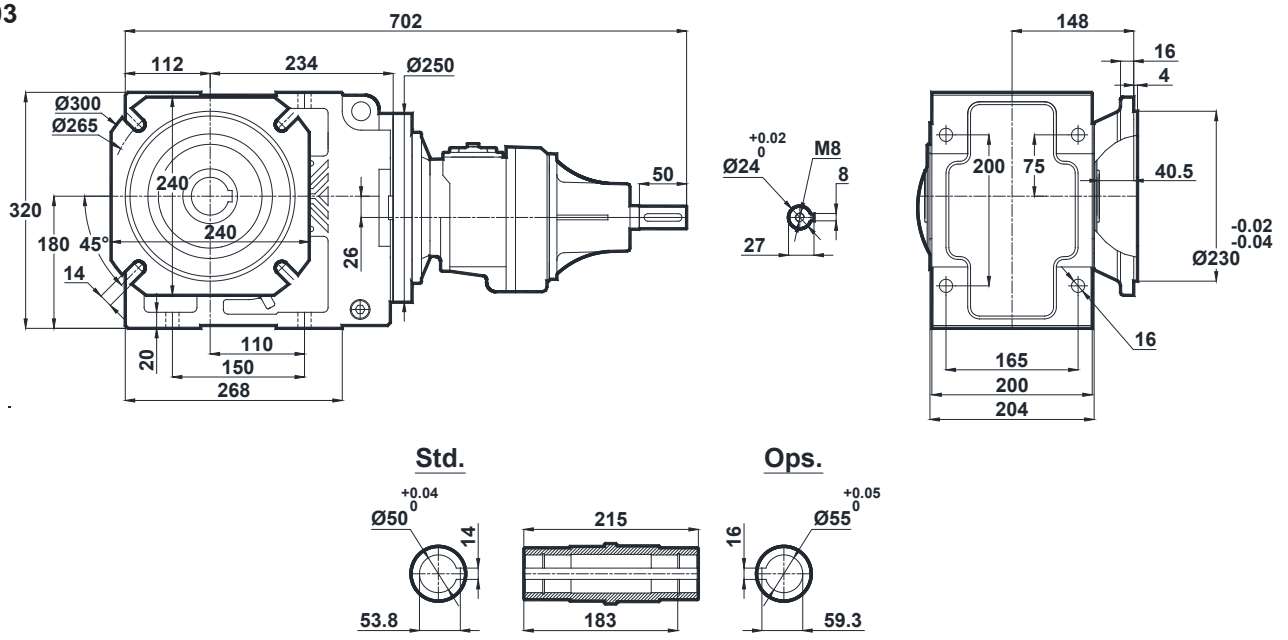
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT475.02
KT476.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KT475.03
KT476.03



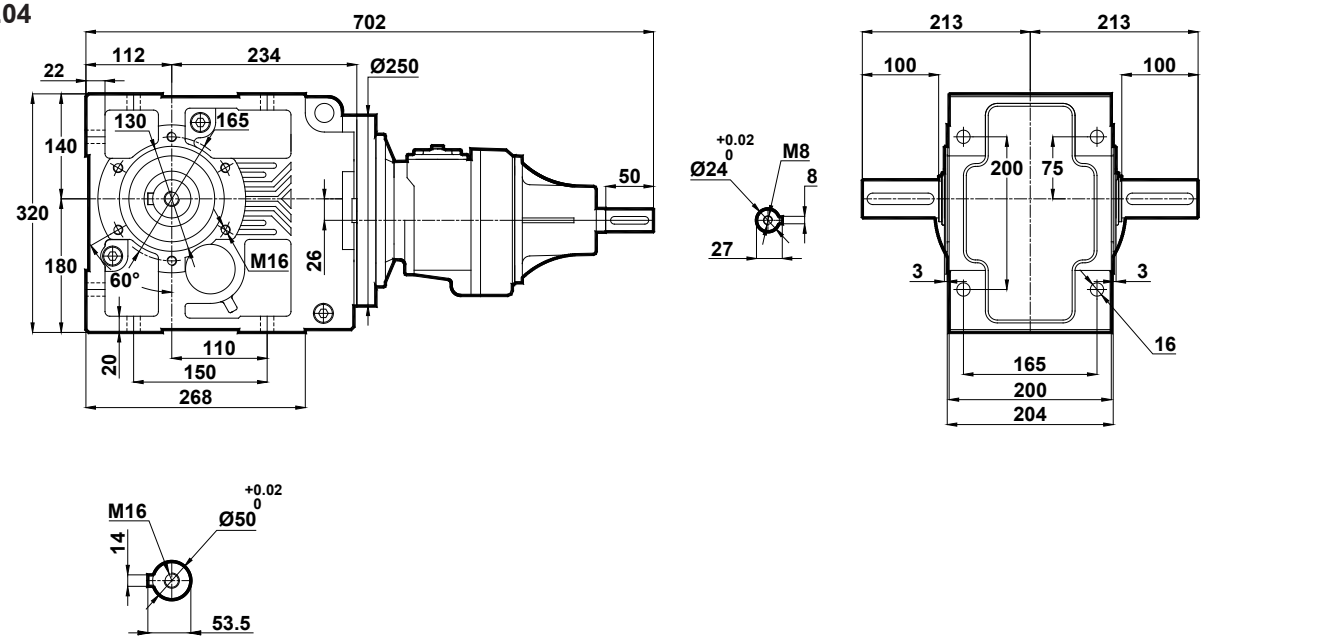
Std.

Ops.

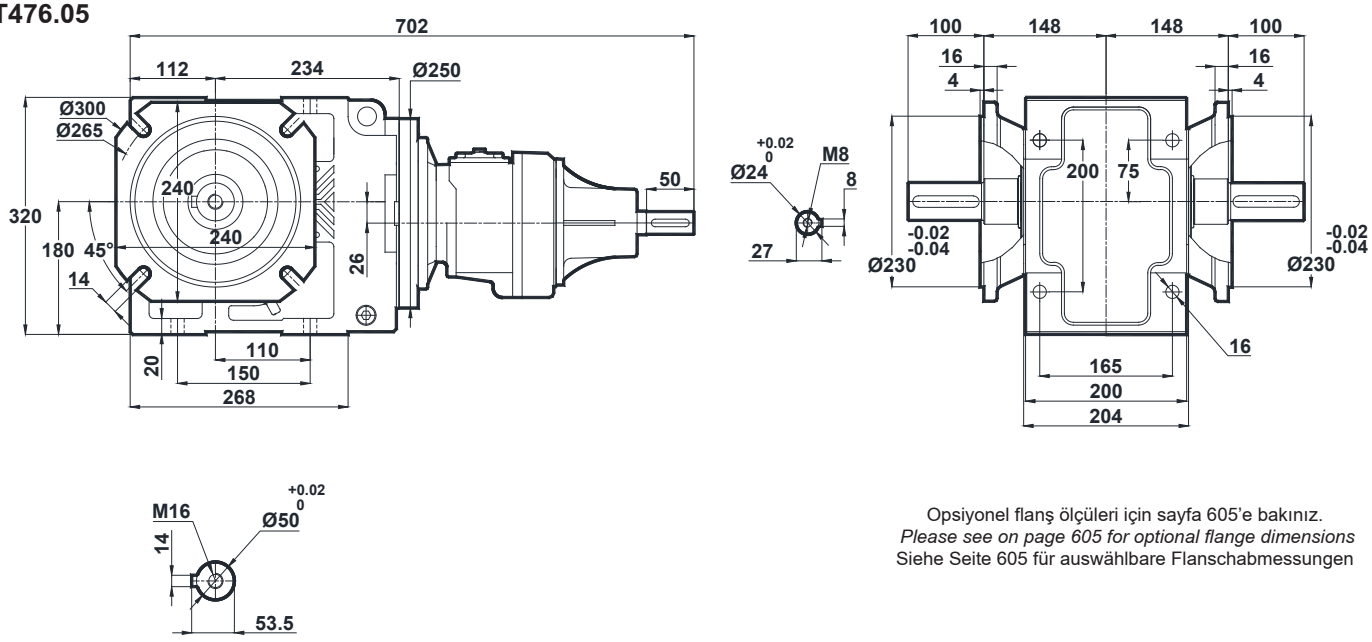
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT475.04
KT476.04



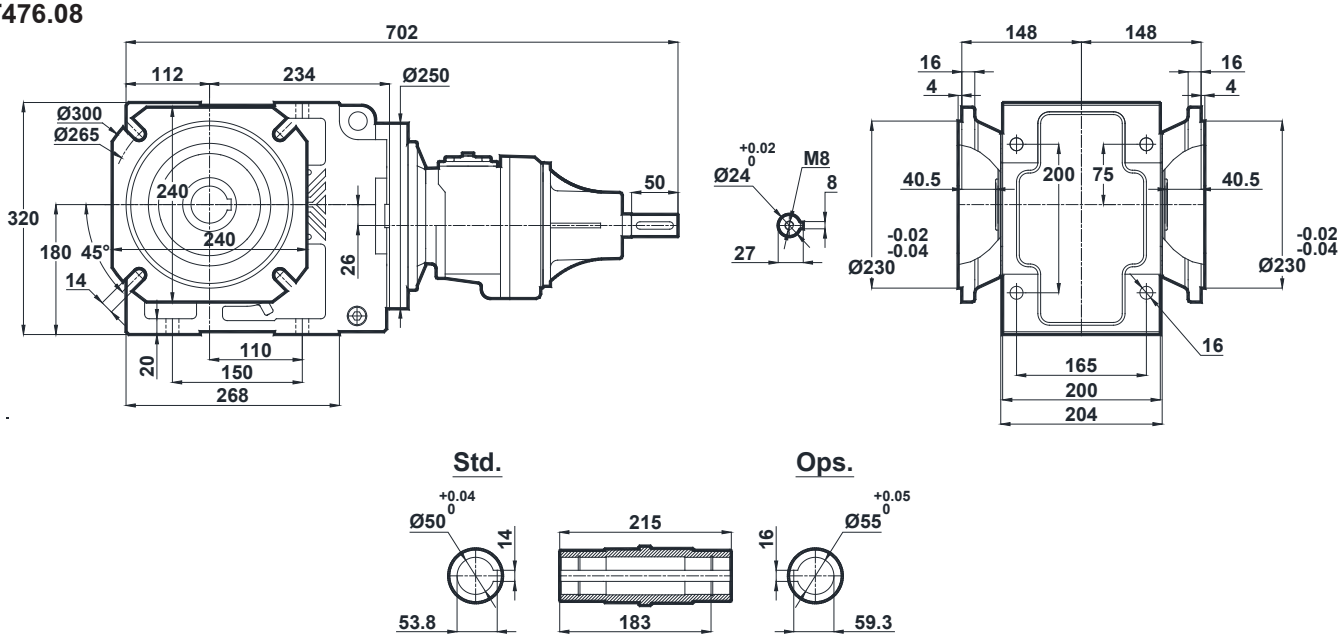
KT475.05
KT476.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT475.08
KT476.08

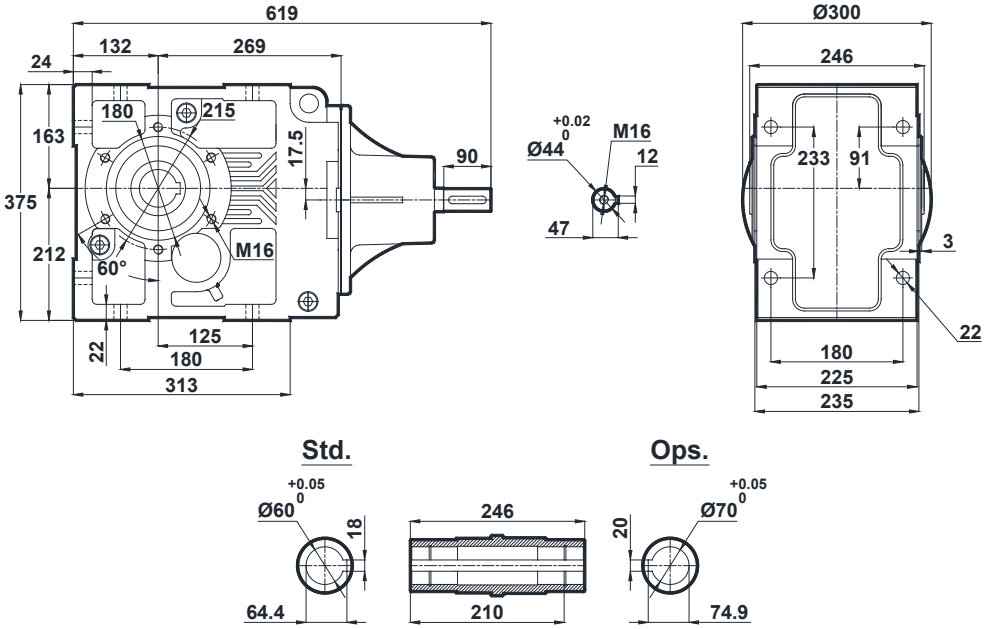


Std. **Ops.**

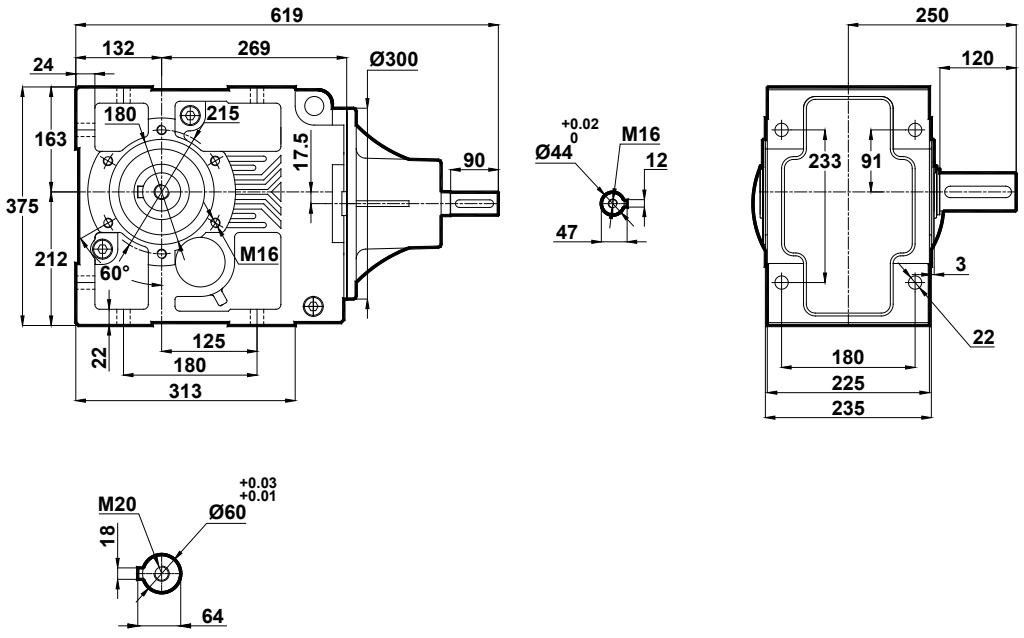
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT573.00

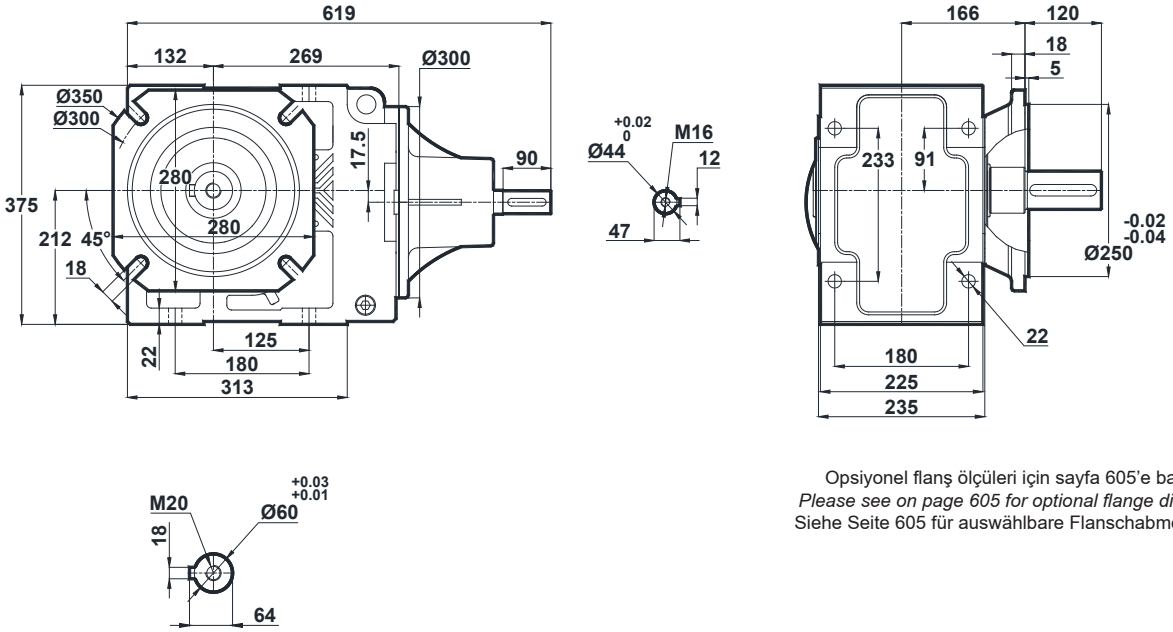


KT573.01



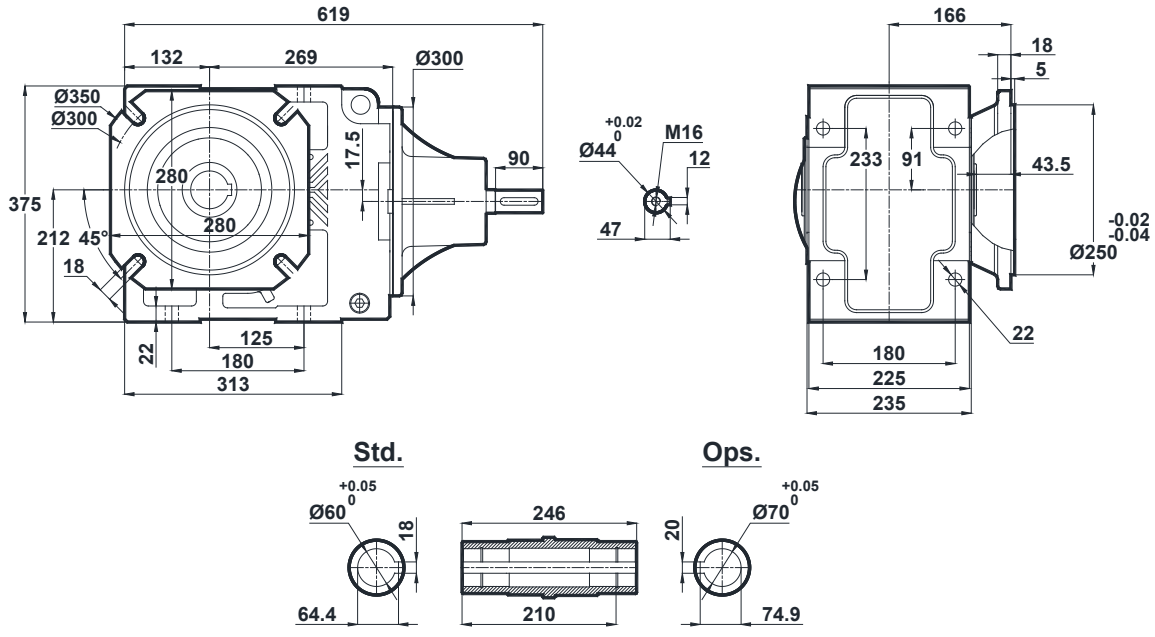
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT573.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

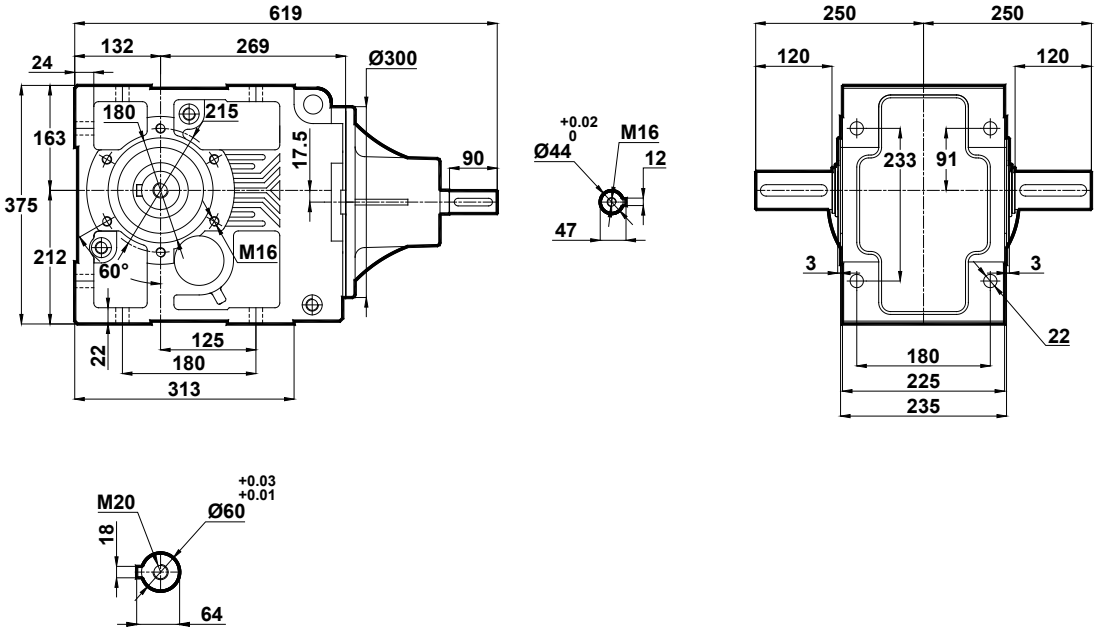
KT573.03



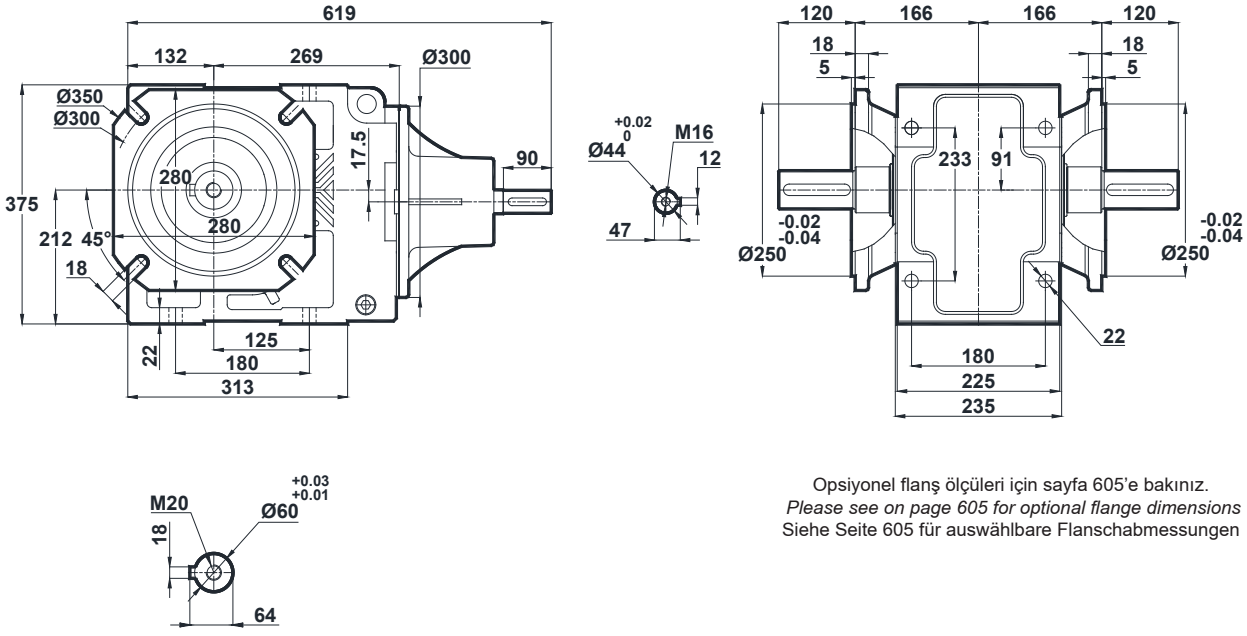
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT573.04



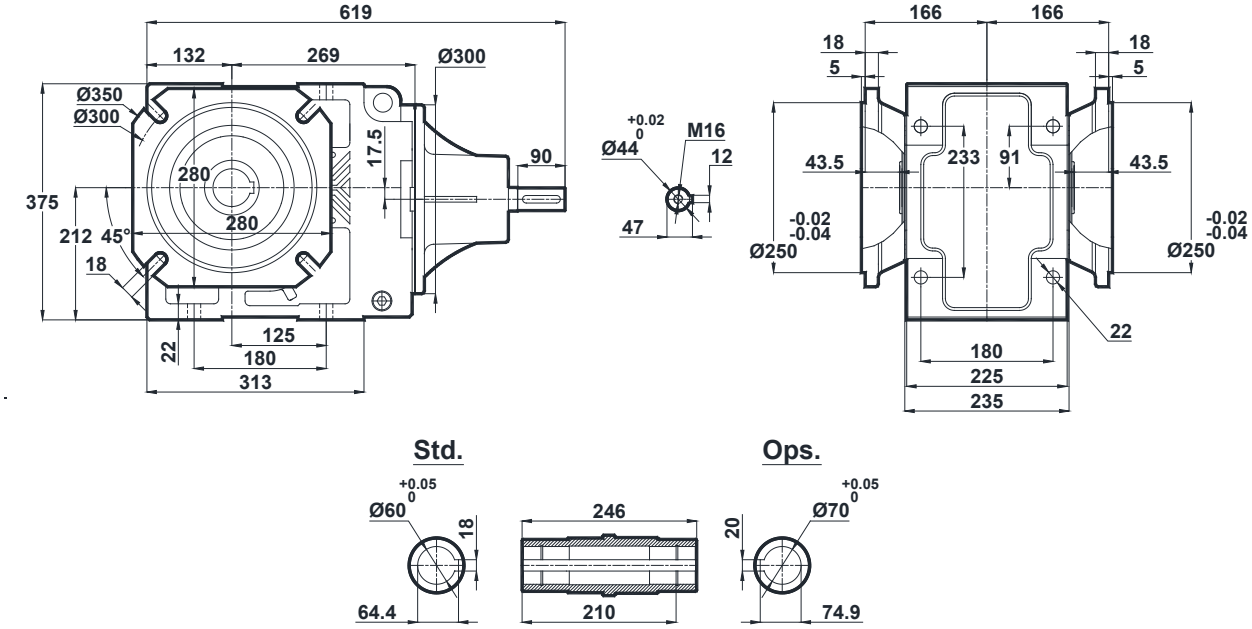
KT573.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT573.08



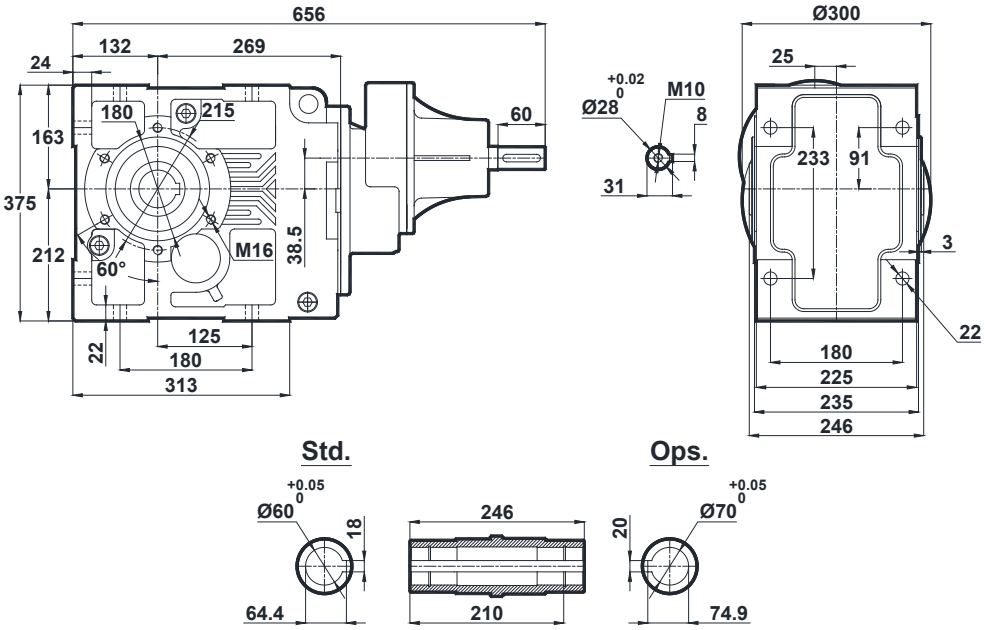
Std.

Ops.

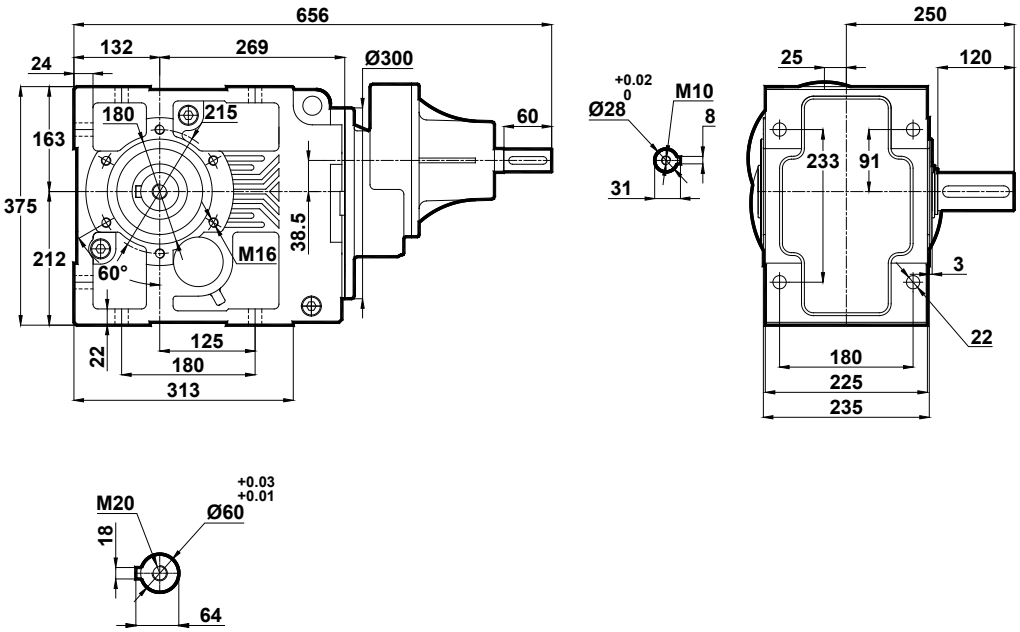
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT574.00

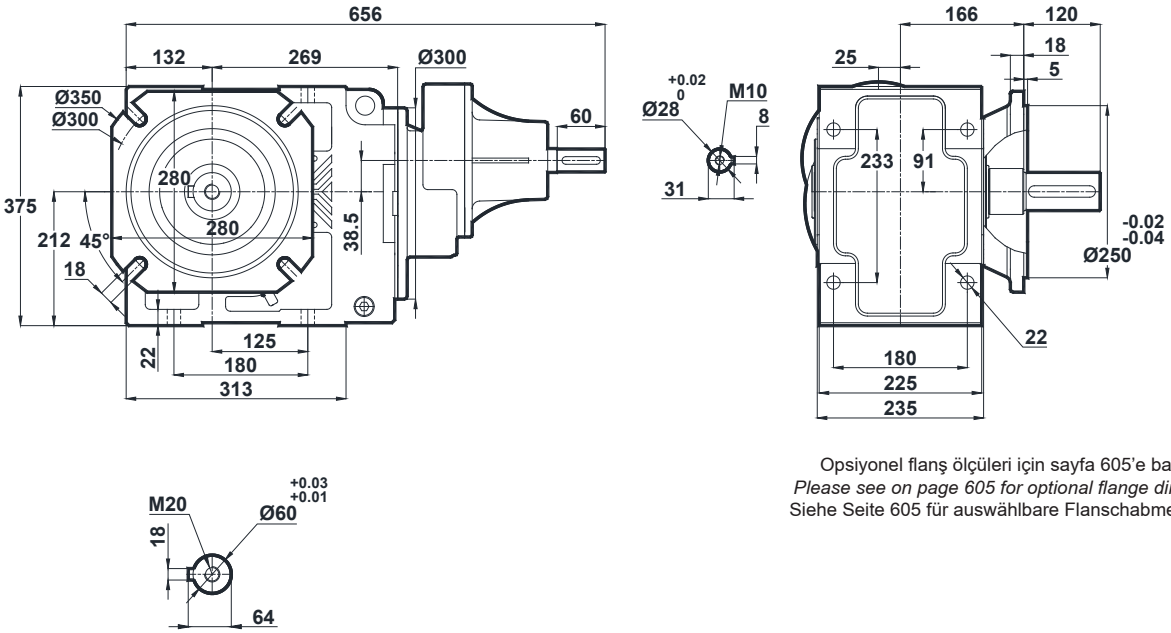


KT574.01



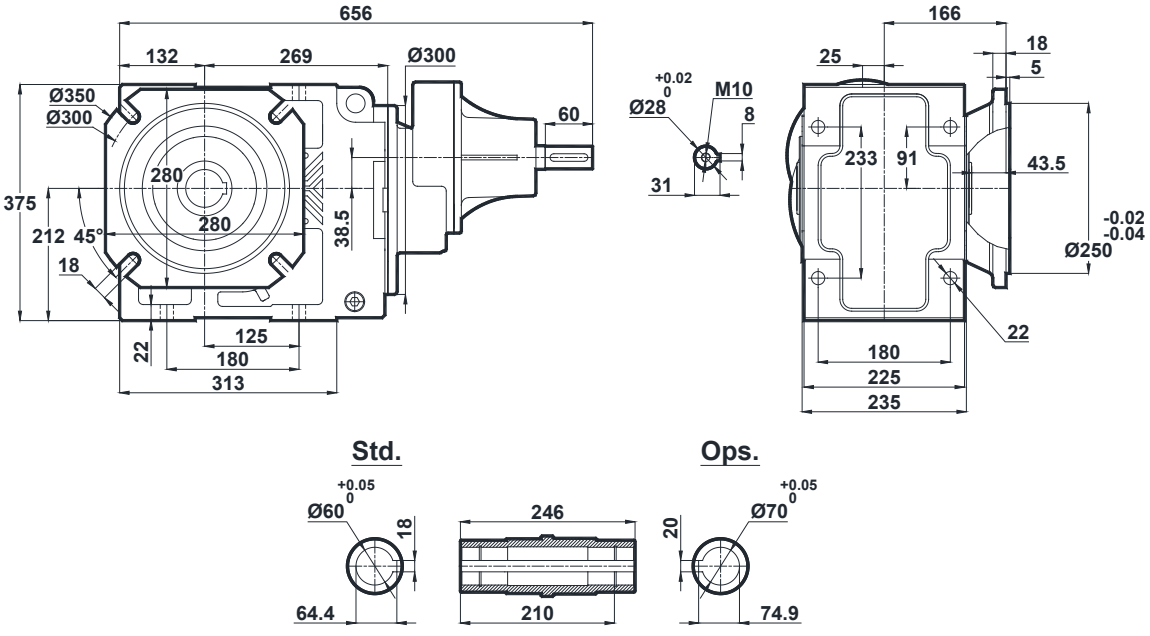
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT574.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

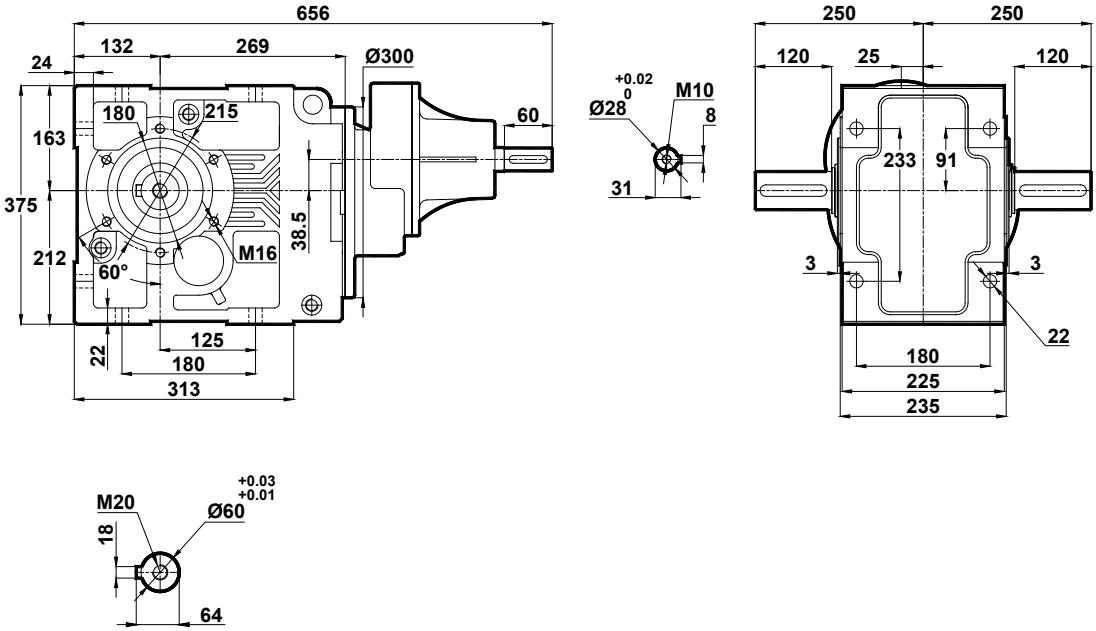
KT574.03



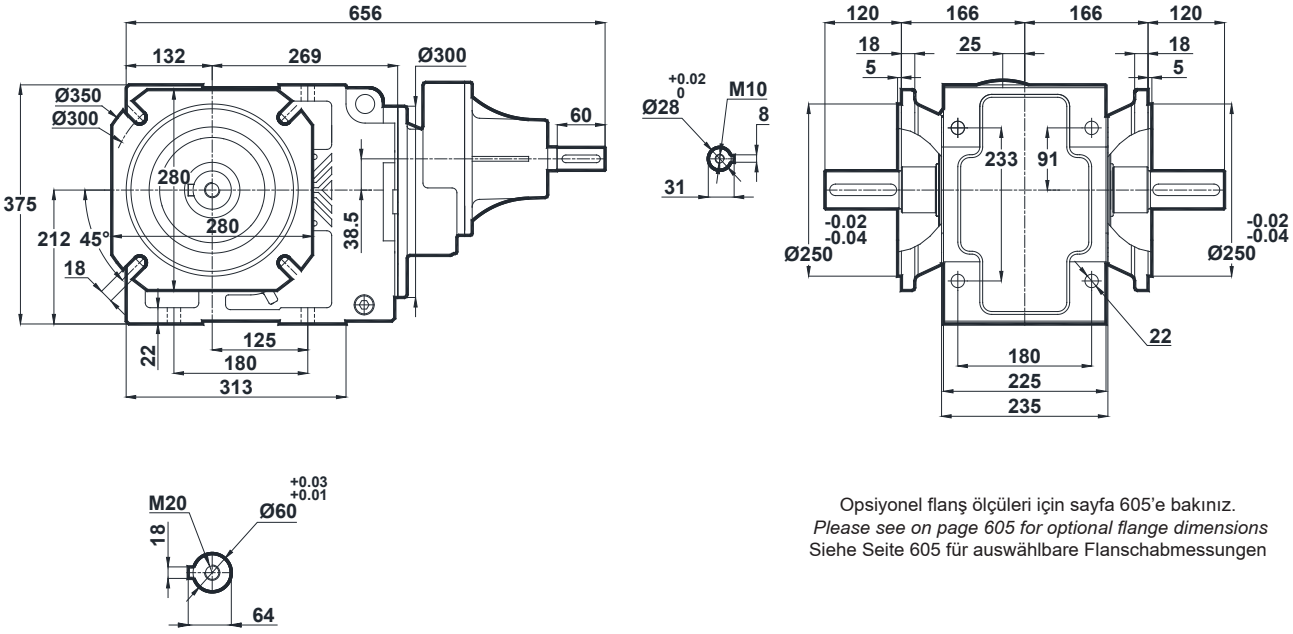
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT574.04



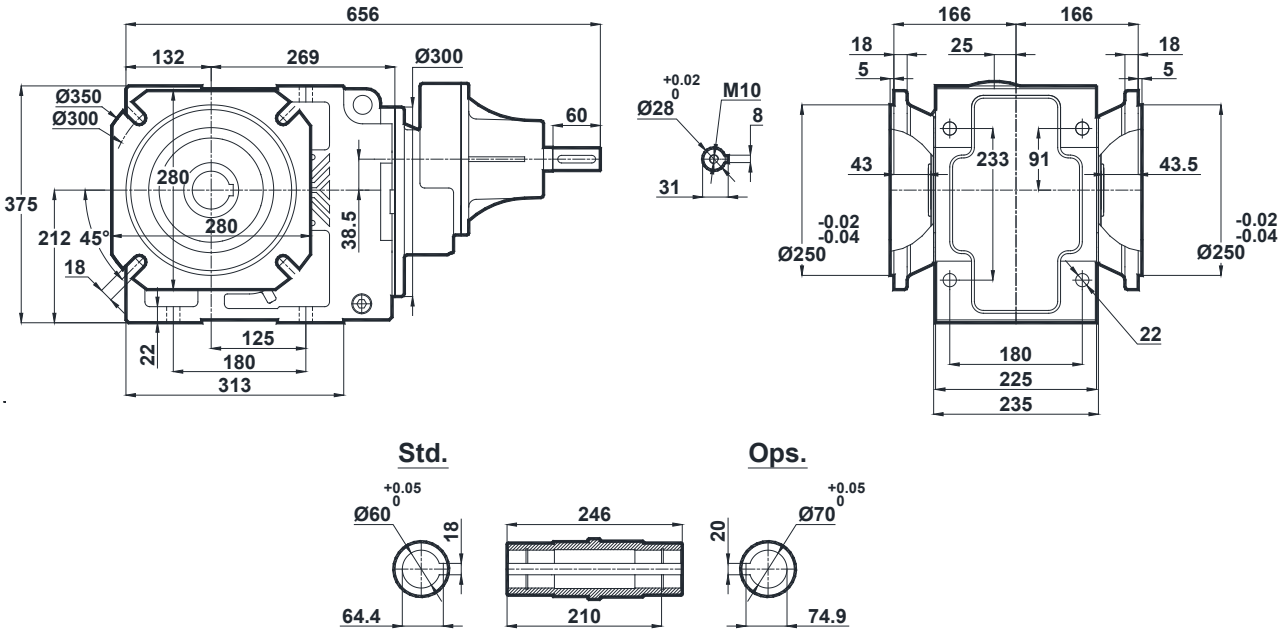
KT574.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT574.08

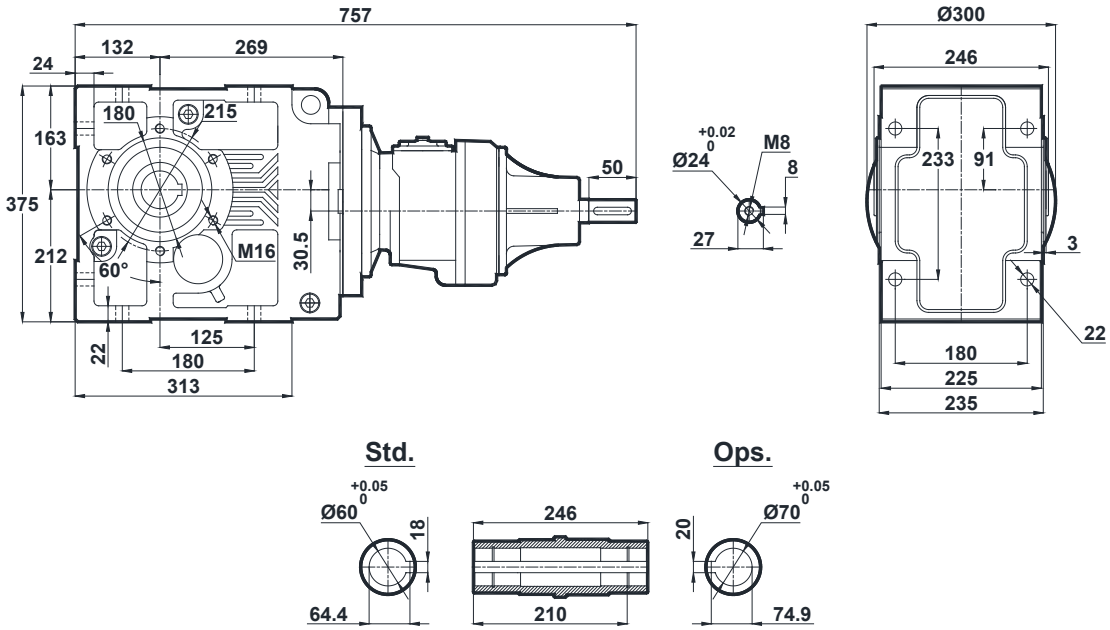


Std.

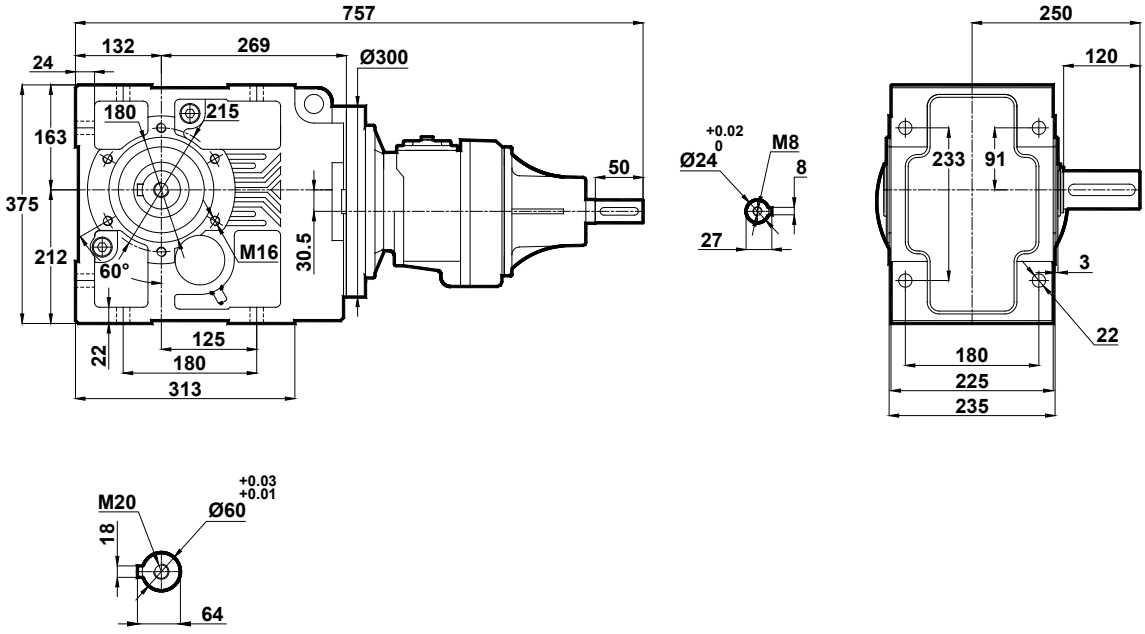
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT575.00
KT576.00

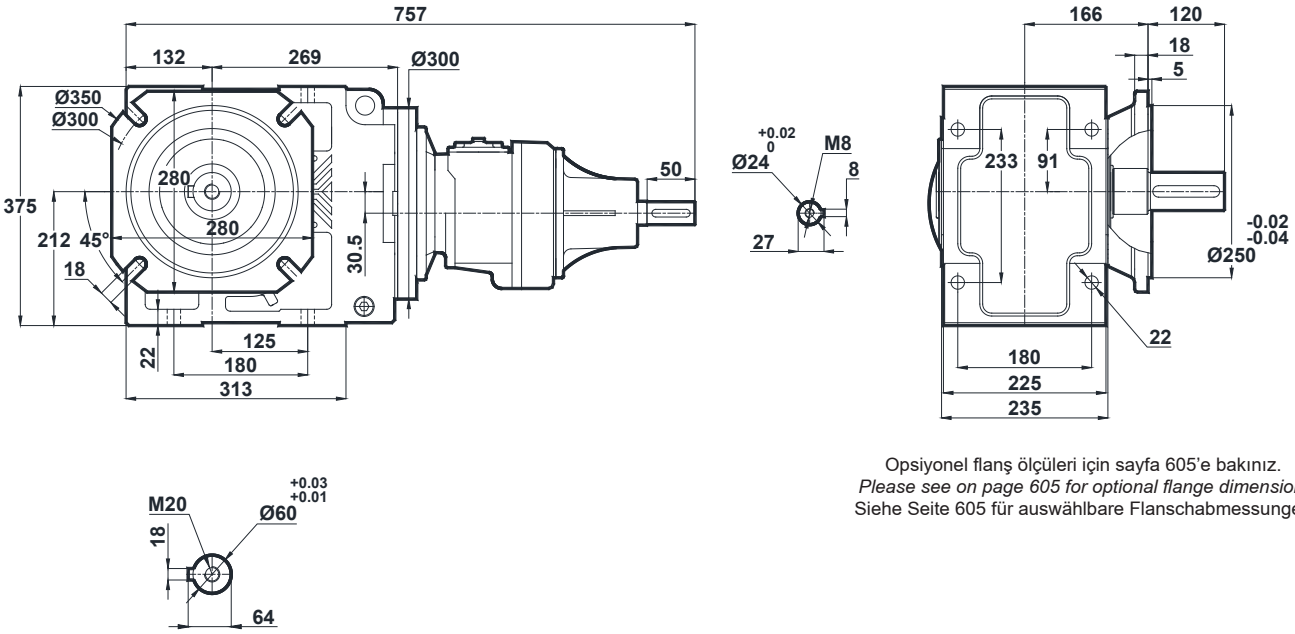


KT575.01
KT576.01



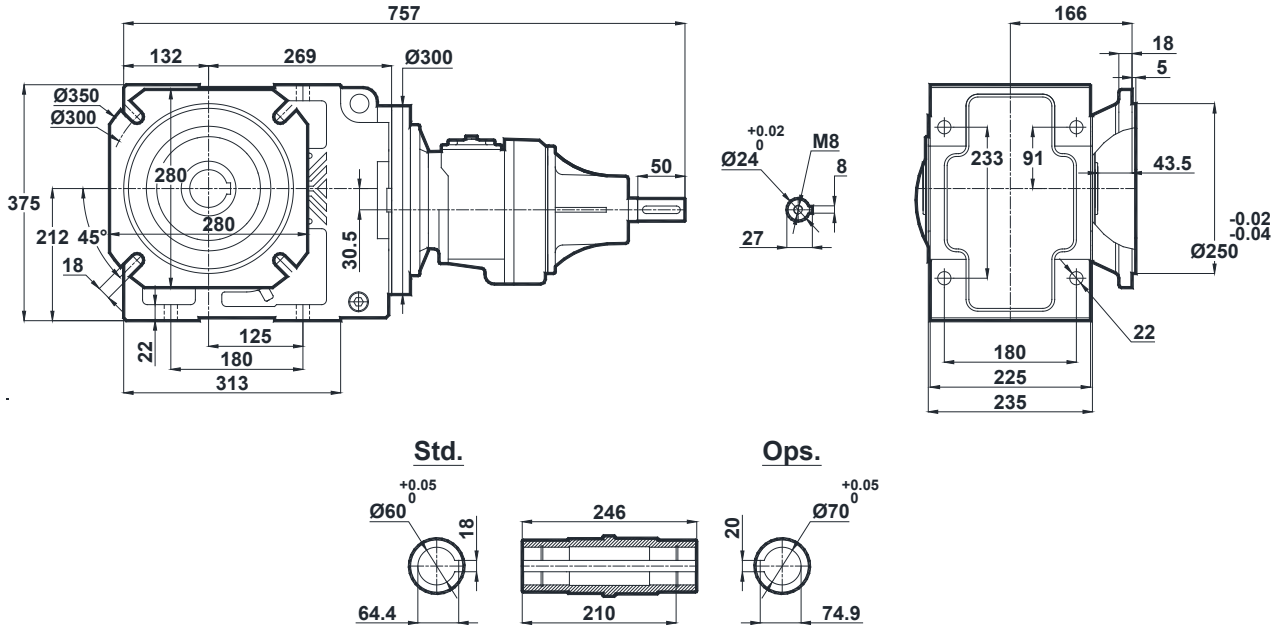
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT575.02
KT576.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

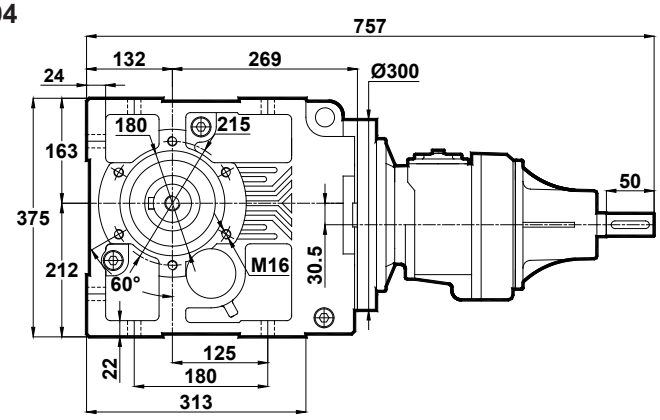
KT575.03
KT576.03

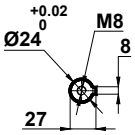


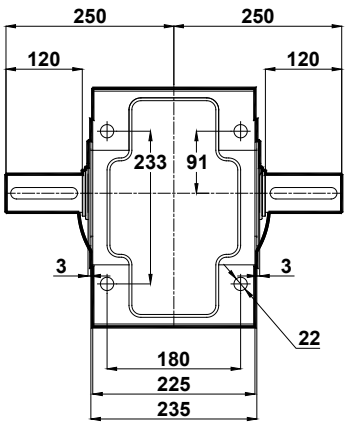
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

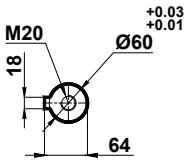
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT575.04
KT576.04

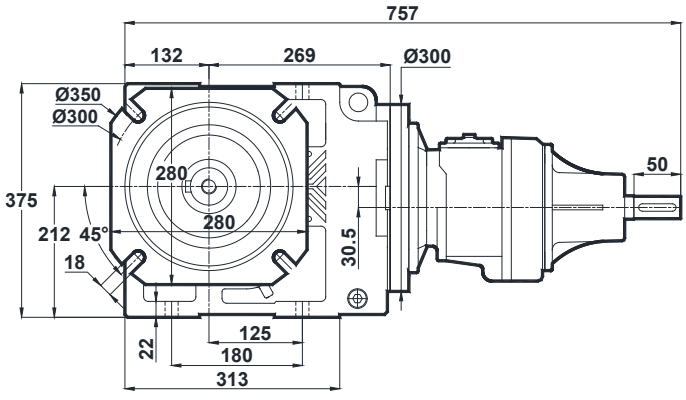


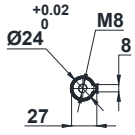


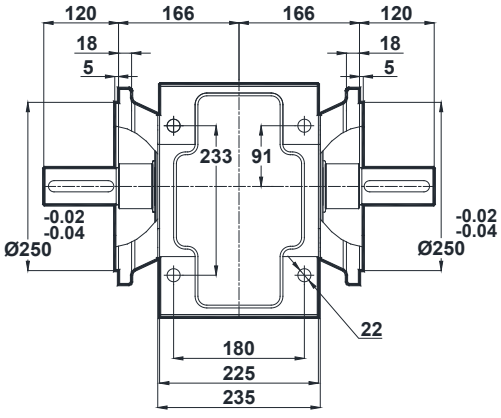


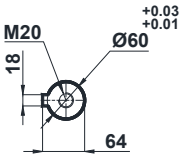


KT575.05
KT576.05





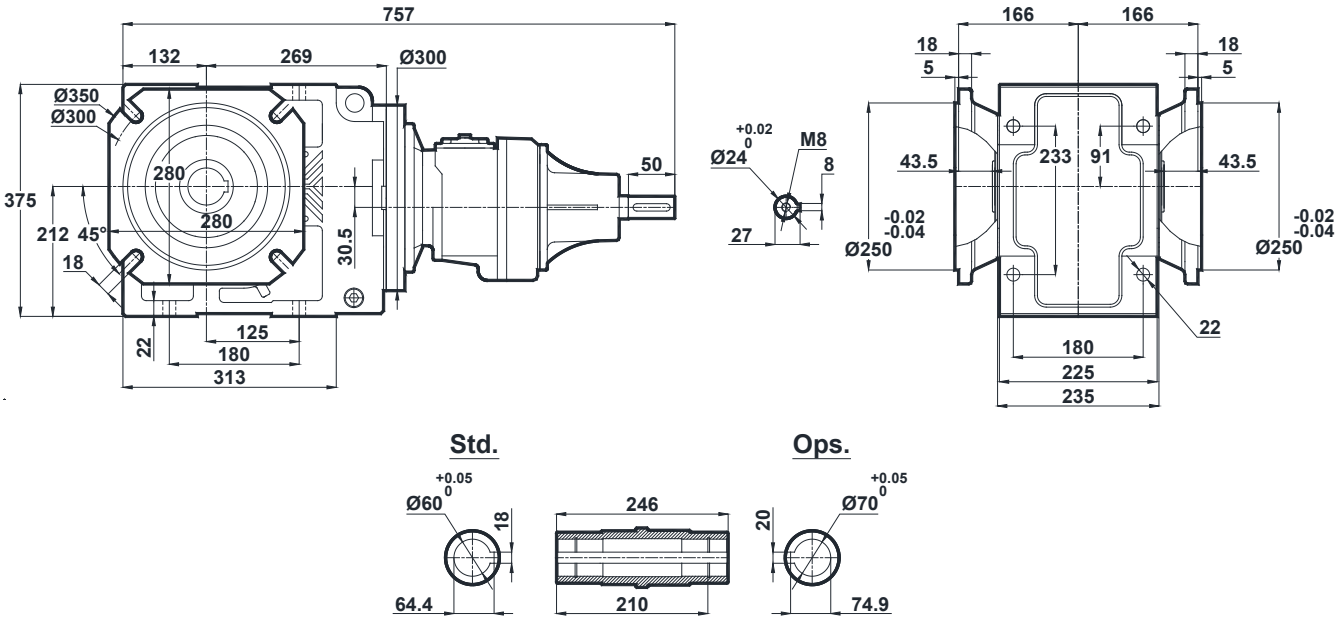




Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

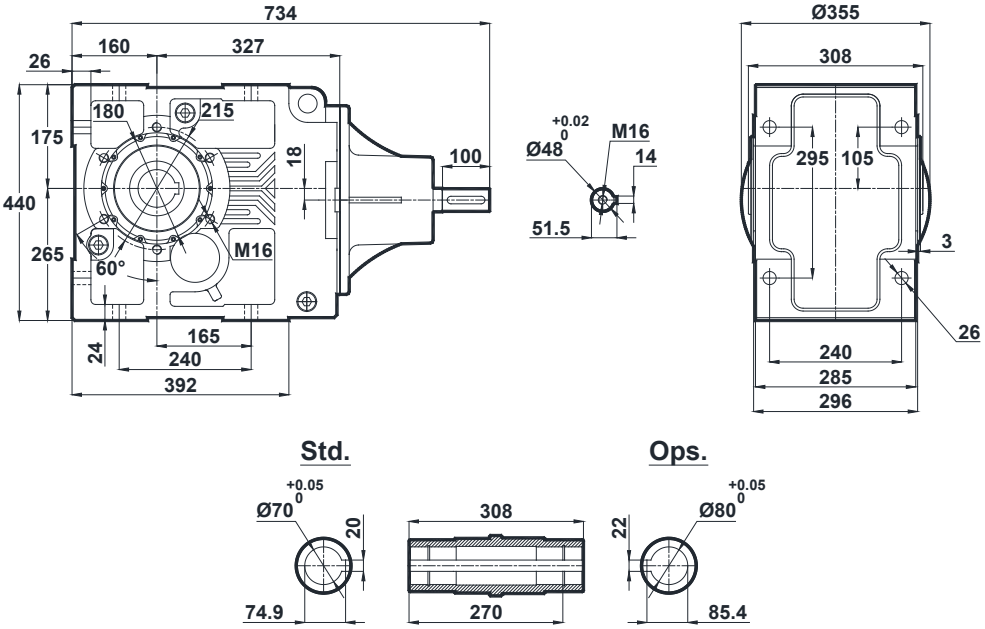
KT575.08
KT576.08



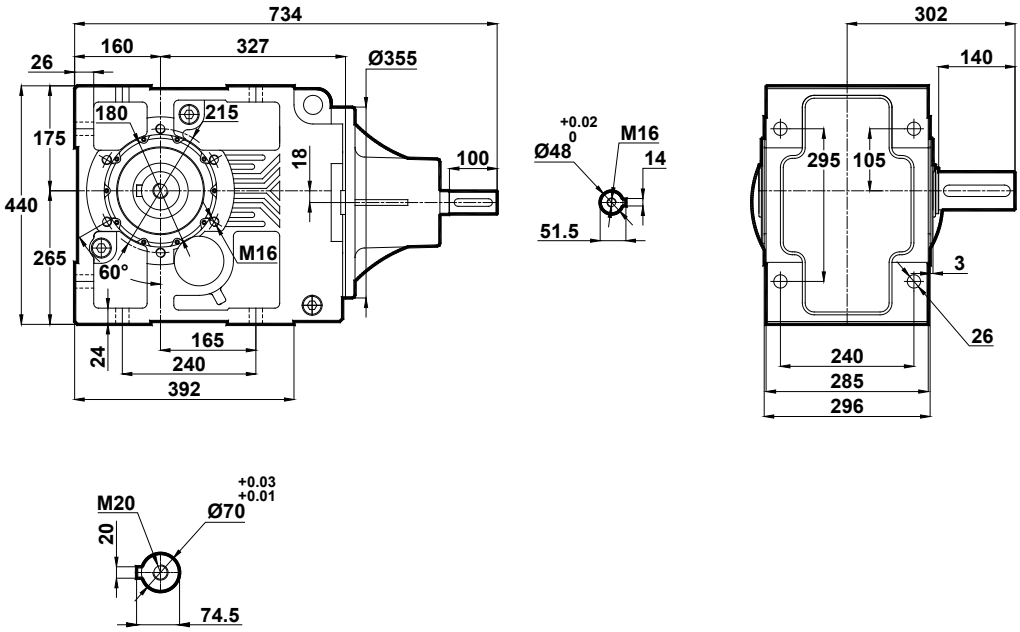
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT673.00

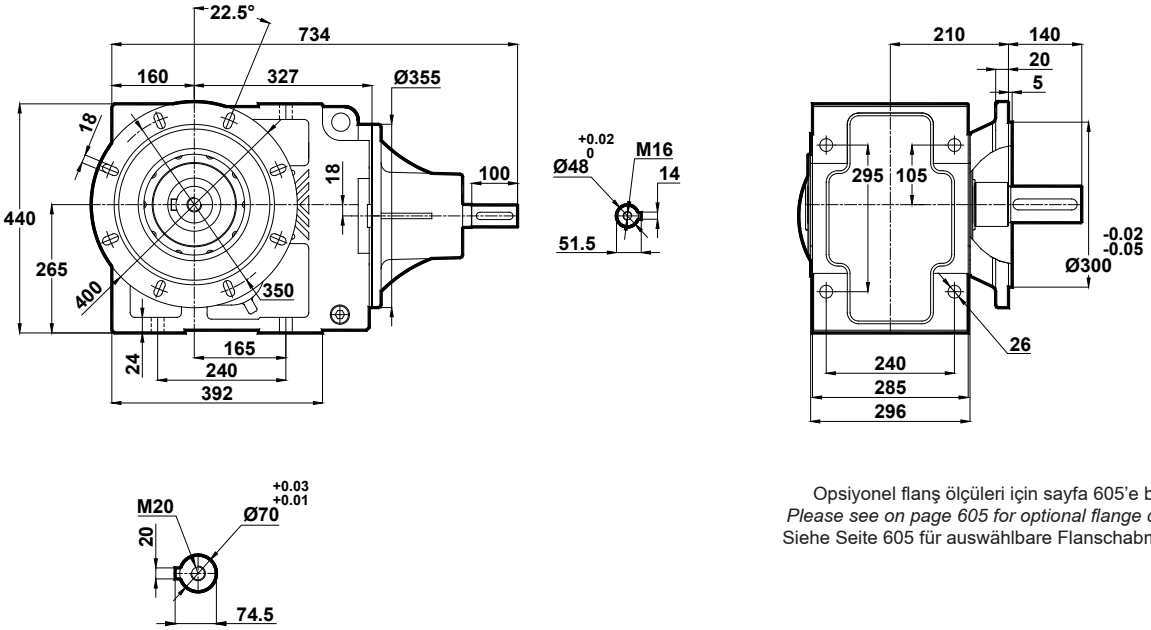


KT673.01



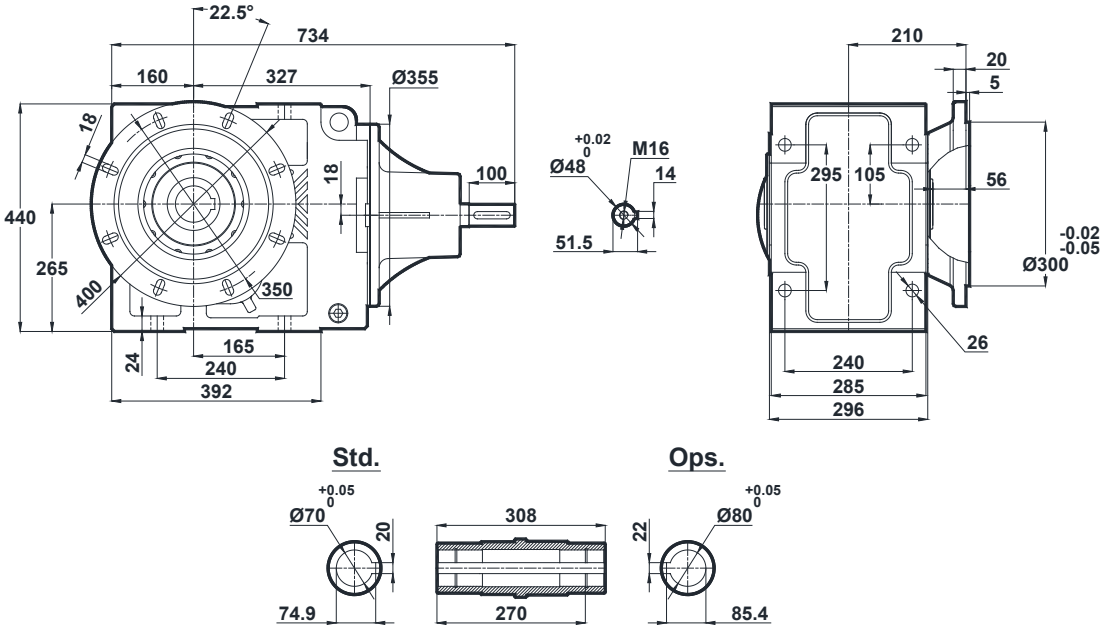
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT673.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

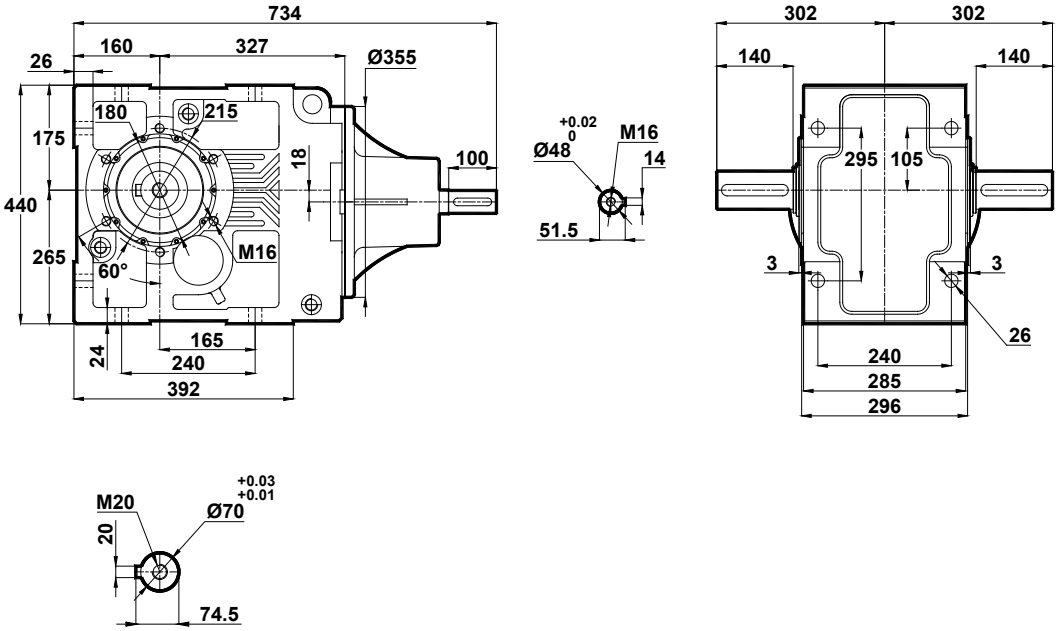
KT673.03



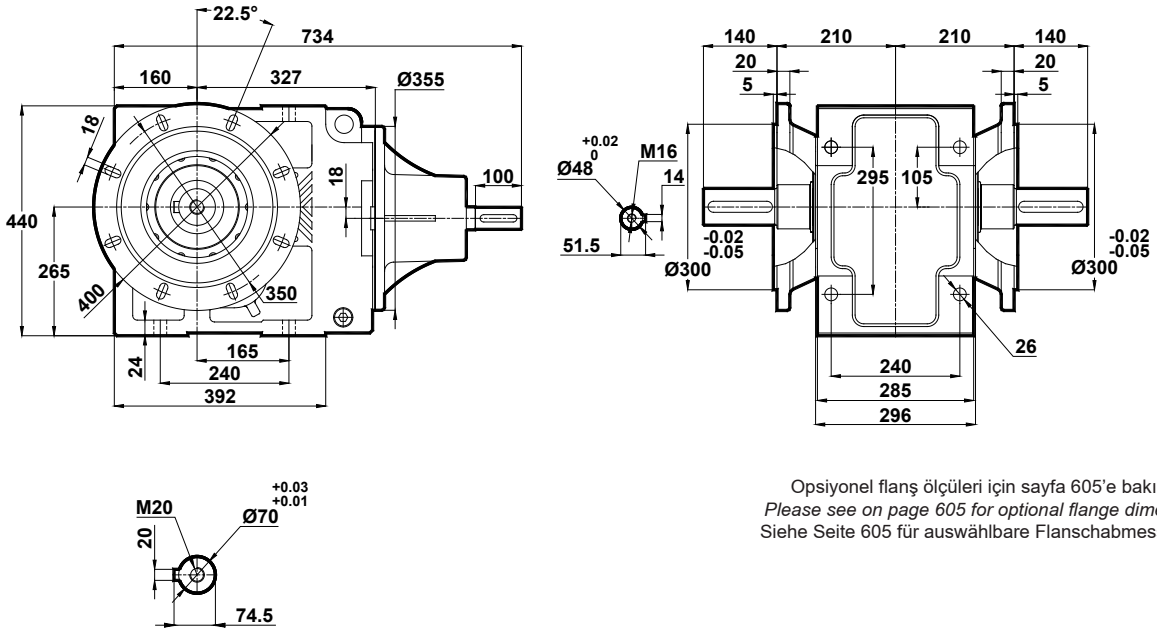
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT673.04



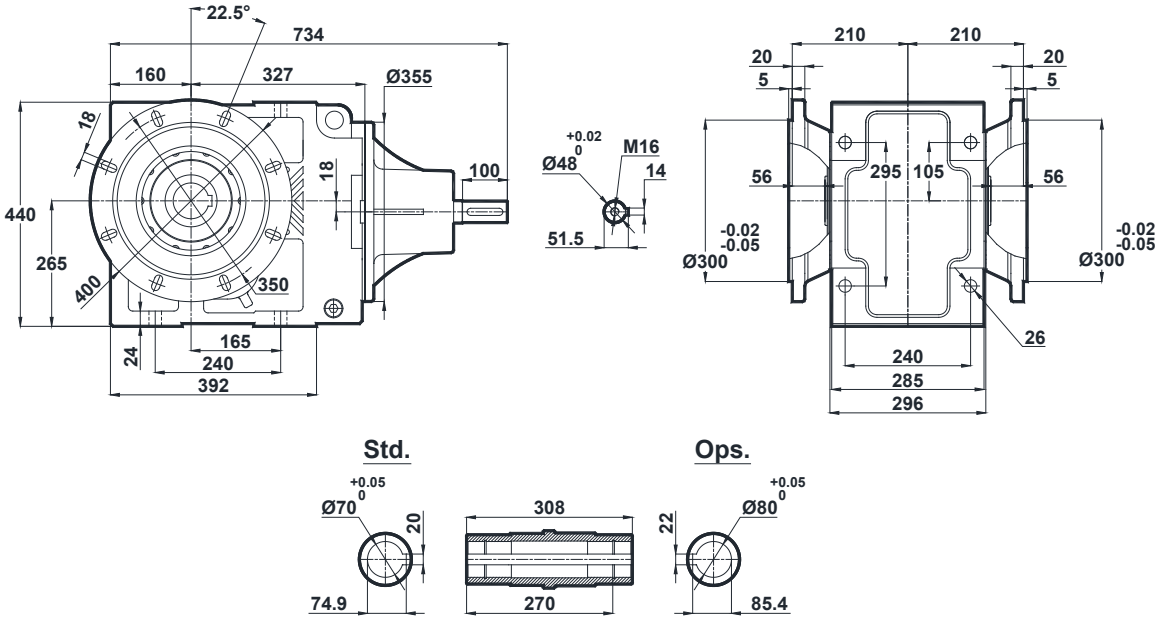
KT673.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

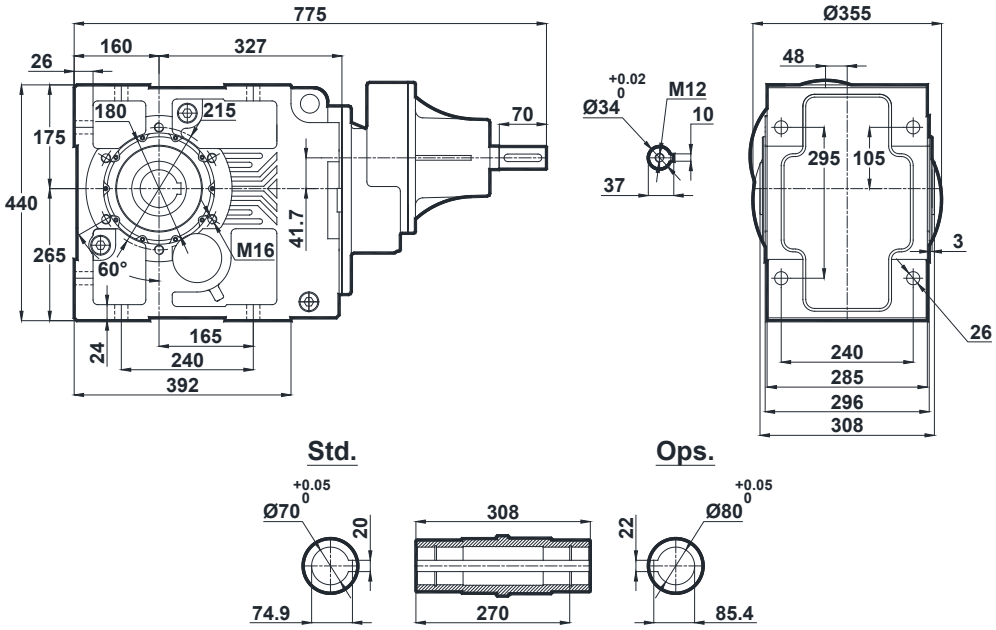
KT673.08



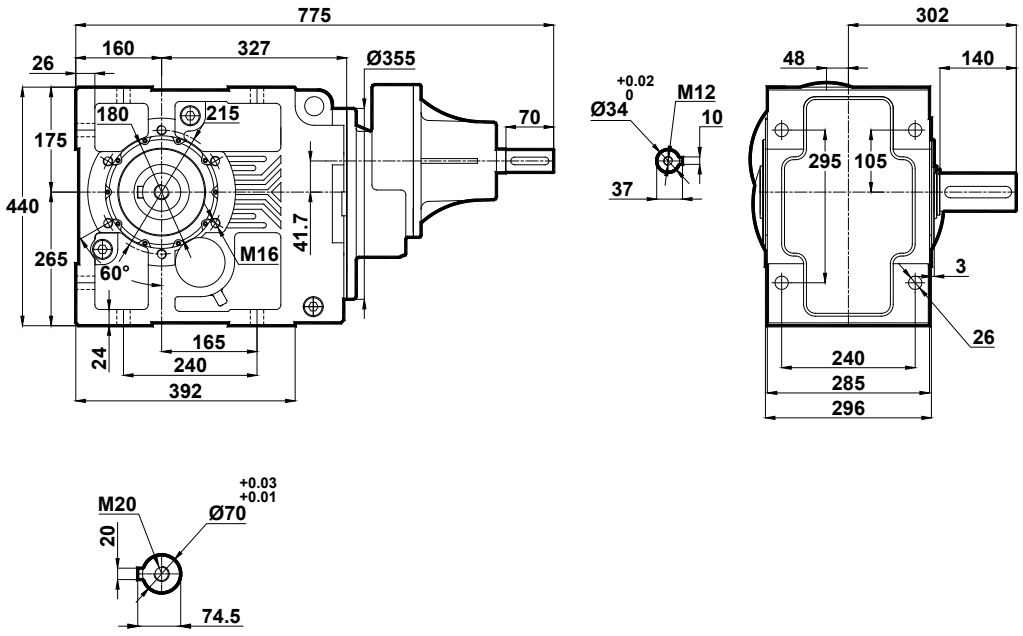
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT674.00

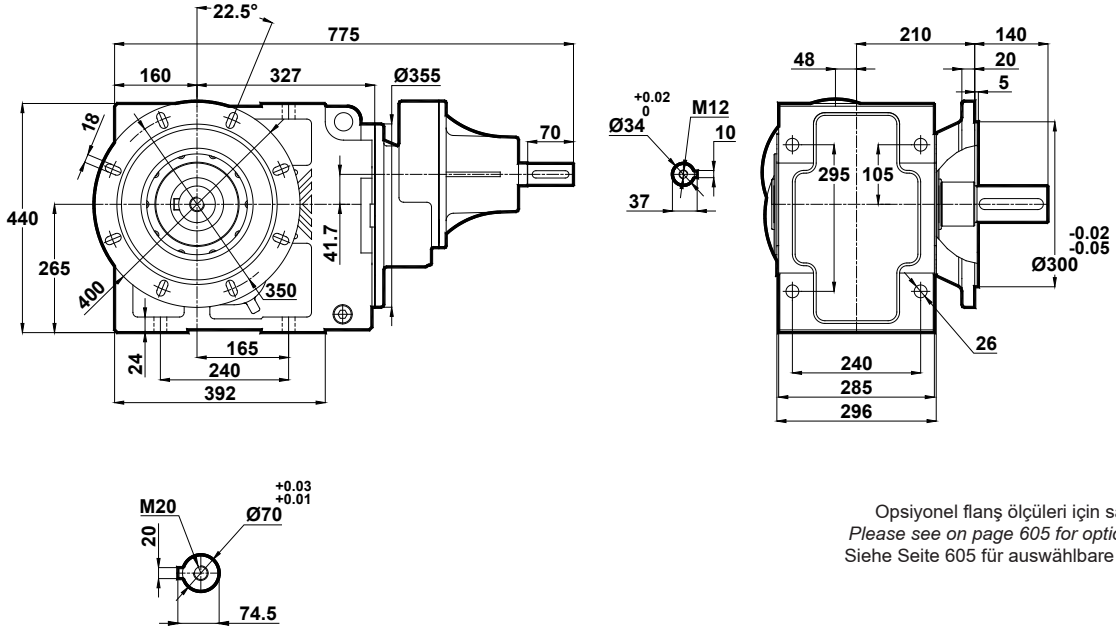


KT674.01



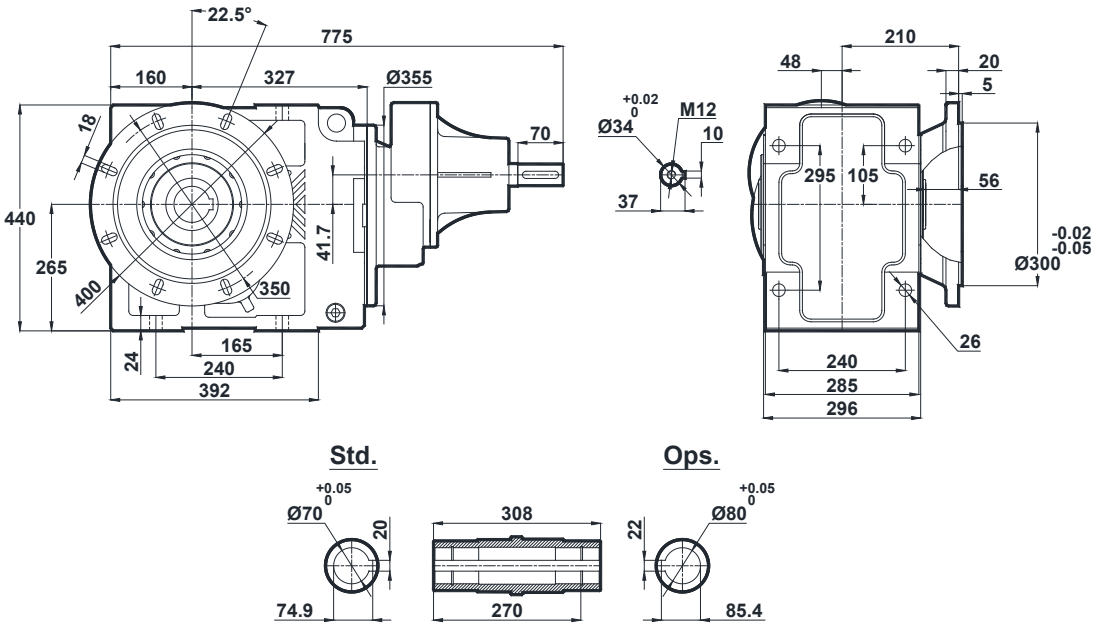
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT674.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

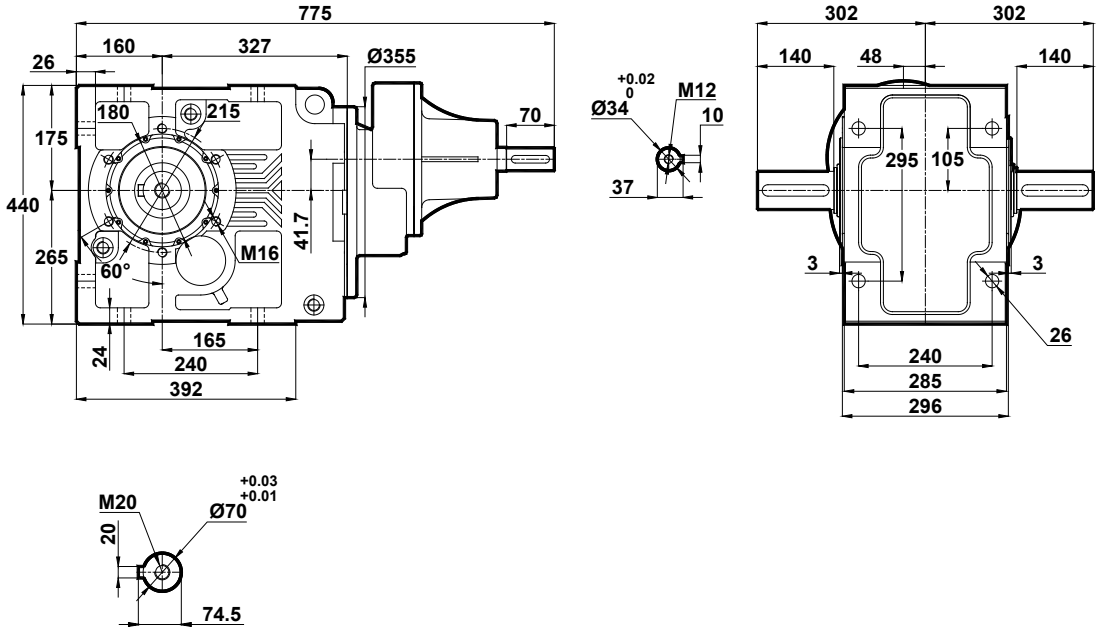
KT674.03



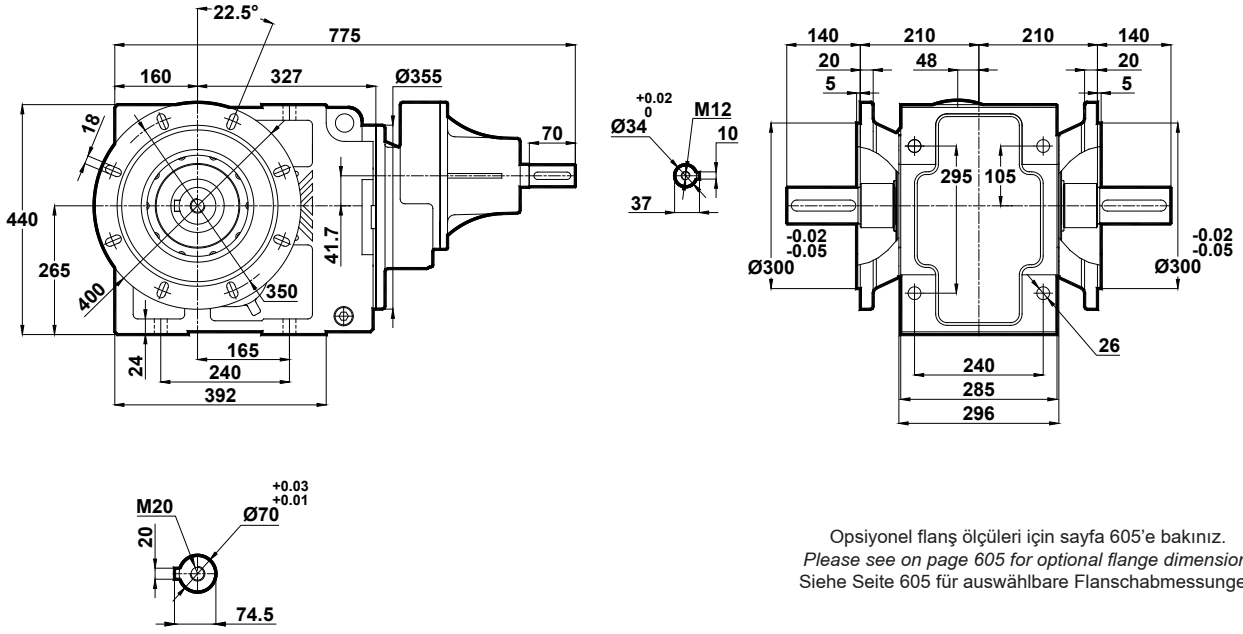
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT674.04



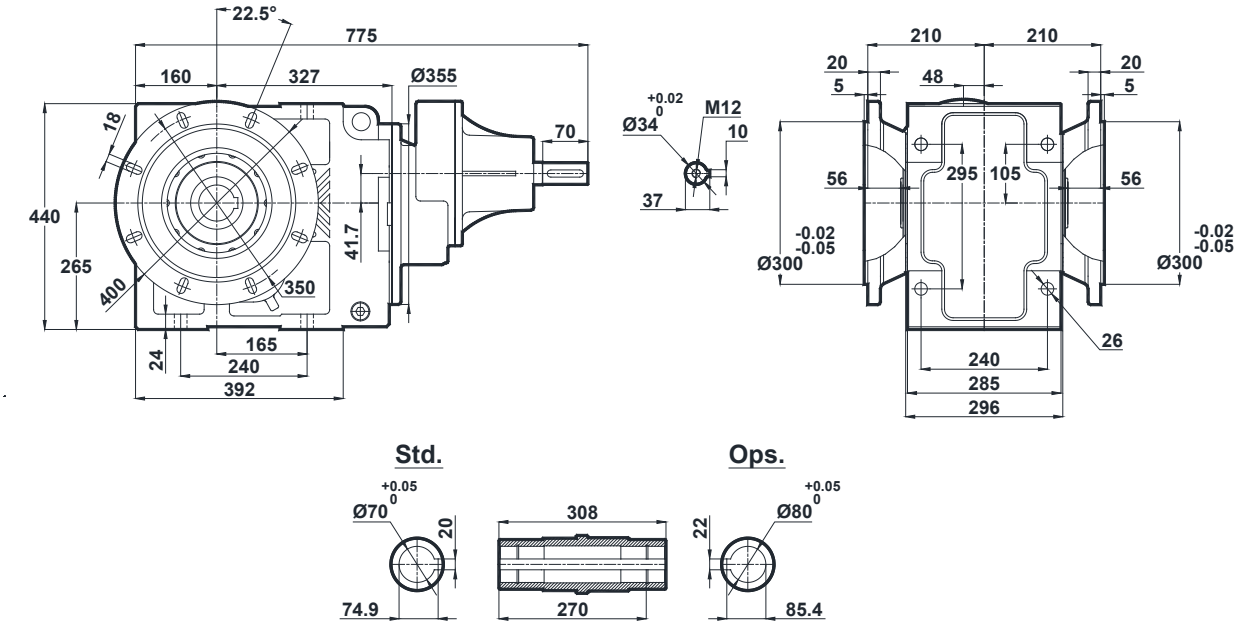
KT674.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

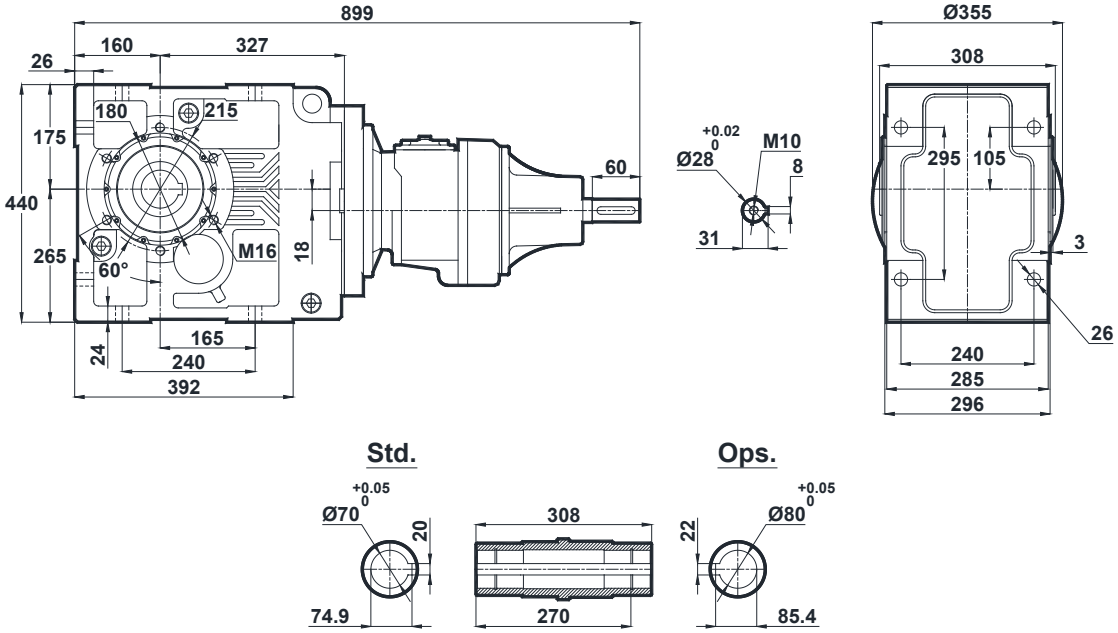
KT674.08



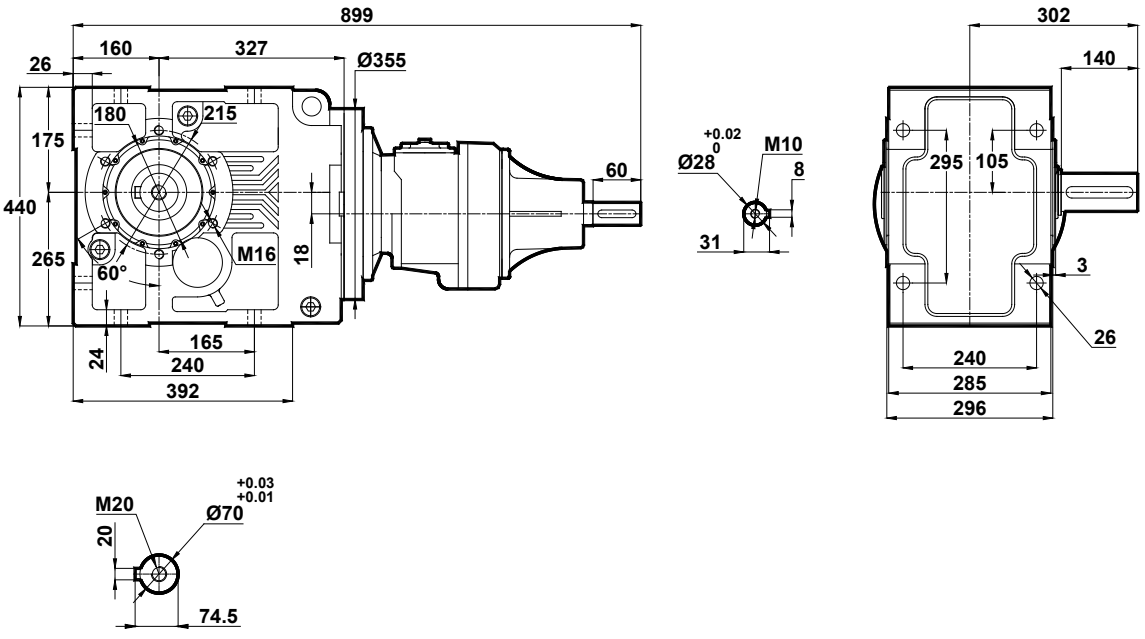
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT675.00
KT676.00

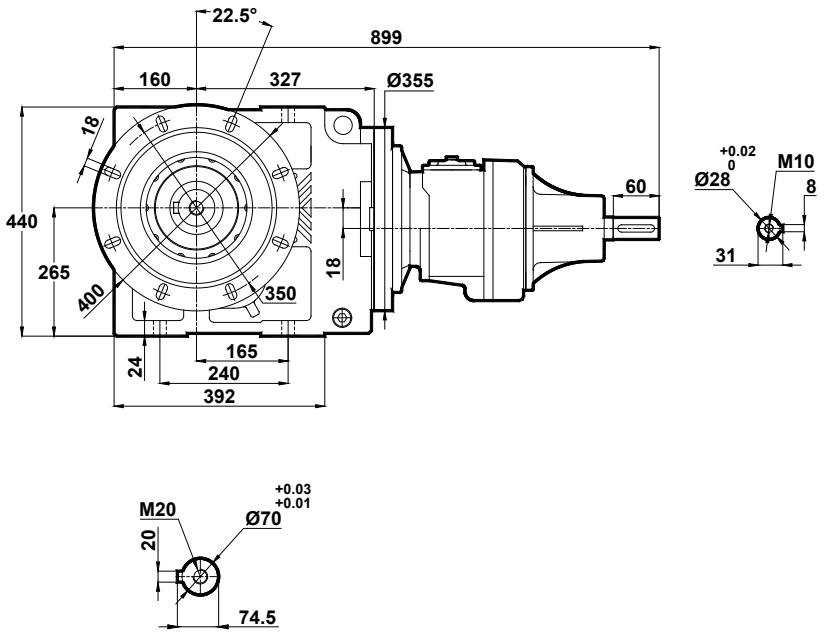


KT675.01
KT676.01



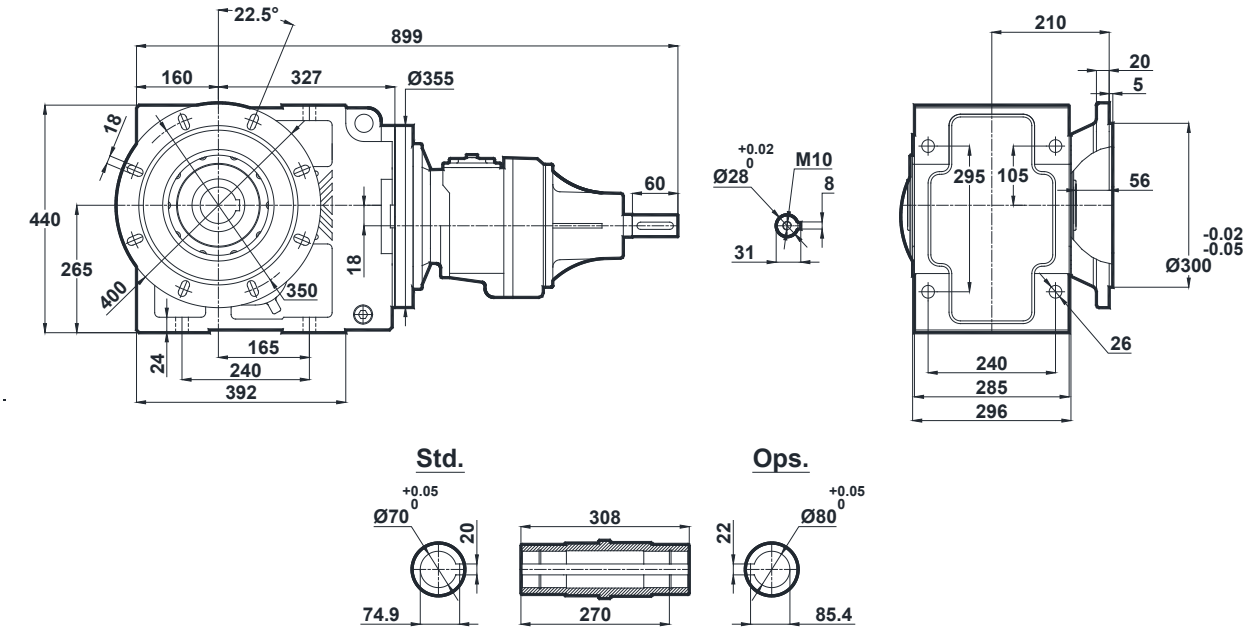
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT675.02
KT676.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

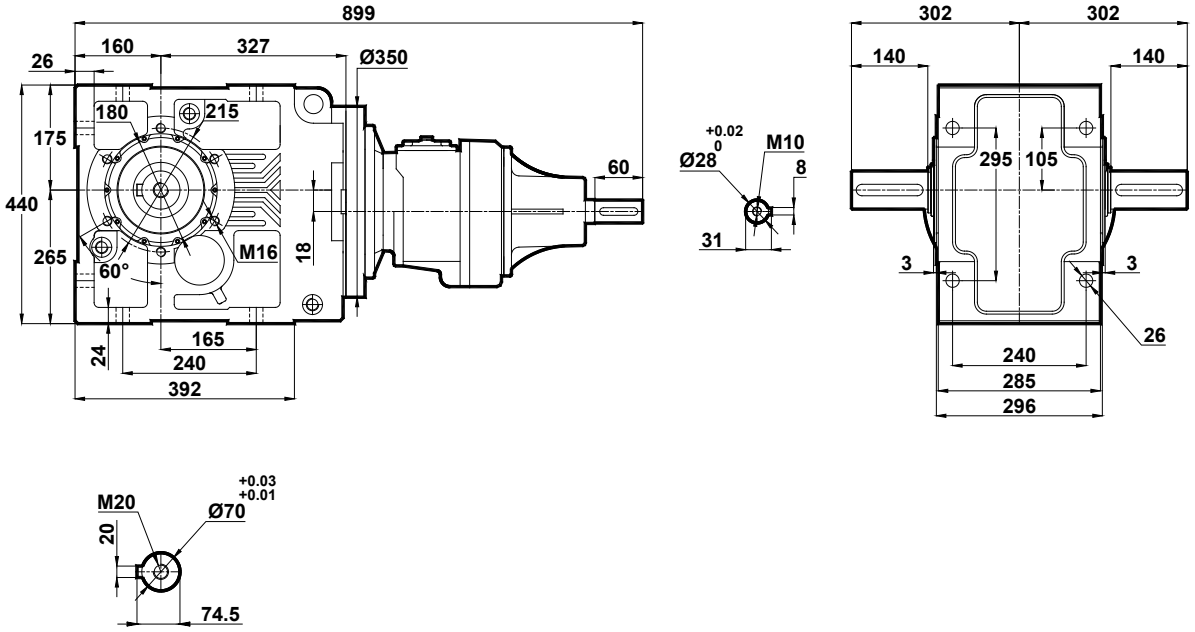
KT675.03
KT676.03



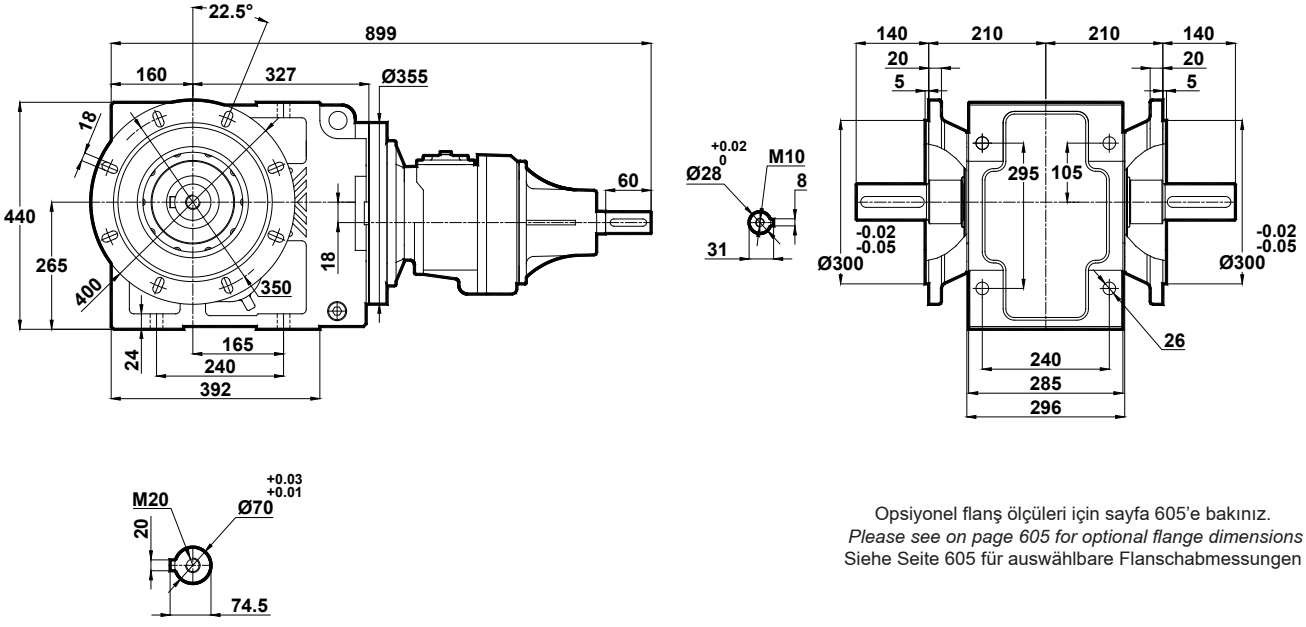
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT675.04
KT676.04



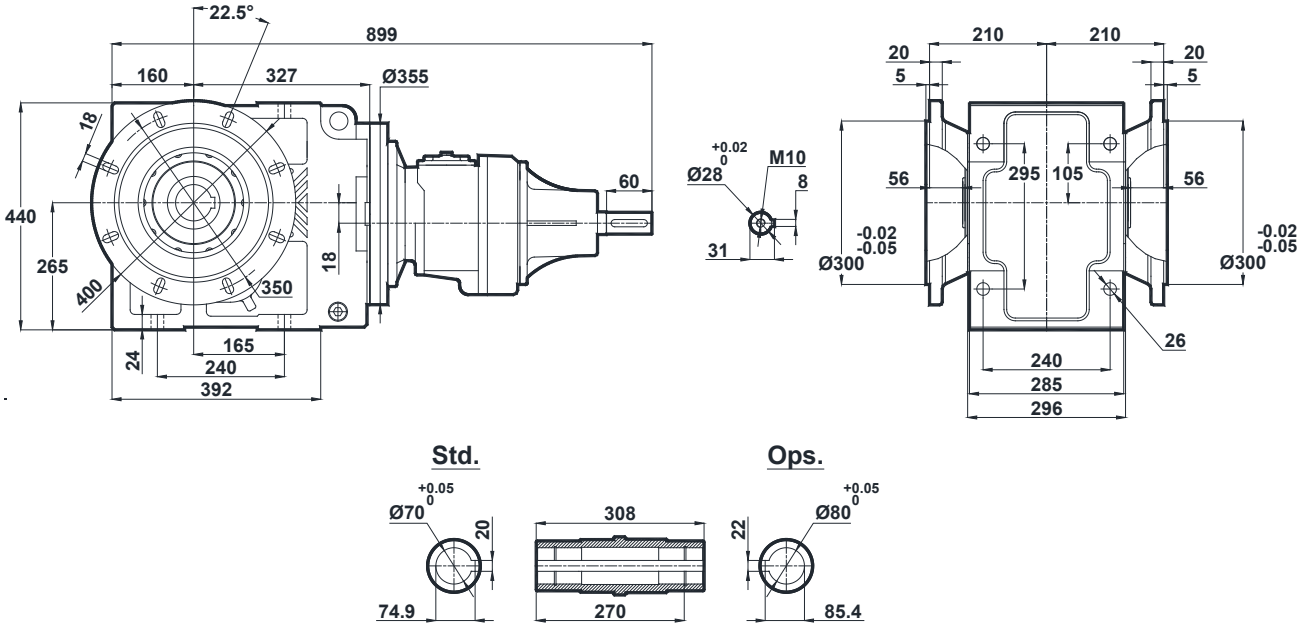
KT675.05
KT676.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

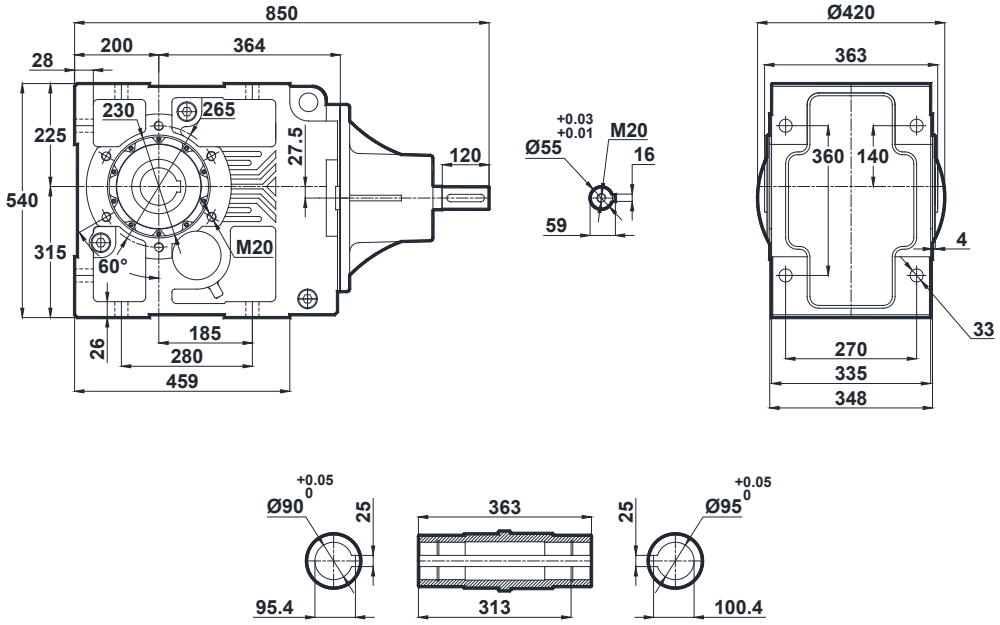
KT675.08
KT676.08



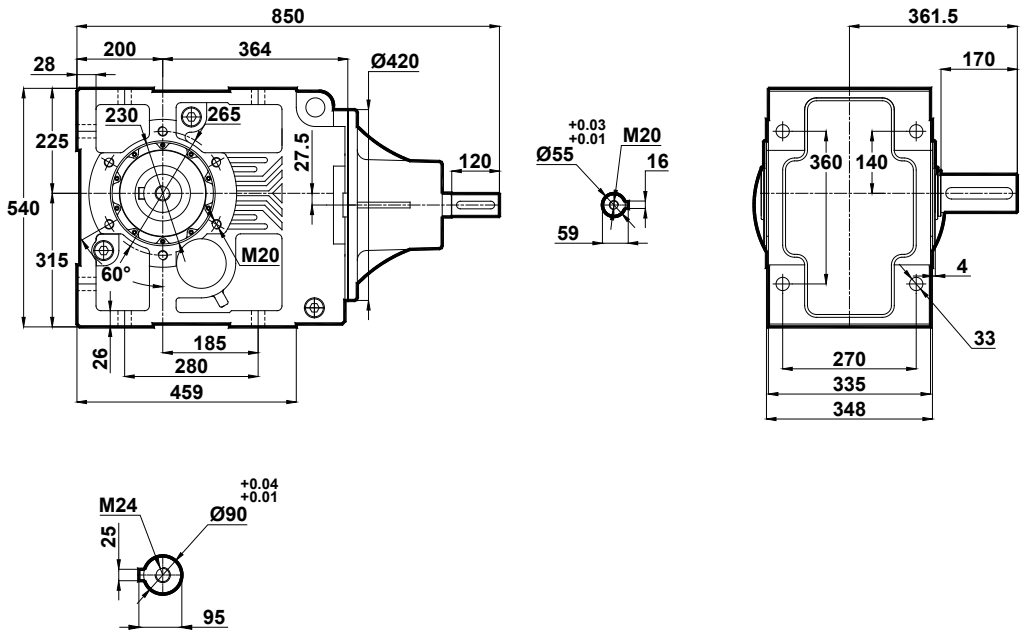
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT773.00

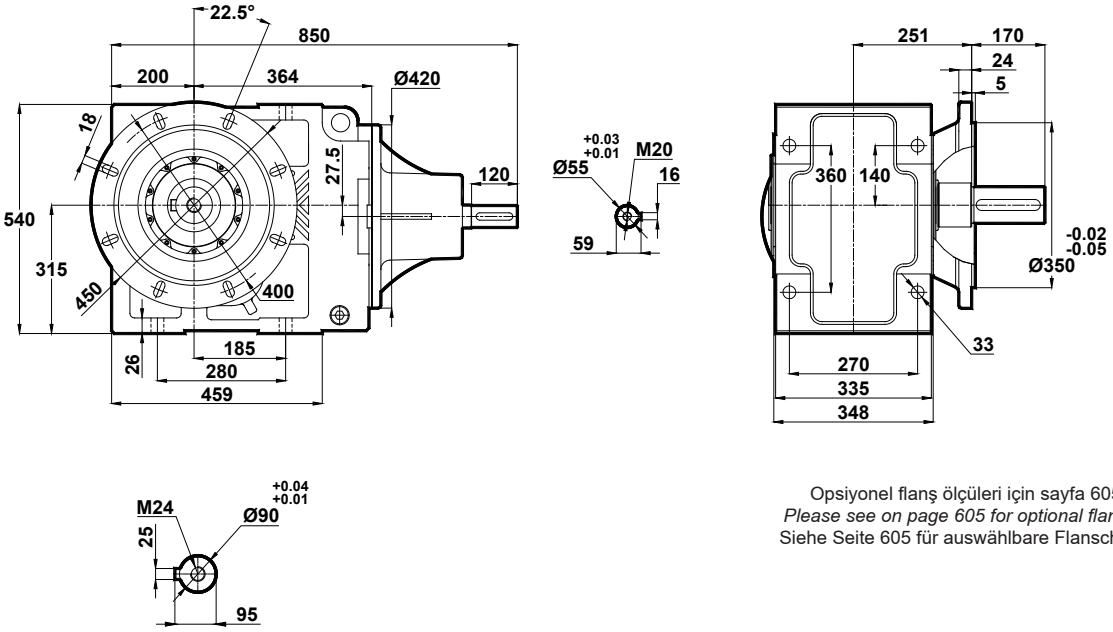


KT773.01



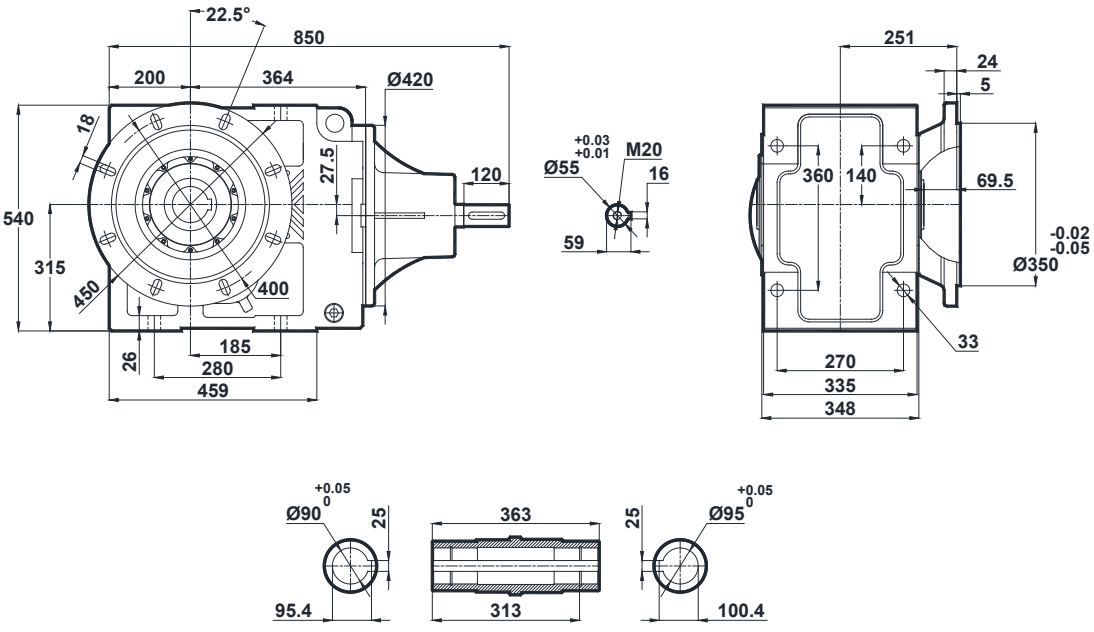
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT773.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

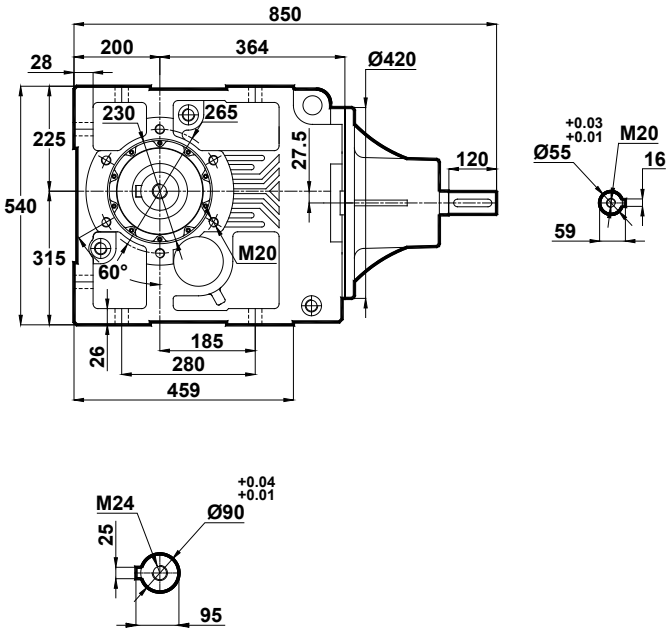
KT773.03



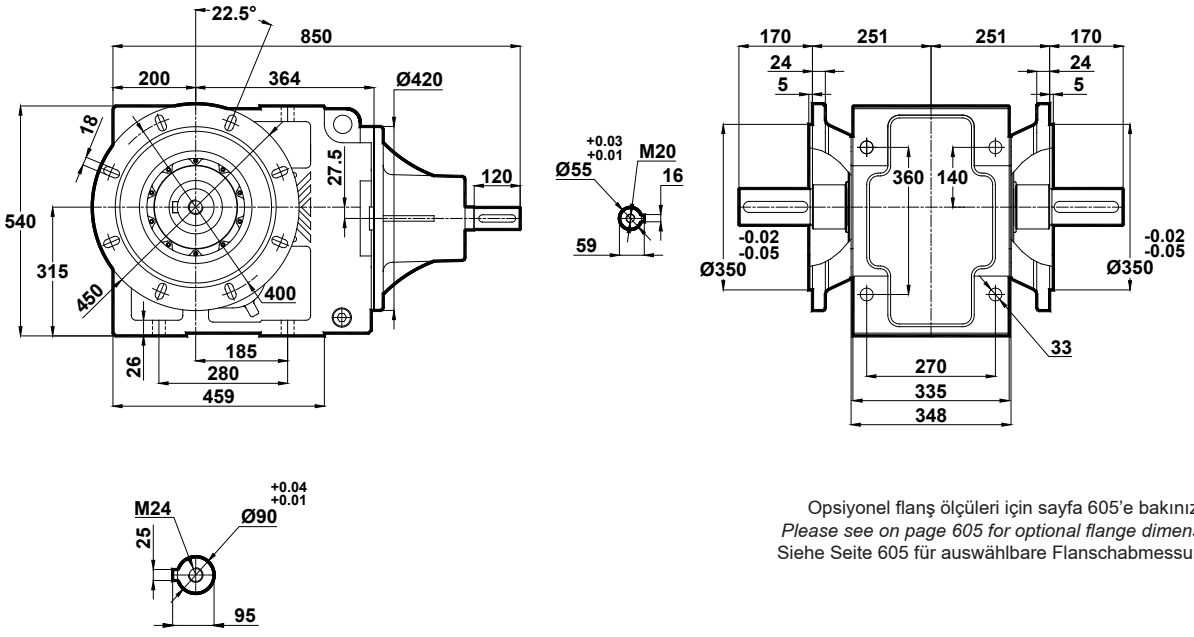
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT773.04



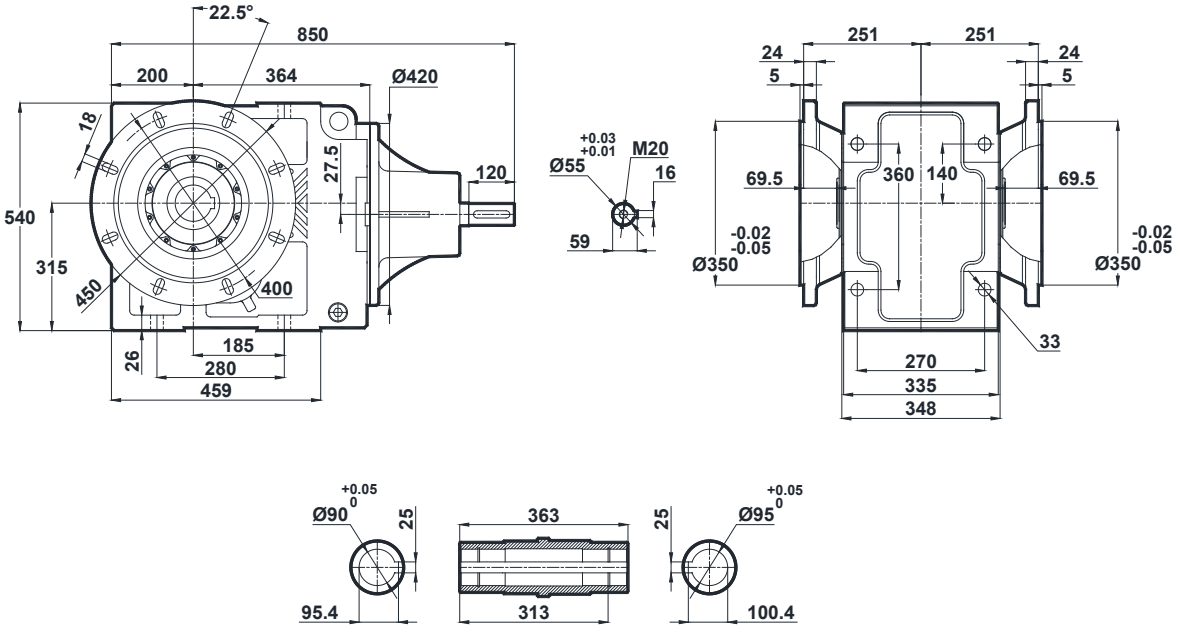
KT773.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

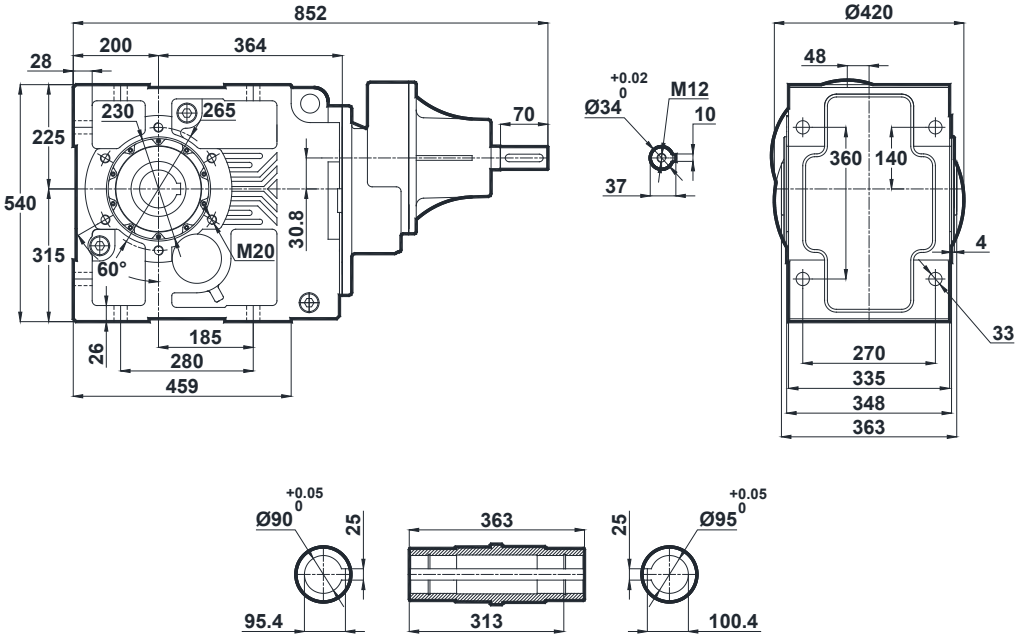
KT773.08



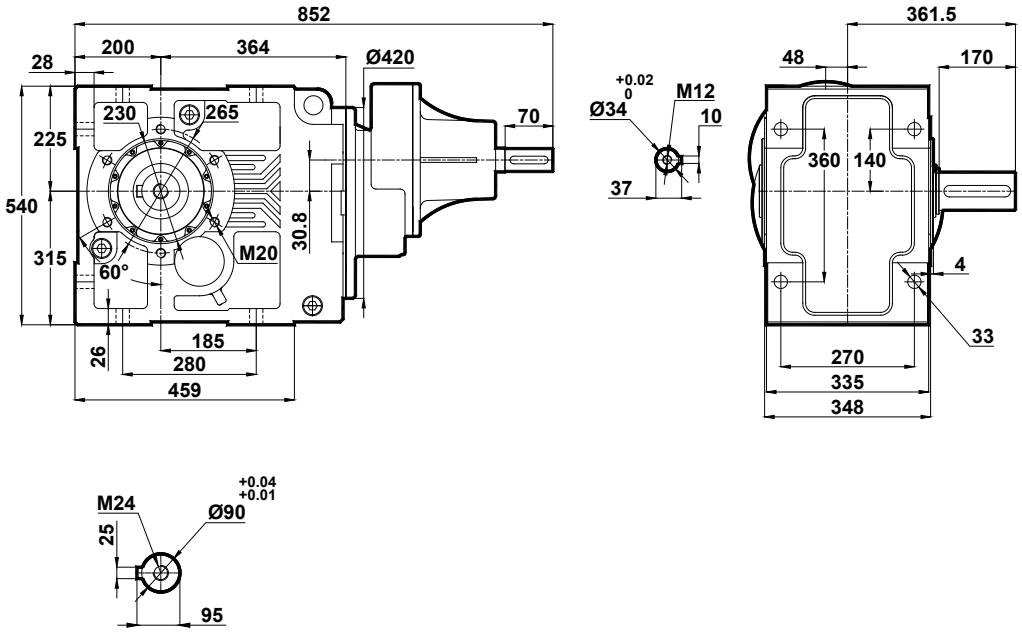
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT774.00

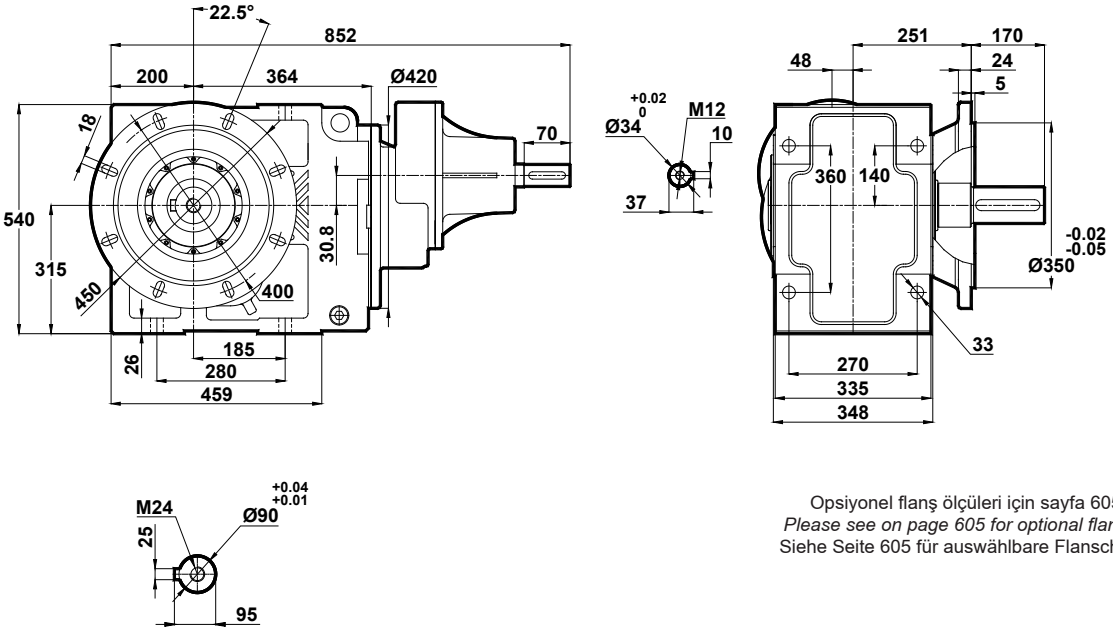


KT774.01



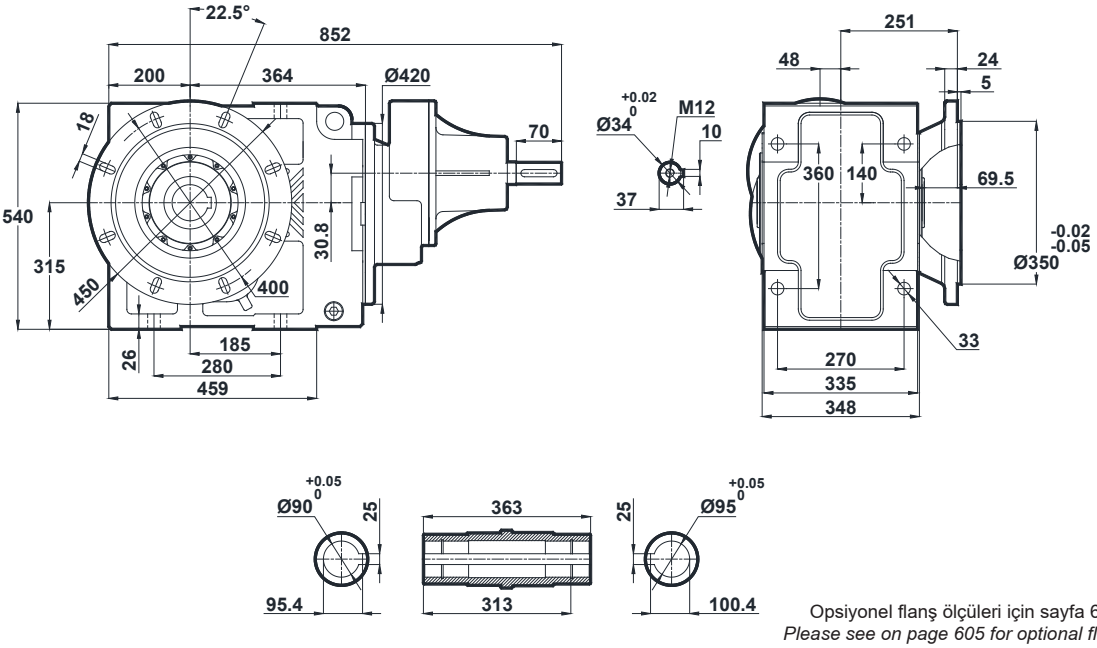
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT774.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

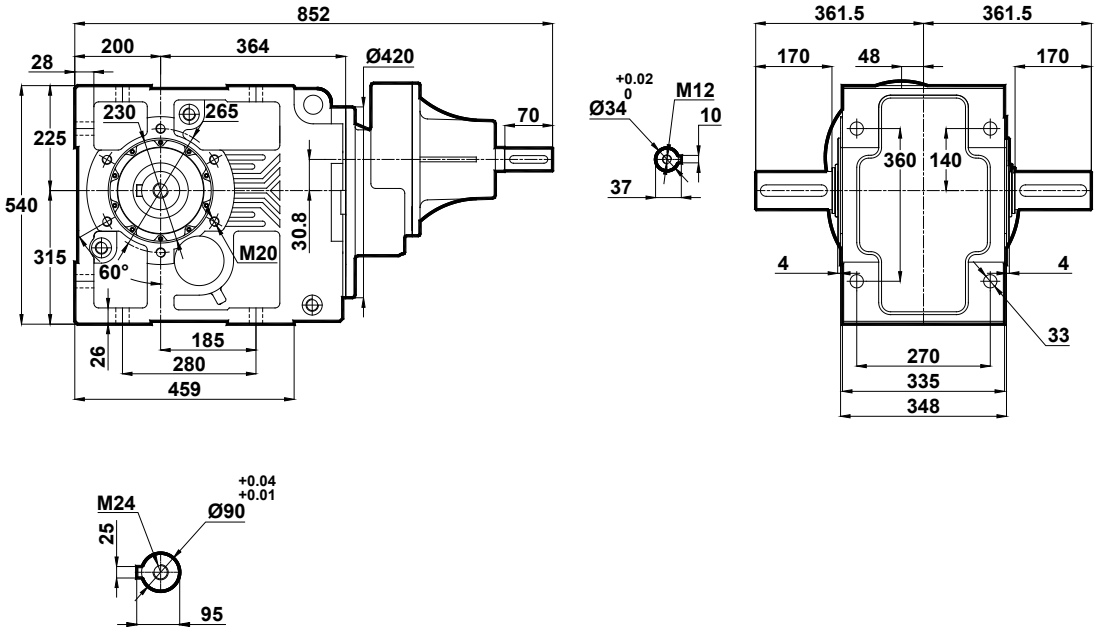
KT774.03



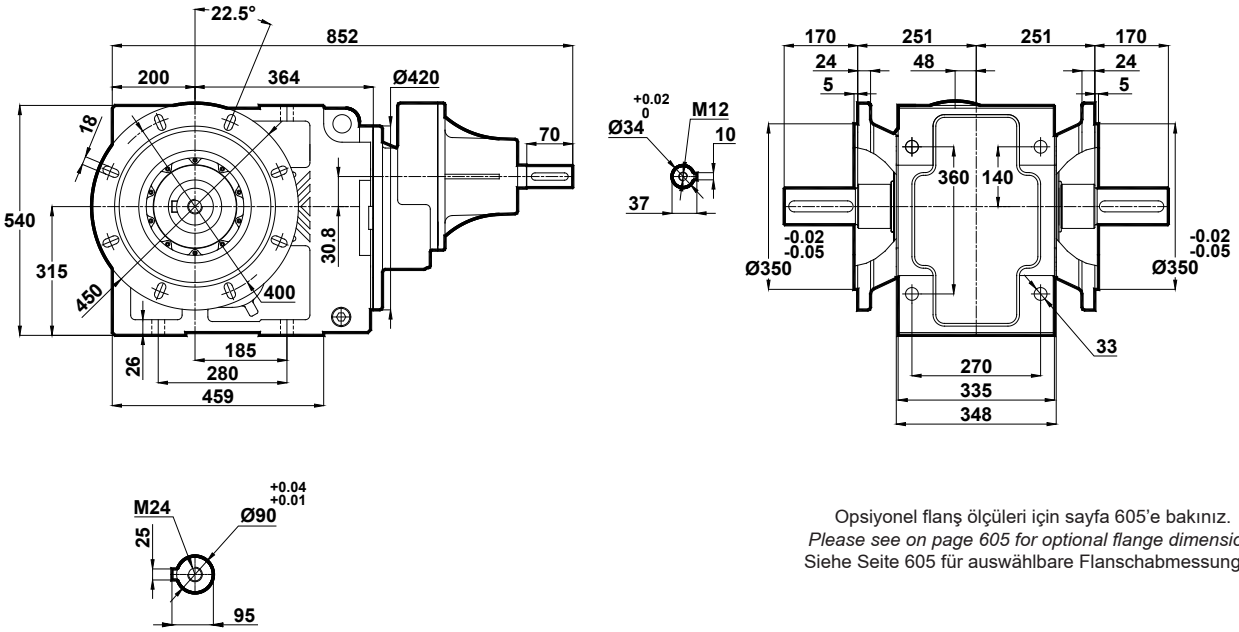
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT774.04



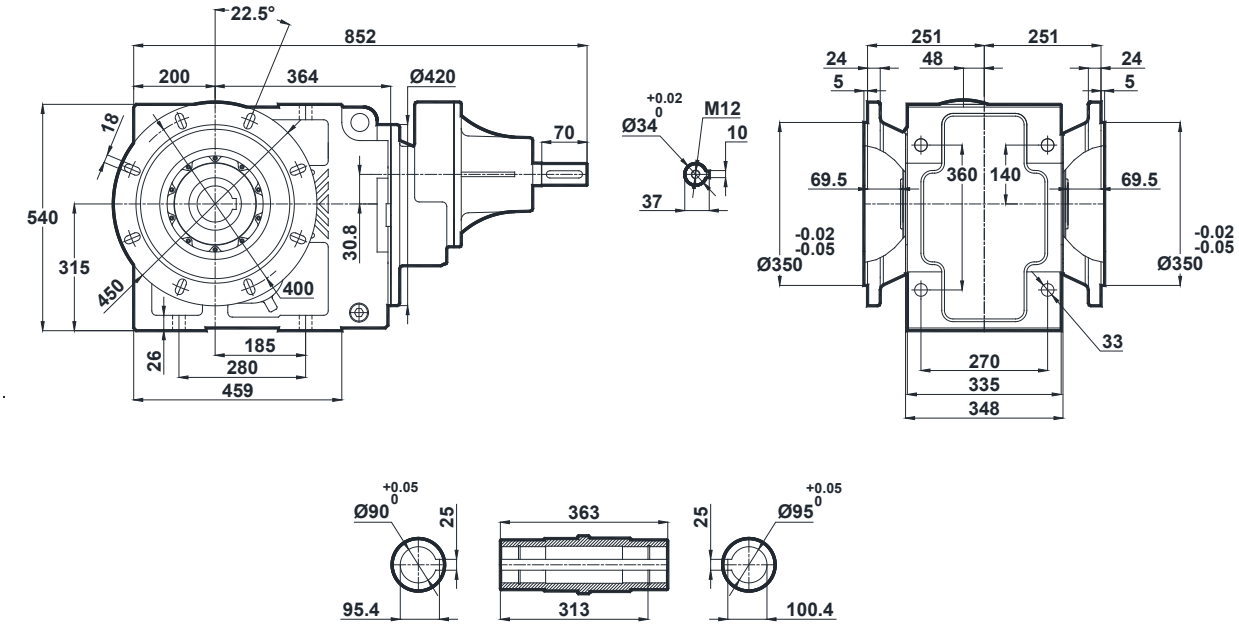
KT774.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

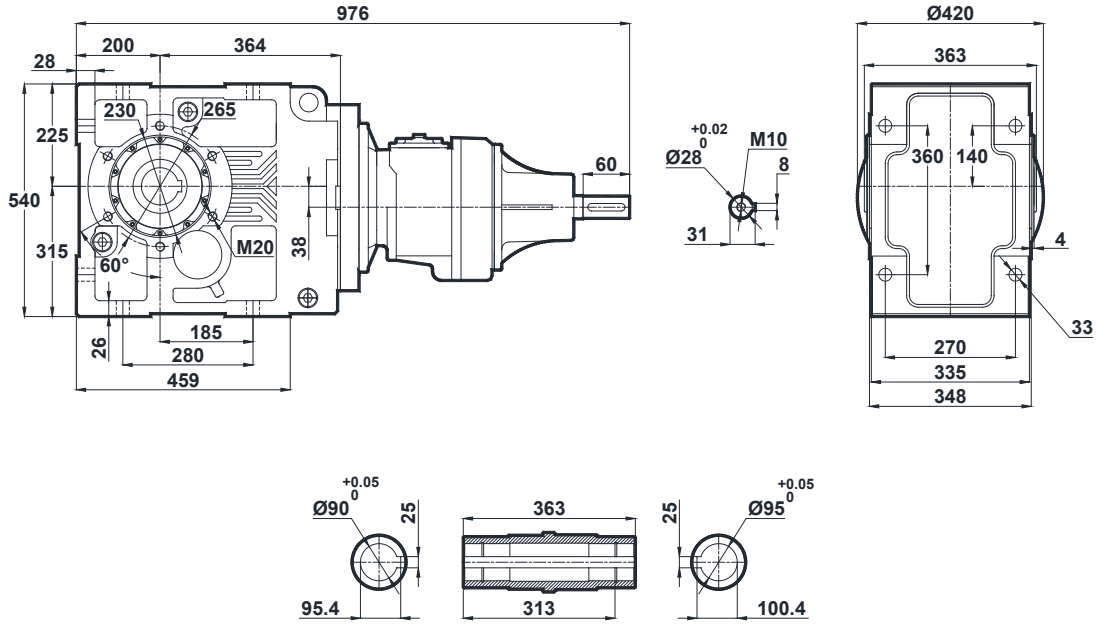
KT774.08



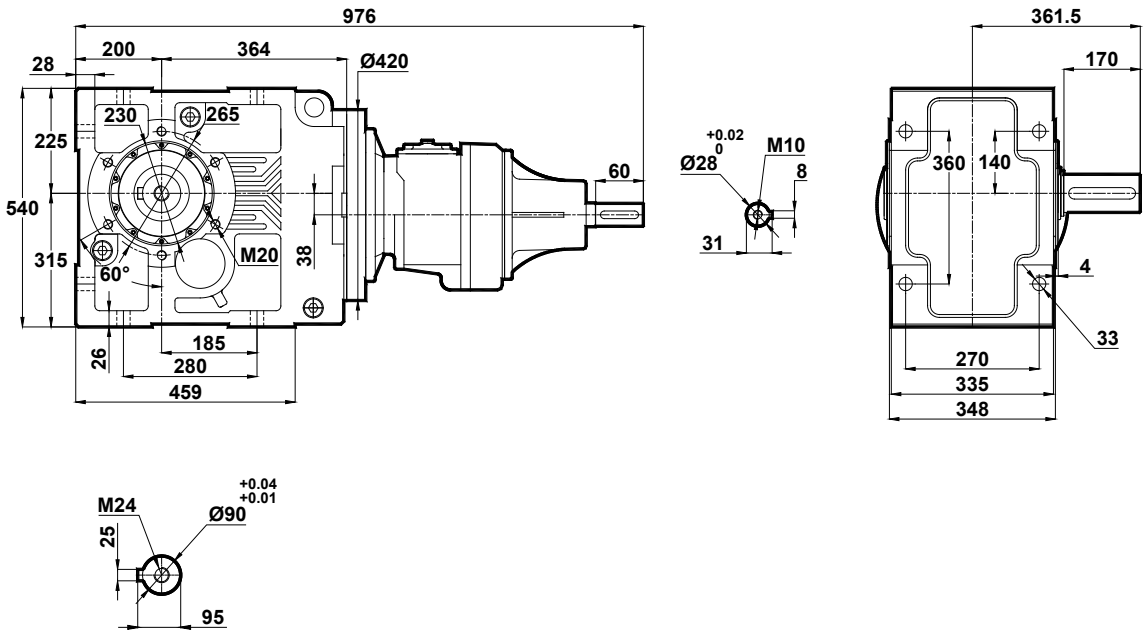
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT775.00
KT776.00

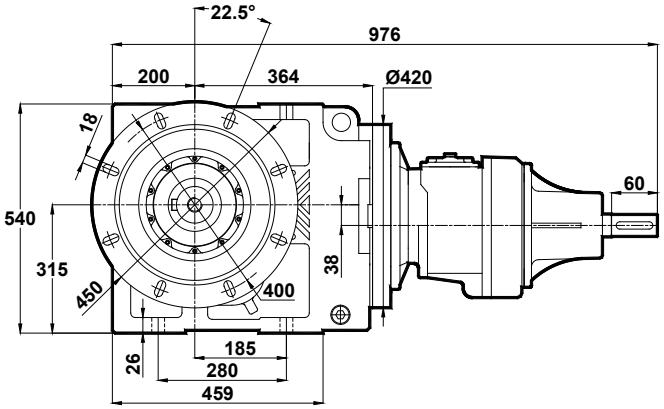


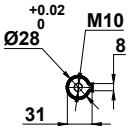
KT775.01
KT776.01

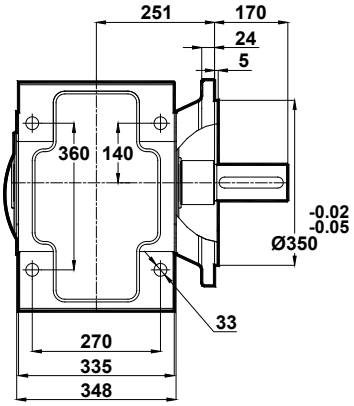


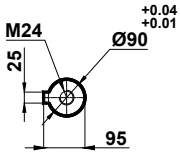
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT775.02
KT776.02



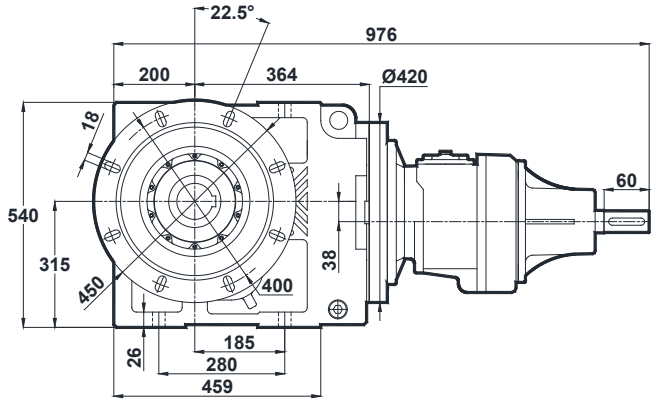


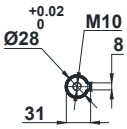


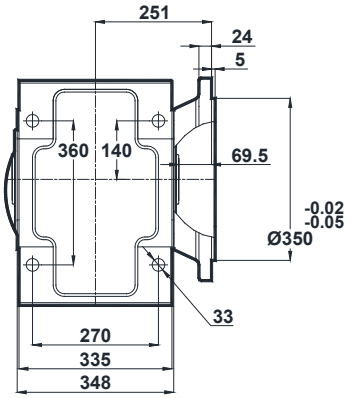


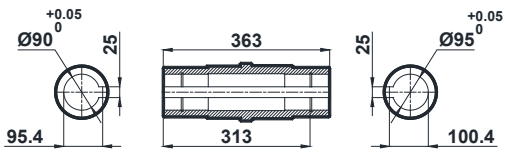
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

KT775.03
KT776.03





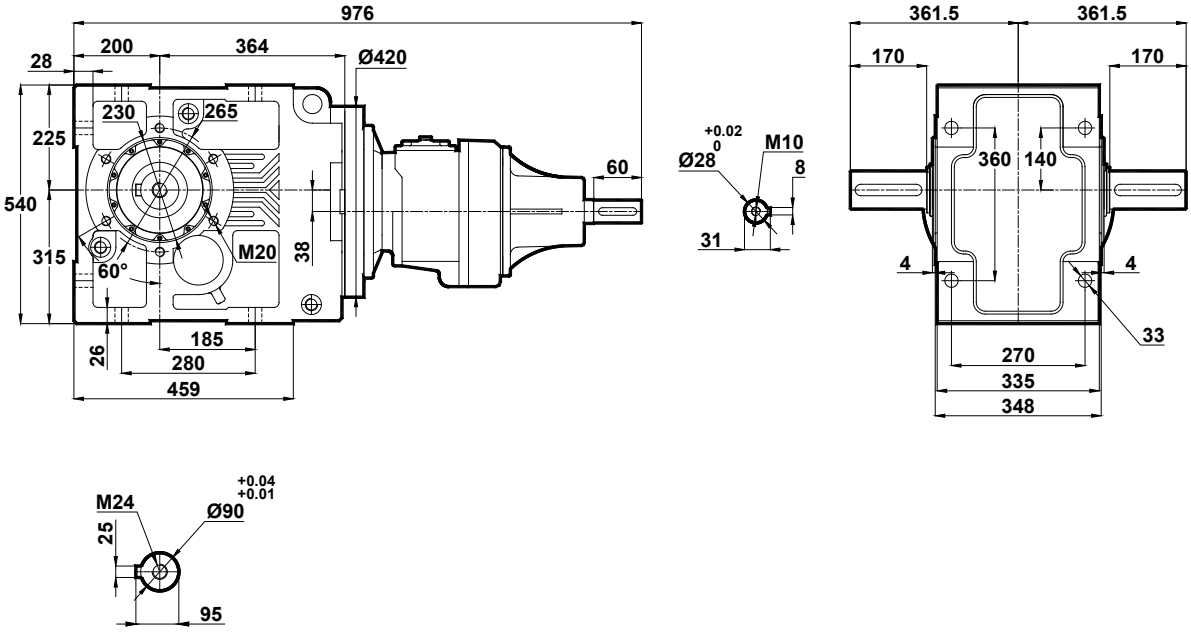




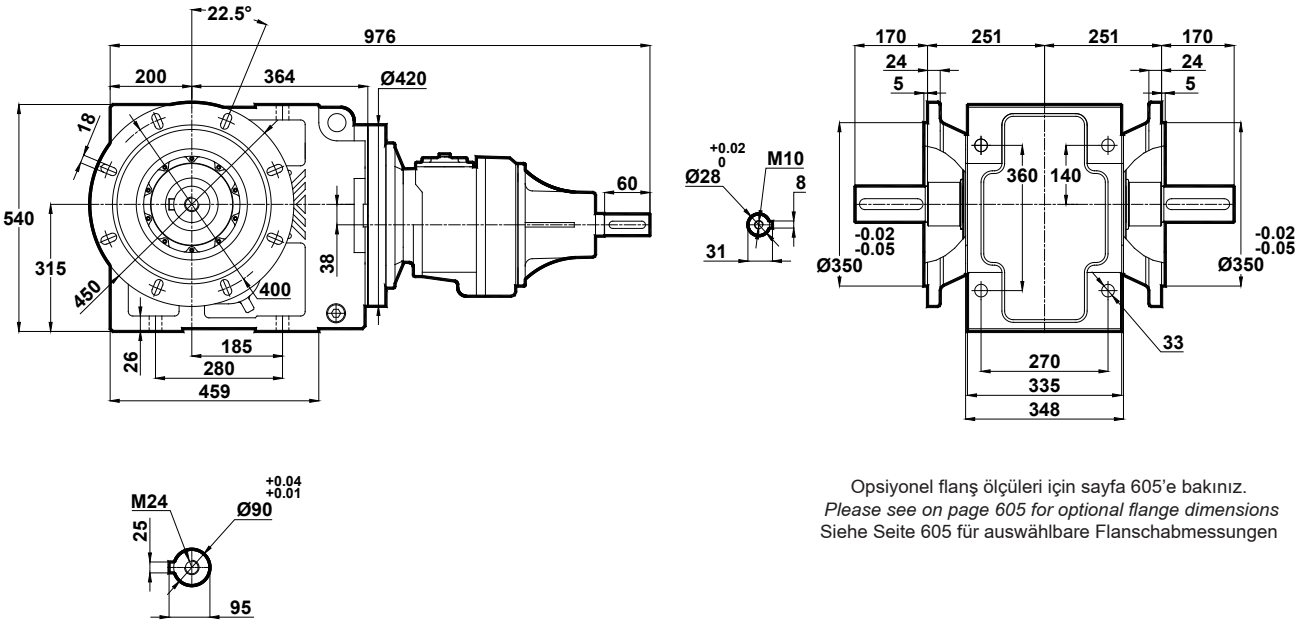
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT775.04
KT776.04



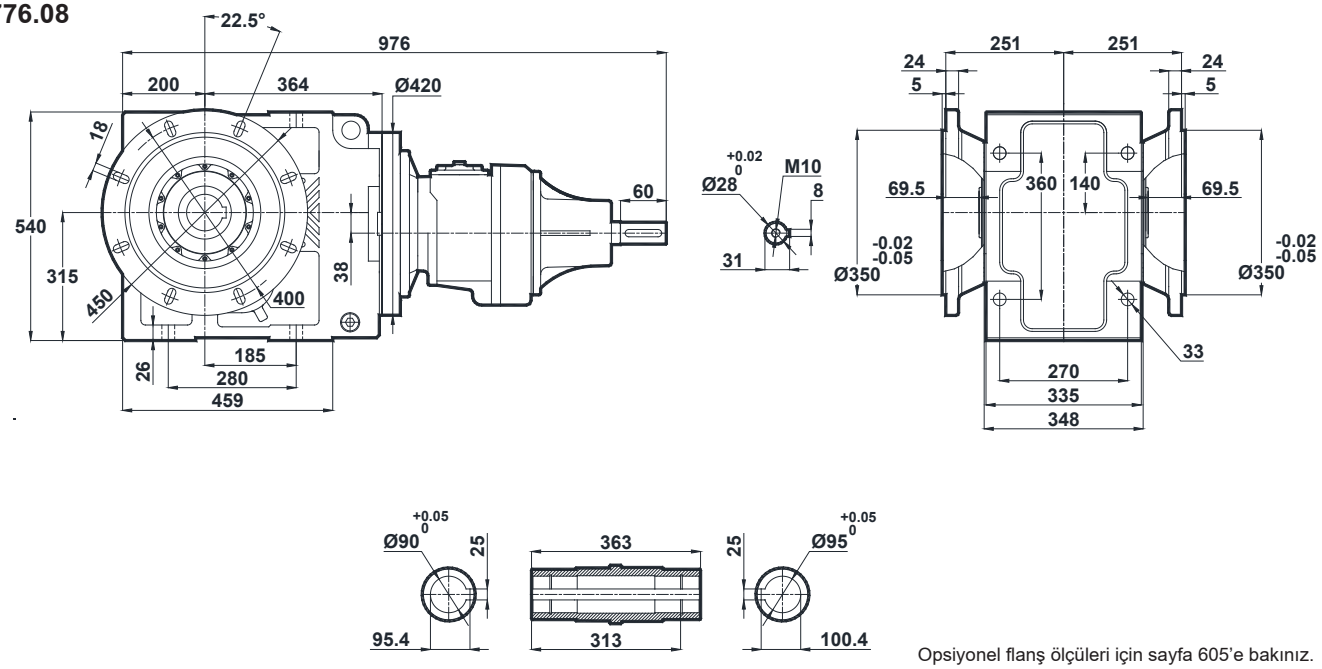
KT775.05
KT776.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

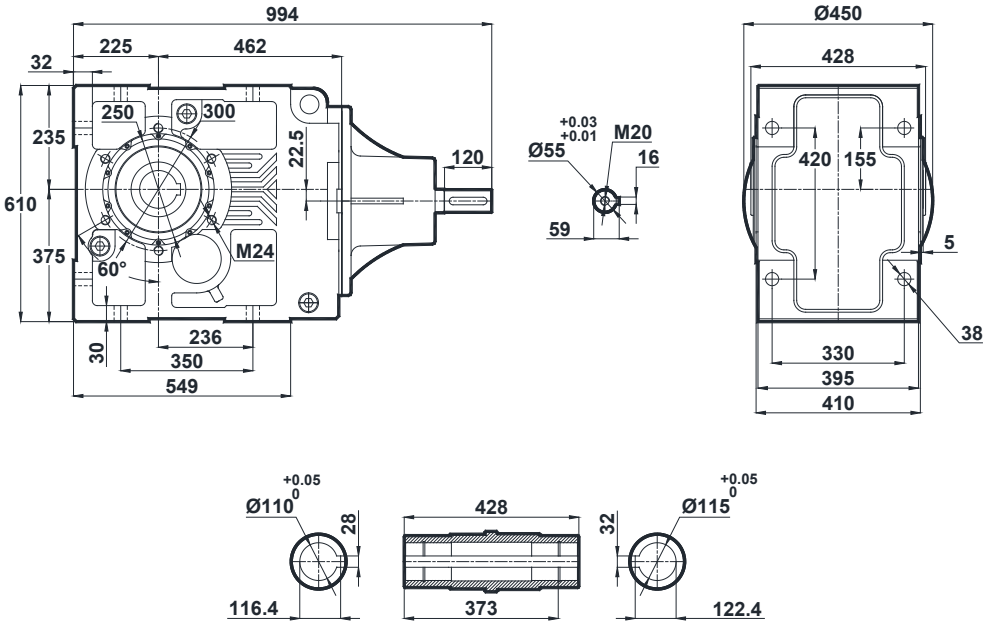
KT775.08
KT776.08



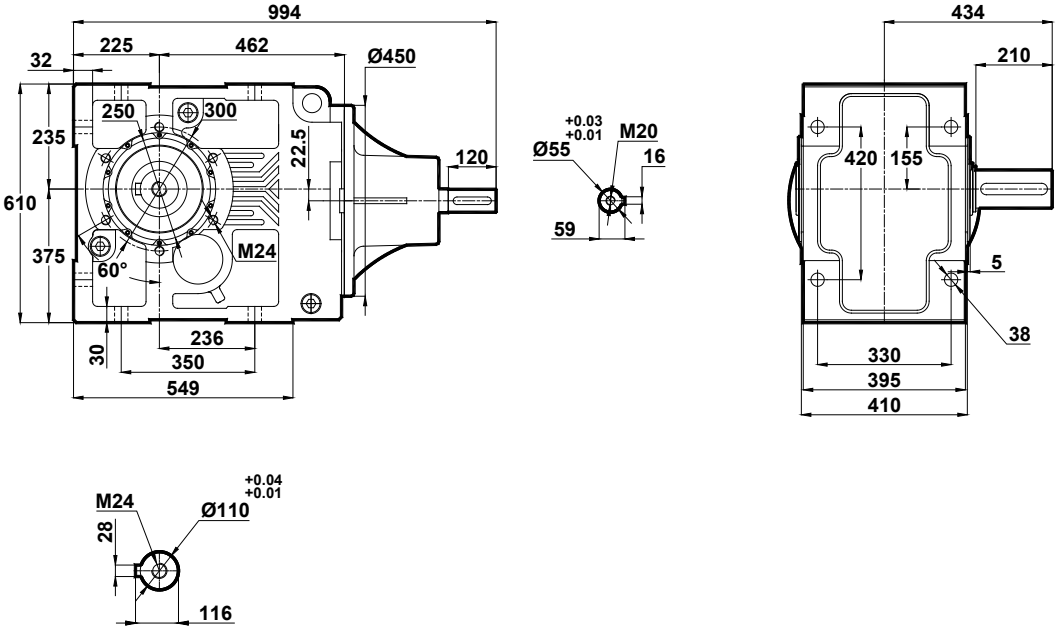
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT873.00

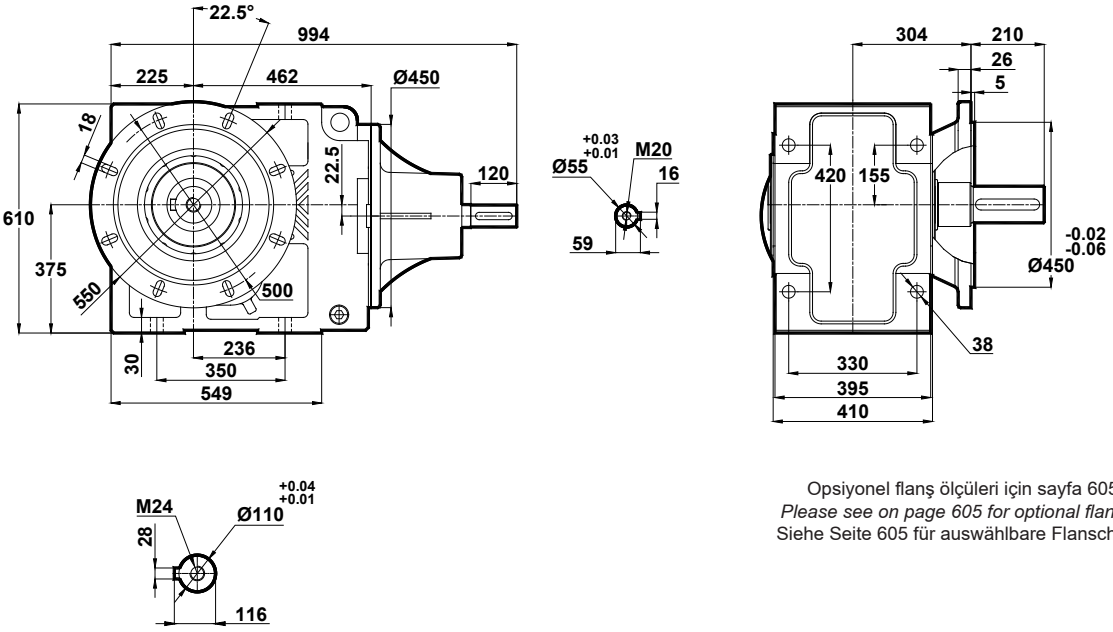


KT873.01



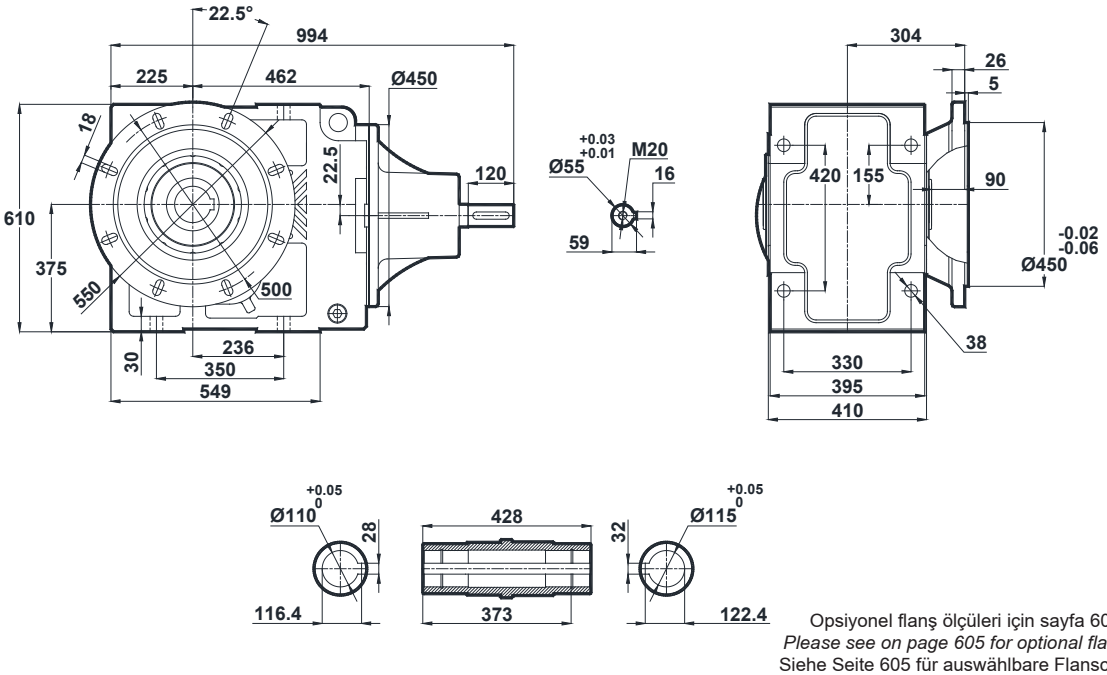
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT873.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

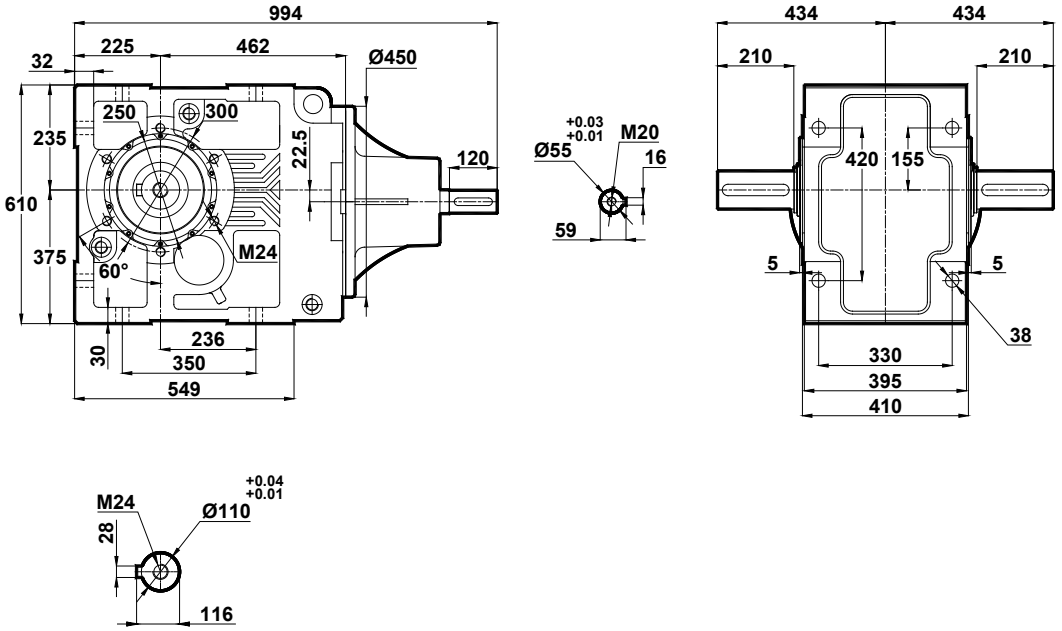
KT873.03



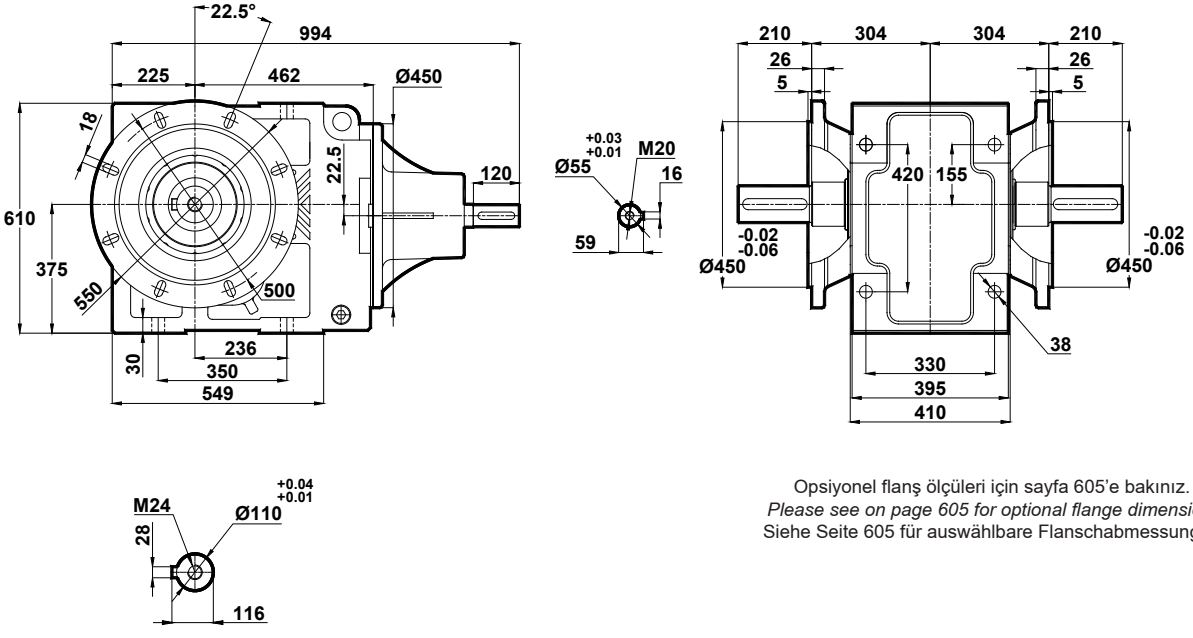
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT873.04



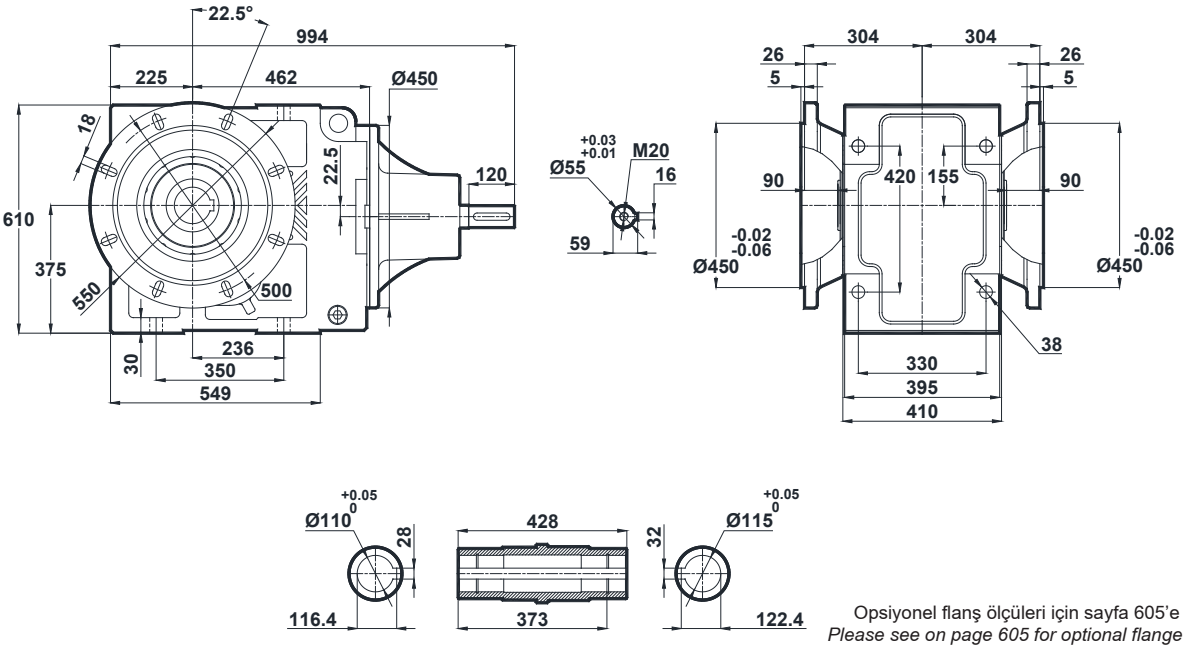
KT873.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

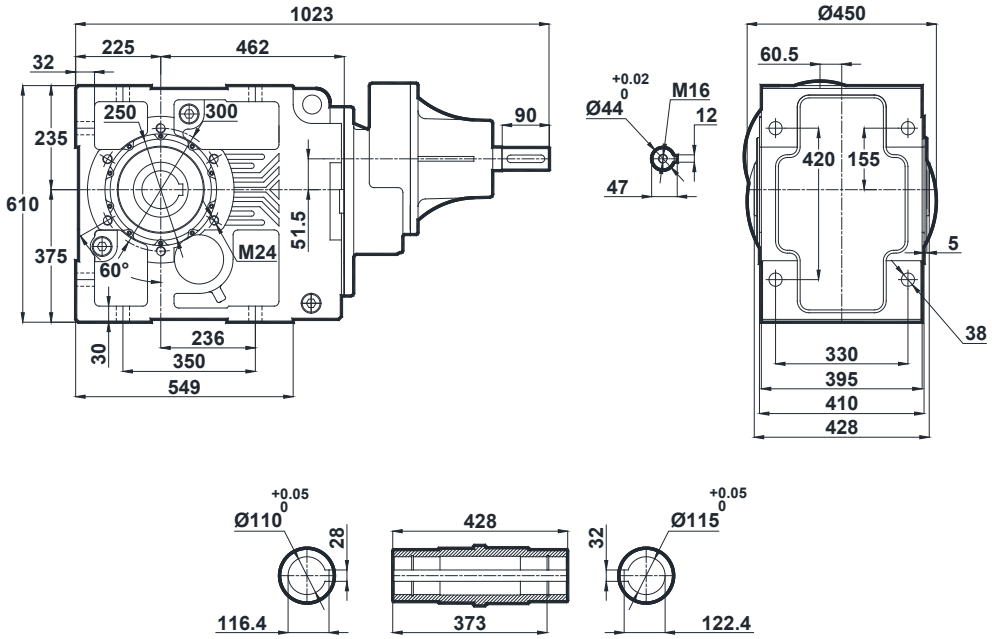
KT873.08



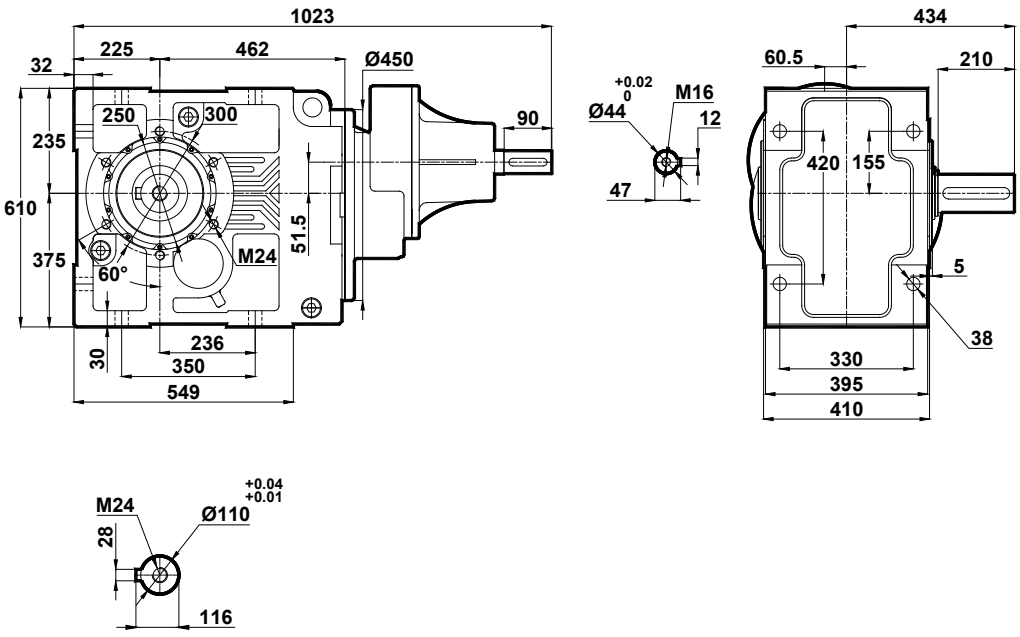
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT874.00

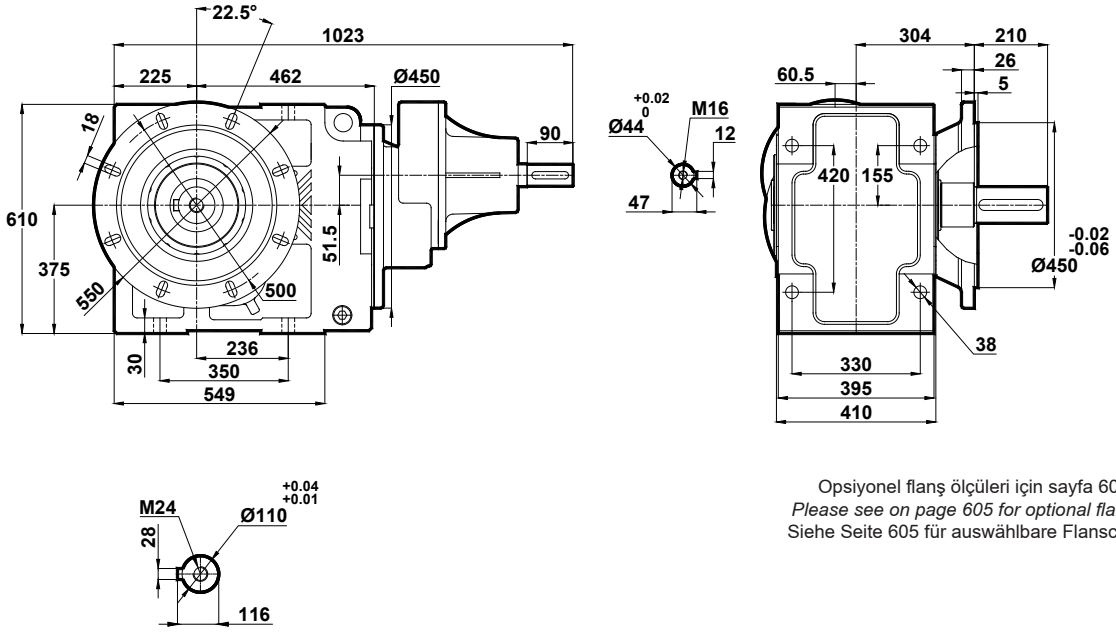


KT874.01



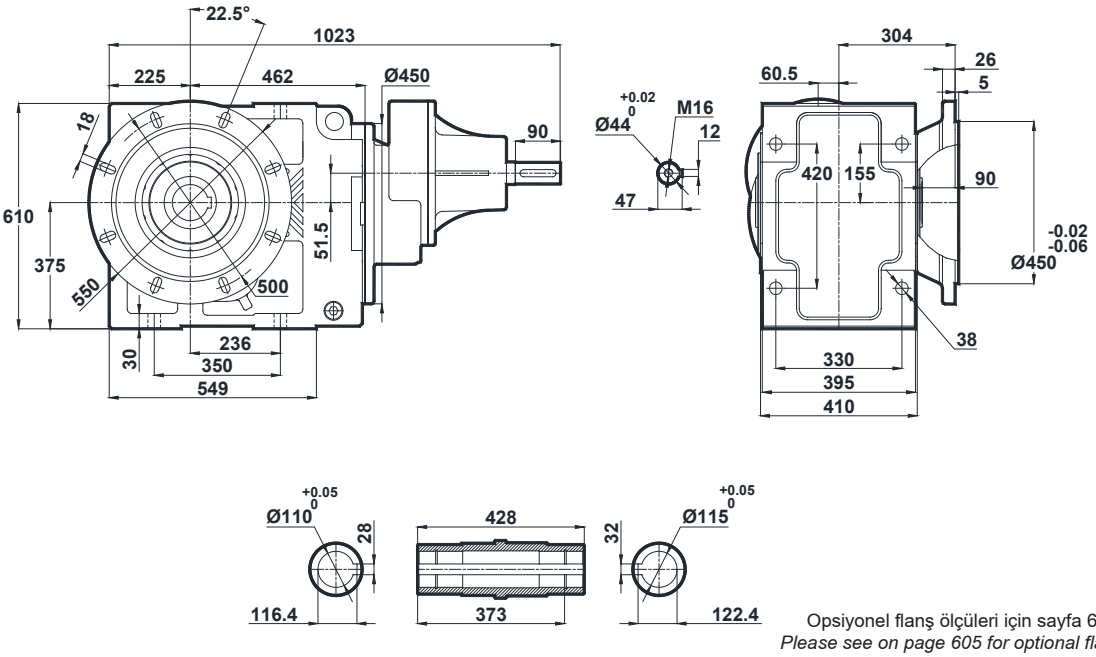
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT874.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

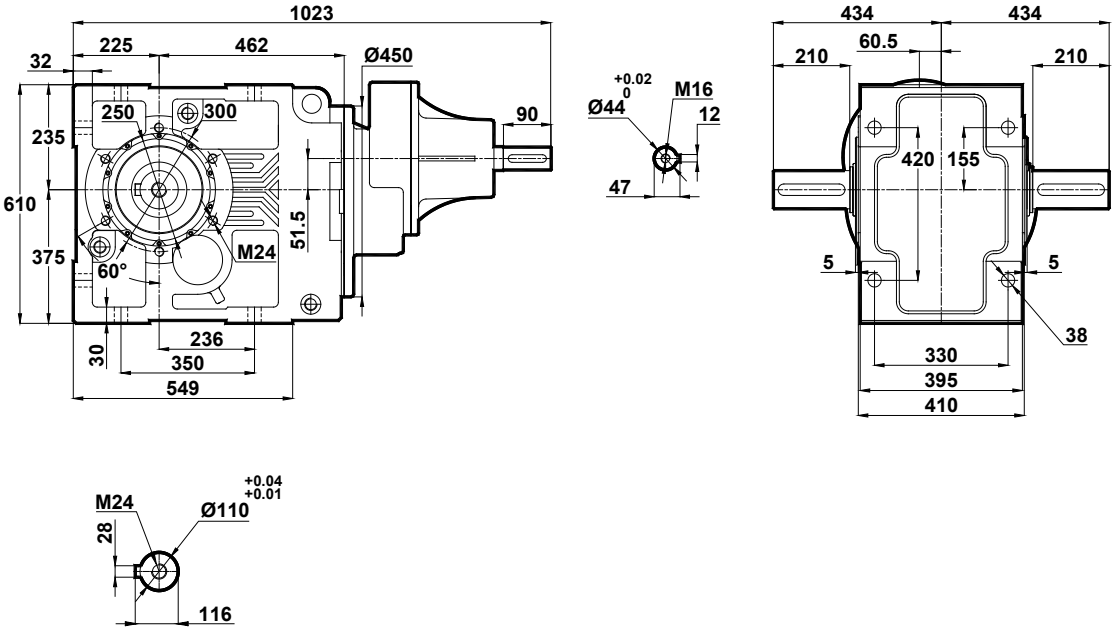
KT874.03



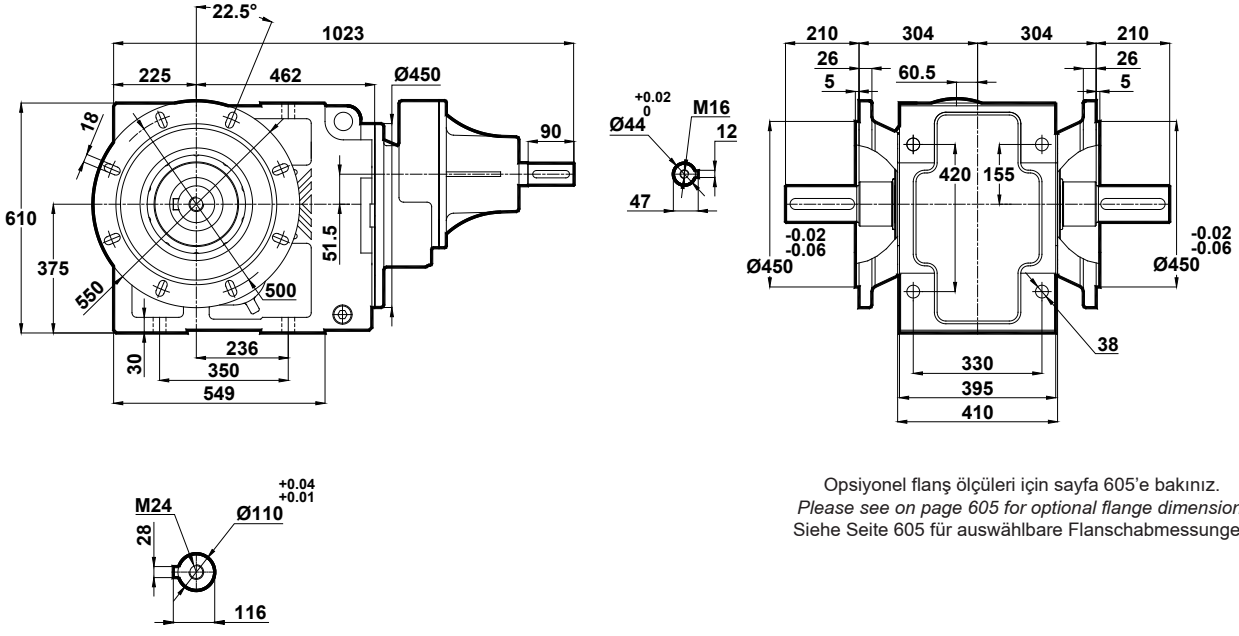
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT874.04



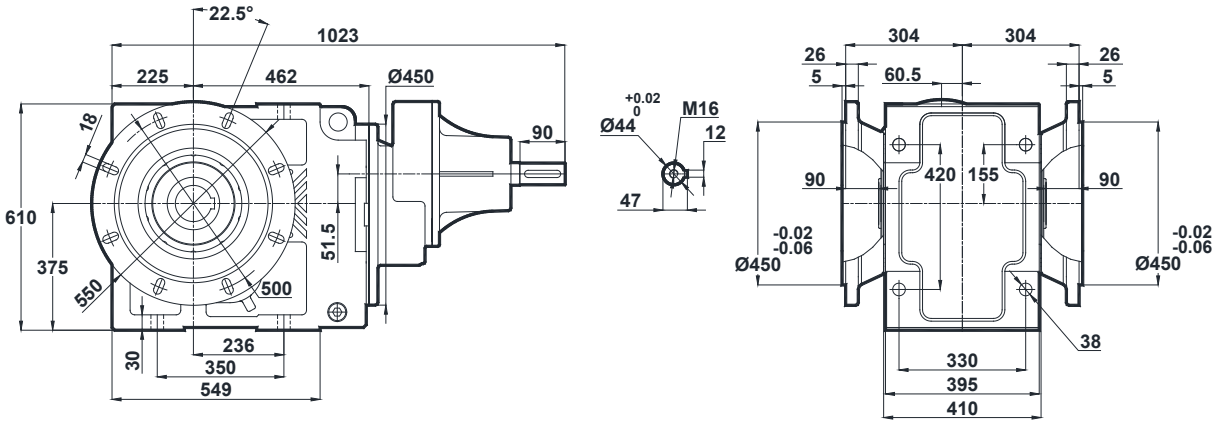
KT874.05

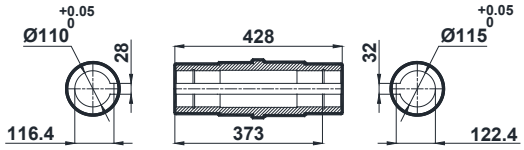


Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT874.08

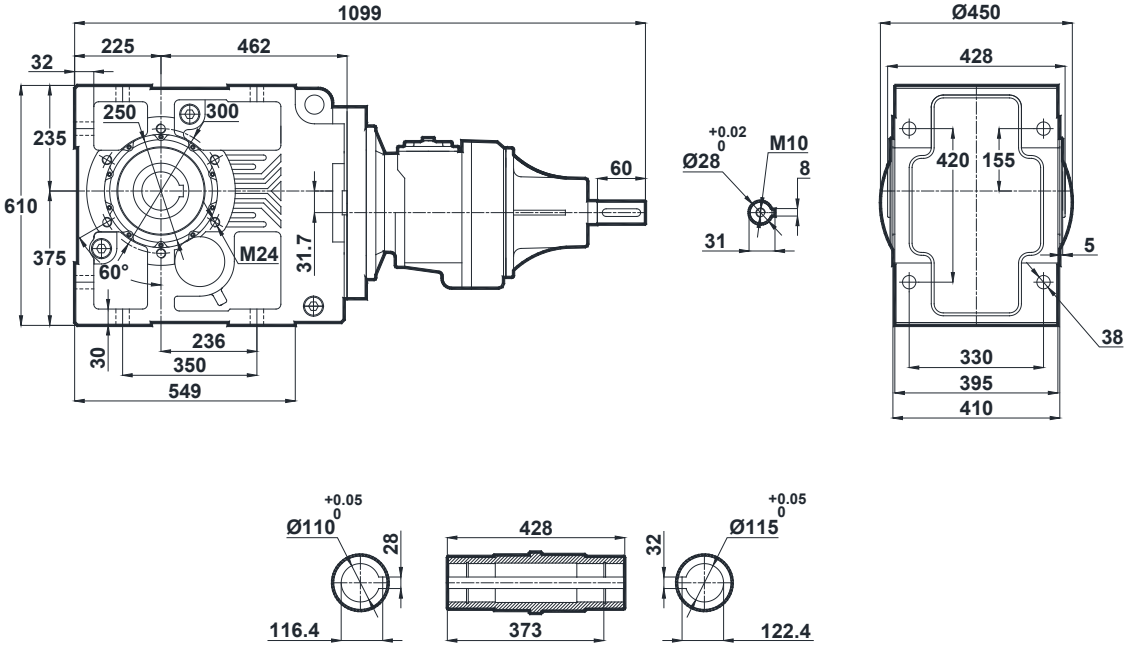




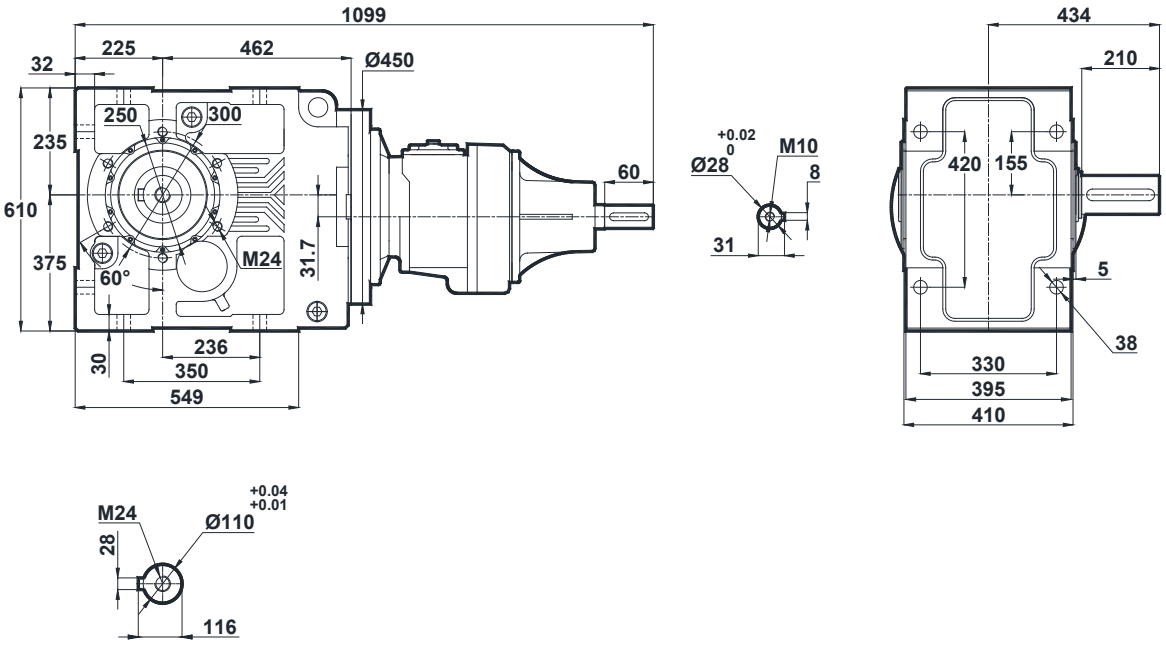
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT875.00
KT876.00

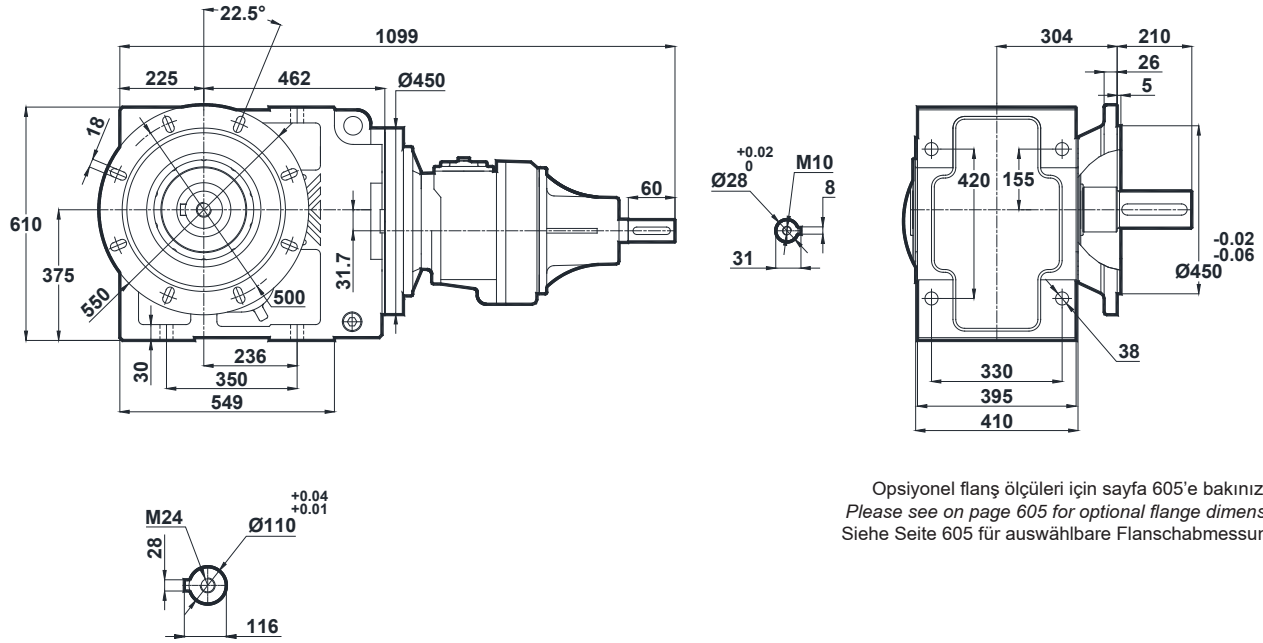


KT875.01
KT876.01



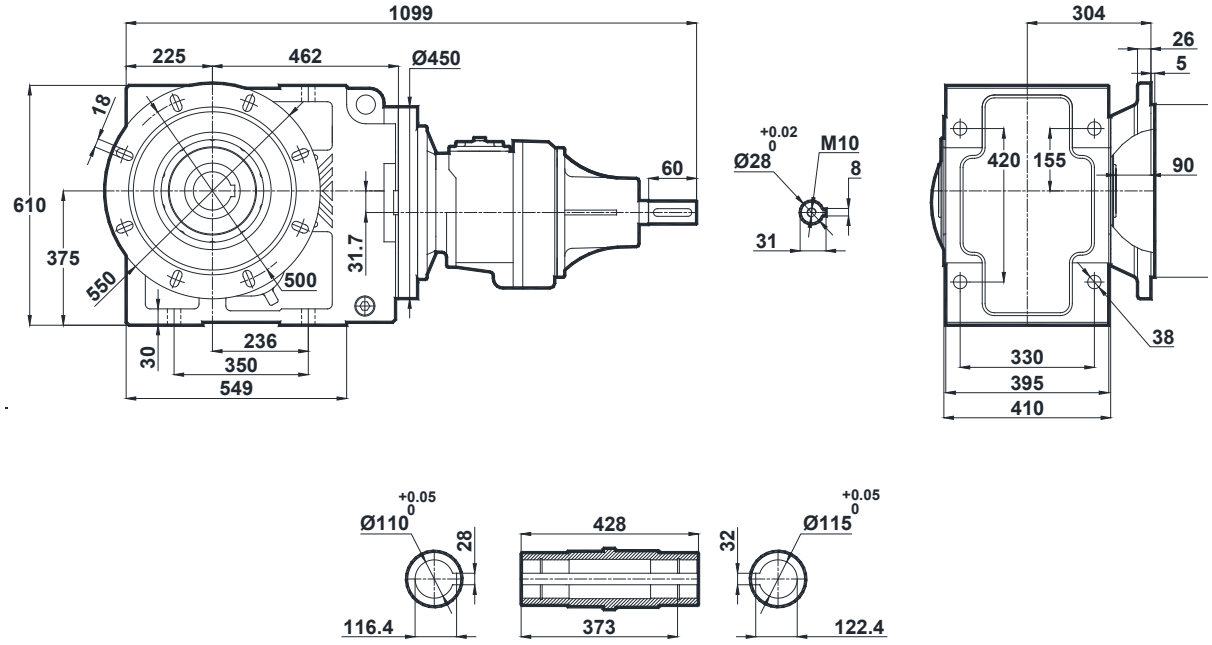
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT875.02
KT876.02



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

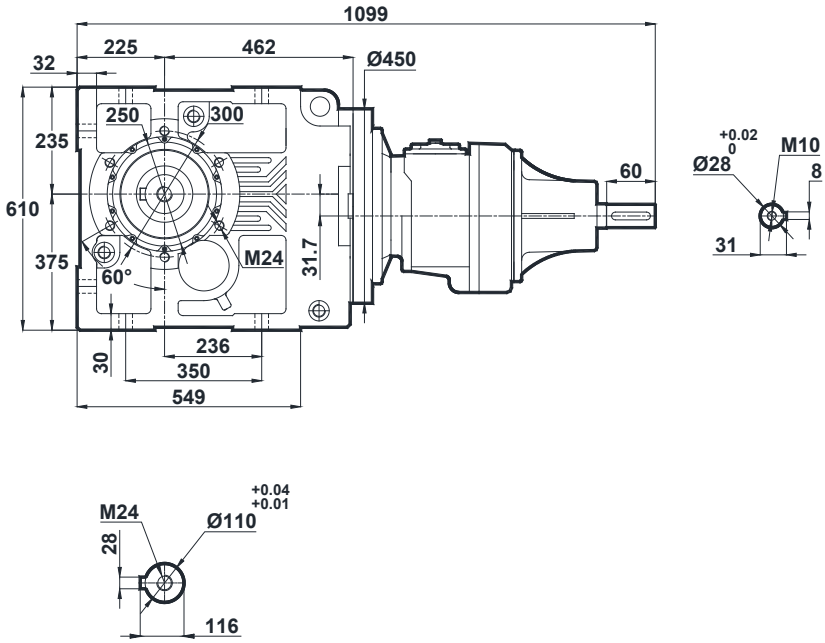
KT875.03
KT876.03



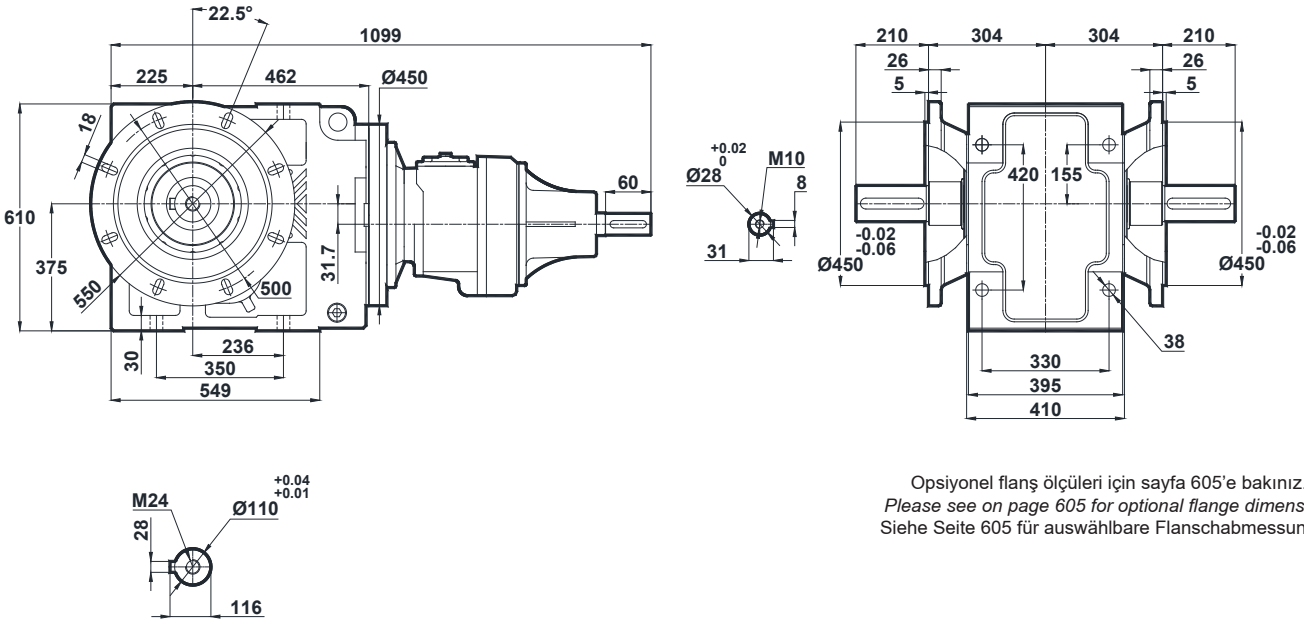
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT875.04
KT876.04



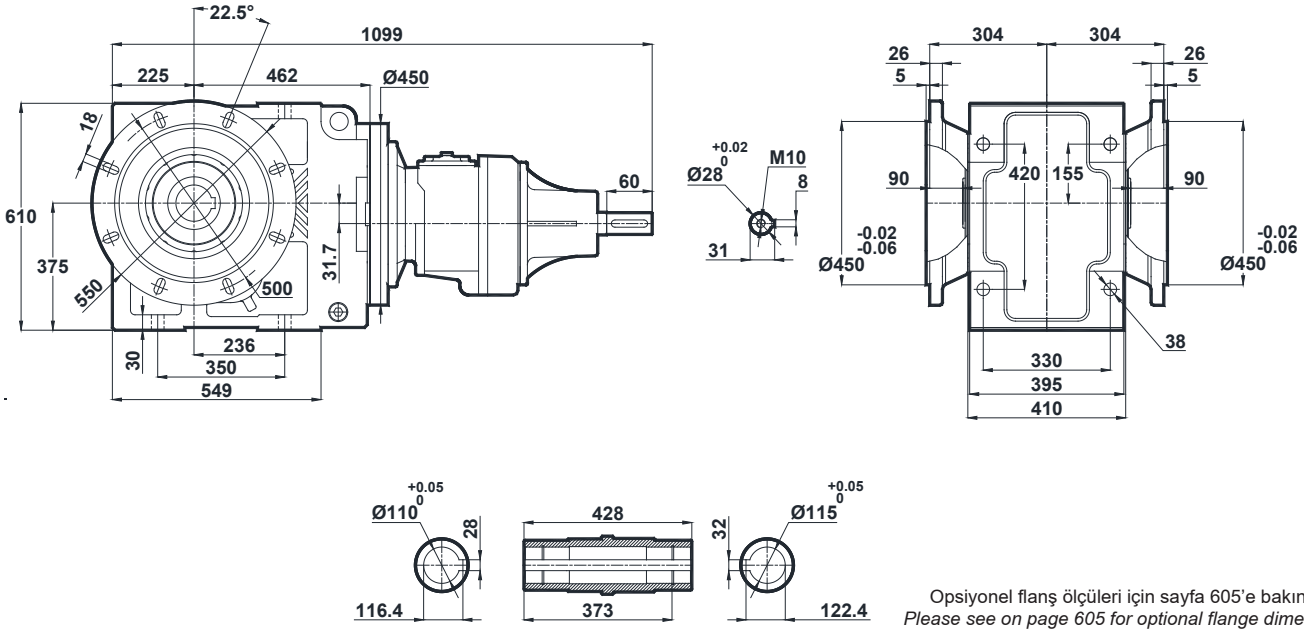
KT875.05
KT876.05



Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

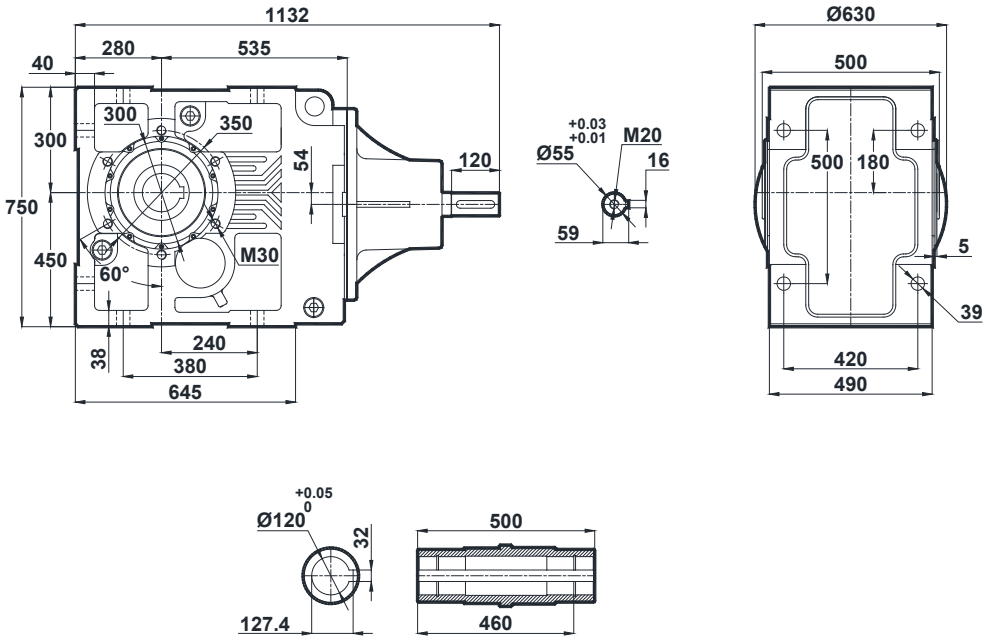
KT875.08
KT876.08



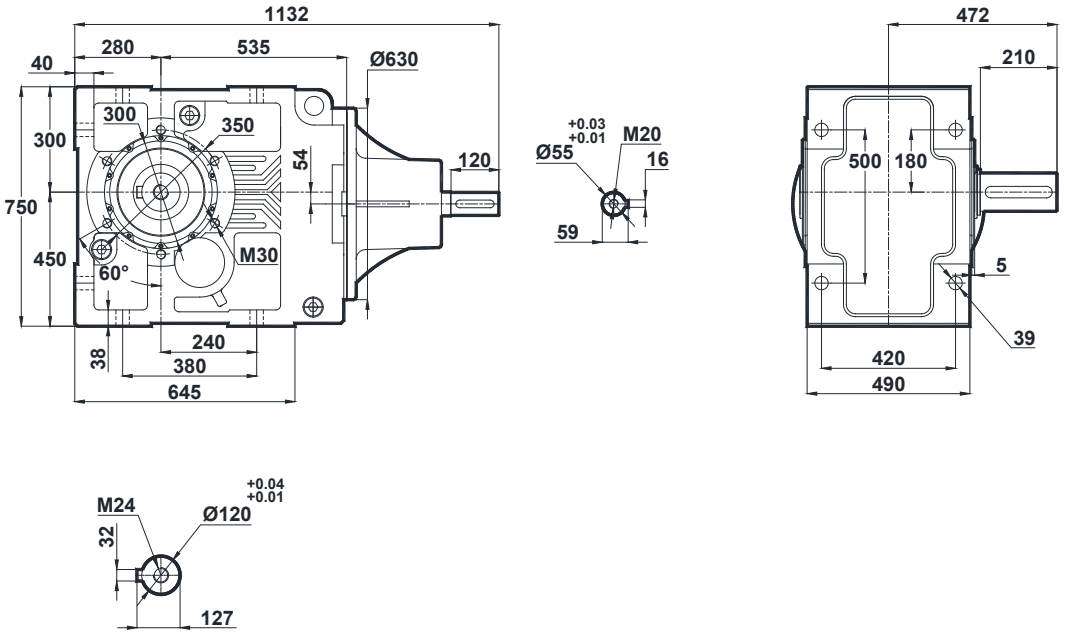
Opsiyonel flanş ölçüleri için sayfa 605'e bakınız.
Please see on page 605 for optional flange dimensions
Siehe Seite 605 für auswählbare Flanschabmessungen

-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT973.00

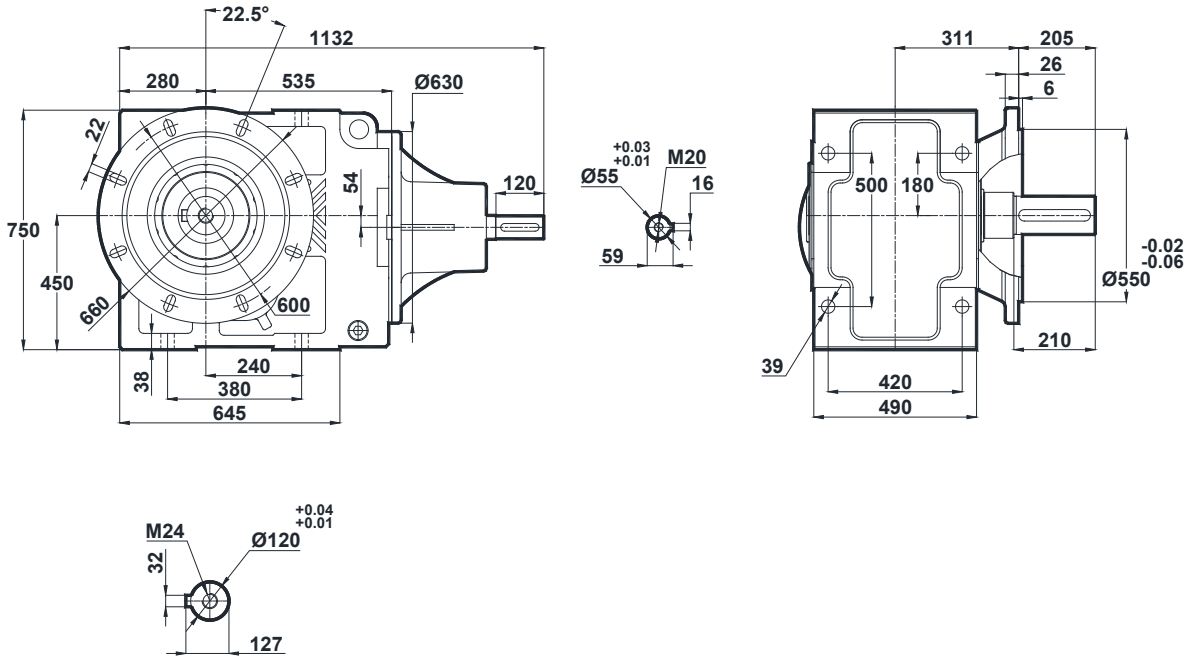


KT973.01

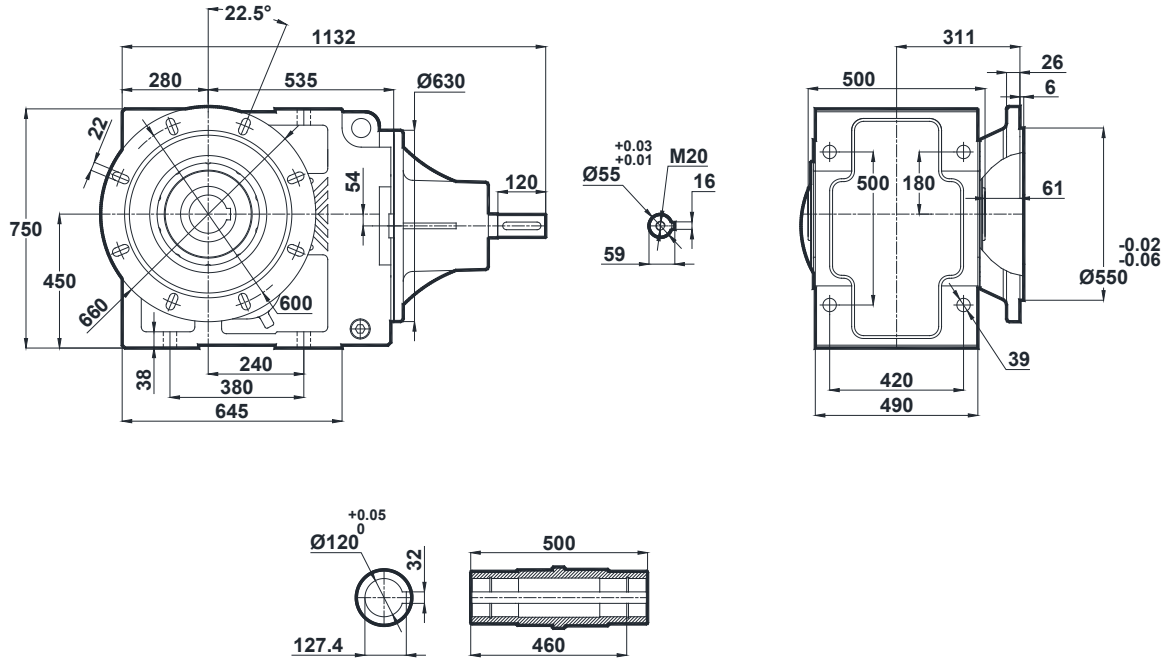


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT973.02

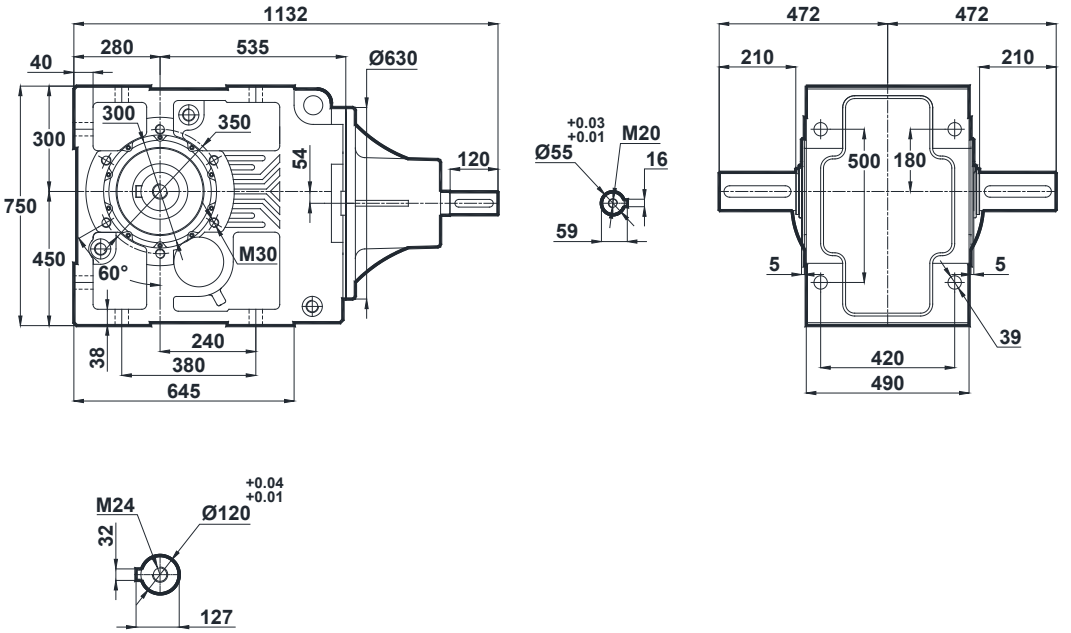


KT973.03

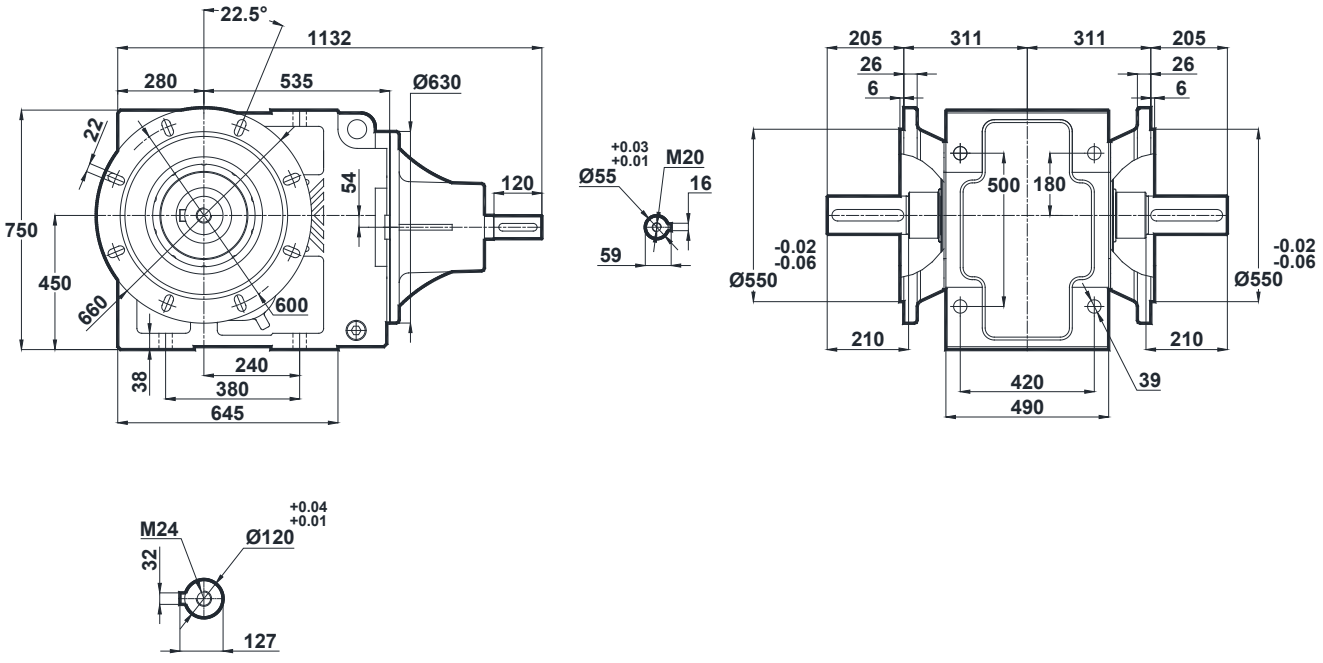


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT973.04

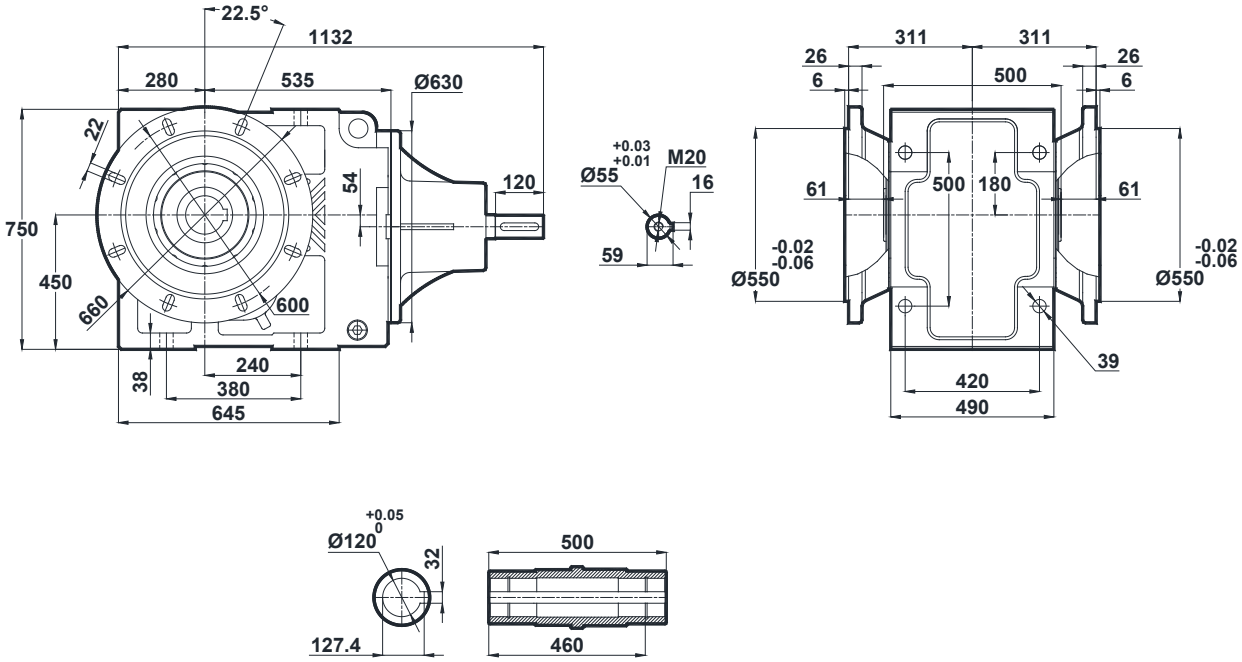


KT973.05



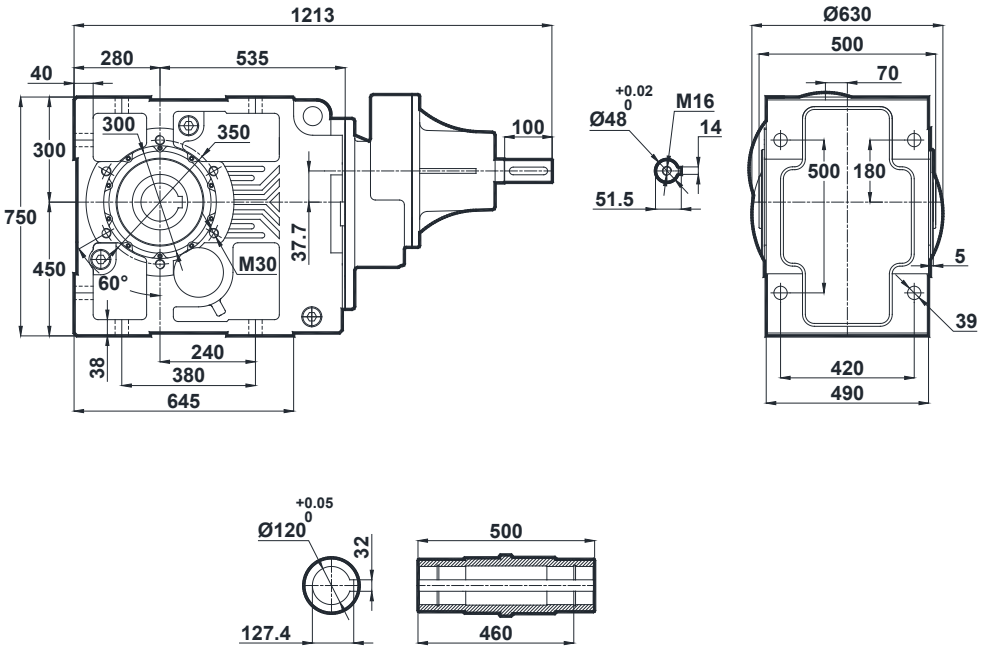
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT973.08

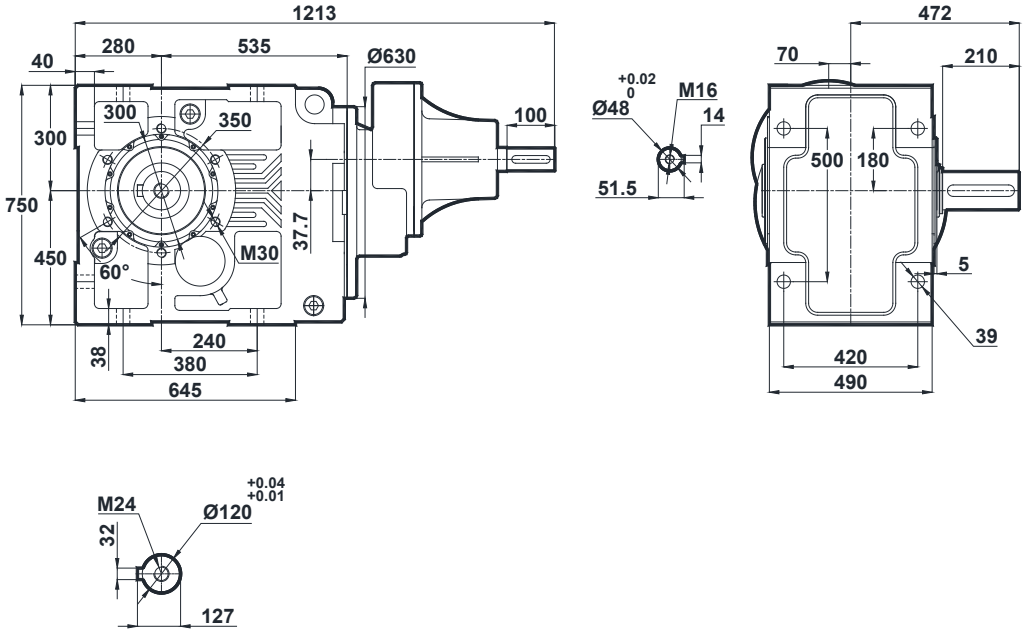


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT974.00

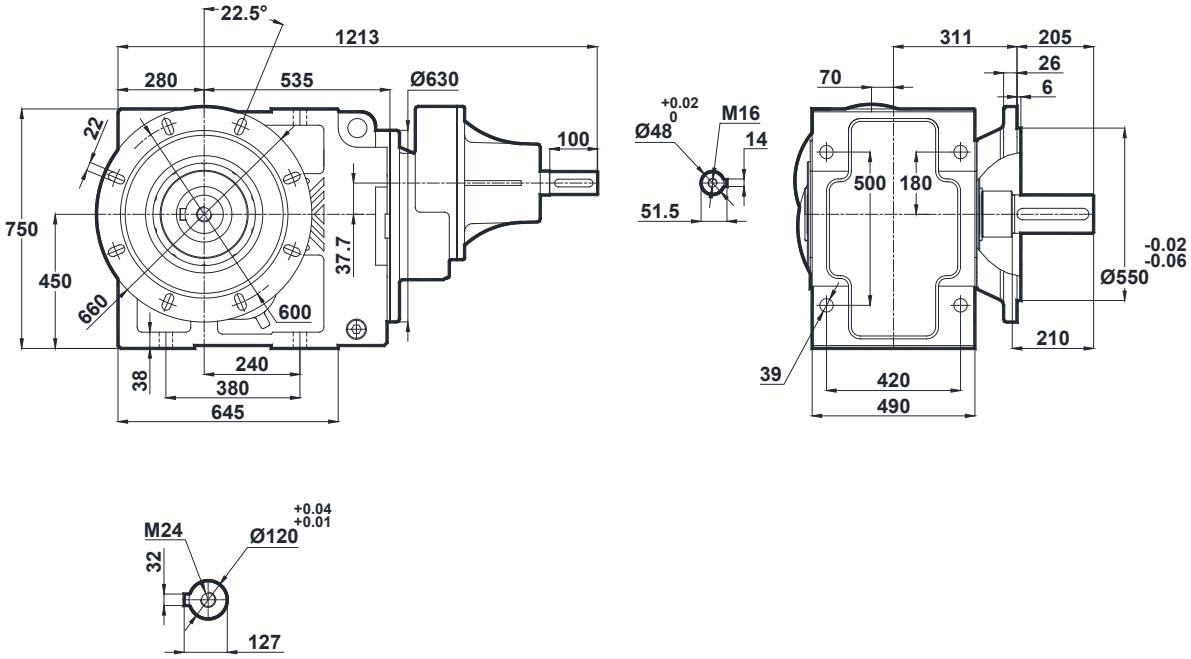


KT974.01

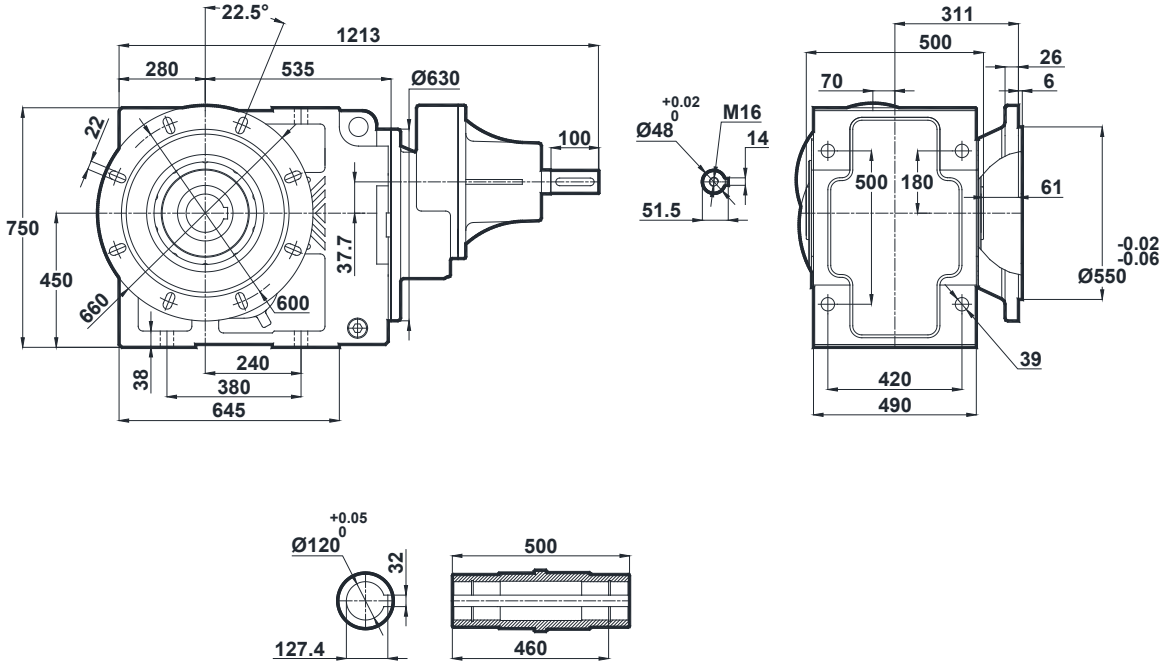


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT974.02

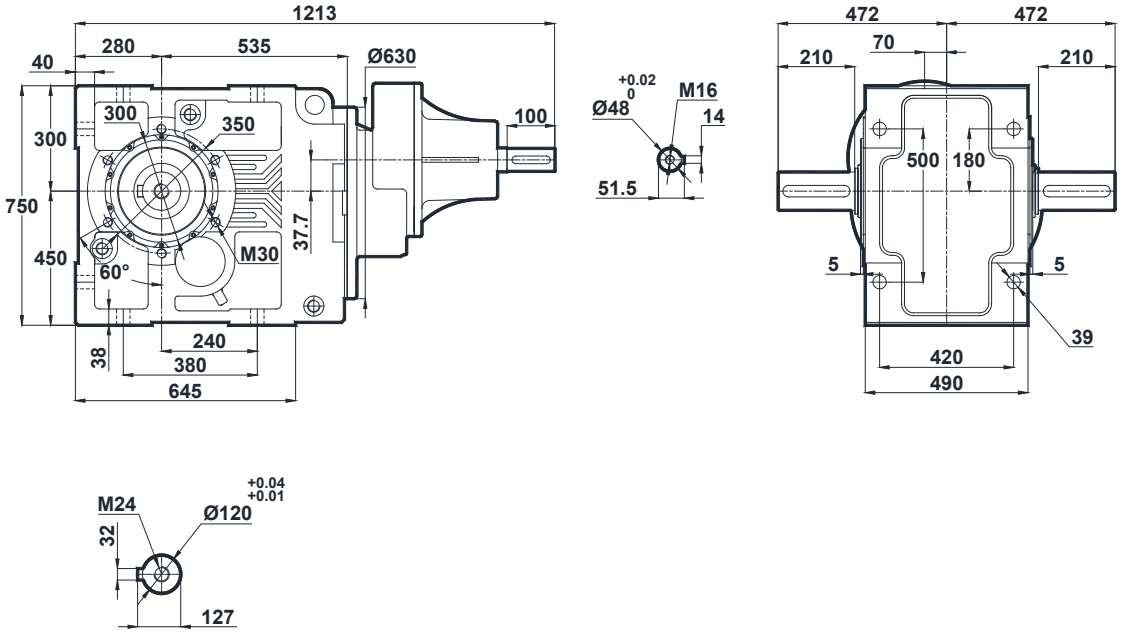


KT974.03

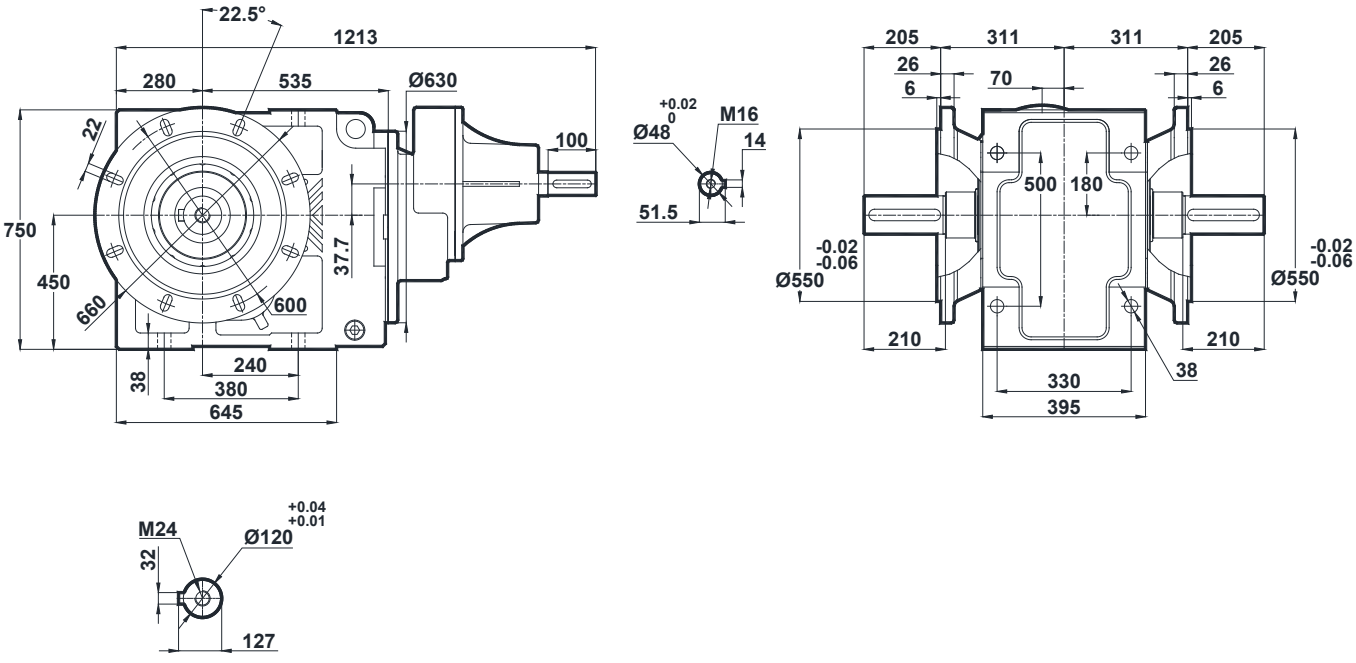


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT974.04

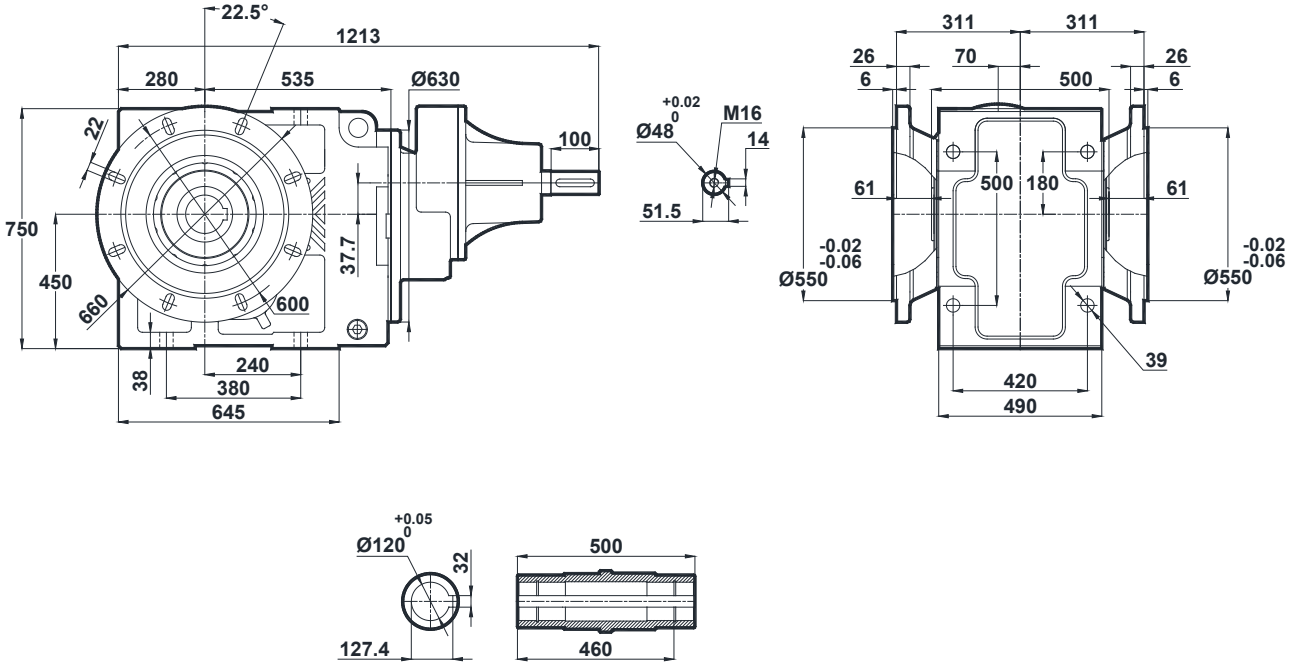


KT974.05



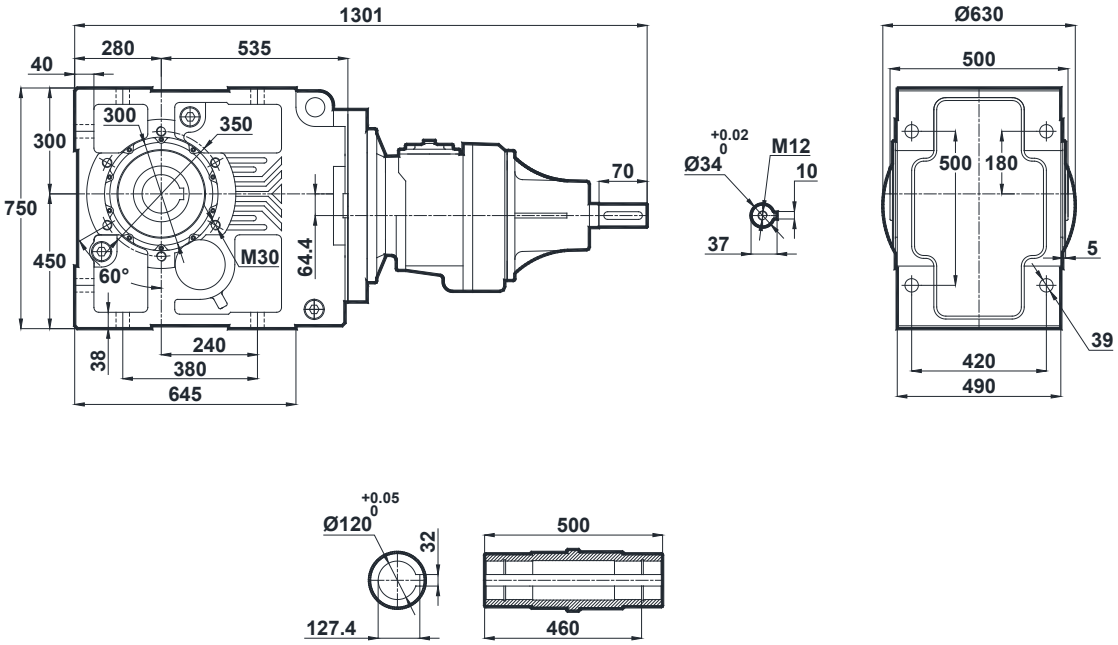
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT974.08

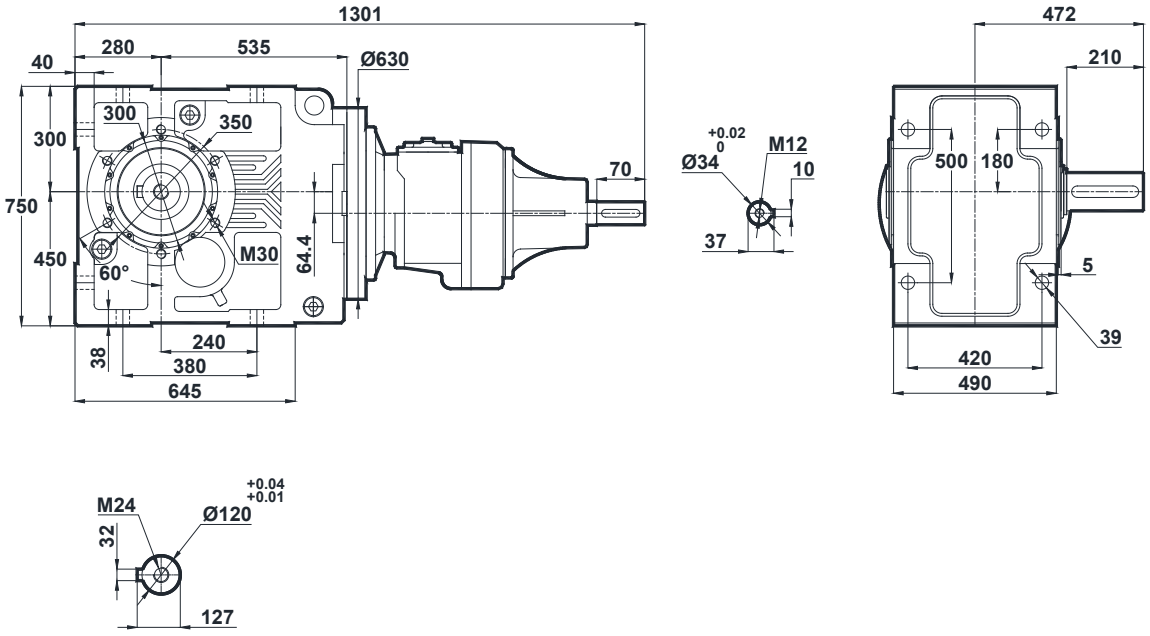


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT975.00
KT976.00

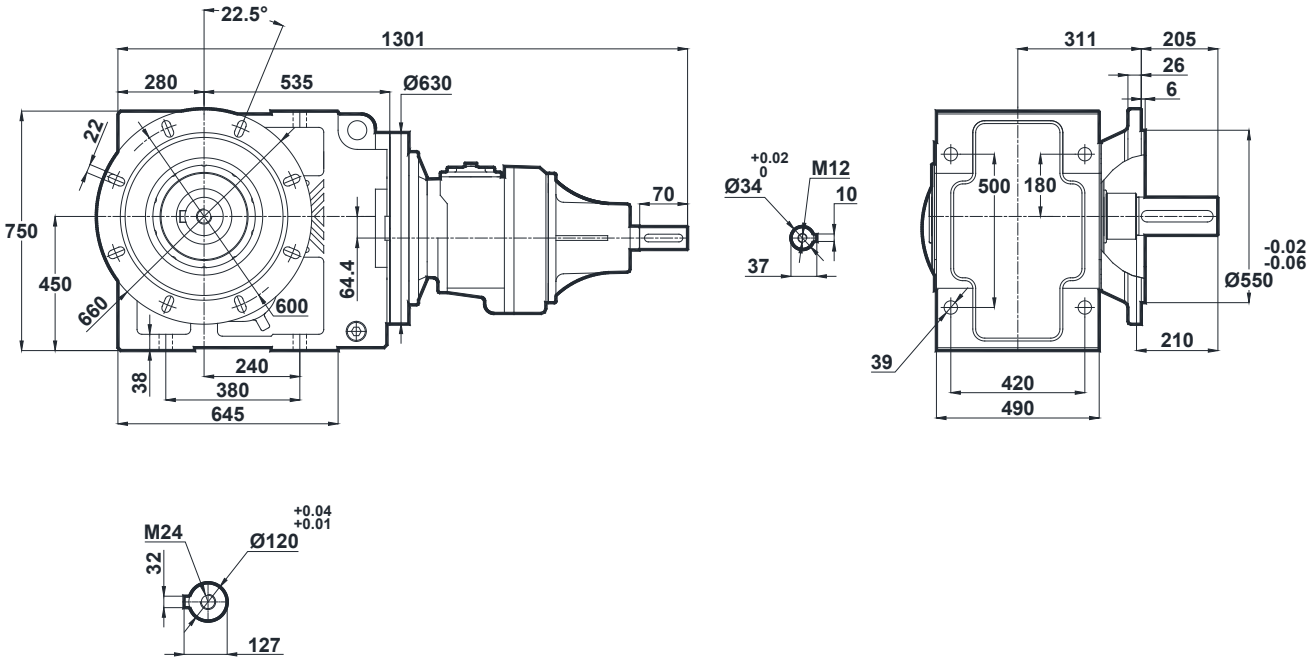


KT975.01
KT976.01

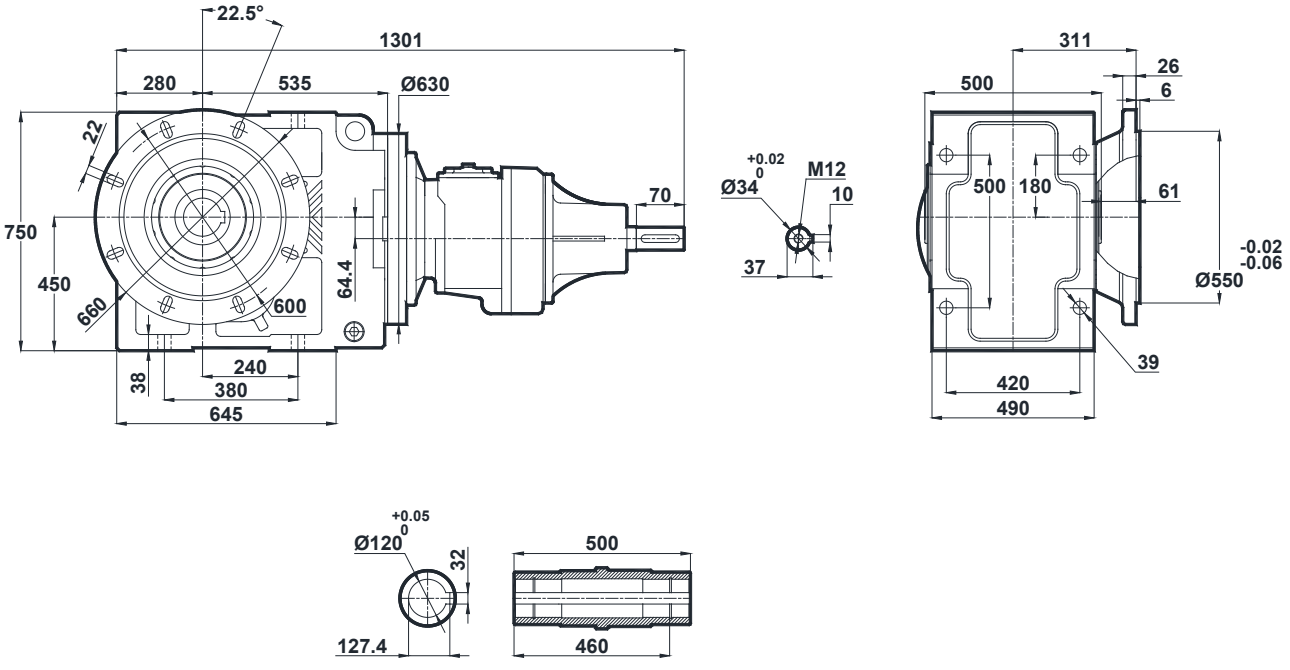


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT975.02
KT976.02

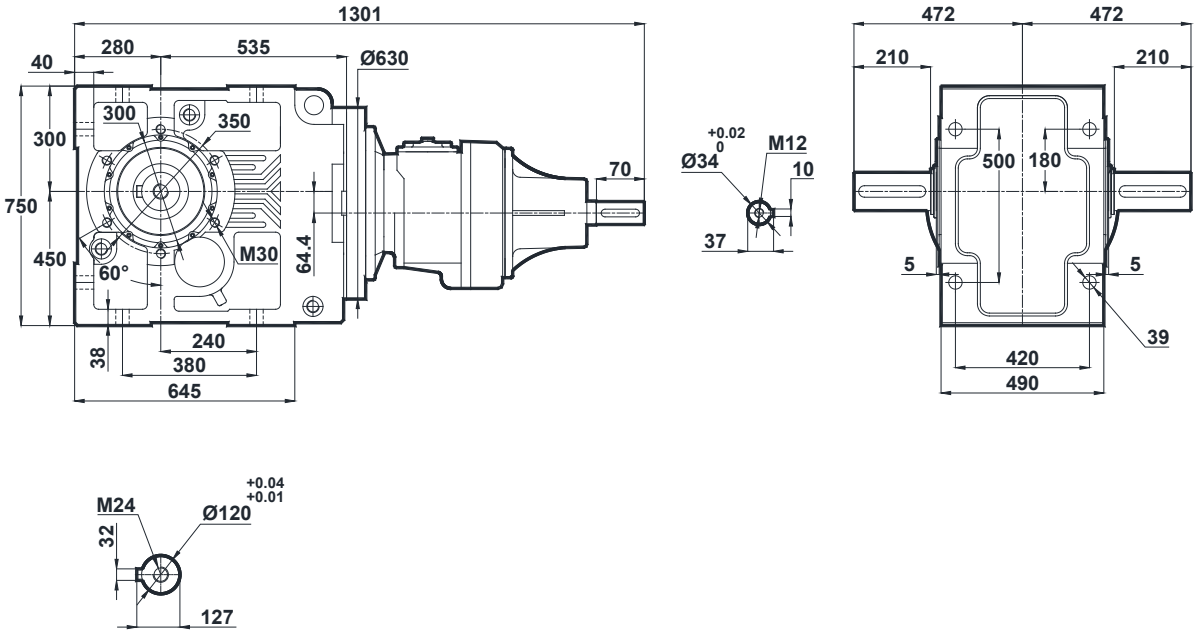


KT975.03
KT976.03

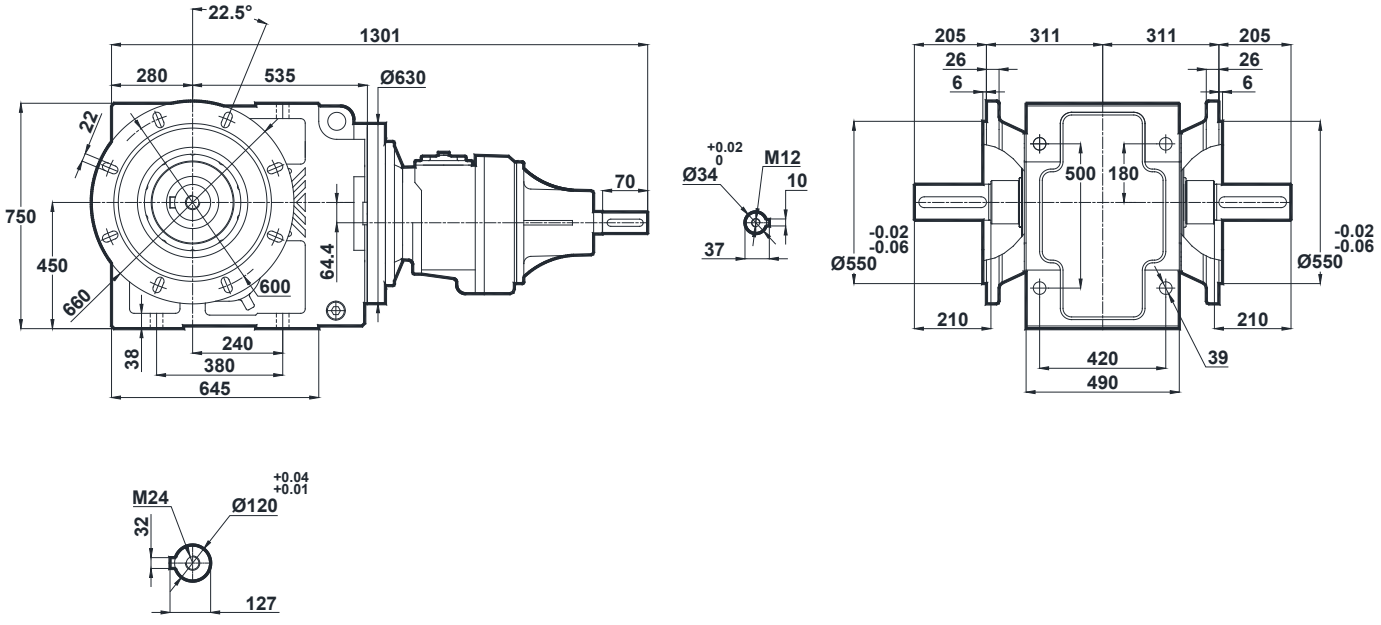


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT975.04
KT976.04

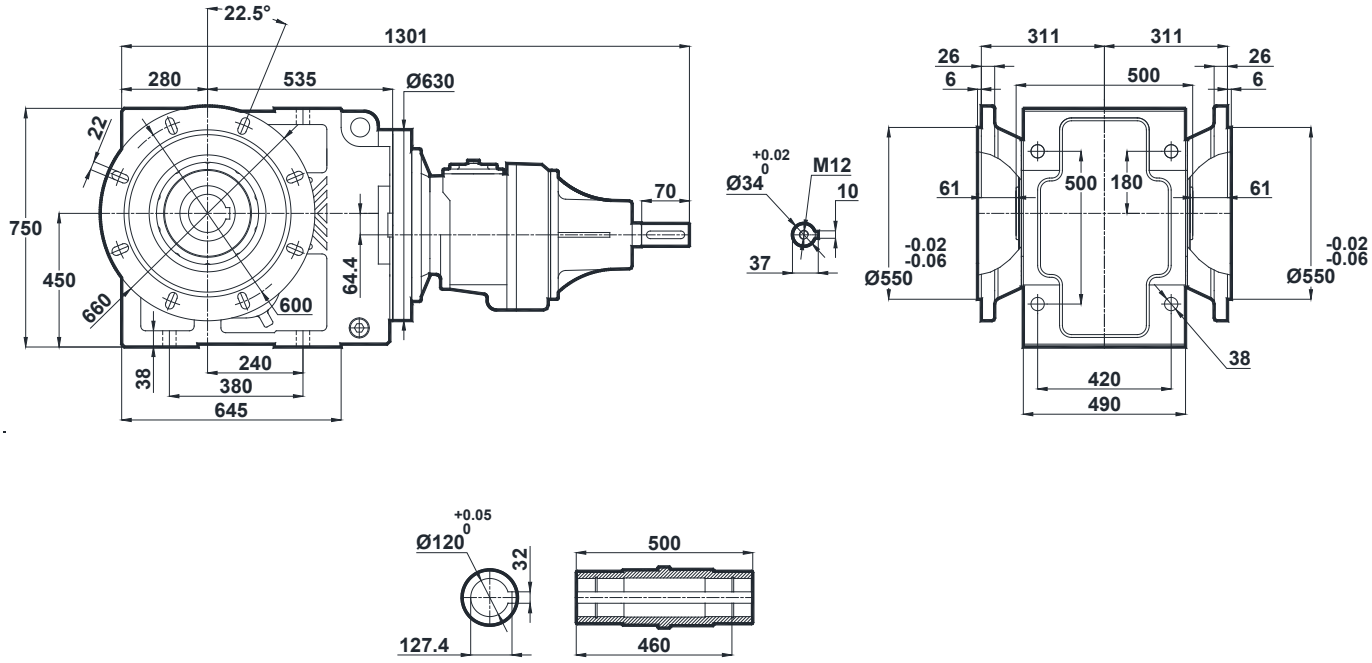


KT975.05
KT976.05



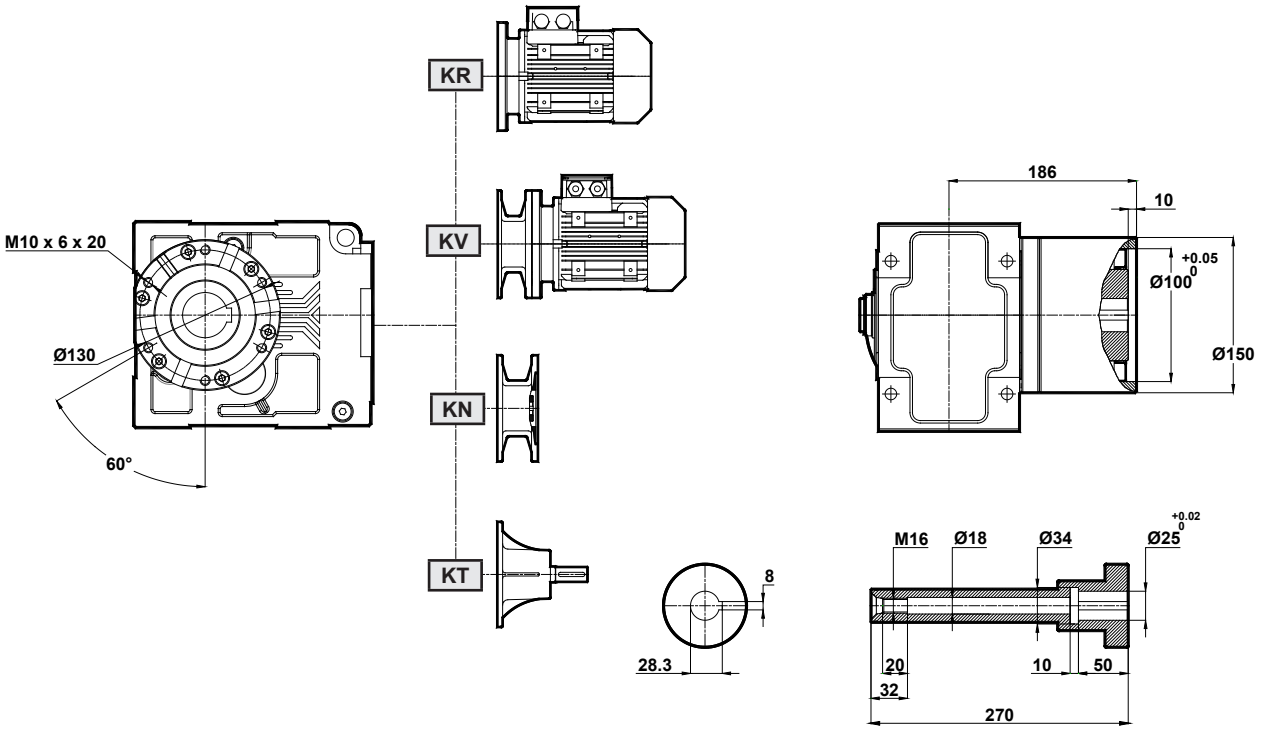
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit Gewinde DIN 332, Blatt 2

KT975.08
KT976.08

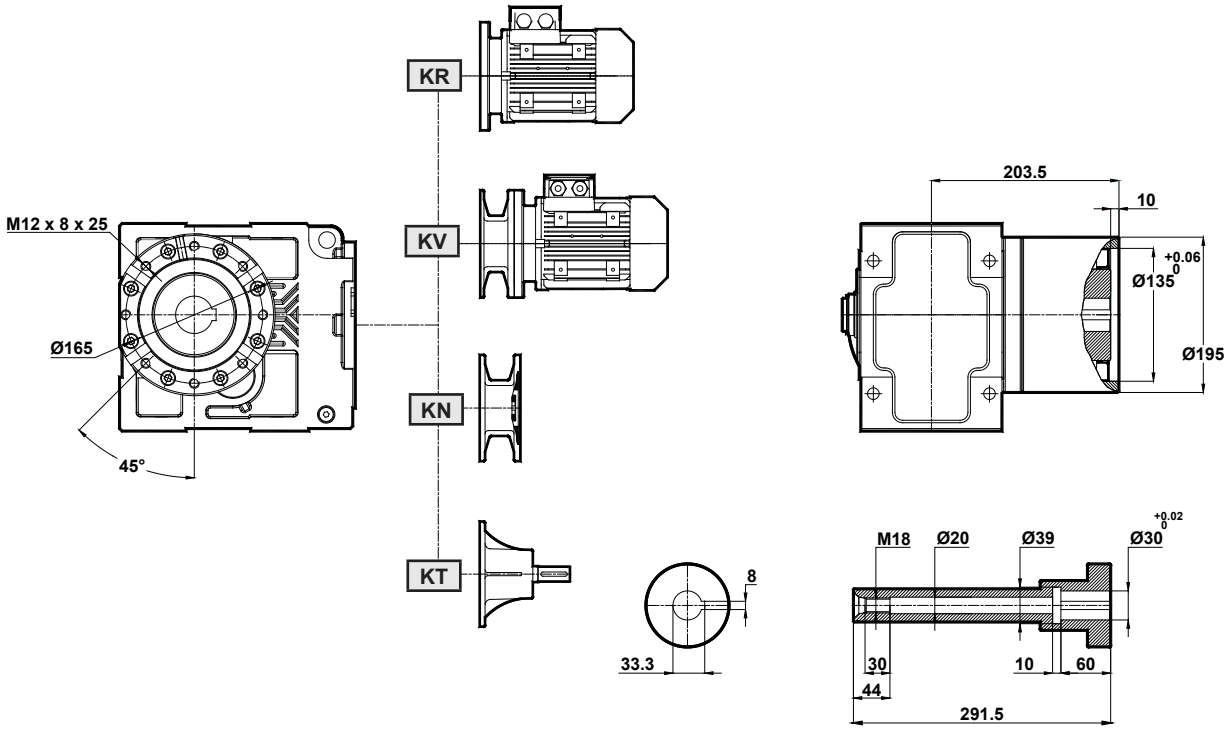


K SERİSİ EKSTRUDER TİP REDÜKTÖRLER
K SERIES EXTRUDER TYPE GEARBOXES
EXTRUDER GETRIEBEN VON K SERIE GETRIEBEN

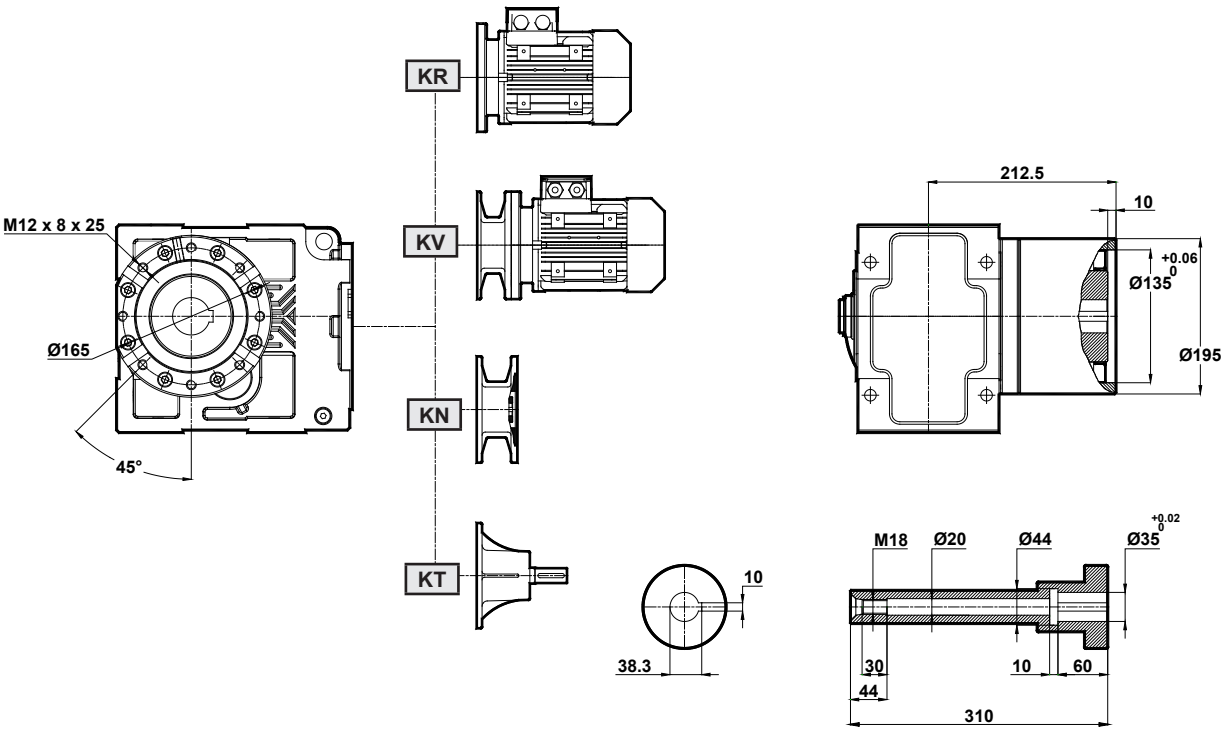
K.27.E



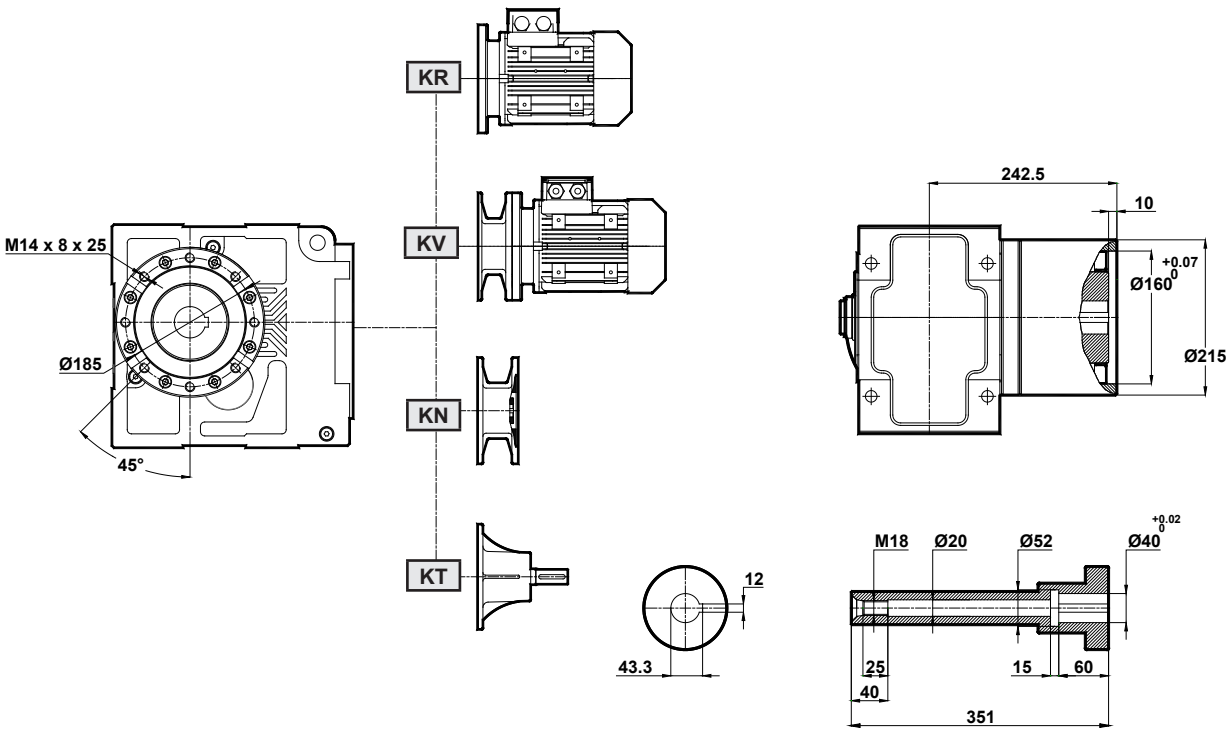
K.28.E



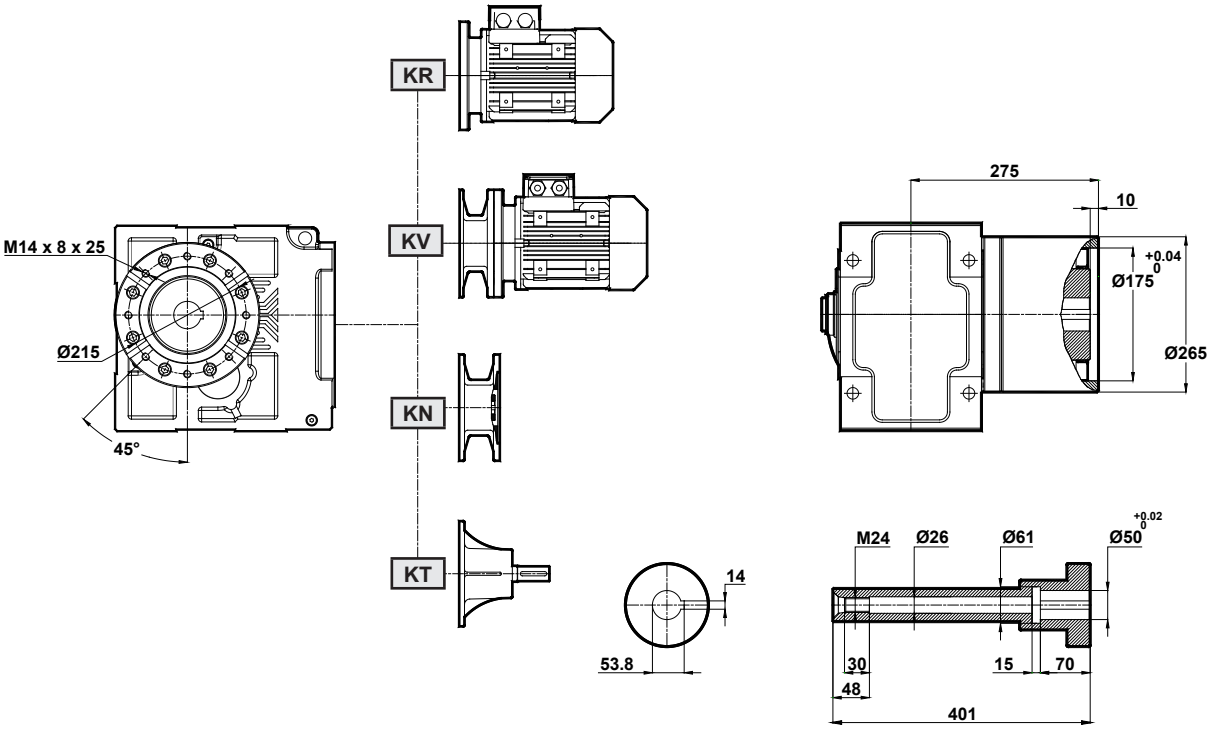
K.37.E


KR
KV
KN
KT
M12 x 8 x 25
Ø165
45°
212.5
10
Ø135 +0.06 0
Ø195
10
38.3
M18
Ø20
Ø44
Ø35 +0.02 0
30
10
60
44
310

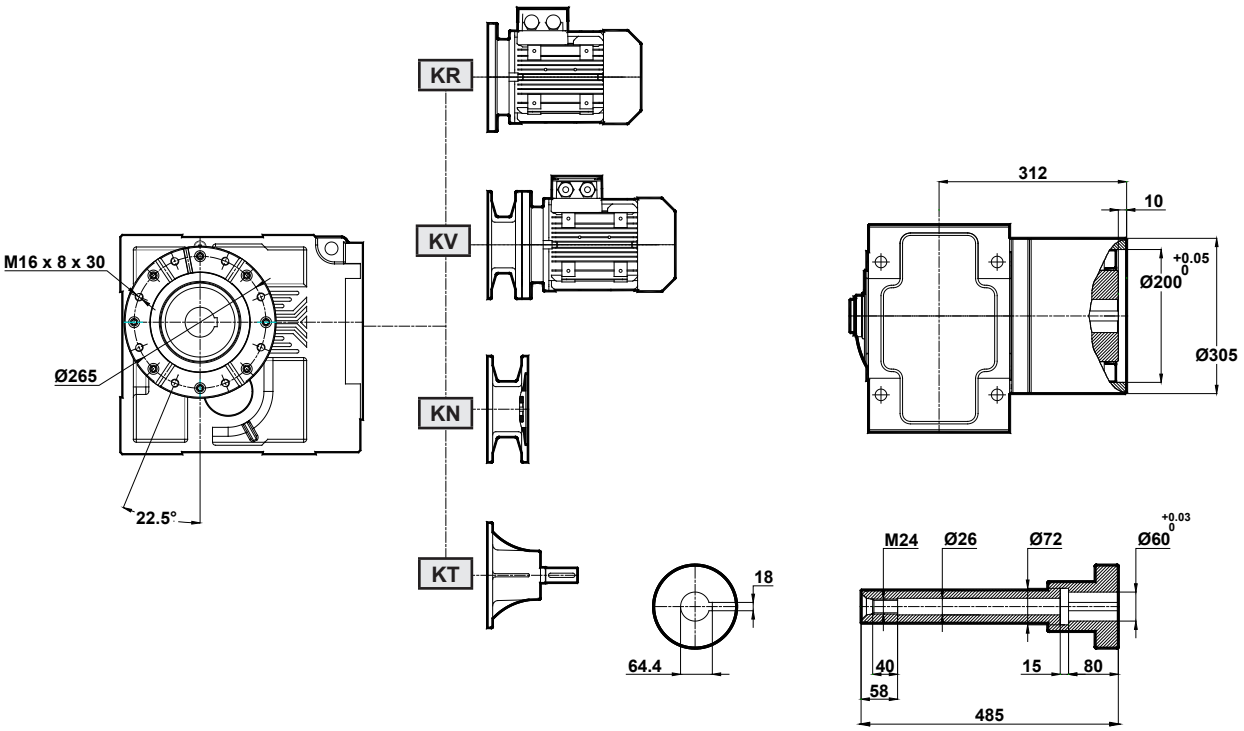
K.47.E

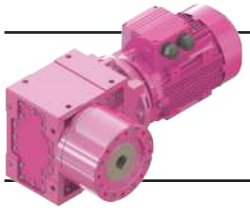

KR
KV
KN
KT
M14 x 8 x 25
Ø185
45°
242.5
10
Ø160 +0.07 0
Ø215
12
43.3
M18
Ø20
Ø52
Ø40 +0.02 0
25
15
60
40
351

K.57.E

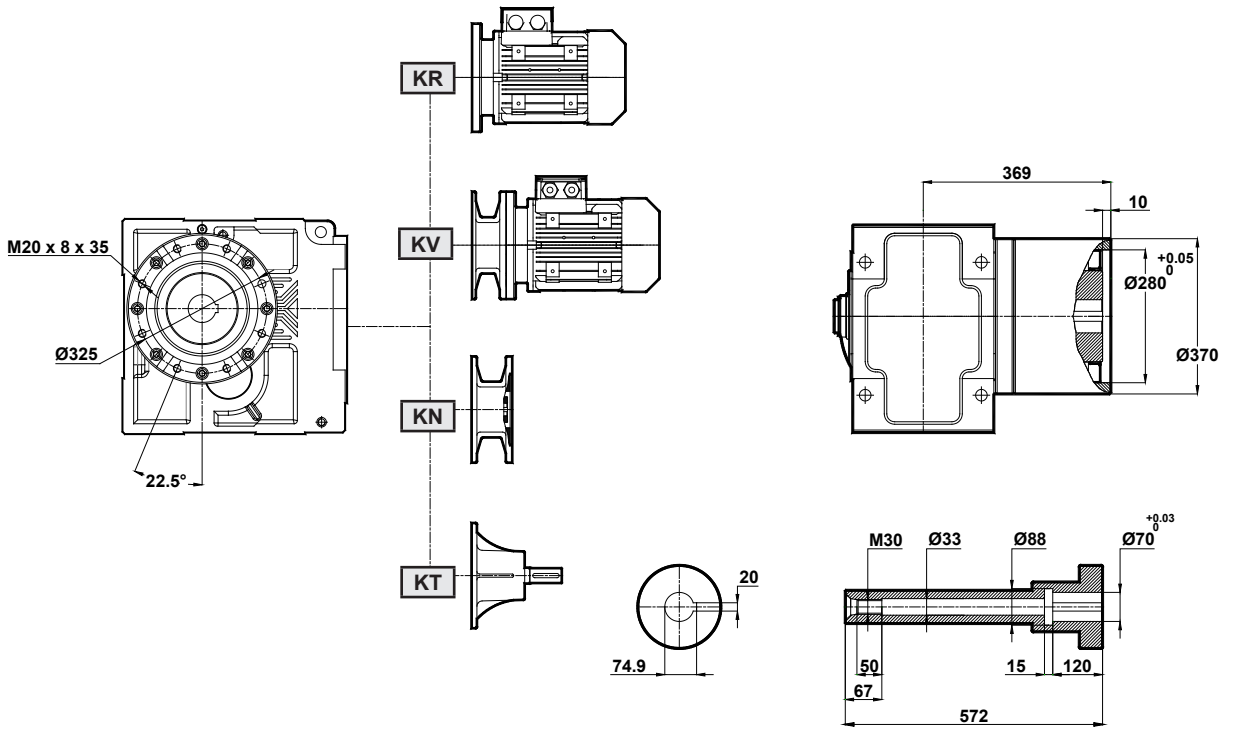

KR
KV
KN
KT
M14 x 8 x 25
Ø215
45°
275
10
Ø175
+0.04
0
Ø265
14
53.8
M24
Ø26
Ø61
Ø50
+0.02
0
30
15
70
48
401

K.67.E

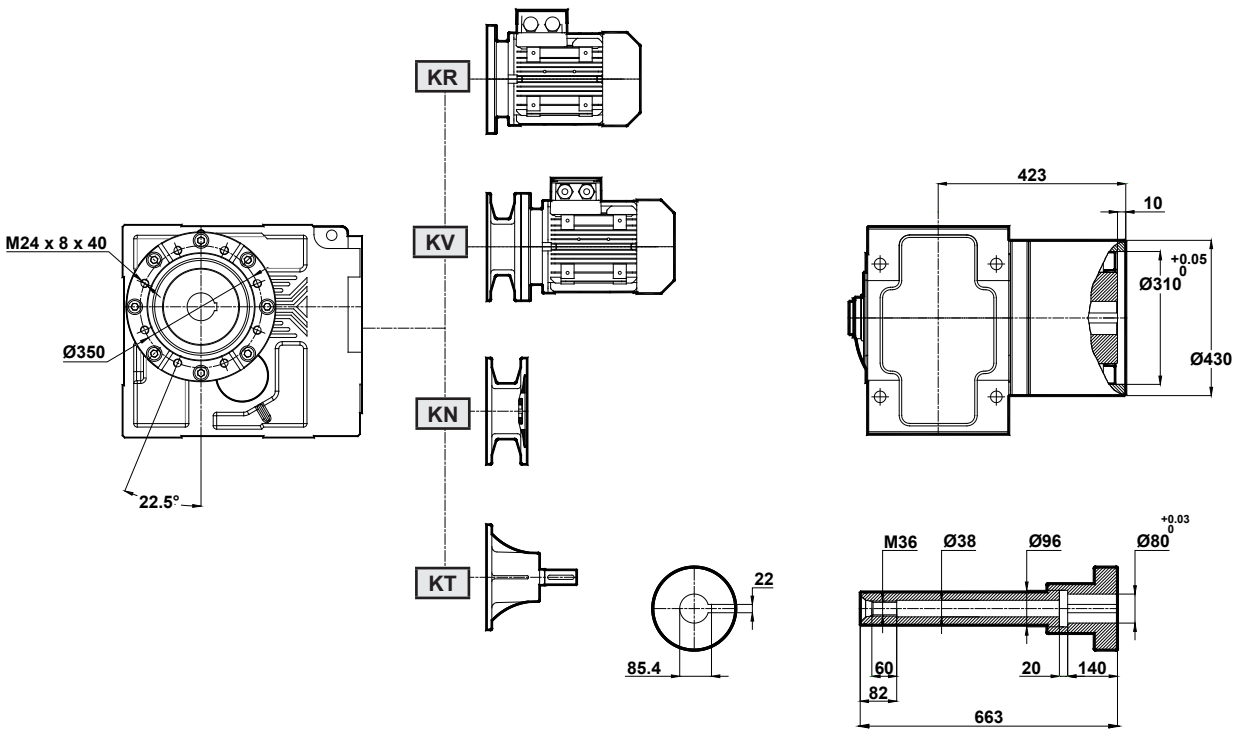

KR
KV
KN
KT
M16 x 8 x 30
Ø265
22.5°
312
10
Ø200
+0.05
0
Ø305
18
64.4
M24
Ø26
Ø72
Ø60
+0.03
0
40
15
80
58
485



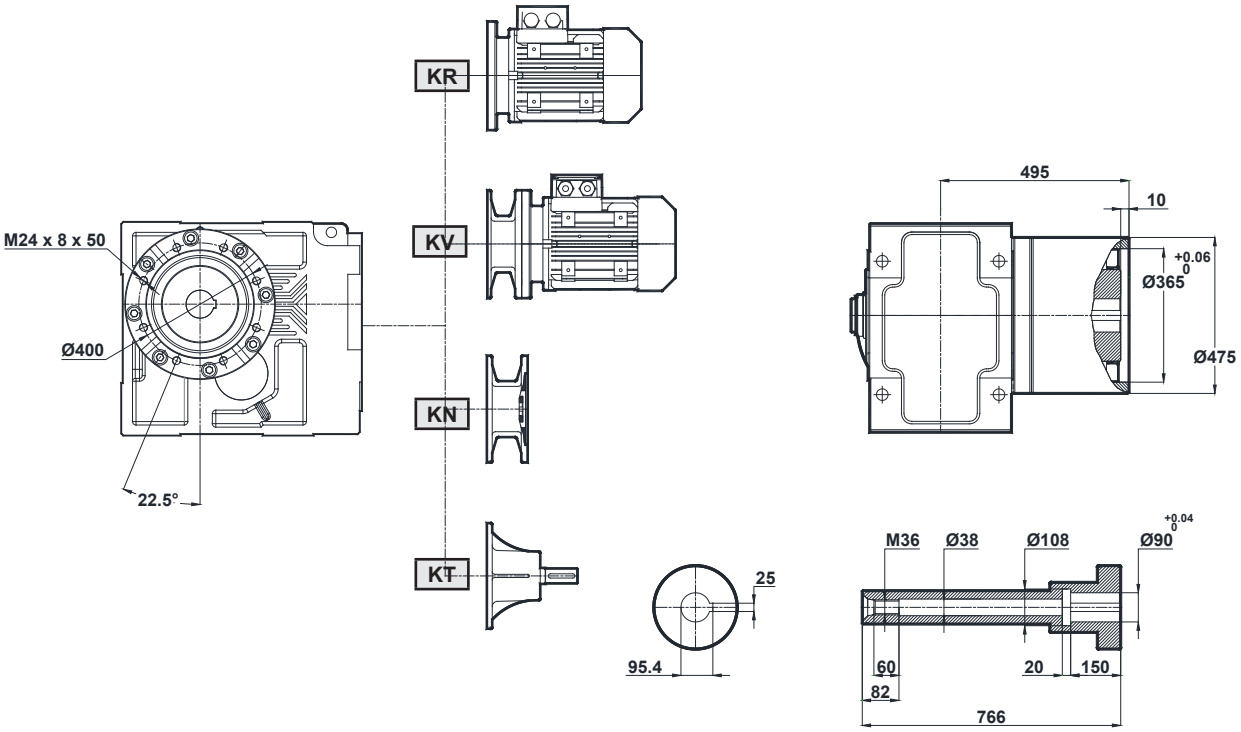
K.77.E

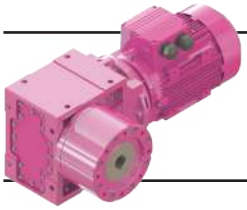

KR
KV
KN
KT
M20 x 8 x 35
Ø325
22.5°
369
10
+0.05
0
Ø280
Ø370
20
74.9
M30
Ø33
Ø88
+0.03
0
Ø70
50
67
15
120
572

K.87.E


KR
KV
KN
KT
M24 x 8 x 40
Ø350
22.5°
423
10
+0.05
0
Ø310
Ø430
22
85.4
M36
Ø38
Ø96
+0.03
0
Ø80
60
82
20
140
663

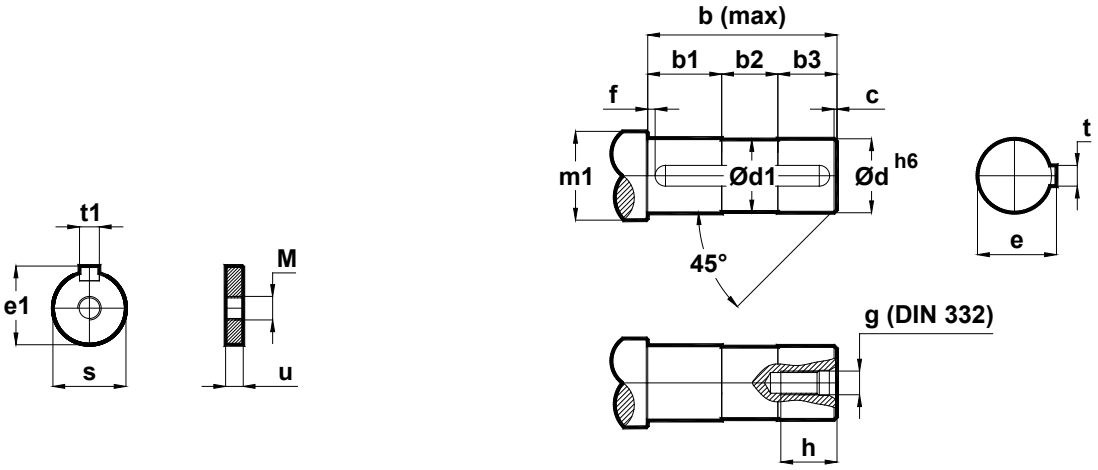
K.97.E


KR
KV
KN
KT
M24 x 8 x 50
Ø400
22.5°
25
95.4
495
10
+0.06
0
Ø365
Ø475
M36
Ø38
Ø108
+0.04
0
Ø90
60
82
20
150
766



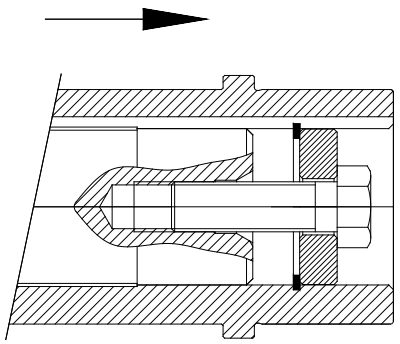
Notlar / *Notes* / Notizen

K SERİSİ REDÜKTÖRLERDE TAVSİYE EDİLEN MİL BOYU MONTAJ-DEMONTAJ ŞEKLİ VE AKSESUARLARI
ADVISED SHAFT DIMENSIONS AND ACCESORIES USED BY ASSEMBLING FOR K SERIES GEARBOXES
EMPFOHLENE WELLENABMESSUNGEN UND VERBINDUNGSELEMENTE BEI MONTAGE FÜR BAUREIHE K

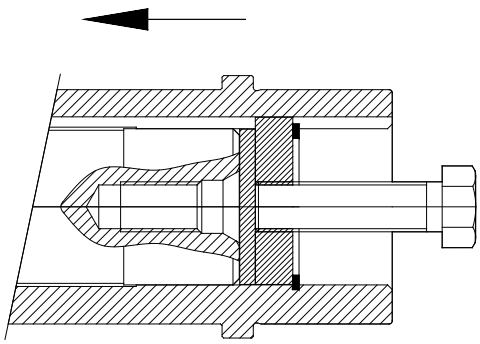


Tipi *Type* Typ	s	u	e1	t1	M	d	d1	m1	f	b	b1	b2	b3	c	g	h	e	t
K.00..	19.7	10	22	5.5	M10	20	19	24		86	45	25	16	0.5	M6	18	22.5	6
K.10..	29.7	10	33	7.5	M12	30	29	36		90	50	20	20	1	M10	24	33	8
K.17..	29.7	10	33	7.5	M12	30	29	36		89	50	20	19	1	M10	24	33	8
K.20..	34.7	12	38	9.5	M16	35	34	43		102	60	20	22	1	M12	30	38	10
K.27..	34.7	12	38	9.5	M16	35	34	43		114	65	27	22	1	M12	30	38	10
K.28..	34.7	12	43	11.5	M20	40	39	50		124	70	28	26	2	M16	38	43	12
K.37..	39.7	12	43	11.5	M20	40	39	50	5	138	75	35	28	2	M16	38	43	12
K.47..	49.7	12	53.5	13.5	M20	50	49	60		165	87	41	37	3	M16	38	53.5	14
K.57..	59.7	16	64	17.5	M24	60	59	75		188	101	44	43	3	M20	44	64	18
K.67..	69.7	16	74.5	19.5	M24	70	69	85		248	115	78	55	4	M20	44	74.5	20
K.77..	89.7	20	95	24.5	M30	90	89	110		287	140	83	64	4	M24	52	95	25
K.87..	109.7	20	116	27.5	M30	110	109	130		347	165	98	84	4	M24	52	116	28
K.97..	119.7	20	127	31	M30	120	119	140		434	185	130	119	4	M24	52	127	32

Mil Çektirme / *Shaft Mounting* / Einziehen

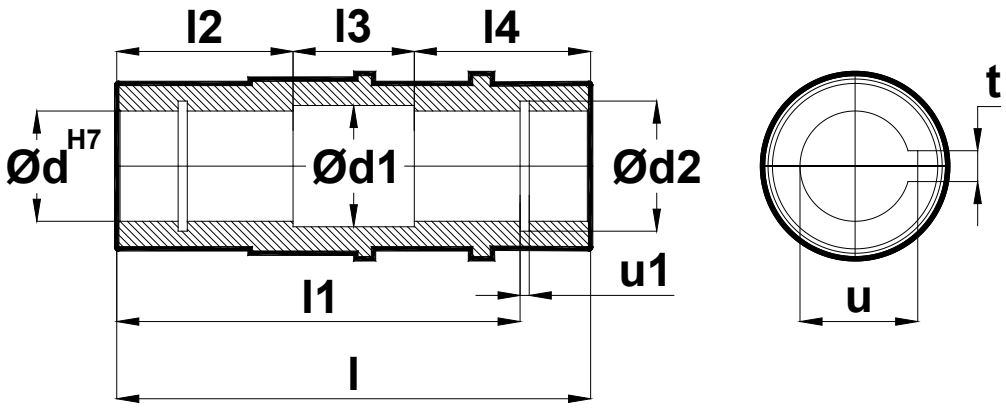


Mil Çıkartma / *Shaft Pulling Out* / Heraus Drücken

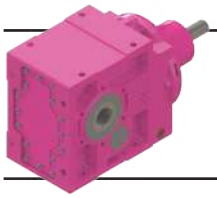


6 Köşe Başlı Civata / *6 Contour Bolt* / Sechskantschraube
(DIN ISO 4014 . DIN ISO 4017)
(DIN ISO 8765)

K SERİSİ REDÜKTÖR KOVAN ÖLÇÜLERİ
HOLLOW SHAFT DIMENSIONS FOR K SERIES GEARBOXES
HOHLWELLEABMESSUNGEN VON BAUREIHE K

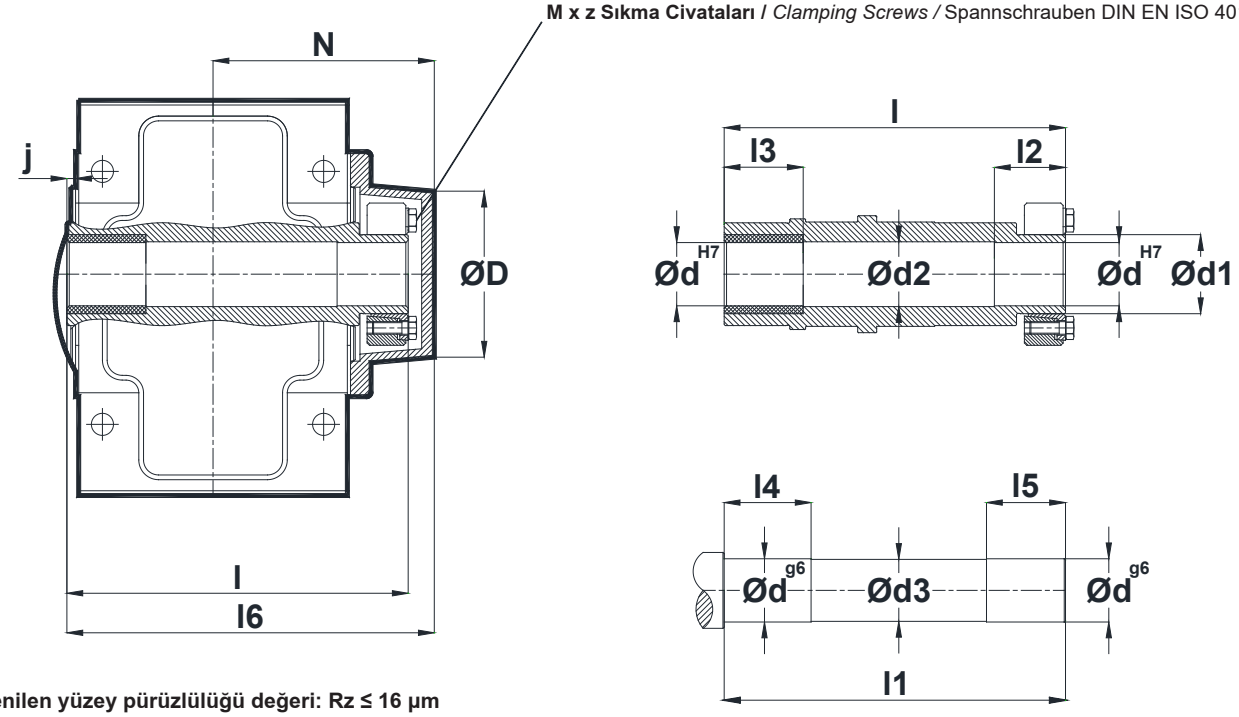


Tip *Type* Typ	d	d1	d2	l	l1	l2	l3	l4	u1	t	u
K.00..	20	21	21	115	100	40	35	40	1.1	6	22.8
K.10..	30	31	31.4	120	105	45	30	45	1.3	8	33.3
K.17..	30	31	31.4	120	105	45	30	45	1.3	8	33.3
K.20..	35	36	36.4	140	120	55	30	55	1.6	8	38.3
K.27..	35	36	37	157	132	60	37	60	1.6	10	38.3
K.28..	40	41	42.5	166	142	64	38	64	1.85	12	43.3
K.37..	40	41	42.5	185	156	70	45	70	1.85	12	43.3
K.47..	50	51	53	215	183	82	51	82	2.15	14	53.8
K.57..	60	61	63	246	210	96	54	96	2.15	18	64.4
K.67..	70	71	73	308	270	110	88	110	2.65	20	74.9
K.77..	90	91	93.5	363	313	135	93	135	3.15	25	95.4
K.87..	110	111	114	428	373	160	108	160	4.15	28	116.4
K.97..	120	121	124	500	460	180	140	180	4.15	32	127.4



K SERİSİ DELİK MİLLİ SIKMA BİLEZİKLİ REDÜKTÖRLER
K SERIES HOLLOW SHAFT WITH SHRINK DISC CONNECTOR
HOHLWELLE MIT SCHRUMPFSCHEIBE FÜR BAUREIHE K

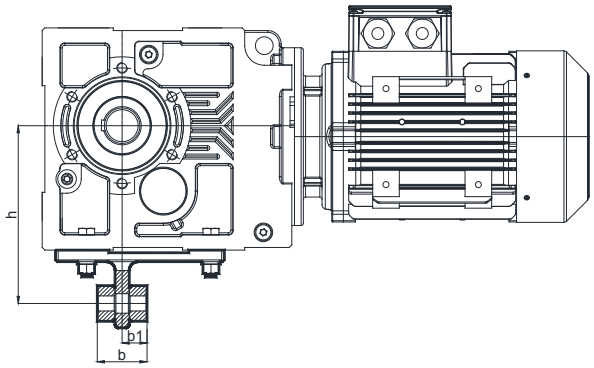
M x z Sıkma Civataları / *Clamping Screws* / Spannschrauben DIN EN ISO 4017 - 10.9

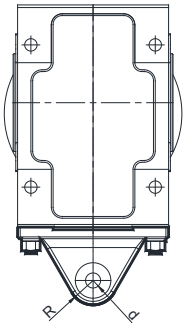


İstenilen yüzey pürüzlülüğü değeri: Rz ≤ 16 µm
Desired surface roughness value: Rz ≤ 16 µm
Gewünschtes Oberflächenrauhigkeitswert: Rz ≤ 16 µm

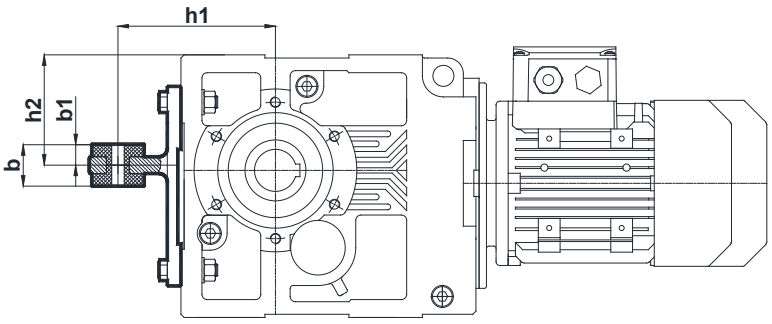
	ØD	Ød	Ød1	Ød2	Ød3	l	l1	l2	l3	l4	l5	l6	N	j	M x z	Ta [Nm]
K..00..0S	69	20	24	21	19	137	140	27	20	25	35	147	89.5	4	M5 x 6	4
K..10..0S	88	30	36	31	29	147	150	32	22	27	40	161	101	4	M6 x 5	12
K..20..0S	94	35	44	36	34	170	173	35	25	30	43	183	113	5	M6 x 7	12
K..17..0S	88	30	36	31	29	146	149	30	20	25	38	161	101	4	M6 x 5	12
K..27..0S	98	35	44	36	34	186	189	35	40	45	43	201	122.5	4.5	M6 x 7	12
K..28.0S	106	40	50	41	39	197	200	35	30	35	43	214	131	5	M6 x 8	12
K..37..0S	106	40	50	41	39	214	219	35	40	45	43	233	140.5	5.5	M6 x 8	12
K..47..0S	129	50	62	51	49	249	252	47,5	52,5	57,5	55,5	263.5	156	5.5	M6 x 10	12
K..57..0S	164	60	75	61	59	282	285	55	60	65	63	302.5	179.5	5.5	M8 x 7	30
K..67..0S	164	70	80	71	69	344	348	60	65	70	68	364	210	6	M8 x 7	30
K..77..0S	219	90	110	91	79	418	421	80	80	90	93	438.5	257	7.5	M10 x 9	59
K..87..0S	260	110	140	111	109	492	495	85	90	100	98	517	303	9	M12 x 10	100
K..97..0S	288	120	155	121	119	570	573	90	80	90	103	595	345	5	M12 x 12	100

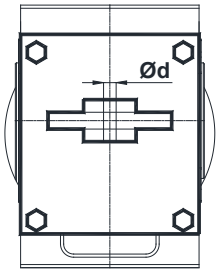
K.27.. - K.97.. MOMENT KOLU BAĞLANTI DETAYI
K.27.. - K.97.. TORQUE ARM ASSEMBLY DETAILS
K.27.. - K.97.. DREHMOMENTSTÜTZE MONTAGEZEİCHNUNGEN



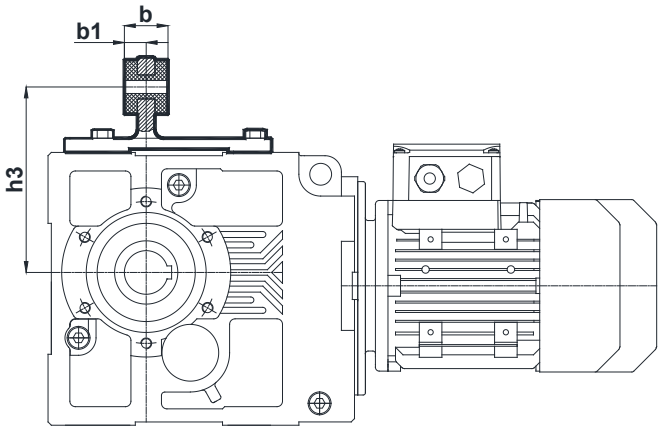


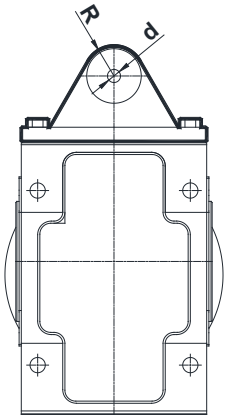
Std





T1

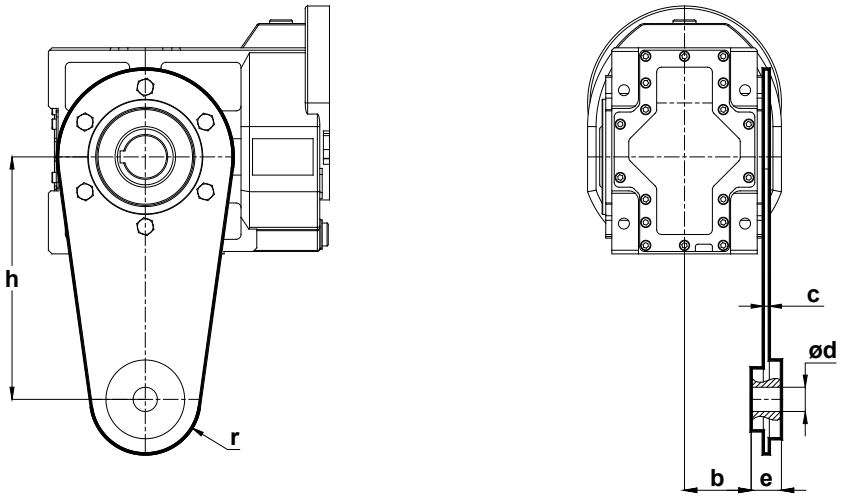




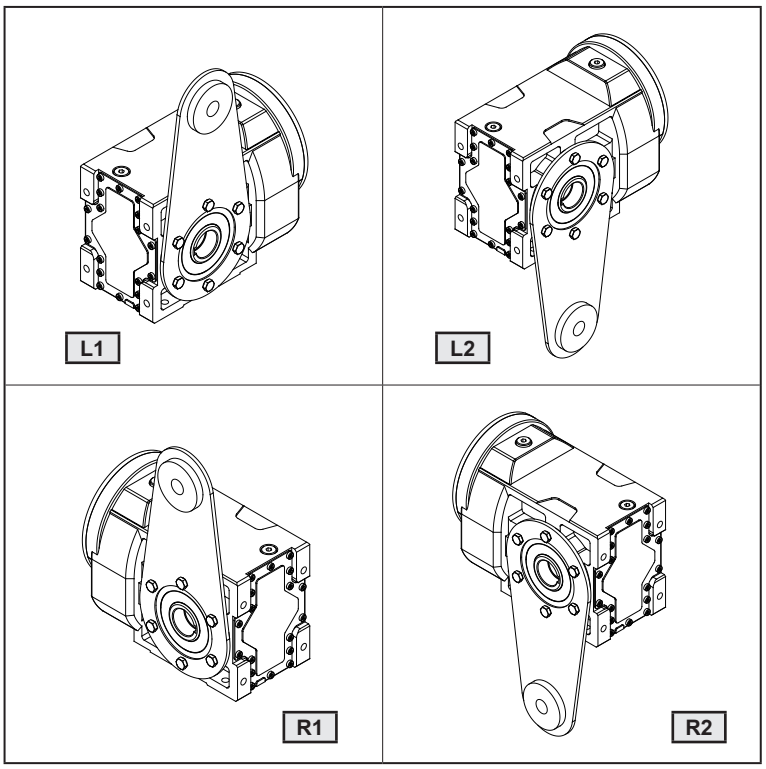
T2

					Std	T1		T2
Tip	**b**	**b1**	**d**	**R**	**h**	**h1**	**h2**	**h3**
K.173	44	22	Ø14	20	140	103	58	112
K.273	56	28	Ø17	22,5	160	119	73	141
K.283	76	38	Ø22	27,5	192	140	77	150
K.373	76	38	Ø22	27,5	200	150	105	170
K.473	80	40	Ø22	27,5	250	182	155	210
K.573	105	52,5	Ø26	42,5	300	220	180	251
K.673	110	55	Ø26	42,5	350	245	200	260
K.773	155	77,5	Ø32	50	450	335	260	360
K.873	160	80	Ø32	55	550	400	263	410
K.973	190	95	Ø38	70	700	530	380	550

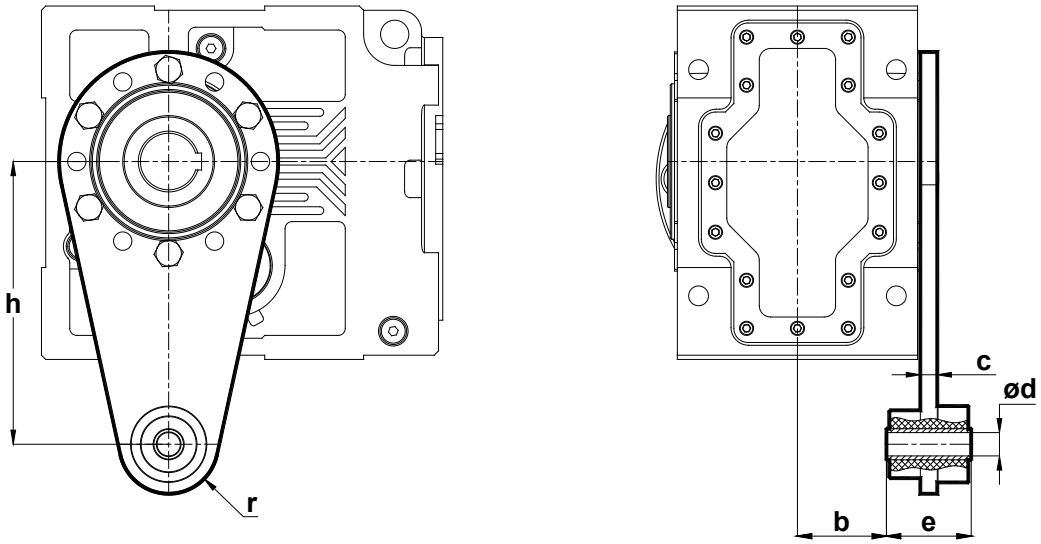
K.00.. - K.20.. MOMENT KOLU BAĞLANTI DETAYI
K.00.. - K.20.. TORQUE ARM ASSEMBLY DETAILS
K.00.. - K.20.. DREHMOMENTSTÜTZE MONTAGEZEICHNUNGEN



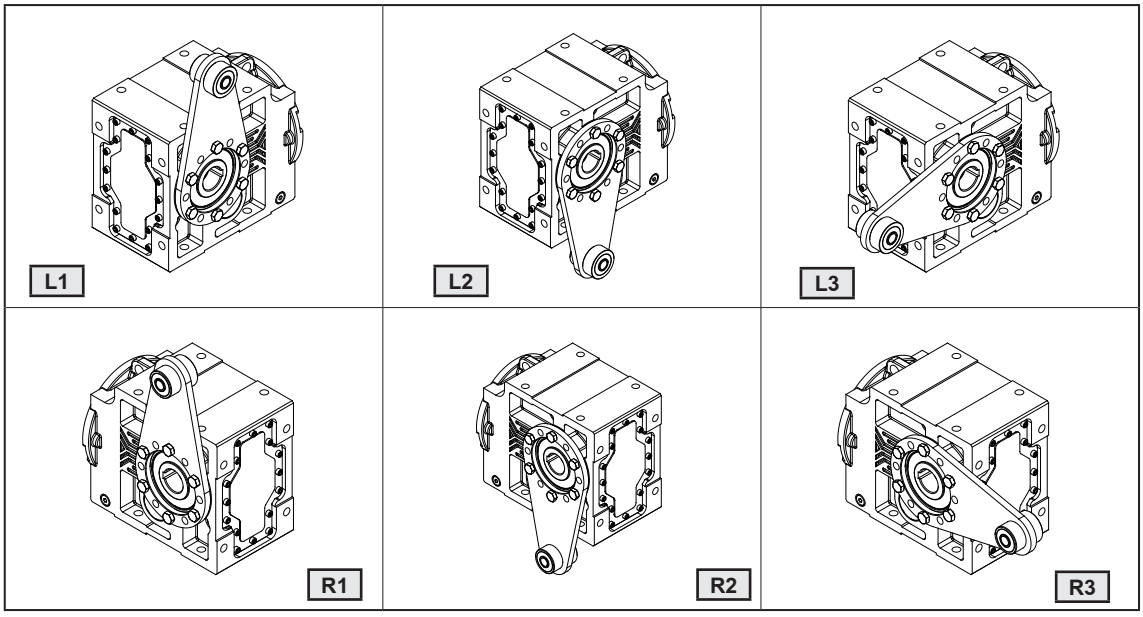
Tip	b	e	d	r	h	c
K.00..	47	16	Ø10	32	100	3
K.10..	49.5	16	Ø10	36	150	3
K.20..	54.5	25	Ø20	45	200	5

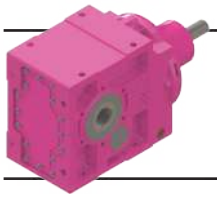


K.27.. - K.97.. OPSİYONEL MOMENT KOLU BAĞLANTI DETAYI
K.27.. - K.97.. OPTIONAL TORQUE ARM ASSEMBLY DETAILS
K.27.. - K.97.. AUSWÄHLBARE DREHMOMENTSTÜTZE MONTAGEZEICHNUNGEN



Tip *Type* Typ	b	e	ød	r	h	c
K.273	62	36	ø11	25	160	12
K.283	63	60	ø16,5	35	200	12
K.373	63	60	ø16,5	35	200	12
K.473	78	60	ø16,5	35	250	12
K.573	73,5	100	ø25	48	300	12
K.673	105,5	100	ø25	54	380	15
K.773	131,5	100	ø25	58	450	15
K.873	155	120	ø32	70	550	20
K.973	195	120	ø38	75	700	20

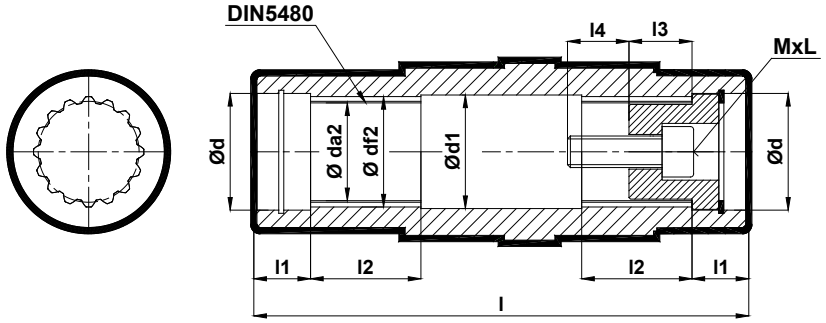




K.00.. - K.97.. DIN 5480 ÇOKLU KAMA ÖLÇÜLERİ

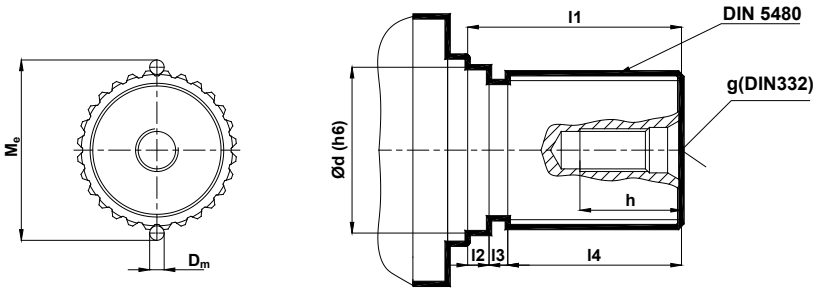
K.00.. - K.97.. DIMENSIONS OF SPLINED HOLLOW SHAFT TO DIN 5480

K.00.. - K.97.. ABMESSUNGEN VON HOHLWELLE MIT VIELKEILVERZAHNUNG NACH DIN 5480

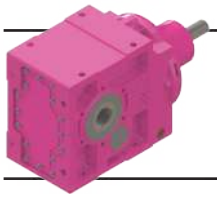


Tip *Type* Typ	DIN5480	ød	ød1	ød2	øda2	ødf2	l	l1	l2	l3	l4	MxL
K00	N25x1,25x30x18x9H	27	26	44	22,5	25,25	115	17	22	20	20	M10x60
K10 / K17	N30x1,25x30x22x9H	32	31	53	27,5	30,25	120	18	25	20	20	M10x60
K20 **K27** **K28**	N35x2x30x16x9H	37	36	64 58 63,5	31	35,4	140 157 166	18	35	20	20	M10x70 M10x90 M10x100
K37	N45x2x30x21x9H	47	46	74	41	45,4	185	25	45	24	32	M16x110
K47	N50x2x30x24x9H	55	51	84	46	50,4	215	25	55	24	32	M16x130
K57	N65x2x30x31x9H	72	66	104	61	65,4	246	25	65	30	40	M20x150
K67	N70x2x30x34x9H	72	71	119	66	70,4	308	25	75	30	40	M20x210
K77	N85x3x30x27x9H	90	86	139,5	79	85,6	363	26	90	30	40	M20x240
K87	N100x4x30x24x9H	110	101	169	92	100,8	428	30	105	41	50	M24x290
K97	N120x4x30x28x9H	130	121	179	112	120.8	500	35	120	41	50	M24x340

NOT: Makina mil boyu tek taraflı çoklu kama uzunluk ölçüsüne (l1+l2) göre yapılmalıdır! Delik mil boydan boya kullanılamaz!
NOTE: *The customer shaft length must be made only for one sided (l1+l2) splined hollow shaft dimensions! The total length (l) of the splined hollow shaft can not be used in this case!*
HINWEIS: Die Kundenwellenlänge muss nur für einseitig (l1+l2) Hohlwelle mit Vielkeilverzahnung gefertigt werden. Die Gesamtlänge der Hohlwelle (l) kann in diesem Fall nicht verwendet werden!

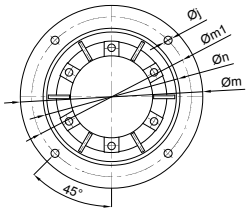


Tip *Type* Typ	DIN5480	ød	l1	l2	l3	l4	Me	Dm	g (DIN332)
K00	W25x1,25x30x18x8f	27	44	10	7	27	$28,01^{0\ /\ -0,03}$	2,75	M10x24
K10 / K17	W30x1,25x30x22x8f	32	48	11	7	30	$33,05^{0\ /\ -0,04}$	2,75	M10x24
K20 **K27** **K28**	W35x2x30x16x8f	37	58	11	7	40	$38,94^{0\ /\ -0,05}$	4,00	M10x24
K37	W45x2x30x21x8f	47	75	18	7	50	$48,88^{0\ /\ -0,05}$	4,00	M16x38
K47	W50x2x30x24x8f	55	85	18	7	60	$54,16^{0\ /\ -0,05}$	4,00	M16x38
K57	W65x2x30x31x8f	72	95	17	8	70	$68,99^{0\ /\ -0,06}$	4,00	M20x44
K67	W70x2x30x34x8f	72	105	17	8	80	$74,18^{0\ /\ -0,06}$	4,00	M20x44
K77	W85x3x30x27x8f	90	121	16	10	95	$91,02^{0\ /\ -0,05}$	6,00	M20x44
K87	W100x4x30x24x8f	110	140	20	10	110	$108,37^{0\ /\ -0,06}$	8,00	M24x52
K97	W120x4x30x28x8f	130	160	23	12	125	$127,89^{0\ /\ -0,06}$	8,00	M24x52

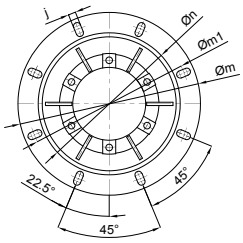


K SERİSİ OPSİYONEL ÇIKIŞ FLANŞ ÖLÇÜLERİ
OPTIONAL OUTPUT FLANGE DIMENSIONS FOR K SERIES
AUSWÄHLBARE ABTRIEBSFLANGEDIMENSIONEN FÜR BAUREIHE K

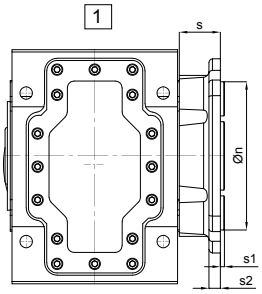
A



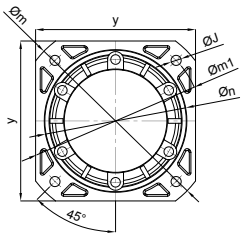
B



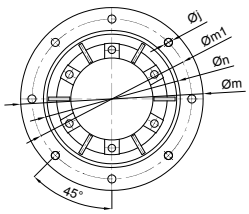
1



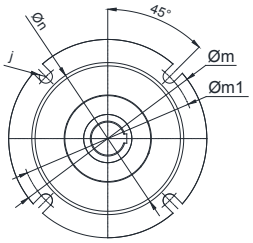
C



D



E

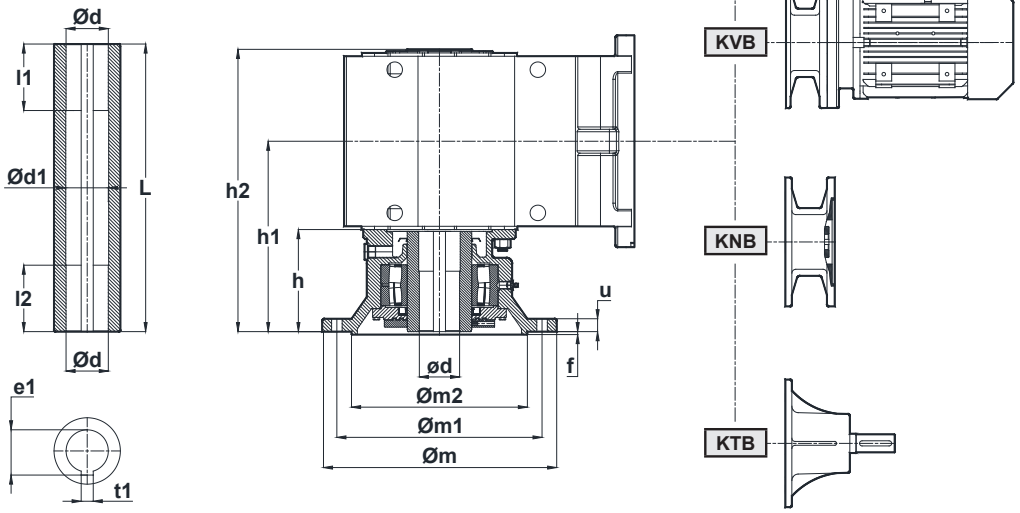


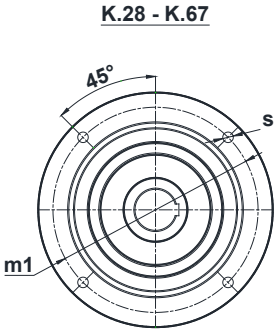
Tip *Type* Typ	Flanş Kodu *Flange Code* Flanschkode	Flanş Tipi *Flange Type* Flanschtyp	Montaj Ölçüleri *Mounting Dimensions* Montageabmessungen							
			øm	**øm1**	**øn**	j	**s**	**s1**	**s2**	**y**
K003	MX05.5K003-120	C1	120	100	80	8	46,5	3	9	110x110
K103 **K173**	DX05.5D173-200	E1	200	165	130	12	28	3,5	12	-
K203 **K273**	MX05.K273-160X01	A1	160	130	110	12	54	3,5	13	-
	MX05.5K273-250	C1	250	215	180	14	42	4	14	210x210
K283 **K373**	MX05.5K373-250X05	A1	250	215	180	Ø14	86	4	15	-
	MX05.5K373-300	C1	300	265	230	14	46	4	16	240x240
	DX05.5D283-200	A1	200	165	130	12	30	4	19	-
	DX05.5D283-250	A1	250	215	180	Ø14	40	4	15	-
	DX05.5D373-300	A1	300	265	230	Ø14	40,5	4	15	-
K473	MX05.5K473-250	A1	250	215	180	14	28	4	16	-
	MX05.5K473-350	A1	350	300	250	Ø18	46,5	4	18	-
K573 **K673**	MX05.5K573X08	C1	350	300	250	Ø18	78	5	18	280x280
	MX05.5K573-300	A1	300	265	230	M12	30	4	20	-
	MX05.5K673-450	B1	450	400	350	18	62	5	22	-
	DX05.5D573-400	D1	400	350	300	Ø18	55	5	20	-
	DX05.5D673-450	D1	450	400	350	Ø18	54,5	5	20	-
K773	MX05.5K773-400	B1	400	350	300	Ø18	77	5	24	-
K873	MX05.5K873-450	B1	450	400	350	Ø18	99	5	26	-
	MX05.5K873-550X01	B1	550	500	450	18	51	5	25	-

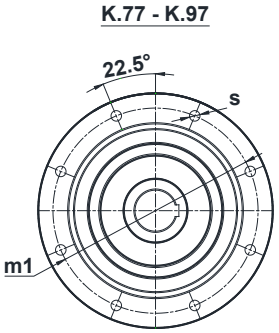
K SERİSİ DELİK MİLLİ KARIŞTIRICI REDÜKTÖRLERİ ÖLÇÜLERİ
K SERIES DRYWELL GEARBOXES WITH HOLLOW SHAFT DIMENSIONS
K SERIEN DRYWELL GETRIEBE MIT HOHLWELLE ABMESSUNGEN

0A Delik Mil Opsiyonu
0A Hollow Shaft Option
0A Hohlwelle-Ausführung

Çıkış Flanşı
Output Flange
Abtriebsflansch





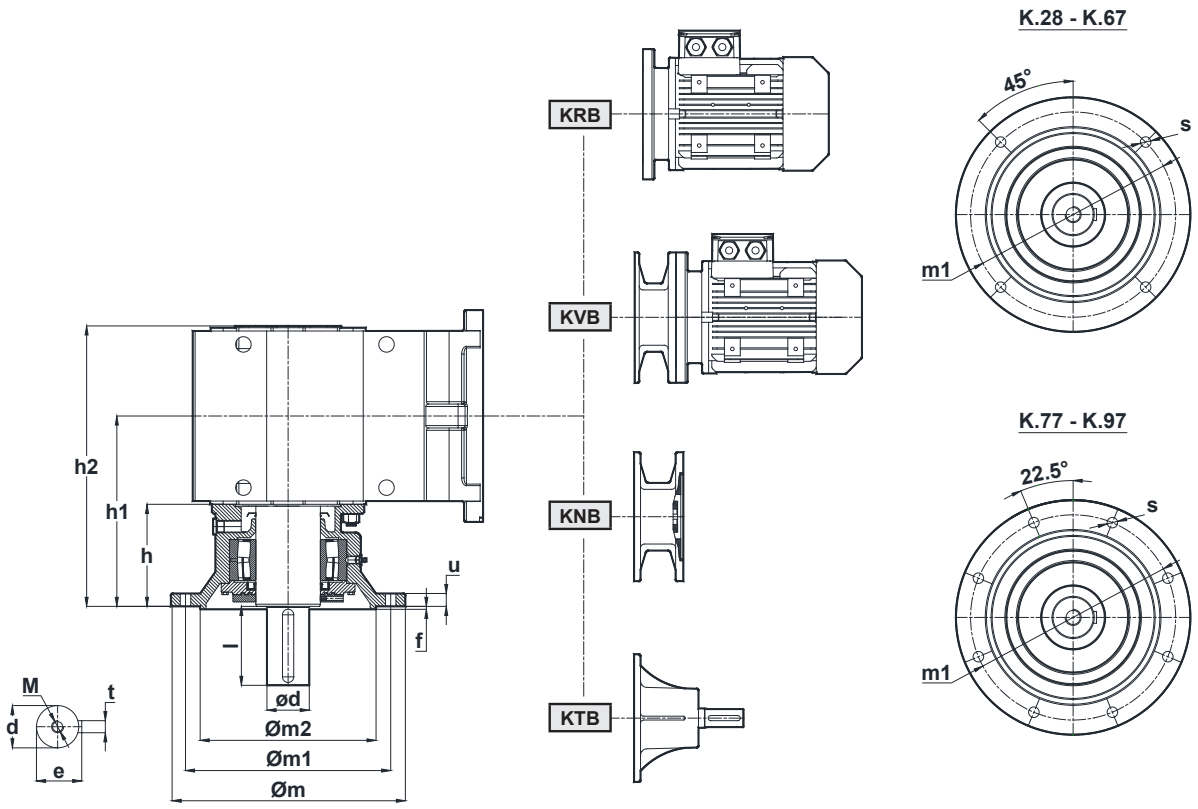


Tip *Type* Typ	m	m1	m2	h	h1	h2	f	u	s	L	l1	l2	d	d1	e1	t1
K.B 28	250	215	180	96	174	257	4	16	13,5x4	257	60	60	40	41	43,3	12
K.B 37	250	215	180	96	183	275,5	4	16	13,5x4	275,5	70	70	40	41	43,3	12
K.B 47	300	265	230	100	202	309,5	4	20	14x4	309,5	82	82	50	51	53,8	14
K.B 57	350	300	250	124	241,5	364,5	5	20	18x4	364,5	96	96	60	61	64,4	18
K.B 67	400	350	300	174	322	476	5	22	18x4	476	110	110	70	71	79,9	20
K.B 77	450	400	350	194	368	549,5	5	24	18x8	549,5	135	135	90	91	95,4	25
K.B 87	550	500	450	210	415	629	5	28	18x8	629	160	160	110	111	116,4	28
K.B 97	660	600	550	227	472	722	6	28	22x8	722	180	180	120	121	127,4	32

K SERİSİ DOLU MİLLİ KARIŞTIRICI REDÜKTÖRLERİ ÖLÇÜLERİ
K SERIES DRYWELL GEARBOXES WITH SOLID SHAFT DIMENSIONS
K SERIEN DRYWELL GETRIEBE MIT VOLLWELLE ABMESSUNGEN

1A Dolu Mil Opsiyonu
1A Solid Shaft Option
1A Vollwelle-Ausführung

Çıkış Flanşı
Output Flange
Abtriebsflansch

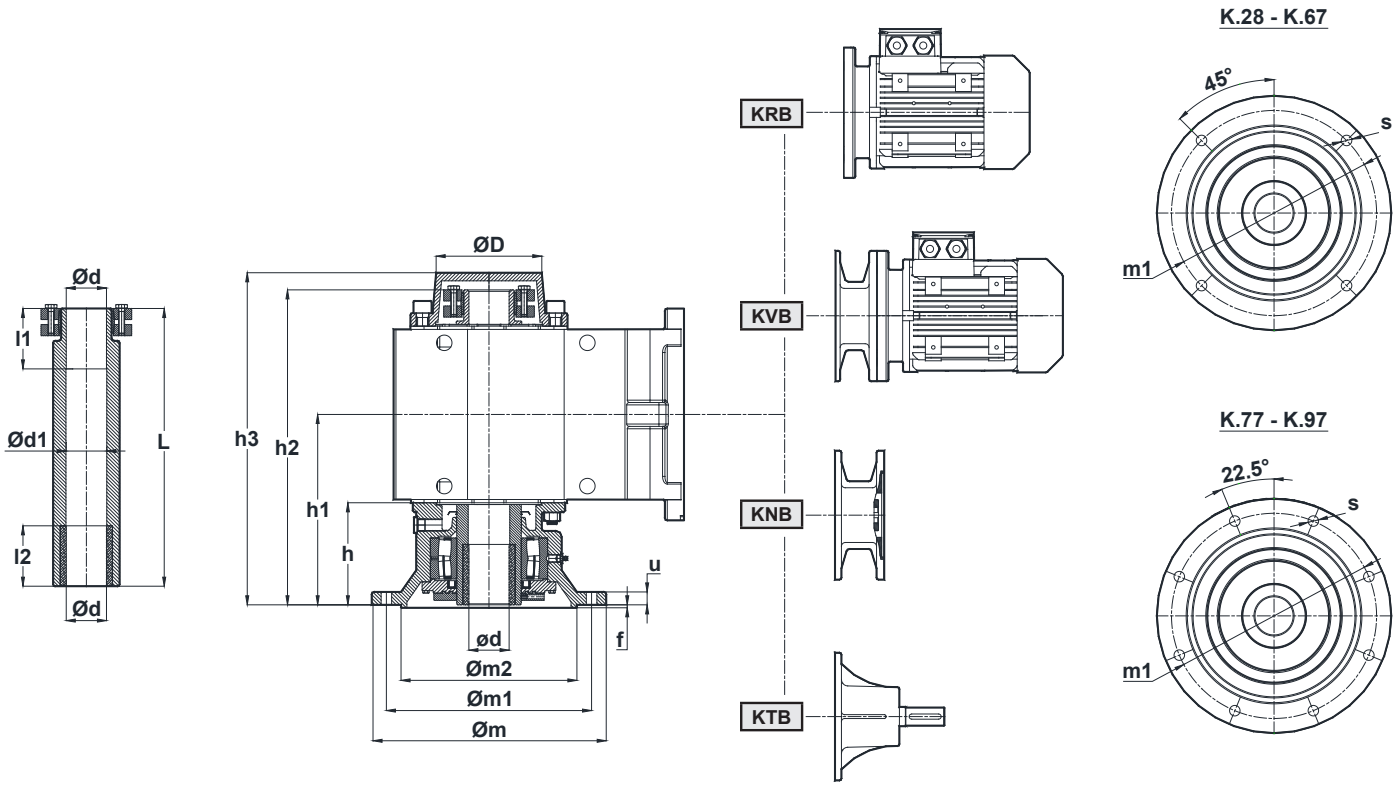


Tip *Type* Typ	m	m1	m2	h	h1	h2	f	u	s	d	l	e	t	M
K.B 28	250	215	180	96	174	255	4	16	13,5x4	40	80	43	12	M16
K.B 37	250	215	180	96	183	273	4	16	13,5x4	40	80	43	12	M16
K.B 47	300	265	230	100	202	307	4	20	14x4	50	100	53,5	14	M16
K.B 57	350	300	250	124	241,5	362	5	20	18x4	60	120	64	18	M20
K.B 67	400	350	300	174	322	473	5	22	18x4	75	140	79,5	20	M20
K.B 77	450	400	350	194	368	545	5	24	18x8	90	170	95	25	M24
K.B 87	550	500	450	210	415	625	5	28	18x8	110	210	116	28	M24
K.B 97	660	600	550	227	472	722	6	28	22x8	120	210	127	32	M24

K SERİSİ SIKMA BİLEZİKLİ KARIŞTIRICI REDÜKTÖRLERİ ÖLÇÜLERİ
K SERIES DRYWELL GEARBOXES WITH SHRINK DISK DIMENSIONS
K SERIEN DRYWELL GETRIEBE MIT SCHRUMPFSCHEIBE ABMESSUNGEN

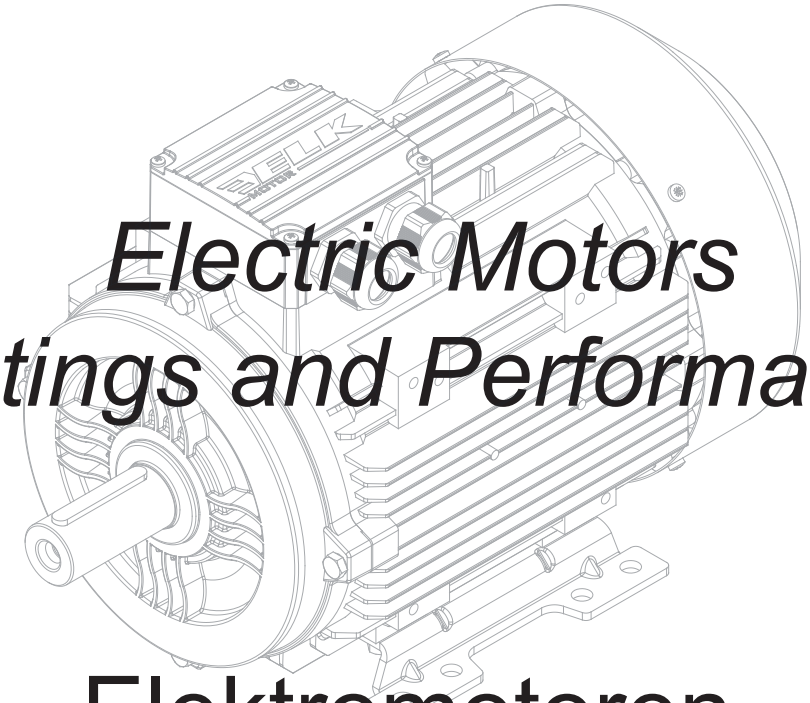
SA Sıkma Bilezik Opsiyonu
SA Shrink Disk Option
SA Schrumpfscheibe -Ausführung

Çıkış Flanşı
Output Flange
Abtriebsflansch



Tip *Type* Typ	m	m1	m2	h	h1	h2	h3	f	u	s	L	l1	l2	D	d	d1
K.B 28	250	215	180	96	174	288	305	4	16	13,5x4	288	35	30	106	40	41
K.B 37	250	215	180	96	183	306.5	323	4	16	13,5x4	306.5	45	50	106	40	41
K.B 47	300	265	230	100	202	343.5	358	4	20	14x4	343.5	47.5	52.5	129	50	51
K.B 57	350	300	250	124	241.5	400.5	421	5	20	18x4	400.5	55	60	164	60	61
K.B 67	400	350	300	174	322	512	532	5	22	18x4	512	60	65	164	70	71
K.B 77	450	400	350	194	368	604	624.5	5	24	18x8	604	80	80	219	90	91
K.B 87	550	500	450	210	415	693	718	5	28	18x8	693	85	90	260	110	111
K.B 97	660	600	550	227	472	792	817	6	28	22x8	792	90	80	288	120	121

Elektrik Motorlarının Performans Değerleri



Electric Motors Ratings and Performance

Elektromotoren Leistungsdaten

Elektrik Motorlarının Performans Değerleri
Electric Motors Ratings and Performance
Elektromotoren Leistungsdaten

400V 50Hz 3000 d/d / *400V 50Hz 3000 rpm* / 400V 50Hz 3000 UpM

IE4

Tip *Type* Typ	Tam Yük Değerleri *Full-load Data* Volllastdaten								Kalkış Değerleri *Starting Data* Startdaten		Devrilme Momenti *Breakdown Torque* Kippmoment	Atalet Momenti *Moment of Inertia* Trägheitsmoment	B3 Motor Ağırlığı *B3 Motor Weight* B3 Motor Gewicht	Ses Seviyesi *Noise Level* Geräuschpegel
	Güç *Power* Leistung	Devir *Speed* Drehzahl	Akım *Current* Nennstrom	Moment *Torque* Drehmoment	Güç Faktörü *Power Factor* Leistungsfaktor	Verim % η *Efficiency % η* Wirkungsgrad % η			Akım *Current* Nennstrom	Moment *Torque* Drehmoment				
	kW	d/d *rpm* UpM	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
4E71M/2B	0,37	2825	0,83	1,25	0,82	78,1	78,3	76,5	5,7	2,8	3,2	0,00037	6,50	58
4E71M/2C̆	0,55	2825	1,17	1,86	0,83	81,5	81,9	79,5	6,2	2,9	3,5	0,00046	7,50	58
4E80M/2C	0,75	2875	1,56	2,49	0,83	83,5	84,0	81,0	6,8	2,9	3,5	0,00124	11,0	59
4E80M/2D	1,10	2880	2,19	3,65	0,85	85,2	85,5	84,9	7,5	2,9	3,7	0,00135	12,0	59
4E90S/2C	1,50	2900	2,95	4,94	0,85	86,5	86,9	85,7	7,8	2,9	3,7	0,00221	17,2	64
4E90L/2D	2,20	2900	4,20	7,24	0,86	88,0	88,5	87,6	8,2	3,0	3,8	0,00234	20,0	64
4E100L/2D	3,00	2910	5,50	9,85	0,88	89,1	89,5	88,5	8,5	3,0	4,0	0,00503	25,9	67
4E112M/2D	4,00	2940	7,30	13,0	0,88	90,0	90,3	89,7	8,7	3,0	4,2	0,00734	32,5	70
4E132S/2C	5,50	2945	9,60	17,8	0,91	90,9	90,9	90,0	8,9	3,2	4,2	0,02104	52,5	72
4E132S/2D	7,50	2945	13,0	24,5	0,91	91,7	92,2	91,8	8,5	3,2	4,2	0,02290	54,0	72
4E160M/2C	11,0	2950	18,9	35,6	0,91	92,6	92,7	91,2	8,5	3,3	4,3	0,03913	89,0	74
4E160M/2D	15,0	2950	25,6	48,6	0,91	93,3	93,6	92,8	8,5	3,3	4,3	0,04409	95,2	74
4E160L/2E	18,5	2955	31,4	59,8	0,91	93,7	93,8	92,9	8,7	3,2	4,3	0,05000	101	74
4E180M/2C	22,0	2960	37,2	71,1	0,91	94,0	94,4	93,5	8,9	3,0	4,0	0,07000	195	74
4E200L/2C	30,0	2970	51,0	96,5	0,90	94,5	94,7	94,0	8,3	3,2	3,7	0,17500	272	74
4E200L/2D	37,0	2970	63,3	120	0,89	94,8	95,0	94,2	8,3	3,2	4,0	0,20000	295	74
4E225M/2D	45,0	2975	76,0	145	0,90	95,0	95,2	94,9	9,0	3,4	4,2	0,29000	385	74
4E250M/2D	55,0	2975	90,5	177	0,92	95,3	95,5	94,9	8,2	3,4	3,7	0,52000	520	74
4E280S/2C	75,0	2982	124	240	0,91	95,6	95,6	95,2	7,7	2,7	3,2	0,98000	640	76
4E280M/2D	90,0	2985	149	288	0,91	95,8	95,9	95,0	7,7	2,8	3,5	1,10000	720	77
4E315S/2C	110	2985	182	352	0,91	96,0	96,0	95,7	7,8	2,6	3,3	1,60000	905	77
4E315M/2D	132	2986	217	422	0,91	96,2	96,3	96,0	8,0	2,6	3,3	2,00000	1085	77
4E315L/2E	160	2986	260	512	0,92	96,3	96,5	96,0	8,0	2,7	3,4	2,20000	1195	78
4E315L/2F	200	2987	325	639	0,92	96,5	96,7	96,2	8,1	2,9	3,5	2,70000	1310	78

Elektrik Motorlarının Performans Değerleri
Electric Motors Ratings and Performance
Elektromotoren Leistungsdaten

400V 50Hz 1500 d/d / *400V 50Hz 1500 rpm* / 400V 50Hz 1500 UpM

IE4

Tip *Type* Typ	Tam Yük Değerleri *Full-load Data* Volllastdaten								Kalkış Değerleri *Starting Data* Startdaten		Devrilme Momenti *Breakdown Torque* Kippmoment	Atalet Momenti *Moment of Inertia* Trägheitsmoment	B3 Motor Ağırlığı *B3 Motor Weight* B3 Motor Gewicht	Ses Seviyesi *Noise Level* Geräuschpegel
	Güç *Power* Leistung	Devir *Speed* Drehzahl	Akım *Current* Nennstrom	Moment *Torque* Drehmoment	Güç Faktörü *Power Factor* Leistungsfaktor	Verim % η *Efficiency % η* Wirkungsgrad % η			Akım *Current* Nennstrom	Moment *Torque* Drehmoment				
	kW	d/d *rpm* UpM	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
4E132S/4D	5,50	1470	11,1	35,7	0,78	91,9	91,8	90,6	7,7	3,8	3,7	0,03418	60,0	61
4E132M/4F	7,50	1470	14,6	48,7	0,80	92,6	92,7	91,5	7,7	3,8	4,0	0,04316	72,8	62
4E160M/4E	11,0	1470	21,0	71,5	0,81	93,3	93,5	93,3	7,7	3,0	3,6	0,08600	116	64
4E160L/4F	15,0	1475	28,9	97,5	0,80	93,9	94,1	93,8	8,7	3,7	4,3	0,12000	130	64
4E180L/4D	18,5	1475	34,6	120	0,82	94,2	94,4	94,0	8,0	3,1	3,5	0,14700	190	64
4E180L/4E	22,0	1475	41,0	142	0,82	94,5	94,7	94,2	8,2	3,2	3,8	0,17000	212	64
4E200L/4E	30,0	1480	53,0	194	0,86	94,9	95,3	95,2	8,3	3,3	3,8	0,35000	310	64
4E225S/4D	37,0	1480	65,0	239	0,86	95,2	95,7	95,0	8,1	3,3	3,3	0,44100	355	70
4E225M/4E	45,0	1480	79,2	290	0,86	95,4	95,6	95,6	8,2	3,5	3,3	0,52000	405	70
4E250M/4D	55,0	1485	94,3	354	0,88	95,7	96,0	96,0	8,3	3,3	3,4	1,05000	522	70
4E280S/4D	75,0	1487	127	482	0,89	96,0	96,3	96,2	7,6	3,0	3,2	1,50000	670	70
4E280M/4E	90,0	1488	152	578	0,89	96,1	96,3	96,3	7,6	3,1	3,2	1,95000	790	71
4E315S/4D	110	1490	187	705	0,88	96,3	96,5	96,0	7,8	2,8	3,3	2,80000	975	73
4E315M/4E	132	1490	225	846	0,88	96,4	96,7	96,2	8,0	2,9	3,3	3,30000	1050	73
4E315L/4F	160	1490	269	1026	0,89	96,6	96,9	96,5	8,2	3,1	3,4	4,40000	1250	76
4E315L/4G	200	1490	335	1282	0,89	96,7	97,0	96,6	8,3	3,3	3,5	5,20000	1490	76

Elektrik Motorlarının Performans Değerleri
Electric Motors Ratings and Performance
Elektromotoren Leistungsdaten

400V 50Hz 3000 d/d / *400V 50Hz 3000 rpm* / 400V 50Hz 3000 UpM

IE3

Tip / *Type* / Typ	Tam Yük Değerleri / *Full-load Data* / Volllastdaten								Kalkış Değerleri / *Starting Data* / Startdaten		Devrilme Momenti / *Breakdown Torque* / Kippmoment	Atalet Momenti / *Moment of Inertia* / Trägheitsmoment	B3 Motor Ağırlığı / *B3 Motor Weight* / B3 Motor Gewicht	Ses Seviyesi / *Noise Level* / Geräuschpegel
	Güç / *Power* / Leistung	Devir / *Speed* / Drehzahl	Akım / *Current* / Nennstrom	Moment / *Torque* / Drehmoment	Güç Faktörü / *Power Factor* / Leistungsfaktor	Verim % η / *Efficiency % η* / Wirkungsgrad % η			Akım / *Current* / Nennstrom	Moment / *Torque* / Drehmoment				
	kW	d/d *rpm* UpM	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
3E63M/2A	0,18	2805	0,48	0,61	0,77	70,0	68,5	62,8	4,5	3,0	3,1	0,00012	3,80	51
3E63M/2B	0,25	2805	0,48	0,85	0,79	71,0	69,7	64,2	4,6	3,0	3,1	0,00015	4,20	51
3E71M/2B	0,37	2830	0,84	1,25	0,82	76,6	77,0	75,0	6,0	2,8	3,0	0,00037	6,20	53
3E71M/2C	0,55	2830	1,19	1,86	0,84	79,4	80,2	78,8	6,1	2,9	3,3	0,00046	7,20	53
3E80M/2B	0,75	2880	1,59	2,49	0,84	80,7	82,0	81,5	6,7	3,0	3,6	0,00103	9,60	54
3E80M/2C	1,1	2880	2,26	3,64	0,85	82,7	83,0	82,4	6,8	3,1	3,8	0,00124	10,9	54
3E90S/2B	1,5	2900	2,97	4,94	0,86	84,8	85,4	84,2	7,6	3,1	3,9	0,00178	15,6	59
3E90L/2C	2,2	2900	4,25	7,24	0,87	85,9	86,8	86,1	7,2	3,0	3,8	0,00221	17,0	59
3E100L/2C	3	2910	5,58	9,85	0,89	87,1	87,6	86,9	7,9	3,0	4,1	0,00450	23,3	62
3E112M/2C	4	2915	7,28	13,1	0,90	88,1	88,8	88,2	7,5	2,6	3,9	0,00618	29,1	65
3E132S/2B	5,5	2945	9,9	17,8	0,90	89,2	89,0	88,6	8,9	2,9	3,9	0,01732	44,4	67
3E132S/2C	7,5	2945	13,2	24,3	0,91	90,1	90,5	89,7	8,4	2,6	4,0	0,02104	51,5	67
3E160M/2B	11	2950	19,7	35,6	0,88	91,2	91,0	90,5	8,0	2,6	3,9	0,03318	79,7	69
3E160M/2C	15	2950	26,5	48,6	0,89	91,9	92,1	91,6	8,9	3,1	4,2	0,03913	86,0	69
3E160L/2D	18,5	2945	31,7	60	0,91	92,4	92,7	92,3	8,9	3,1	4,2	0,04409	96,8	69
3E180M/2B	22	2957	38,1	71,1	0,90	92,7	92,9	92,0	8,6	2,6	3,9	0,06299	178	70
3E200L/2B	30	2970	52	96,5	0,89	93,6	93,8	93,6	8,9	3,2	3,5	0,16168	245	72
3E200L/2C	37	2970	62,6	119	0,91	93,7	93,8	93,4	8,9	3,2	3,4	0,17458	270	72
3E225M/2C	45	2975	75,6	144	0,91	94,3	94,6	94,0	8,9	3,5	3,1	0,25353	335	74
3E250M/2C	55	2970	93,3	177	0,90	94,4	94,8	94,5	8,9	3,3	3,4	0,38000	422	75
3E280S/2B	75	2980	127	240	0,90	94,7	94,7	94,0	7,5	2,7	3,2	0,79000	560	76
3E280M/2C	90	2983	150	288	0,91	95,0	95,1	94,5	7,6	2,7	3,1	0,90000	630	76
3E315S/2B	110	2982	185	352	0,90	95,2	95,3	94,6	7,6	2,5	3,0	1,50000	745	76
3E315S/2C	132	2983	220	422	0,91	95,4	95,5	94,8	7,7	2,6	3,1	1,60000	870	77
3E315M/2D	160	2983	263	512	0,92	95,6	95,7	95,0	7,8	2,7	3,1	2,00000	970	78
3E315L/2E	200	2984	328	640	0,92	95,8	95,9	95,2	7,8	2,8	3,2	2,20000	1130	78

Elektrik Motorlarının Performans Değerleri
Electric Motors Ratings and Performance
Elektromotoren Leistungsdaten

400V 50Hz 1500 d/d / *400V 50Hz 1500 rpm* / 400V 50Hz 1500 UpM

IE3

Tip / *Type* / Typ	Tam Yük Değerleri / *Full-load Data* / Volllastdaten								Kalkış Değerleri / *Starting Data* / Startdaten		Devrilme Momenti / *Breakdown Torque* / Kippmoment	Atalet Momenti / *Moment of Inertia* / Trägheitsmoment	B3 Motor Ağırlığı / *B3 Motor Weight* / B3 Motor Gewicht	Ses Seviyesi / *Noise Level* / Geräuschpegel
	Güç / *Power* / Leistung	Devir / *Speed* / Drehzahl	Akım / *Current* / Nennstrom	Moment / *Torque* / Drehmoment	Güç Faktörü / *Power Factor* / Leistungsfaktor	Verim % η / *Efficiency % η* / Wirkungsgrad % η			Akım / *Current* / Nennstrom	Moment / *Torque* / Drehmoment				
	kW	d/d *rpm* UpM	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
3E63M/4B	0,12	1405	0,37	0,82	0,70	66,0	64,9	58,2	3,7	2,3	2,7	0,00018	3,60	42
3E63M/4C	0,18	1405	0,52	1,22	0,71	69,9	68,8	63,6	3,8	2,3	2,8	0,00022	4,20	42
3E71M/4C	0,25	1435	0,67	1,66	0,71	76,0	75,4	71,5	5,4	2,2	3,0	0,00082	6,8	45
3E71M/4D	0,37	1435	0,97	2,46	0,70	78,5	78,2	75,0	5,5	2,2	3,1	0,00093	7,5	45
3E80M/4C	0,55	1450	1,34	3,62	0,73	80,8	80,4	77,0	5,9	2,1	3,1	0,00200	10,5	50
3E80M/4D	0,75	1450	1,77	4,94	0,74	82,5	82,3	80,0	6,2	2,5	3,4	0,00227	11,6	50
3E90S/4C	1,1	1450	2,46	7,25	0,76	84,5	84,3	82,0	7,0	2,6	3,6	0,00355	16,3	51
3E90L/4D	1,5	1450	3,3	9,91	0,77	85,3	85,2	83,0	7,2	2,8	3,8	0,00411	18,0	51
3E100L/4C	2,2	1450	4,65	14,5	0,79	86,7	87,2	86,0	7,2	2,8	3,6	0,00775	24,4	53
3E100L/4D	3	1450	6,26	19,8	0,79	87,7	88,0	87,0	7,2	2,8	3,6	0,00888	26,7	53
3E112M/4D	4	1460	8,05	26,2	0,81	88,6	88,4	87,5	7,4	2,8	3,8	0,01437	33,9	58
3E132S/4C	5,5	1465	10,9	36,0	0,81	89,6	90,2	90,0	7,0	3,0	3,4	0,03059	53,4	61
3E132M/4D	7,5	1465	14,4	48,9	0,83	90,4	90,4	89,4	7,9	3,0	3,4	0,03418	59,5	61
3E160M/4C	11	1465	21	71,7	0,83	91,5	92,1	91,7	7,6	2,8	3,3	0,07011	89,2	63
3E160L/4D	15	1465	28,7	97,8	0,82	92,1	92,4	91,9	7,8	2,8	3,6	0,08579	97,5	63
3E180M/4C	18,5	1475	35	120	0,82	92,6	93,2	92,9	7,7	3,0	3,3	0,12901	173	64
3E180L/4D	22	1470	41,4	143	0,82	93,0	93,7	93,7	8,0	3,0	3,4	0,14667	187	64
3E200L/4D	30	1475	54,5	194	0,85	93,6	94,1	94,0	8,0	3,0	3,4	0,28413	258	65
3E225S/4C	37	1478	65,7	239	0,87	93,9	94,5	94,5	8,3	3,2	3,3	0,38229	320	66
3E225M/4D	45	1477	80	291	0,86	94,2	94,7	94,7	8,6	3,3	3,2	0,44100	352	67
3E250M/4D	55	1482	95,3	354	0,88	94,6	95,1	95,2	8,7	3,3	3,2	0,73000	470	68
3E280S/4C	75	1485	130	482	0,88	95,0	95,3	95,1	7,9	3,0	3,2	1,40000	646	69
3E280M/4D	90	1485	156	579	0,88	95,2	95,7	95,7	7,9	3,1	3,2	1,50000	670	70
3E315S/4C	110	1488	191	706	0,87	95,4	95,7	95,3	7,5	2,7	3,0	2,40000	850	72
3E315M/4D	132	1489	229	846	0,87	95,6	95,9	95,5	7,5	2,7	3,0	2,80000	920	73
3E315L/4E	160	1490	274	1026	0,88	95,8	96,0	95,7	7,6	2,8	3,1	3,30000	1020	73
3E315L/4F	200	1491	341	1282	0,88	96,0	96,2	95,9	7,6	2,9	3,1	4,40000	1200	73

Elektrik Motorlarının Performans Değerleri
Electric Motors Ratings and Performance
Elektromotoren Leistungsdaten

400V 50Hz 1000 d/d / *400V 50Hz 1000 rpm* / 400V 50Hz 1000 UpM

IE3

Tip *Type* Typ	Tam Yük Değerleri *Full-load Data* Volllastdaten								Kalkış Değerleri *Starting Data* Startdaten		Devrilme Momenti *Breakdown Torque* Kippmo-ment	Atalet Momenti *Moment of Inertia* Trägheits-moment	B3 Motor Ağırlığı *B3 Motor Weight* B3 Motor Gewicht	Ses Seviyesi *Noise Level* Geräusch-pegel
	Güç *Power* Leistung	Devir *Speed* Drehzahl	Akım *Current* Nennstrom	Moment *Torque* Drehmoment	Güç Faktörü *Power Factor* Leistungsfaktor	Verim % η *Efficiency % η* Wirkungsgrad % η			Akım *Current* Nennstrom	Moment *Torque* Drehmoment				
	kW	d/d *rpm* UpM	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
3E71M/6C	0,18	930	0,55	1,85	0,69	68,0	67,4	62,6	3,6	2,0	2,4	0,00096	6,7	41
3E71M/6D	0,25	930	0,77	2,57	0,67	70,0	69,7	66,0	3,6	2,2	2,5	0,00116	7,5	41
3E80M/6B	0,37	930	1,03	3,8	0,70	74,0	73,8	70,0	4,4	2,1	2,6	0,00202	9,8	43
3E80M/6C	0,55	935	1,47	5,62	0,70	77,2	77,3	74,4	4,3	2,2	2,7	0,00228	10,6	43
3E90S/6B	0,75	945	1,96	7,58	0,70	78,9	79,2	77,6	4,7	2,2	2,7	0,00354	14,6	46
3E90L/6C	1,1	940	2,75	11,2	0,71	81,0	80,8	79,4	5,0	2,2	2,7	0,00428	17,0	46
3E100L/6B	1,5	955	3,5	15	0,75	82,5	82,7	81,4	5,3	2,1	2,8	0,00821	22,5	50
3E112M/6B	2,2	960	4,95	21,9	0,76	84,3	84,5	83,5	5,5	2,2	3,0	0,01319	27,2	56
3E132S/6B	3	970	6,55	29,4	0,77	85,6	85,5	84,5	6,2	2,1	3,0	0,03051	46,5	58
3E132M/6C	4	970	8,52	39,4	0,78	86,8	87,0	85,5	6,2	2,2	3,0	0,03493	51,0	58
3E132M/6D	5,5	965	11,6	54,4	0,78	88,0	88,9	88,5	6,2	2,2	3,0	0,03934	56,0	58
3E160M/6D	7,5	972	15,6	73,7	0,78	89,1	89,4	88,4	6,3	2,6	3,0	0,07870	96,0	61
3E160L/6E	11	972	22,9	108	0,77	90,3	90,9	90,5	6,6	2,9	3,3	0,08580	104	62
3E180L/6E	15	975	30,80	147	0,77	91,2	91,6	91,0	6,7	2,9	3,1	0,15264	187	63
3E200L/6C	18,5	977	36,4	181	0,80	91,7	91,8	91,8	6,1	2,6	2,6	0,36100	225	64
3E200L/6D	22	978	42,5	215	0,81	92,2	92,9	93,0	6,2	2,6	2,7	0,39355	245	64
3E225M/6C	30	985	57,6	291	0,81	92,9	92,9	92,6	6,6	2,6	2,7	0,60000	326	65
3E250M/6C	37	988	68,8	358	0,83	93,4	93,6	93,5	6,8	2,9	2,8	0,82000	432	65
3E280S/6B	45	989	83,5	435	0,83	93,7	93,9	93,2	6,8	2,9	2,8	1,45000	540	65
3E280M/6C	55	989	102	531	0,83	94,1	94,4	93,5	6,9	2,9	2,8	1,6500	575	65
3E315S/6B	75	990	136	723	0,84	94,6	94,8	94,2	7,2	2,7	3,0	2,70000	760	67
3E315M/6C	90	991	163	867	0,84	94,9	95,0	94,5	7,2	2,7	3,0	3,5000	890	67
3E315M/6D	110	991	197	1060	0,85	95,1	95,2	94,9	7,2	2,8	3,0	3,80000	1010	68
3E315L/6E	132	991	235	1272	0,85	95,4	95,5	95,2	7,2	2,8	3,1	4,50000	1160	68

Elektrik Motorlarının Performans Değerleri
Electric Motors Ratings and Performance
Elektromotoren Leistungsdaten

400V 50Hz 3000 d/d / *400V 50Hz 3000 rpm* / 400V 50Hz 3000 UpM **IE2**

Tip *Type* Typ	Tam Yük Değerleri *Full-load Data* Volllastdaten								Kalkış Değerleri *Starting Data* Startdaten		Devrilme Momenti *Breakdown Torque* Kippmoment	Atalet Momenti *Moment of Inertia* Trägheitsmoment	B3 Motor Ağırlığı *B3 Motor Weight* B3 Motor Gewicht	Ses Seviyesi *Noise Level* Geräuschpegel
	Güç *Power* Leistung	Devir *Speed* Drehzahl	Akım *Current* Nennstrom	Moment *Torque* Drehmoment	Güç Faktörü *Power Factor* Leistungsfaktor	Verim % η *Efficiency % η* Wirkungsgrad % η			Akım *Current* Nennstrom	Moment *Torque* Drehmoment				
	kW	d/d *rpm* UpM	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
2E63M/2A	0,18	2800	0,5	0,61	0,77	67,5	66,0	62,0	4,5	2,9	3,0	0,00012	3,80	51
2E63M/2B	0,25	2800	0,67	0,85	0,78	69,0	68,0	63,5	4,5	2,9	3,0	0,00015	4,20	51
2E71M/2A	0,37	2790	0,90	1,26	0,80	74,2	74,5	72,5	5,0	2,5	2,8	0,00031	5,50	54
2E71M/2B	0,55	2790	1,27	1,88	0,82	75,8	77,0	76,0	5,0	2,8	2,9	0,00037	6,30	54

400V 50Hz 1500 d/d / *400V 50Hz 1500 rpm* / 400V 50Hz 1500 UpM **IE2**

Tip *Type* Typ	Tam Yük Değerleri *Full-load Data* Volllastdaten								Kalkış Değerleri *Starting Data* Startdaten		Devrilme Momenti *Breakdown Torque* Kippmoment	Atalet Momenti *Moment of Inertia* Trägheitsmoment	B3 Motor Ağırlığı *B3 Motor Weight* B3 Motor Gewicht	Ses Seviyesi *Noise Level* Geräuschpegel
	Güç *Power* Leistung	Devir *Speed* Drehzahl	Akım *Current* Nennstrom	Moment *Torque* Drehmoment	Güç Faktörü *Power Factor* Leistungsfaktor	Verim % η *Efficiency % η* Wirkungsgrad % η			Akım *Current* Nennstrom	Moment *Torque* Drehmoment				
	kW	d/d *rpm* UpM	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
2E63M/4B	0,12	1400	0,42	0,82	0,70	60,1	60,5	54,5	3,0	2,1	2,3	0,00018	3,60	42
2E63M/4C	0,18	1400	0,56	1,23	0,71	64,7	65,8	61,5	3,0	2,1	2,3	0,00022	4,20	42
2E71M/4B	0,25	1425	0,71	1,68	0,69	74,0	73,5	70,5	4,4	2,0	3,0	0,00067	5,90	46
2E71M/4C	0,37	1425	1,00	2,47	0,70	76,1	75,5	71,5	4,6	2,0	3,0	0,00082	6,70	46
2E80M/4B	0,55	1440	1,45	3,65	0,71	77,1	76,7	75,0	5,2	2,0	3,0	0,00175	9,70	50

400V 50Hz 1000 d/d / *400V 50Hz 1000 rpm* / 400V 50Hz 1000 UpM **IE2**

Tip *Type* Typ	Tam Yük Değerleri *Full-load Data* Volllastdaten								Kalkış Değerleri *Starting Data* Startdaten		Devrilme Momenti *Breakdown Torque* Kippmoment	Atalet Momenti *Moment of Inertia* Trägheitsmoment	B3 Motor Ağırlığı *B3 Motor Weight* B3 Motor Gewicht	Ses Seviyesi *Noise Level* Geräuschpegel
	Güç *Power* Leistung	Devir *Speed* Drehzahl	Akım *Current* Nennstrom	Moment *Torque* Drehmoment	Güç Faktörü *Power Factor* Leistungsfaktor	Verim % η *Efficiency % η* Wirkungsgrad % η			Akım *Current* Nennstrom	Moment *Torque* Drehmoment				
	kW	d/d *rpm* UpM	A	Nm	Cosφ	4 / 4	3 / 4	1 / 2	I_A/I_N	M_A/M_N	M_K/M_N	kgm^2	kg	dB(A)
2E71M/6B	0,18	920	0,60	1,87	0,67	64,5	63,0	57,0	3,2	1,9	2,3	0,00076	5,90	42
2E71M/6C	0,25	920	0,78	2,59	0,69	66,5	66,0	61,0	3,3	1,9	2,3	0,00096	6,60	42
2E80M/6A	0,37	925	1,08	3,82	0,69	71,4	71,5	70,0	4,0	2,0	2,6	0,00176	9,10	45
2E80M/6B	0,55	932	1,50	5,64	0,72	73,5	74,0	71,0	4,2	2,1	2,6	0,00202	9,90	45

Notlar / *Notes* / Notizen