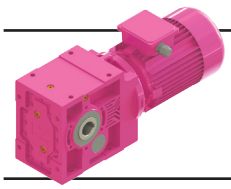


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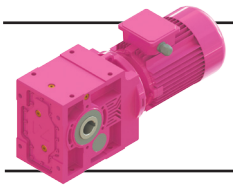
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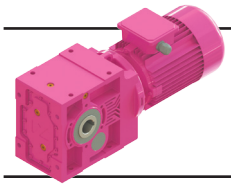
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Genel Bilgiler
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Sembollerin Açıklaması	*Key of Symbols*	Erklärung der Bezeichnungen
c_t : Anahtarın devreye girme zamanı katsayısı	c_t : *Coefficient of switch on time.*	c_t : Koeffizient der Betätigung 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]



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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.

- Y Serisi
Yatık tip redüktörler, ağır şartlarda çalışmak üzere dizayn edilmiş redüktör tipleridir. Bu tiplerde redüktör ile bunu tahrik eden mekanizma arasında değişik bağlantı şekilleri mevcuttur (Mekanik ve hidrolik kaplinler, çeşitli tip kayışlar ve zincirle tahrik gibi). 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.

- Y Series
Horizontal type gearboxes are designed to operate in heavy conditions. In these types there are a lot of combination forms between gearbox and driver (for example, mechanic and hydraulic couplings, various belt and chain drives etc.). 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.

- Y Serie
Diese Getrieben sind für Einsatz unter schweren Bedingungen ausgelegt. Bei dieser Ausführung gibt es sehr viele verschiedene Verbindungsmöglichkeiten zwischen Antrieb und Getriebe (Zum Beispiel; mechanische und hydraulische Kupplungen, Riementrieb, Kettentrieb usw.). Kann Voll- und Hohlwelle am Ausgang haben.

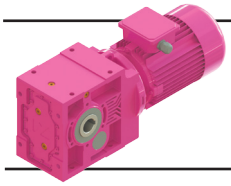
- K Serie
Diese Getrieben bestehen aus Stirnräder und Kegelräder. Die Antrieb und Abtriebswellen sind senkrecht und haben einen Abstand zueinander. Das Getriebe wird mit Fußbefestigung, Flanschverbindung oder Drehmomentstütze an die angetriebene Maschine montiert. Der Wirkungsgrad ist wesentlich höher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



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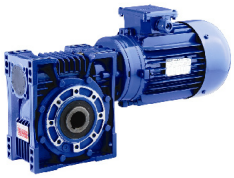
M ...

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



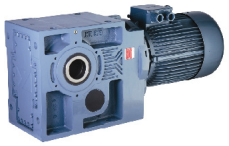
N ...

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 ...

10 farklı büyüklükte;
Moment aralığı: 80 - 15.000 Nm
Devir aralığı: 0,1 - 400 d/dak
10 different sizes:
Torque range: 80 - 15.000 Nm
Speed range: 0,1 - 400 rpm
10 verschiedene Baugrößen:
Drehmomentbereich: 80 - 15.000 Nm
Drehzahlbereich : 0,1 - 400 U/min



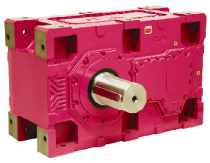
D...

10 farklı büyüklükte;
Moment aralığı: 130 - 18.000 Nm
Devir aralığı: 0,1 - 350 d/dak
10 different sizes:
Torque range: 130 - 18.000 Nm
Speed range: 0,1 - 350 rpm
10 verschiedene Baugrößen:
Drehmomentbereich: 130 - 18.000 Nm
Drehzahlbereich : 0,1 - 350 U/min



Y ...

25 farklı büyüklükte;
Moment aralığı: 1200 - 43000 Nm
Devir aralığı: 2,6 - 990 d/dak
25 different sizes:
Torque range: 1200 - 43000Nm
Speed range: 2,6 - 990 rpm
25 verschiedene Baugrößen:
Drehmomentber. :1200-43000 Nm
Drehzahlbereich : 2,6-990 U/min



H ...

14 farklı büyüklükte;
Moment aralığı: 2.500 - 165.000 Nm
Devir aralığı: 0,1 - 250 d/dak
14 different sizes:
Torque range: 2.500 - 165.000 Nm
Speed range: 0,1 - 250 rpm
13 verschiedene Baugrößen:
Drehmomentber. :2.500 - 165.000 Nm
Drehzahlbereich : 0,1 - 250 U/min



B ...

14 farklı büyüklükte;
Moment aralığı: 5.000 - 165.000 Nm
Devir aralığı: 0,1 - 115 d/dak
14 different sizes:
Torque range: 5.000 - 165.000 Nm
Speed range: 0,1 - 115 rpm
14 verschiedene Baugrößen:
Drehmomentber. :5.000-165.000 Nm
Drehzahlbereich : 0,1-115 U/min



P ...

10 farklı büyüklükte;
Moment aralığı: 1.000 - 50.000 Nm
Tahvil oranları: 3,5 - 3000 arası
10 different sizes:
Torque range: 1.000 - 50.000 Nm
Transmission ratio: 3,5 - 3000
10 verschiedene Baugrößen:
Drehmomentber. : 1.000 - 50.000 Nm
Übersetzung: 3,5 - 3000



R ...

10 farklı büyüklükte;
Moment aralığı: 1.000 - 50.000 Nm
Tahvil oranları: 3,5 - 3000 arası
10 different sizes:
Torque range: 1.000 - 50.000 Nm
Transmission ratio: 3,5 - 3000
10 verschiedene Baugrößen:
Drehmomentber. : 1.000 - 50.000 Nm
Übersetzung: 3,5 - 3000



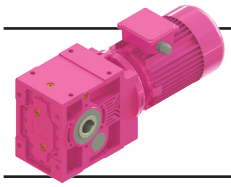
T ...

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



V ...

5 farklı büyüklükte;
M1 - M8 ,(1Dm - 5m) vinç sınıfları
ISO 4301 / 1 ,(FEM 9.511/86)
5 different sizes
M1 - M8 ,(1Dm - 5m) crane classes
ISO 4301 / 1 ,(FEM 9.511 / 86)
5 verschiedene Baugrößen
M1 - M8 ,(1Dm - 5m) Kranklasse
ISO 4301 / 1 ,(FEM 9.511 / 86)



Genel Bilgiler
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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.

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.*

Allgemeine Eigenschaften von K Serie Getrieben

K Serie Getriebe sind Kegelradgetriebe mit Monoblok-Gehäuse. Eingang- und Ausgangswelle sind senkrecht zueinander. Diese Getriebe sind für Einsätze, wo hohe Wirkungsgrad und Festigkeit benötigt wird, konstruiert.

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.

Kegelradgetriebe können nur maximal mit 3 Stufen in einem Gehäuse hergestellt werden. K Serie Getriebe werden für hohe Untersetzungen mit Hilfe von zusätzlichem Gehäuse bis zu 6 Stufen ausgeführt.??????????????

Als YILMAZ REDÜKTÖR unsere Entwurfsprinzipien sind;
- Verwenden von hohen Fertigungstech.
- Hohe Betriebssicherheit
- Leistungsdichte
- Hoher Wirkungsgrad
- Universale Montagemöglichkeit
- Sonderlösungen

Bitte folgende Punkte beachten !

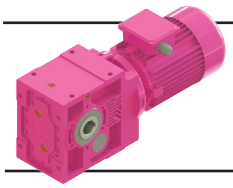
- Die Abbildungen sind beispielhaft und nicht verbindlich.

- 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.



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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 M 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 M 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 dem 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 M 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.

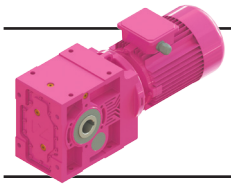
- Zulässige Axial- oder Querkräfte:
Fqem, Fqam [N]
Bei der Anwendungen während der Betrieb zulässige axiale oder radiale Eingangs- oder Ausgangsbelastungen.

- 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
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- 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.

- 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.

- Schmierung:

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

- Zubehör:

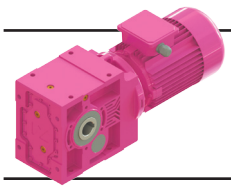
Folgendes Zubehör kann für Getriebe der K Serie geliefert werden.
- IEC B5 Motor Adapter,
- Abtriebsflansch,
- Schrumpfscheiben,
- Rücklaufsperren,
- Unterschiedliche Dichtungssysteme,
- Ölstandzeiger
- Drehmomentstütze
- Elektromagnetische Bremsen

Für weiteres Zubehör kontaktieren Sie bitte mit,
YILMAZ REDÜKTÖR.




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

K R 3 7 3 . 02 R - M2 T1 - 90S/4 - 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

Motor Büyüklüğü / *Motor Size /* Motorbaugröße

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

90 S / 4

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

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	

Tork Kolu Pozisyonu / *Torque Arm Position /* Position von Drehmomentstütze
Sayfa 471 ve 472'ye bakınız. / Please see page 471 and 472 / Siehe seite 471 und 472

Montaj Pozisyonu / *Mounting Position* / Bauform
Sayfa 34'e bakınız. / Please see page 34 / Siehe seite 34

Çıkış Mil - Flanş Yönü / Output Shaft - Flange Position **/** Ausgangswelle - Seite von der 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 doppelte Abtriebswelle
05 :**Çift flanşlı ve çift çıkış milli** / *Double flanged and double output shaft* / Mit doppelte Flansch unf doppelte Abtriebswelle
08 :**Çift flanşlı delik milli** /*Double flanged and hollow output shaft* / Doppelte Flansch und Aufsteckenwelle
0S :**Sıkma Bilezikli** / *Shrink disk output /* Schrumpfscheibe
0E :**Ekstruder Çıkışlı** / *Extruder output* / Extruder-Ausgang

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

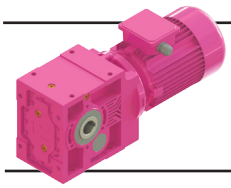
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Giriş Tipi / *Input Type /* Eingangstyp

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

Redüktör Tipi / *Gearbox Type /* Getriebe

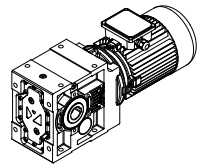
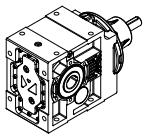
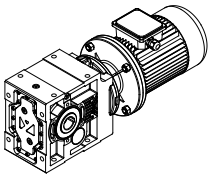
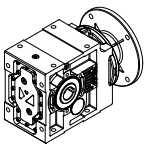
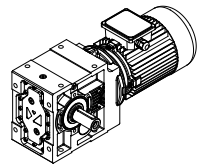
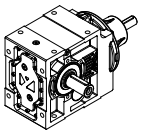
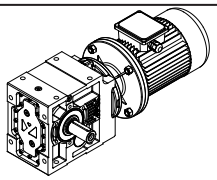
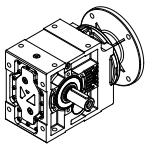
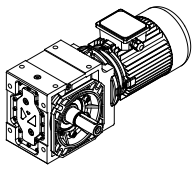
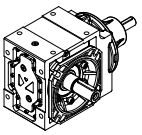
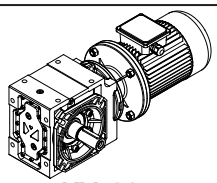
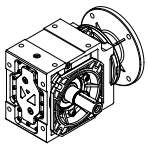
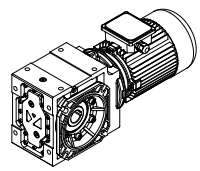
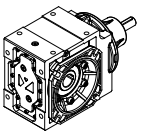
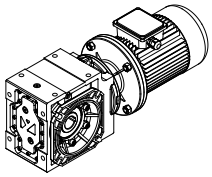
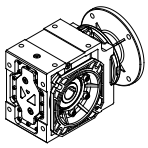
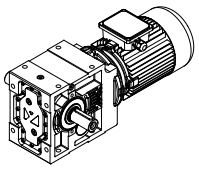
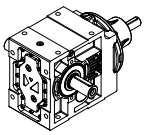
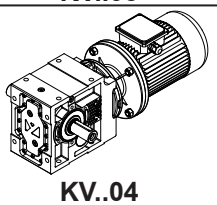
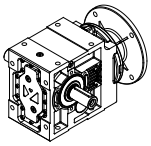
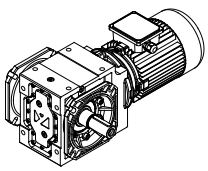
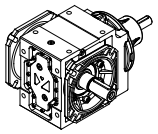
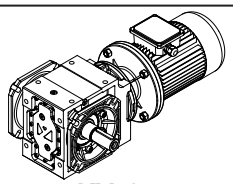
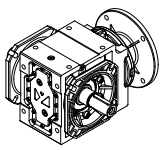
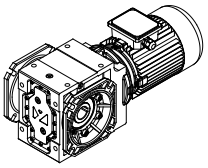
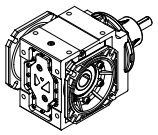
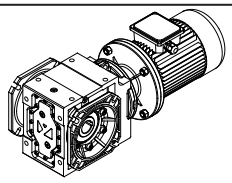
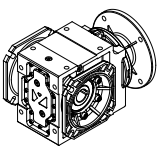
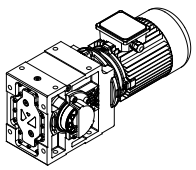
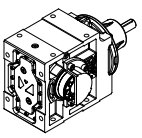
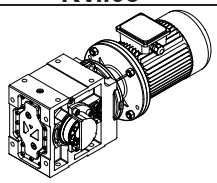
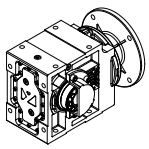
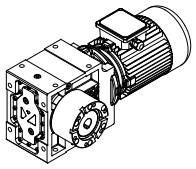
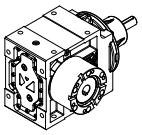
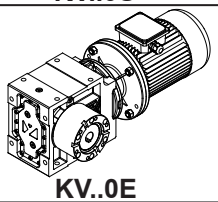
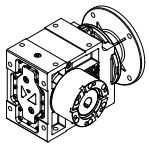
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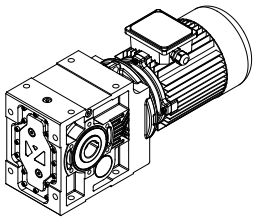
Tip Tanımlaması / *Unit Designation /* Typenbezeichnung

KR..00..	**Konik-Helisel tip redüktörler, motor bağlantılı, delik milli çıkış** / *Bevel-Helical type geared motors , Direct coupled motor, Hollow shaft output* / Flachgetriebemotoren, 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* / Flachgetriebemotoren, 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* / Flachgetriebemotoren, 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* / Flachgetriebemotoren,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,* / Flachgetriebemotoren, 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.* / Flachgetriebemotoren,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.* / Flachgetriebemotoren,Verbunden mit Motor, Ausgang mit Hohlwelle und Flansch.
KR..0S..	**Konik-Helisel tip redüktörler, motor bağlantılı, sıkma bilezik çıkışlı/** *Bevel-Helical type geared motors Direct motor coupled , Shrink disk output* / Flachgetriebemotoren, Verbunden mit Motor, Ausgang mit Schrumpfscheibe
KR..0E..	**Konik-Helisel tip motorlu redüktörler, motor bağlantılı, ekstruder çıkışlı /** *Bevel-Helical type geared motors Direct motor coupled , extruder output* / Flachgetriebemotoren, Verbunden mit Motor, Ausgang mit Extruder
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* / Flachgetriebe, 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* / Flachgetriebe, 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* / Flachgetriebe, 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* / Flachgetriebe, 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,* Flachgetriebe, 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.* / Flachgetriebemotoren,Verbunden mit Motor, 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.* / Flachgetriebemotoren,Verbunden mit Motor, Ausgang mit Hohlwelle und Flansch.
KN..0S..	**Konik-helisel tip helisel redüktörler, IEC B5/B14 flanşlı motorsuz, sıkma bilezik çıkışlı/** *Bevel-Helical type geared motors IEC B5/B14 flanged without motor, Shrink disk Output /* Flachgetriebemotoren, ohne Motor mit IEC B5/B14, Ausgang mit Schrumpfscheibe
KN..0E..	**Konik-helisel tip helisel redüktörler, IEC B5/B14 flanşlı motorsuz, ekstruder çıkışlı/** *Bevel-Helical type geared motors IEC B5/B14 flanged without motor, extruder output /* Flachgetriebemotoren, ohne Motor mit IEC B5/B14, Ausgang mit Extruder.
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* / Flachgetriebe, 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* / Flachgetriebe,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* / Flachgetriebe, 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* / Flachgetriebe, 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,* / Flachgetriebe, 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* / Flachgetriebe, 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.* / Flachgetriebemotoren,Verbunden mit Motor, Ausgang mit Hohlwelle und Flansch.
KV..0S..	**Konik-Helisel tip redüktörler, IEC B5/B14 flanşlı motorlu, sıkma bilezik çıkışlı /** *Bevel-Helical geared motors IEC B5/B14 flanged with direct coupled motor, Shrink disk output /* Flachgetriebemotoren, Verbunden mit IEC B5/B14 Motorverbindung, Ausgang mit Schrumpfscheibe
KV..0E..	**Konik-Helisel tip helisel redüktörler, IEC B5/B14 flanşlı motorlu, ekstruder çıkışlı /** *Bevel-Helical geared motors IEC B5/B14 flanged with direct coupled motor, Extruder Output /* Flachgetriebemotoren, Verbunden mit IEC B5/B14 Motorverbindung, Ausgang mit extruder.
KT..00..	**Konik-Helisel tip helisel redüktörler, motorsuz ve mil girişli, delik milli çıkış** / *Bevel-Helical geared unit, Solid shaft input without motor, Hollow output shaft* / Flachgetriebe, Eingang mit Vollwelle ohne Motor, Ausgang mit Hohlwelle.
KT..01..	**Konik-Helisel tip helisel redüktörler, motorsuz ve mil girişli, mil çıkışlı** / *Bevel-Helical geared units, Solid shaft input without motor, Solid output shaft* / Flachgetriebe, Eingang mit Vollwelle ohne Motor, Ausgang mit Vollwelle.
KT..02..	**Konik-Helisel tip helisel redüktörler, motorsuz ve mil girişli, mil ve flanş çıkışlı** / Bevel-*Helical gear units, Solid shaft input without motor, Solid output shaft and flange output* / Flachgetriebe, Eingang mit Vollwelle ohne Motor, Ausgang mit Vollwelle und Flansch.
KT..03..	**Konik-Helisel tip helisel redüktörler, motorsuz ve mil girişli, delik milli ve flanş çıkışlı** / Bevel-*Helical gear units, solid shaft input without motor, Hollow output shaft and output flange* / Flachgetriebe, Eingang mit Vollwelle ohne Motor, Ausgang mit Hohlwelle und Flansch.
KT..04..	**Konik-Helisel tip redüktörler,motor bağlantılı, çift çıkış milli /** *Bevel-Helical type gerboxes, solid input shaft, double output shaft, Flachgetriebe, Eingang mit Vollwelle,* mit doppelter Ausgangswelle
KT..05..	**Konik-Helisel tip helisel redüktörler, IEC B5/B14 flanşlı, motorsuz, çift milli ve çift flanş çıkışlı** / *Bevel-helical type gearboxes, IEC B5/B14 flanged input without motor, double output shaft and double output flange* / Flachgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, Ausgang mit Hohlwelle und Flasch.
KT..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 without motor, double hollow output shaft and double flange output.* / Flachgetriebemotoren,Verbunden mit Motor, Ausgang mit Hohlwelle und Flansch.
KT..0S..	**Konik-Helisel tip helisel redüktörler, motorsuz, sıkma bilezik çıkışlı /** *Bevel-Helical gear motors, Solid shaft input without motor, Shrink Disk Output /* Flachgetriebe, ohne Motor, Ausgang mit Schrumpfscheibe
KT..0E..	**Konik-Helisel tip helisel redüktörler, motorsuz, ekstruder çıkışlı /** *Bevel-Helical gear motors, Solid shaft input without motor, Extruder Output /* Flachgetriebe, ohne Motor, Ausgang mit Extruder.

Tip Tanımlaması / *Unit Designation* / Typenbezeichnungen

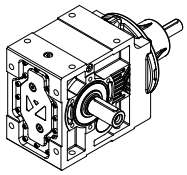
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 KR..01	 KT..01	 KV..01	 KN..01
 KR..02	 KT..02	 KV..02	 KN..02
 KR..03	 KT..03	 KV..03	 KN..03
 KR..04	 KT..04	 KV..04	 KN..04
 KR..05	 KT..05	 KV..05	 KN..05
 KR..08	 KT..08	 KV..08	 KN..08
 KR..0S	 KT..0S	 KV..0S	 KN..0S
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Örnek Tip Tanımlamaları
KR273.00-90S/4-L05



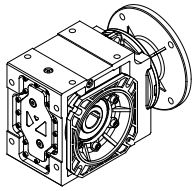
K.....: K serisi redüktör
R.....: Motor bağlantılı
2.....: Gövde büyüklük
7.....: Revizyon numarası
3.....: Kademe sayısı
00.....: Delik mil çıkışlı
90S/4.....: Motor büyüklüğü
L05.....: Fren Tipi

KT373.01



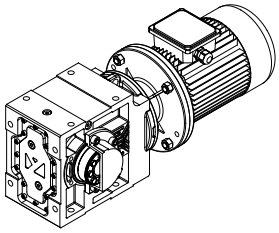
K.....: K serisi redüktör
T.....: Motorsuz giriş milli
3.....: Gövde büyüklüğü
7.....: Revizyon numarası
3.....: Kademe sayısı
01.....: Mil çıkışlı

KN473.03 - A11



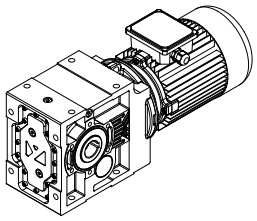
K.....: K serisi redüktör
N.....: Motorsuz ve IEC B5 giriş flanşlı
4.....: Gövde büyüklüğü
7.....: Revizyon numarası
3.....: Kademe sayısı
03.....: Delik milli flanş bağlantılı çıkış
A11.....: 112 tip motor, B5 bağlantı flanşı

KV573.0S-100L/4



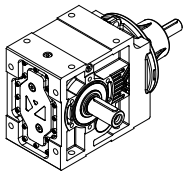
K.....: K serisi redüktör
V.....: Motorlu ve B5/B14 giriş flanşlı
5.....: Gövde büyüklüğü
7.....: Revizyon numarası
3.....: Kademe sayısı
0S.....: Sıkma bilezikli delik milli çıkış
100L/4.....: Motor büyüklüğü ve kutup sayısı

Sample Designations
KR273.00-90S/4-L05



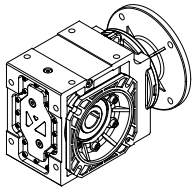
K.....: *K serie of gearbox*
R.....: *Direct motor coupled*
2.....: *Gear unit size*
7.....: *Revision number*
3.....: *Stage number*
00.....: *Hollow shaft output*
90S/4.....: *Motor frame size*
L05.....: *Brake type*

KT373.01



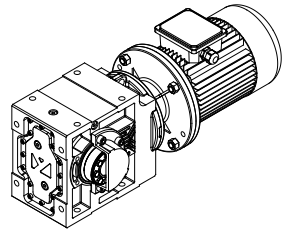
K.....: *K series of gearbox*
T.....: *Solid input shaft*
3.....: *Gear unit size*
7.....: *Revision number*
3.....: *Stage number*
01.....: *Solid output shaft*

KN473.03 - A11



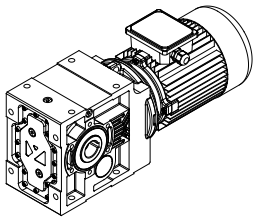
K.....: *K series of gearbox*
N.....: *IEC B5 flange without motor input*
4.....: *Gear unit size*
7.....: *Revision number*
3.....: *Stage number*
03.....: *Flanged hollow shaft output*
A11.....: Motor type 112, B5 flange

KV573.0S-100L/4



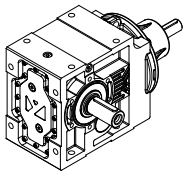
K.....: *K series of gearbox*
V.....: *Motor input with B5/B14 flanged*
5.....: *Gear unit size*
7.....: *Revision number*
3.....: *Stage number*
0S.....: *Hollow shaft output with shrink disk*
100L/4.....: *Motor size and number of poles*

Typenbezeichnungsbeispiele
KR273.00-90S/4-L05



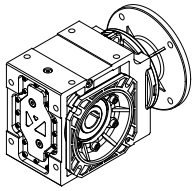
K.....: K Serie Getriebe
R.....: Motorverbindung
2.....: Größe von Gehäuse
7.....: Änderungsnummer
3.....: Stufenanzahl (2 stufig)
00.....: Hohlausgangswelle
90S/4.....: Motorbaugröße
L05.....: Bremse

KT373.01



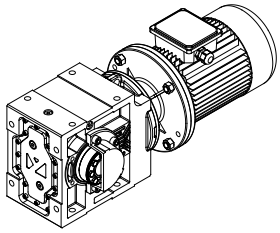
K.....: K Serie Getriebe
T.....: Vollwelleneingang ohne Motor
3.....: Größe der Gehäuse
7.....: Änderungsnummer
3.....: Stufenanzahl
01.....: Vollwelle

KN473.03 - A11

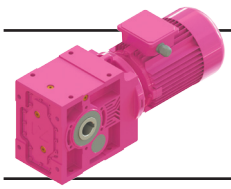


K.....: K Serie Getriebe
N.....: IEC B5 Flansch ohne Motor
4.....: Größe von Gehäuse
7.....: Änderungsnummer
3.....: Stufenanzahl
03.....: Hohlwelle mit Flanschverbindung
A11.....: Motortyp 112, B5 Motorflansch

KV573.0S-100L/4



K.....: K Serie Getriebe
V.....: Mit Motor und IEC B5/B14 Flansch
5.....: Größe von Gehäuse
7.....: Änderungsnummer
3.....: Stufenanzahl
0S.....: Hohlwelle mit Schrumpfscheibe
100L/4.....: Motorbaugröße und Anzahl der Pole



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

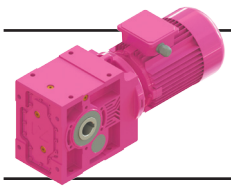
Motor Büyüklüğü / *Motor Size* / Motorbaugröße

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	-	-	-
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	6,94-83,48	6,94-83,48	6,94-72,92	6,94-50,51	-
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	-	-	-
KR373..	3	-	7,73-9,97 14,44-21,90 33,65-148,75	7,73-9,97 14,44-21,90 33,65-110,61	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	509,34-971,77	-
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	-	-	-	-	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	-	-	-	-	80,38-128,24	80,38-128,24	8,31-14,49 18,74-128,24
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	-	-	-	-	-	-	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	-	547,17-3203,12	547,17-3203,12	547,17-3203,12	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	-	-	-	-	-	-	-
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

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	**160**	**180**	**200**	**225**	**250**	**280**
KR002..	2	-	-	-	-	-	-
KR003..	3	-	-	-	-	-	-
KR102..	2	-	-	-	-	-	-
KR103..	3	-	-	-	-	-	-
KR202..	2	-	-	-	-	-	-
KR203..	3	-	-	-	-	-	-
KR273..	3	-	-	-	-	-	-
KR275..	5	-	-	-	-	-	-
KR276..	6	-	-	-	-	-	-
KR373..	3	-	-	-	-	-	-
KR374..	4	-	-	-	-	-	-
KR375..	5	-	-	-	-	-	-
KR376..	6	-	-	-	-	-	-
KR473..	3	6,21-23,19 ; 25,15 39,11-59,19 ; 64,17	6,21-20,07 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	-
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	-	-	-	-	-	-



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;

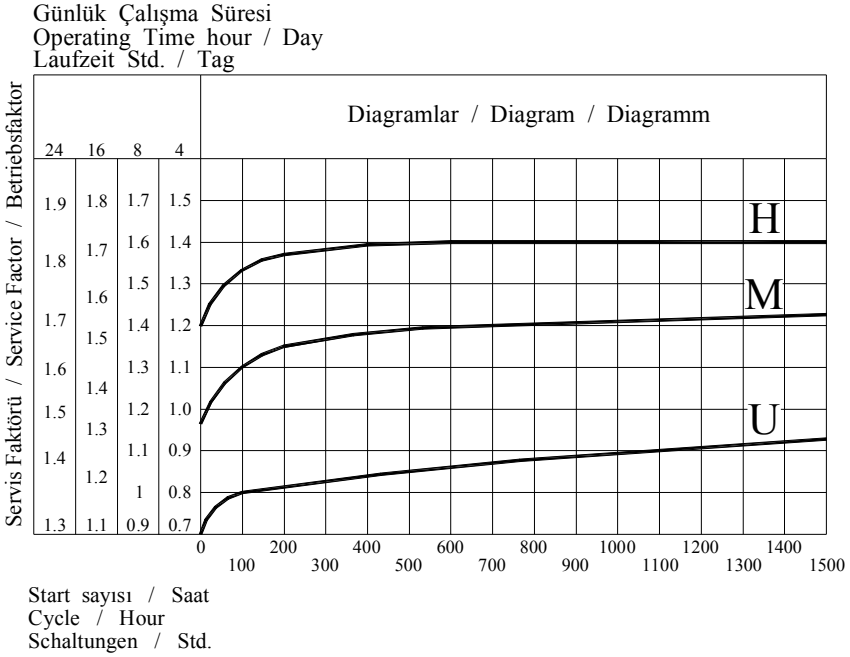
1. Betriebsdauer der angetriebenen Maschine bestimmen.
2. Belastungsart der angetriebenen Maschine auswählen.

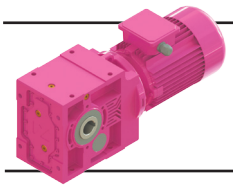
U - Gleichförmige Belastung
M - Ungleichförmige Belastung
H - Stark Ungleichförmige Belastung

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

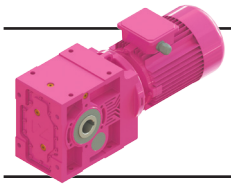
Waschereimaschinen:

M - Trommeltrockner
- Waschmaschinen

Wälzwerke:

M - Rollenrichtmaschinen
- Walzenantriebe
- Drahtzuge
- Haspeln

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



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

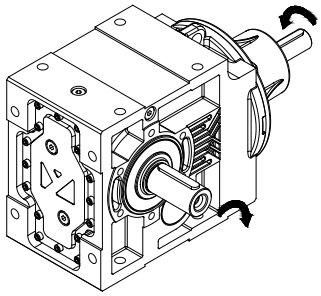
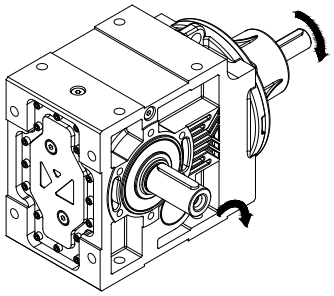
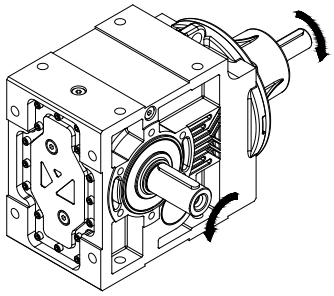
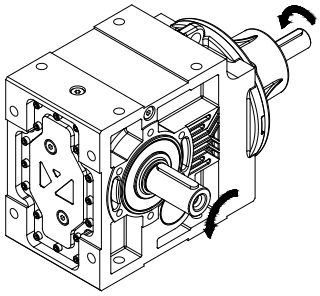
K Serisi ürünlerimiz için kullanılan yön tanımlaması aşağıdaki gibidir. Aşağıdaki tanımlama kilitli redüktörler için de geçerlidir.

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

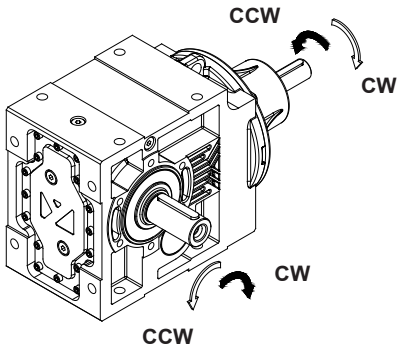
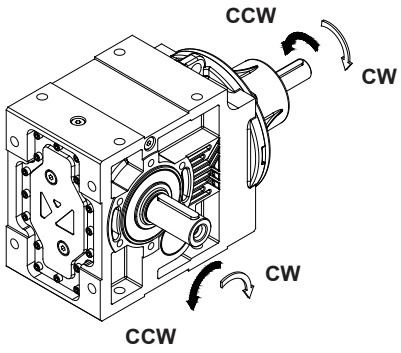
Die Drehrichtungen für K Serie Getriebe sind wie folgt definiert. Die Definition ist auch bei Getrieben mit Rücklaufsperre gültig.

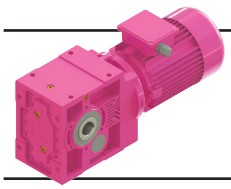
	3-5 Kademe / *3-5 Stages* / 3-5 Stufig	**2-4-6 Kademe** / *2-4-6 Stages* / 2-4-6 Stufig
Saat Yönünde *Clockwise* Rechtslauf **CW**		
Saat Tersi Yönünde Counter Clockwise Linkslauf **CCW**		

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.

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

"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.

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

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.

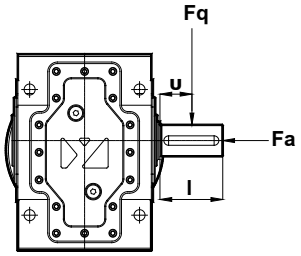
Bei dieser Auswahl;

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

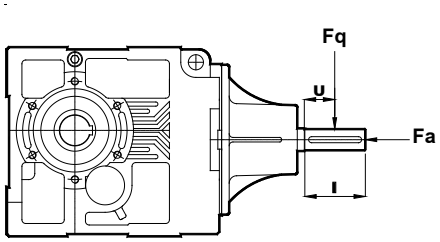
müßen die oben agegebenen Bedingungen berücksichtigt werden.Ist der Kraftangriff nicht auf Wellenmitte, so kann die zulässige Querkraft mit Hilfe der unten stehenden Formel auf jede beliebige Stelle umgerechnet werden.

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

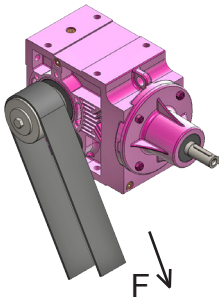
Die Werte "t" und "y" sind in den nacholgenden Tabellen angegeben. Der Wert "u" ist die Stelle des Kraftangriffs wie auf der nächsten Seite angegeben.



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



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



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.

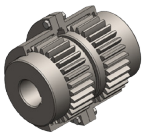
Calc. Of Overhung Loads

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

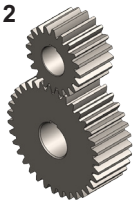


1. Elastik Kaplin
Çalışma sırasında oluşan sapmalar kaplinin güvenlik sınırları içinde ise kuvvetler ihmal edilebilir.

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)

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

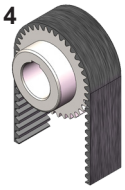
3. For Chain Drive With Low Speed (z>17)

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

3. Kettenantrieb mit niedriger Geschwindigkeit (z>17)

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

4



4. Triger Kayış

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

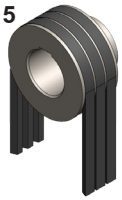
4. For Trigger Belt

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

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

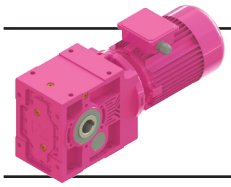
$$F_q = \frac{5000 \times M_2}{D}$$

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]

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]

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]

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

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

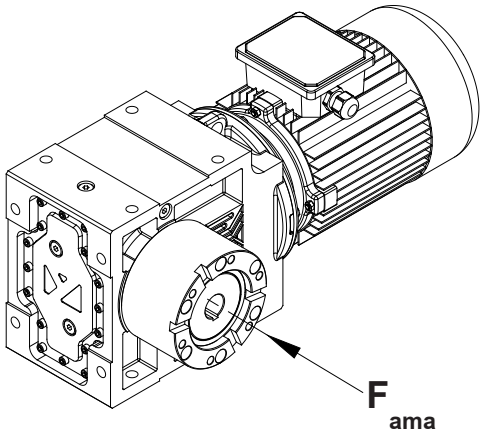
n_2 : Çıkış Devri [d/dak]
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

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]



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;

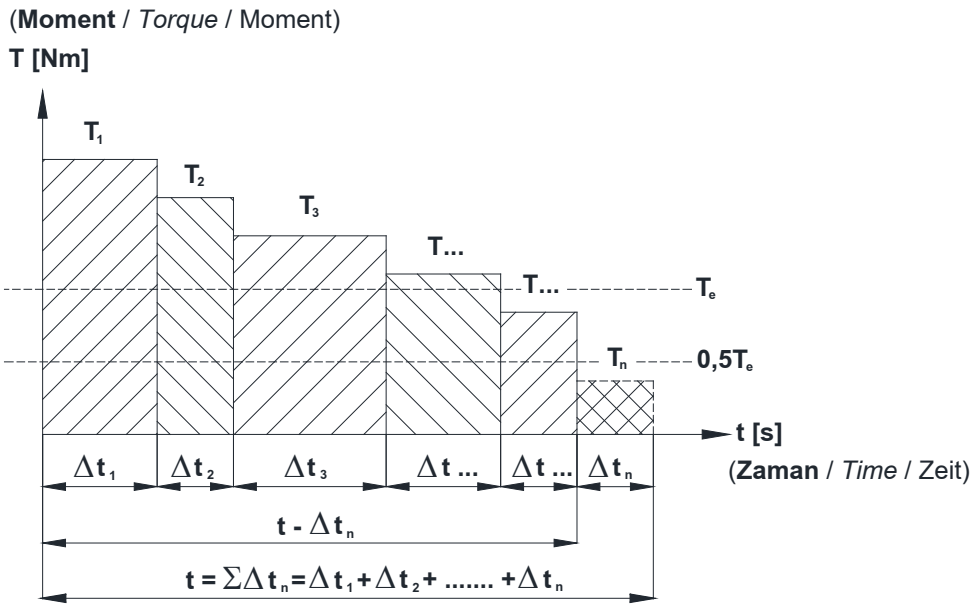
Wenn $T_n < T_e \times 0.5$ dann

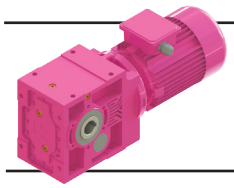
$$T_e = \left(\frac{\Delta t_1 \times T_1^{6.6} + ... + \Delta t_{n-1} \times T_{n-1}^{6.6}}{t - \Delta t_n}\right)^{\left(\frac{1}{6.6}\right)}$$

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;

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

=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;

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

=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;

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

=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;

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

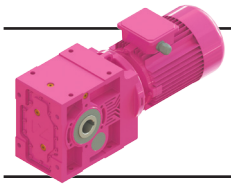
$$T_e = \left(\frac{30 \times 48^{6,6} + 22 \times 32^{6,6} + 15 \times 28^{6,6}}{67}\right)^{\frac{1}{6,6}}$$

=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 $\geq$ 1.3
$n_2 \approx$ 50 d/dak
Fq $\geq$ 7592 N

Güç ve devir sayfalarından,

KR373-100L/4b seçilir (Sayfa 72).

P_2=3kW > 2,46 kW
M_2= 555 Nm > 470 Nm
fs=1,5
n_2=49 d/dak
fq=13213Nm < 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 $\geq$ 1.3
$n_2 \approx$ 50 rpm
Fq $\geq$ 7592 N

From the performance table,

***KR373-100L/4b** selected (Page 72).*

P_2=3kW > 2,46 kW
M_2= 555 Nm > 470 Nm
fs=1,5
n_2=49 rpm
fq=13213 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 $\geq$ 1.3
$n_2 \approx$ 50 U/min
Fq $\geq$ 7592 N

Von der Leistung- DrahzahlTabelle ,

wurde **KR373-100L/4b** gewählt (Seite 72).

P_2=3kW > 2,46 kW
M_2= 555 Nm > 470 Nm
fs=1,5
n_2=49 U/min
fq=13213 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 [ ]

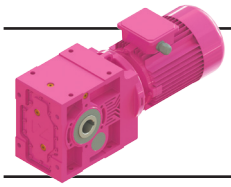
Input Shaft Specification:
Solid Shaft with Keyway [ ]
Solid Shaft without Keyway [ ]
Special Shaft [ ]
Torque arm required Yes[ ] No[ ]

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[ ]

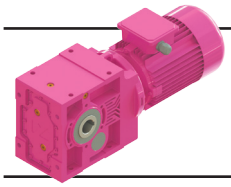
Spannungsversorgung:
AC-1 phasig [ ] AC-3 phasig [ ] DC [ ]
Spannung.....Volt
Frequenz.....Hz

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

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

Andere Merkmale:

Notlar / *Notes* / Notizen



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 yan sayfadaki tabloda verilmiştir. Redüktörünüzde kullanılan yağ tipi 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 next page. Please look at your gear units label for filled oil type. 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.

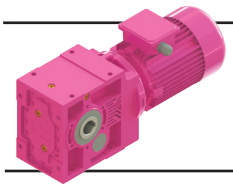
Schmierung

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 folgenden Seite in der grau unterlegten Spalte angegebenen Schmierstoffen gefüllt. Bitte im Getriebe verwendetes Öl 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.

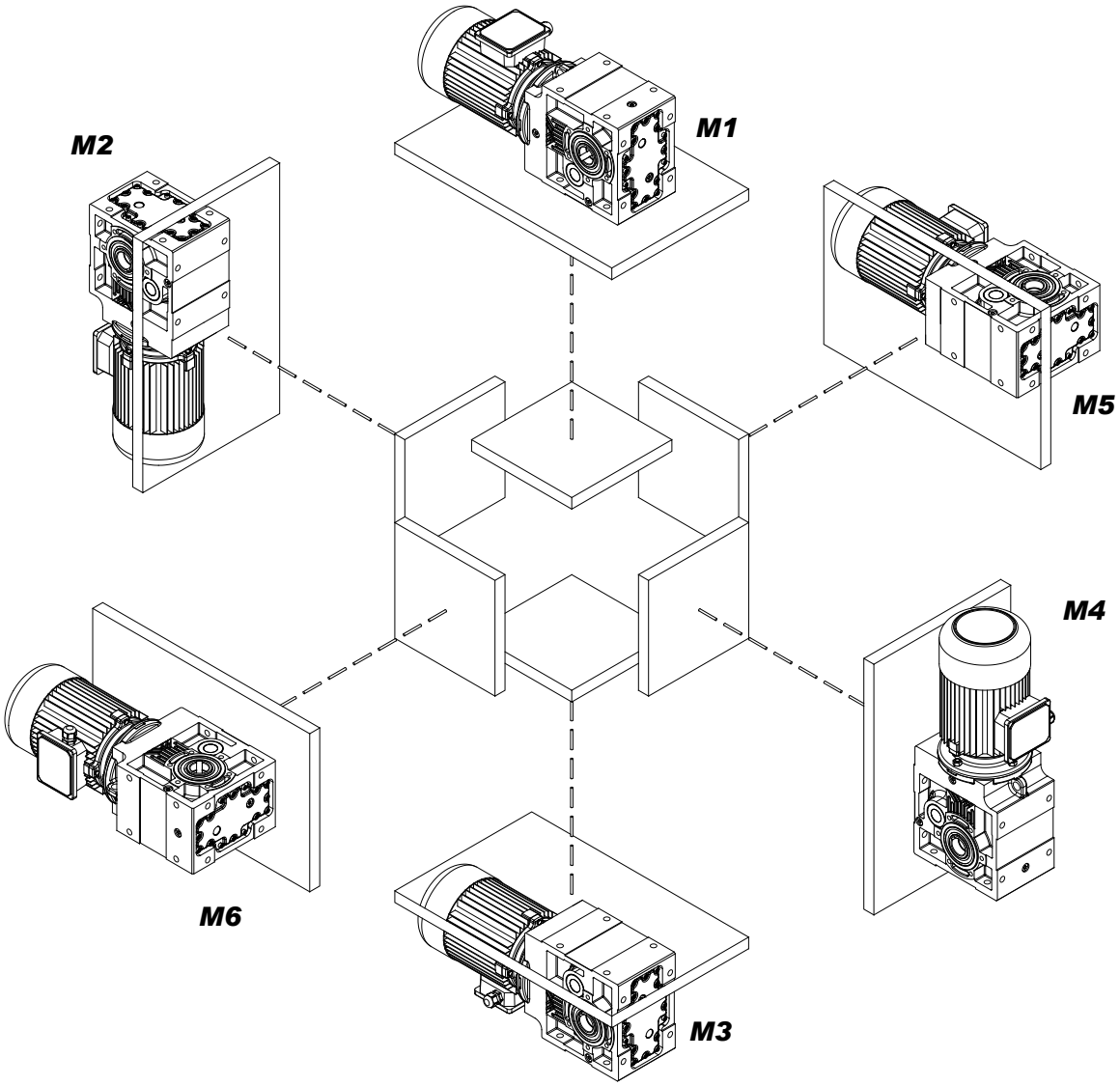
Ein Schmierstoffwechsel sollte alle 10.000 Betriebsstunden durchgeführt werden. Für synthetische Produkte verdoppeln sich diese Fristen. Bei extremen Betriebsbedingungen, z.B. hohe Luftfeuchtigkeit, aggresiver Umgebung und hohen Temparatur-schwankungen sind kürzere Schmierstoffintervalle vorteilhaft. 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.



Yağ Tipleri / *Oil Types* / Schmierstoffe

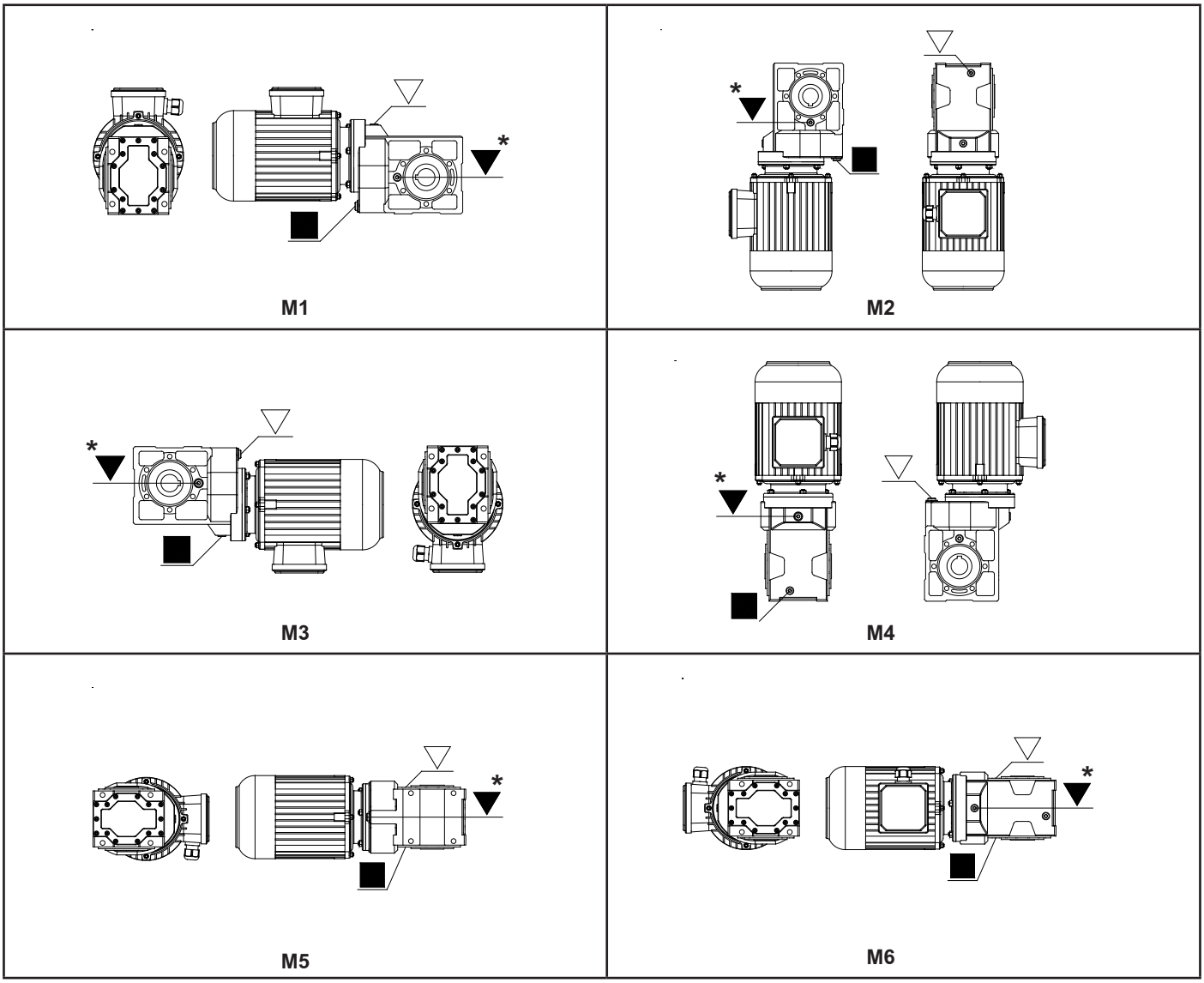
Yağ Cinsi *Lubricant* Art des Schmiers	DIN 51517-3	Çevre Sıcaklığı [°C] *Ambient Temp. [°C]* Umgebungstemp. [°C] / Daldırma Yağlama *Dip Lubrication* Tauchschmier.	ISO VG	Aral	Beyond Petroleum	Castrol	Klüber Lubrication	Mobil	Shell	Total
Mineral Yağlar *Mineral Oil* Mineralöl	CLP	0 ... +50	680	Degol BG 680	Energol GR-XP 680	Alpha SP 680	Klüberoil GEM 1-680 N	Mobilgear XMP 680	Omala 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 F460	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 F320	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 F220	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 150	Carter EP 150
		-25... +10	100	Degol BG 100	Energol GR-XP 100	Alpha SP 100	Klüberoil GEM 1-100 N	–	Omala 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	Tivela S 680	Carter SY 680
		-20 ... +50	460	Degol GS 460	Energsyn SG-XP 460	Aphasyn PG 460	Klübersynth GH 6 -460	Mobil Glygoyle 460	Tivela S 460	Carter SY 460
		-25 ... +40	320	Degol GS 320	Energsyn SG-XP 320	Aphasyn PG 320	Klübersynth GH 6 -320	Mobil Glygoyle 320	Tivela S 320	Carter SY 320
		-30 ...+30	220	Degol GS 220	Energsyn SG-XP 220	Aphasyn PG 220	Klübersynth GH 6 -220	–	Tivela S 220	Carter SY 220
		-35 ... +20	150	Degol GS 150	Energsyn SG-XP 150	Aphasyn PG 150	Klübersynth GH 6 -150	–	Tivela S 150	Carter SY 150
		-40 ... +10	100	–	–	–	Klübersynth GH 6 -100	–	–	–
	CLP HC	-10 ... +60	680	–	–	–	Klübersynth GEM 4-680 N	Mobilgear SHC XMP 680	–	Carter SH 680
		-20 ... +50	460	Degol PAS 460	Enersyn EP-XF 460	Alphasyn T 460	Klübersynth GEM 4-460 N	Mobilgear SHC XMP 460	Omala HD 460	Carter SH 460
		-25 ... +40	320	Degol PAS 320	Enersyn EP-XF 320	Alphasyn T 320	Klübersynth GEM 4-320 N	Mobilgear SHC XMP 320	Omala HD 320	Carter SH 320
		-30 ... +30	220	Degol PAS 220	Enersyn EP-XF 220	Alphasyn T 220	Klübersynth GEM 4-220 N	Mobilgear SHC XMP 220	Omala HD 220	Carter SH 220
		-35 ... +20	150	Degol PAS 150	Enersyn EP-XF 150	Alphasyn T 150	Klübersynth GEM 4-150 N	Mobilgear SHC XMP 150	Omala HD 150	Carter SH 150
		–40 ... +10	100	–	–	–	Klübersynth GEM 4-100 N	–	–	–
Gıda Uyumlu Yağ *Food Grade Oil* Lebensmittelöl	CLP NSF H1	-15 ... +25	320	–	–	Optileb GT 320	Klüberoil 4 UH1-320 N	Mobil SHC Cibus 320	Cassida Fluid GL-320	Nevastane SL 320
Çevre Dostu Yağ *Biodegradable Oil* Biologisch abbaubares Öl	CLP E	-25 ... +40	320	–	–	Tribol BioTop 1418-320	Klübersynth GEM 2-320	–	–	Carter Bio 320
Mineral Gresler [-20 .... +120 Çalışma Sıcaklığı °C] *Mineral Grease [-20 .... +120 Working Temperature °C]* Mineral-Fett [-20 .... +120 Betriebstemperatur °C]				Aralub HL3	Energrease LS 3	Spheerol AP3	Centoplex 2 EP	Mobilux EP 3	Alvania RL3	Multis Complex EP 2
Sentetik Gresler [-30 .... +100 Çalışma Sıcaklığı °C] *Synthetic Grease [-30 .... +100 Working Temperature °C]* Synthetisches Fett [-30 .... +100 Betriebstemperatur °C]				–	Energrease SY 2202	–	Petamo GHY 133 N	Mobiltemp SHC 100	Cassida RLS 2	Multis Complex SHD 220

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



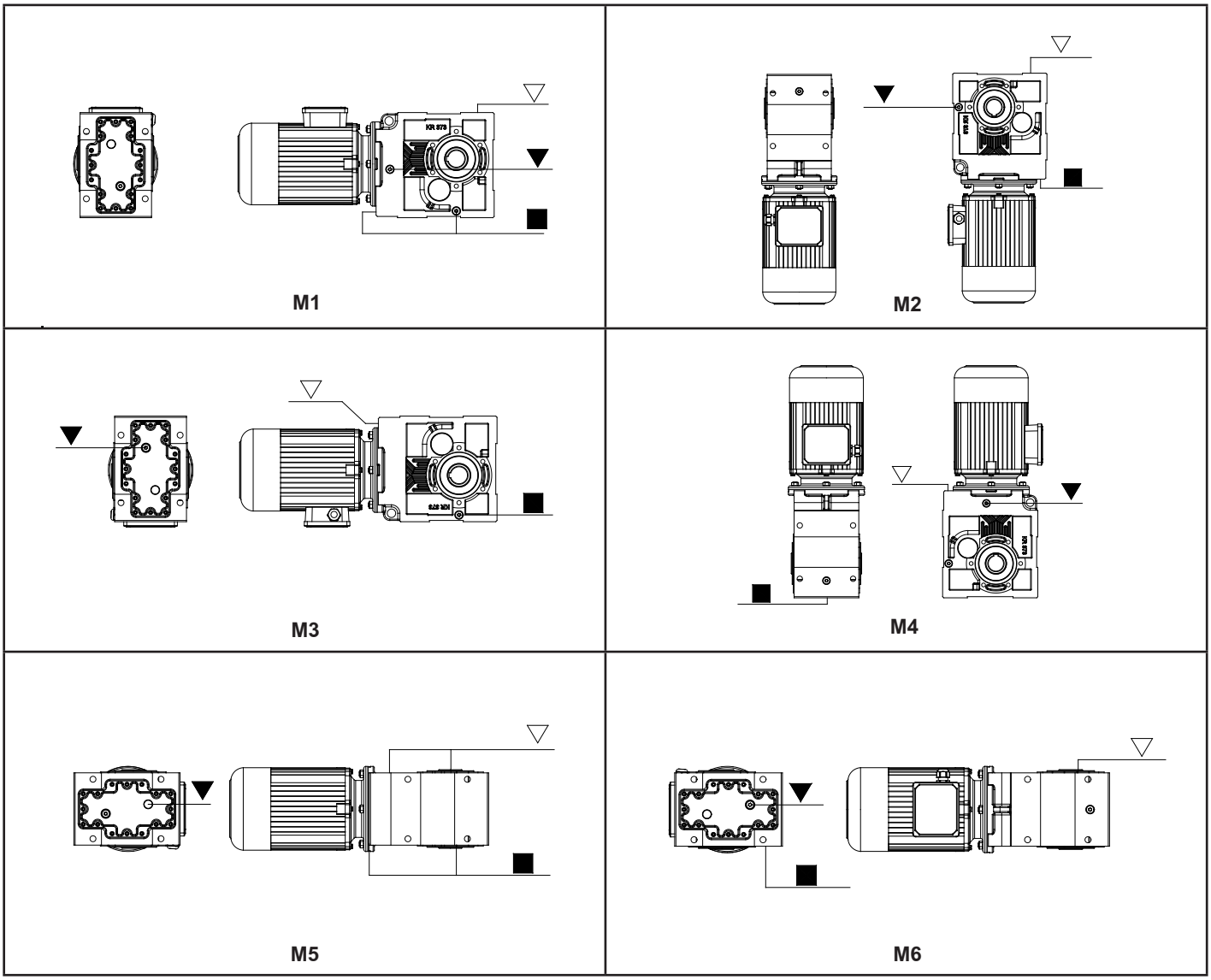
*: **K002 ve K003'de bu tapa yoktur. Lütfen yağ miktarına göre yağ koyunuz.**
*: *For K002 and K003 this plug doesn't exist. Please refer to oil quantities.*
*: Bei K002 und K003 eksistiert dieser Ölstandschraube nicht. Bitte nach Ölmenge füllen.

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

Tip /*Type* / Typ	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**
K.00.	0.3	0,45	0,5	0.6	0.4	0.35
K.10.	0.6	0.8	0.7	0.8	0.7	0.7
K.20.	1.0	1.5	1.6	1.7	1.2	1.1

Semboller : ■ : **Yağ boşaltma** ∇ : **Yağ doldurma ve havalandırma** ▼ : **Yağ seviyesi**
Symbols : ■ : *Drain plug* ∇ : *Oil Filling and Vent plug* ▼ : *Oil level*
Symbole : ■ : Ölauslass ∇ : Ölfüllung und Entlüftung ▼ : Ölstand

K.273 - K.873 Üç Kademeli Helisel-Konik Dişli Redüktörler Yağ Seviye Tapaları
K.273 - K.873 Three Stage Helical-Bevel Geared Gearboxes Oil Level Plugs
K.273 - K.873 Dreistufig Stirn-Kegelradgetriebe Ölverschlußschrauben



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

Tip / *Type* / Typ	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**
K.273	1,3	2,0	2,0	2,1	1,5	1,3
K.373	2,1	3,3	3,2	3,7	2,4	2,8
K.473	5,0	6,5	6,0	7,0	4,8	5,5
K.573	6,5	9,5	9,5	10,0	7,5	8,0
K.673	15,0	19,0	19,0	20,5	18,0	17,0
K.773	21,0	31,0	29,0	34,0	25,0	21,0
K.873	37,0	50,0	50,0	60,0	45,0	39,0

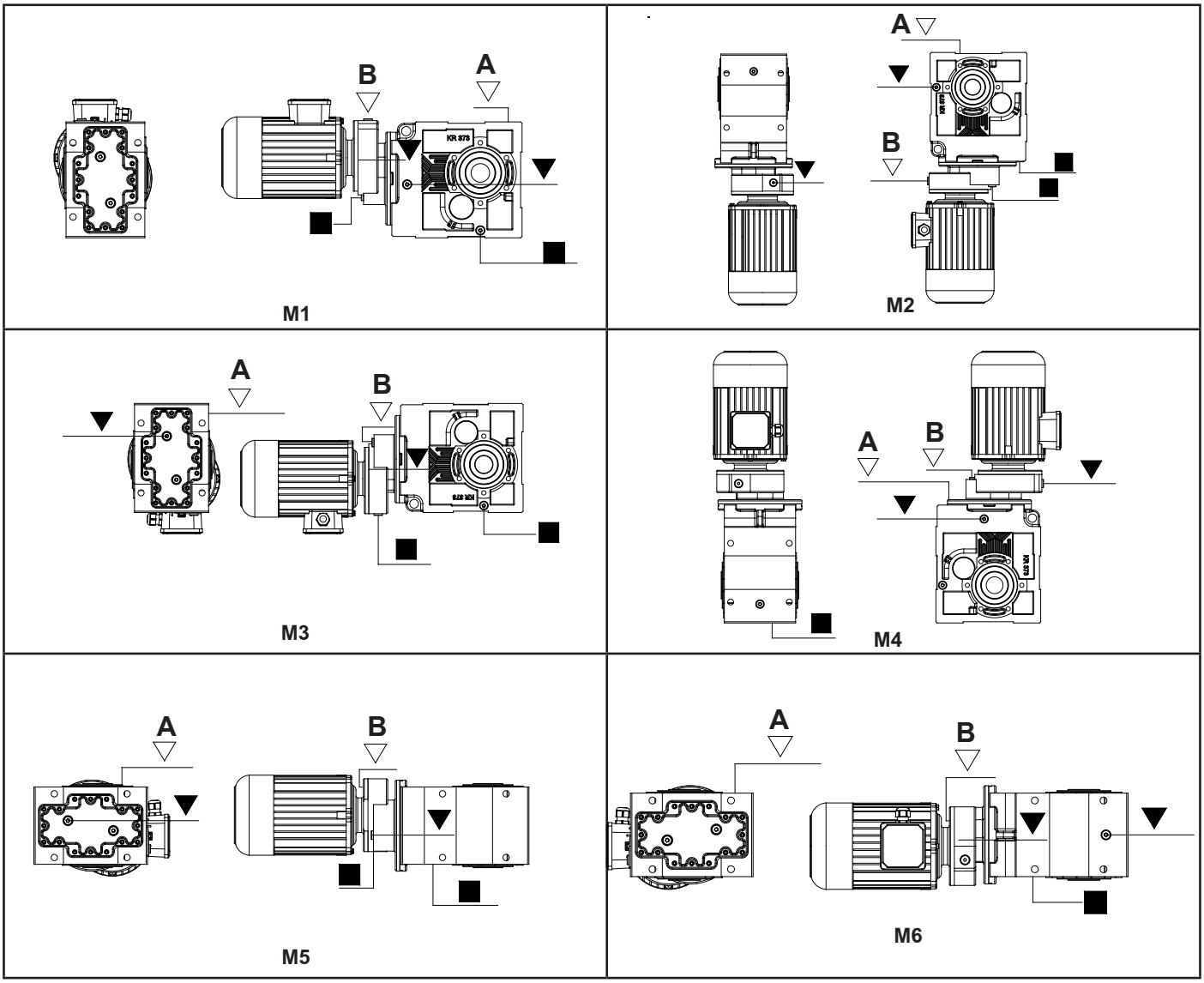
Semboller :
Symbols :
Symbole :

■ : **Yağ boşaltma**
: Drain plug
: Ölauslass

∇ *:* **Yağ doldurma ve havalandırma**
: Oil Filling and Vent plug
: Ölfüllung und Entlüftung

▼ **: Yağ seviyesi**
: Oil level
: Ölstand

K.374 - K.874 Dört Kademeli Helisel-Konik Dişli Redüktörler Yağ Seviye Tapaları
K.374 - K.874 Four Stage Reduction Helical-Bevel Geared Gearboxes Oil Level Plugs
K.374 - K.874 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.374	2,1 / 0,25	3,3 / 0,7	3,2/ 0,25	3,7/ 0,25	2,4 / 0,25	2,8 / 0,25
K.474	5,0 / 0,4	6,5/ 1,5	6,0 / 0,4	7,0 / 0,4	4,8 / 0,4	5,5 / 0,4
K.574	6,5 / 0,5	9,5 / 1,5	9,5 / 0,5	10,0 / 0,5	7,5 / 0,5	8,0 / 0,5
K.674	15,0 / 0,9	19,0 / 4,0	19,0/ 0,9	20,5 / 0,9	18,0 / 0,9	17,0 / 1,0
K.774	21,0 / 1,0	29,0 / 4,0	29,0 / 1,0	34,0 / 1,0	25,0 / 1,0	21,0 / 1,0
K.874	37,0 / 2,15	50,0/ 4,0	50,0 / 2,15	60,0 / 2,15	45,0 / 2,15	39,0 / 2,15

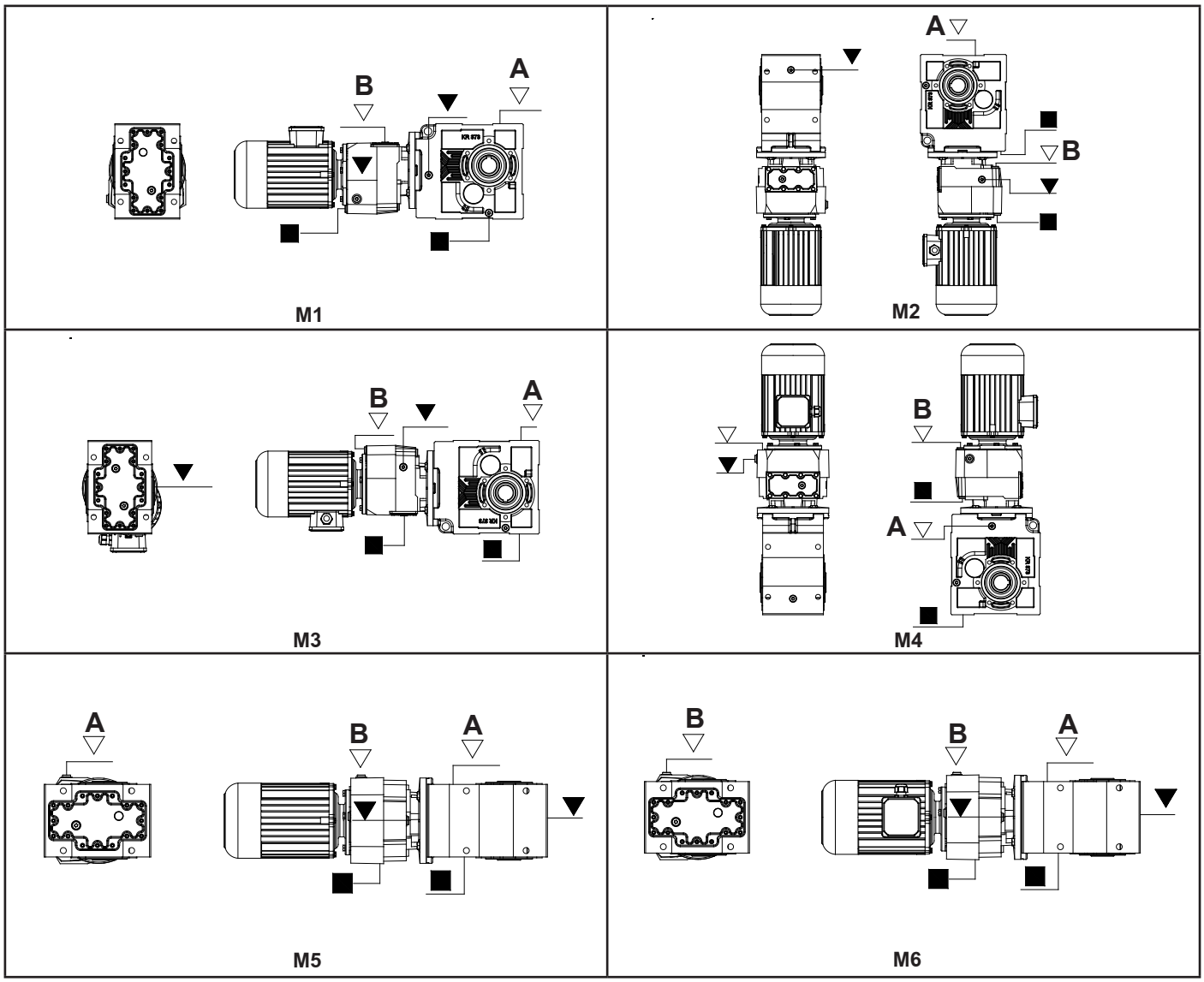
Semboller :
Symbols :
Symbole :

■ : **Yağ boşaltma**
: *Drain plug*
: Ölauslass

∇ : **Yağ doldurma ve havalandırma**
: *Oil Filling and Vent plug*
: Ölfüllung und Entlüftung

▼ : **Yağ seviyesi**
: *Oil level*
: Ölstand

K.27. - K.87. Beş-Altı Kademeli Helisel-Konik Dişli Redüktörler Yağ Seviye Tapaları
K.27. - K.87. Five-Six Stage Helical-Bevel Geared Gearboxes Oil Level Plugs
K.27. - K.87. 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	1,3 / 0,4	2,0/0,4	2,0 / 0,4	2,1 / 0,4	1,3 / 0,4	1,5 / 0,4
K.375-376	2,10 / 0,7	3,3 / 0,85	3,2 / 0,7	3,7 / 0,7	2,8 / 0,7	2,4 / 0,7
K.475-476	5 / 1,2	6,5 / 1,9	6,0 / 1,2	7,0 / 1,2	5,5 / 1,2	4,8 / 1,2
K.575-576	6,5 / 1,2	9,5 / 1,75	9,5 / 1,2	10,0 / 1,2	8,0 / 1,2	7,5 / 1,2
K.675-676	15,0 / 2,0	19,0 / 3,1	19,0 / 2,0	20,5 / 2,0	17,0 / 2,0	18,0 / 2,0
K.775-776	21 / 2,0	31,0 / 3,1	29,0 / 2,0	34,0 / 2,0	21,0 / 2,0	25,0 / 2,0
K.875-876	37,0 / 2,0	50,0 / 3,1	50,0 / 2,0	60,0 / 2,0	39,0 / 2,0	45,0 / 2,0

Semboller :
Symbols :
Symbole :

■ : **Yağ boşaltma**
: *Drain plug*
: Ölauslass

∇ : **Yağ doldurma ve havalandırma**
: *Oil Filling and Vent plug*
: Ölfüllung und Entlüftung

▼ : **Yağ seviyesi**
: *Oil level*
: Ölstand

MOTORLAR
AC Motorlar
a- Genel Özellikler:

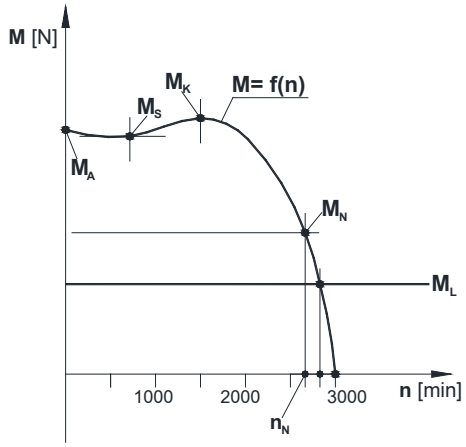
Basit konstrüksiyonlu, bakım gerektirmez, güvenirliği yüksek ve uygun fiyatlı olmaları nedeni ile trifaze asenkron motorlar en çok kullanılan motor cinsidir. Bu motorların çalışma karekteristikleri moment-hız eğrisi ile belirlenir. Aşağıda bu karekteristik eğrisine bir örnek verilmiştir.

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 jeder 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.

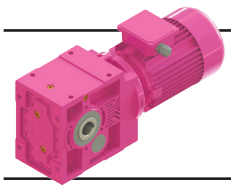
$$n_s = 120 \times \frac{f}{p_s}$$

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 den 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:

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

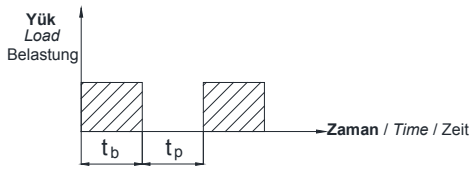
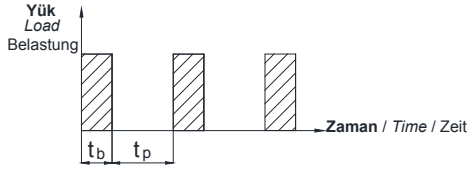
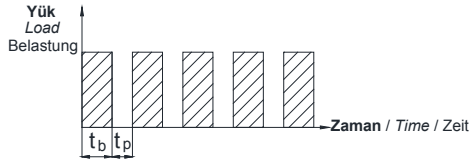
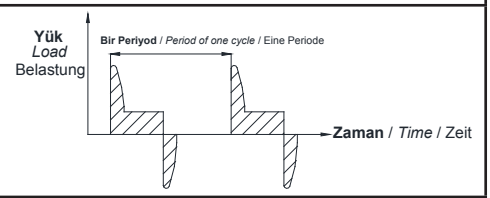
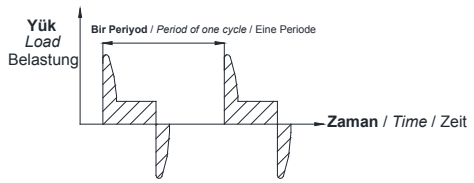
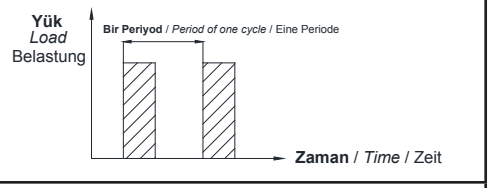
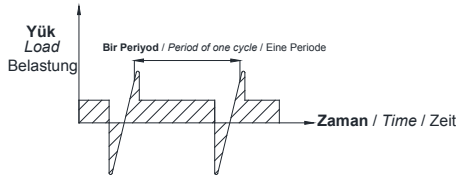
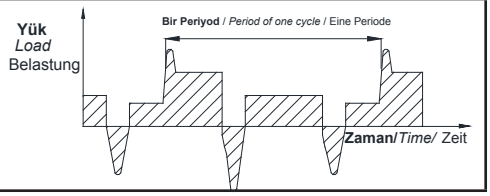
Für die nominale Werte der Drehstrommotoren sind folgende Abweichungen zulässig:
Schlumpf s .....:± 20%
Anzugsstrom .....:± 20%
Anzugsmomet .....:-15 /+25 %
Massentägheitsmoment .....:± 10%
Wirkungsgrad (bis 37 kW).....:-0,15 (1-η)

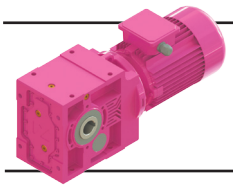


b- Çalışma Türleri
Katalogta verilen tüm redüktörlerin motorları S1 çalışma türüne uygun verilmektedir. Diğer çalışma türleri aşağıdaki tabloda gösterilmiştir.

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** *Periodic 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.

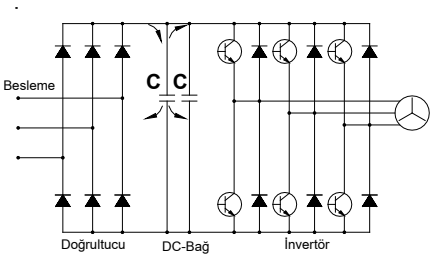
Verim Sınıfları *Efficiency Classes* Energieeffizienzklassen			**4 Kutuplu Motor Verim Değeri Hesabı** *Calculating Efficiency Values of Motors with 4 Poles* Berechnung der Wirkungsgrade von Elektromotoren mit 4 Polen	
IE1	EFF 2	**Standart Verim** *Standart Efficiency* Standarte Energieeffizienz	A=0,5234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

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

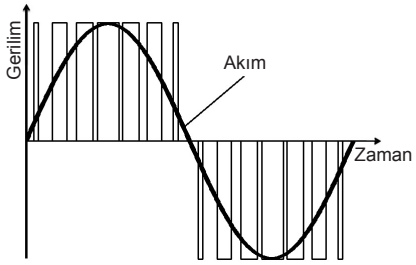
Anma Yükü [kW] *Nominal Load [kW]* Nennlast [kW]	**Verim Sınıfı** / *Efficiency Class* / Energieeffizienzklasse		
	IE1	IE2	IE3
0,75	72,1 %	79,6 %	82,5 %
1,5	77,2 %	82,8 %	85,3 %
3	81,5 %	85,5 %	87,7 %
7,5	86 %	88,7 %	90,4 %
15	88,7 %	90,6 %	92,1 %
22	89,9 %	91,6 %	93 %
37	91,2 %	92,7 %	93,9 %
45	91,7 %	93,1 %	94,2 %
75	92,7 %	94 %	95 %
90	93 %	94,2 %	95,2 %
330	94 %	95,1 %	96 %

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.

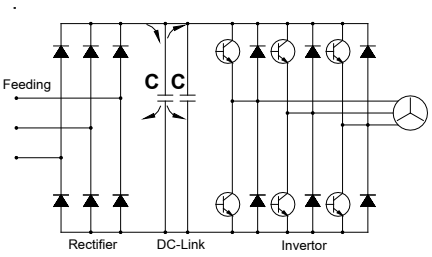


Tam dalga doğrultucuları besleyen üç faz besleme akımı DC-bağ kapasitörlerine iletilir. Kapasitörler voltajdaki dalgalanmaları azaltır ve kısa süreli ağdaki akım kesintilerinde enerji sağlar. Kapasitörlerdeki voltaj kontrolsüzdür ve gelen AC akımın pik akım değerlerine bağlıdır. DC akım tekrar AC akıma, 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.

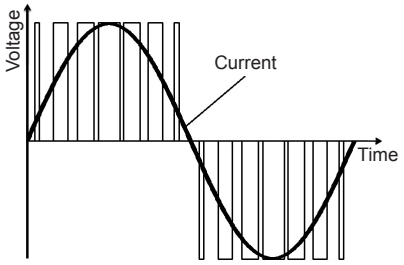


f- AC Frequency Inverters

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.

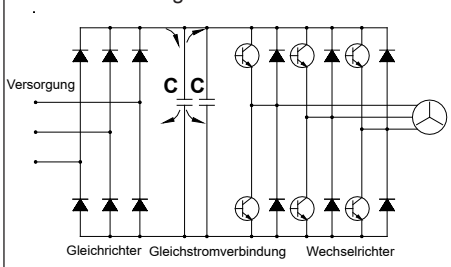


The three phase supply is fed into a full wave rectifier which supplies the DC link capacitors. The capacitors reduce the voltage ripple (especially on single supplies) and supply energy for short mains breaks. The voltage on the capacitors is uncontrolled and depends on the peak AC supply voltage. The 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.

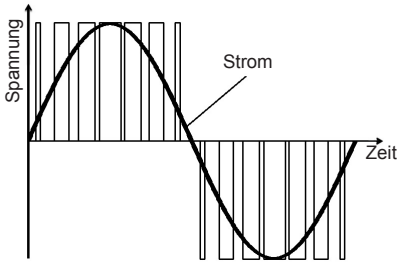


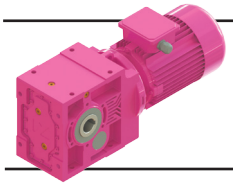
f- AC Frequenz Umrichter

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

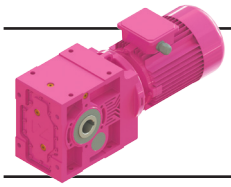
Es gibt zwei verschiedene Wicklungen, nämlich Shunt- und Serial-Wicklung. Das Drehmoment-Drehzahl-Verhältnis ist für beide Wicklungen unterschiedlich.

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

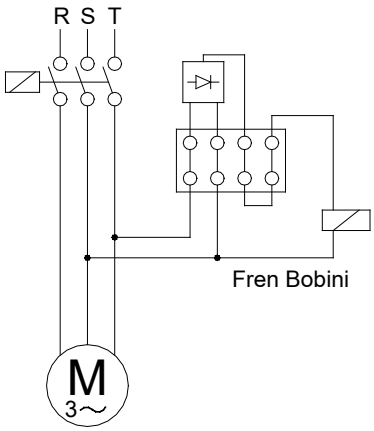
b) Sudden Braking
This type of connections are mostly used in systems when short braking times are needed. The braking torque will be produced as soon as the current fails. These brakes are mostly used in hoisting of lifting units and elevators.

d) Trafos mit Schock-Spannung
Diese Transformatoren werden bei großen Bremsen mit hohen Momenten verwendet. Da die große Bremsen 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.

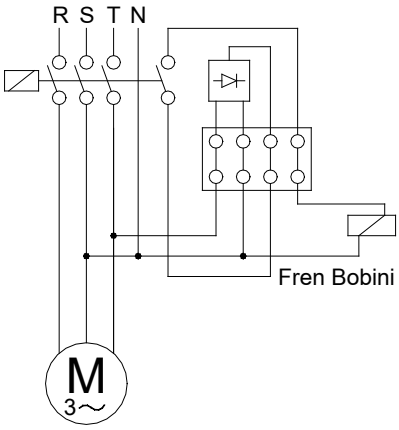
Schaltungsarten:
a)Verspätetes Bremsen
Diese Schaltung wird benutzt, wenn ein langsames und gleitendes Bremsen erforderlich ist. Am meisten wird es bei Fahrgetriebemotoren von Aufzügen verwendet. Wenn keine Angabe bei der Bestellung gegeben wird, werden die Bremsen mit verspäteter Schaltung geliefert.

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.

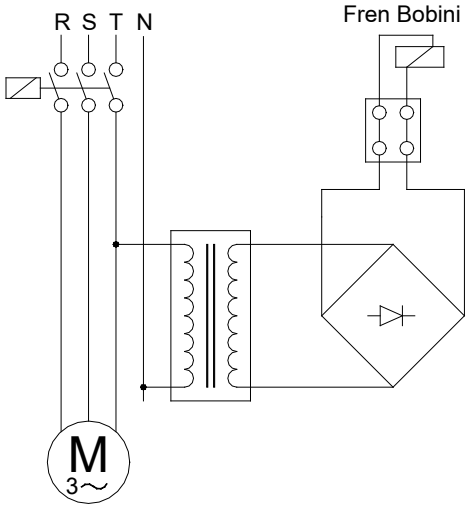
Gecikmeli Frenleme / *Delayed Running Brake* / Verspätete Bremsung
(230 V)



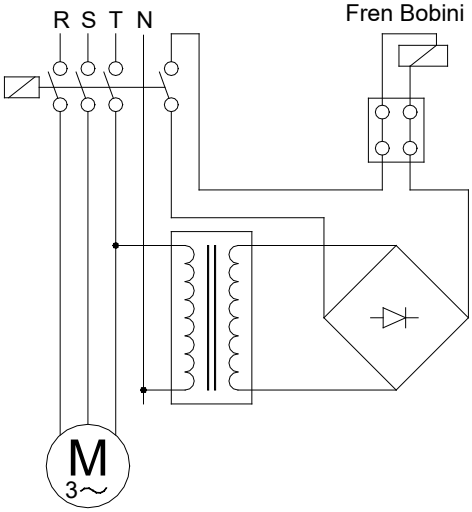
Ani Frenleme / *Sudden Brake* / Plötzliche Bremsung
(230 V)

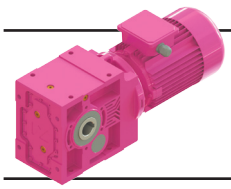


Gecikmeli Frenleme / *Delayed Running Brake* / Verspätete Bremsung
(24 V)



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





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 ($C_s \geq 2$), 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 ($C_s \geq 2$)*

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 ($C_s \geq 2$);

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

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 ($C_s \geq 2$)

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 ($C_s \geq 2$) multipliziert wird, erhält man die erforderliche Bremskraft;

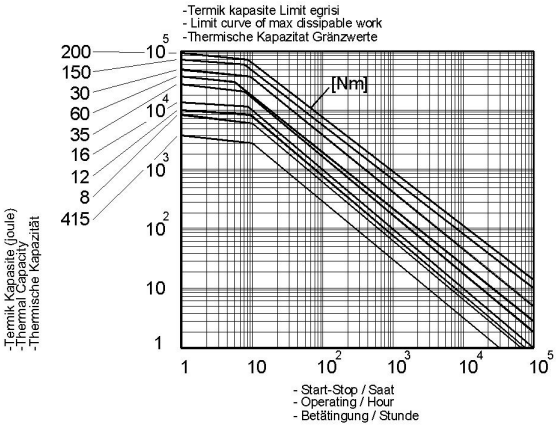
$$M_f = M_{fc} \times C_s$$

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

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

$$M_f = 73,6 \times 2 = 147,2\ Nm$$

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)

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

$$M_f = 73,6 \times 2 = 147,2\ Nm$$

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 Motor-rotation fördert (Herunterlassen der Last)
Betätigungen pro Stunde:30

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

$$M_f = 73,6 \times 2 = 147,2\ Nm$$

Eine Bremse von 150 Nm kann man auswählen.

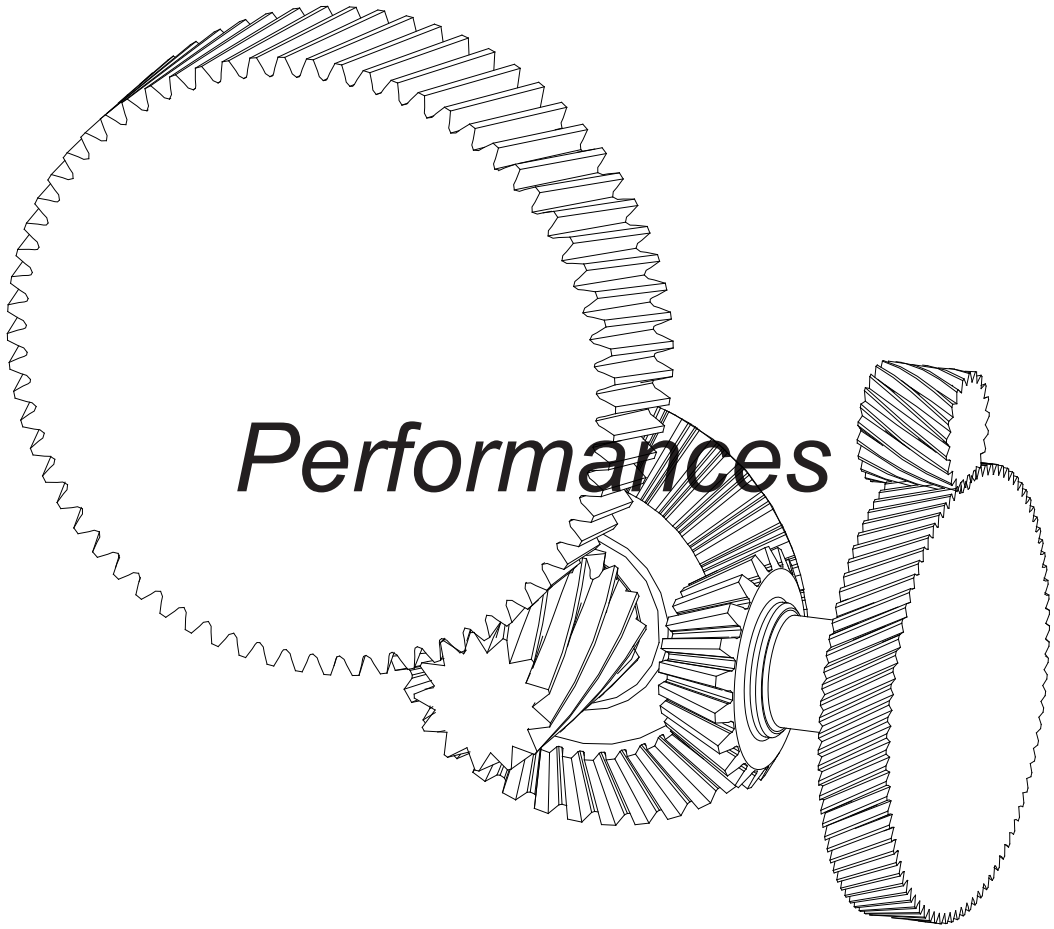
Die thermische Kapazität;

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

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

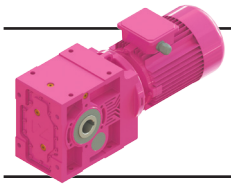
Notlar / *Notes* / Notizen

Güç ve Devir Tabloları



Performances

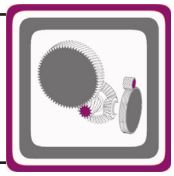
Leistung und Drehzahlübersicht



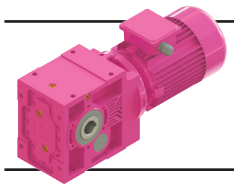
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



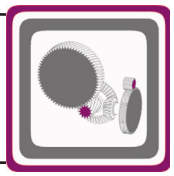
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,12 0,18	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**	9748 24010 26480 30240 31839	0.8 1.1 1.2 1.5 1.8	**KR576-63/4a**	0,41	156	138	KR001
	0.63 0.74 1.02	1447 1224 887	**2236.28** **1890.04** **1368.95**	32013 33217 34789	1.9 2.2 3.0	**KR575-63/4a**	0,41	151	138	KR002
	0.49 0.53 0.56 0.64	1825 1696 1588 1392	**2873.07** **2663.91** **2495.47** **2183.54**	13584 15125 16249 17982	0.8 0.9 1.0 1.1	**KR476-63/4a**	0,41	113	126	KR003
	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**	19850 21035 21342 21975 22193 22775 22985 23155	1.4 1.6 1.7 2.0 2.1 2.5 2.6 2.8	**KR475-63/4a**	0,41	109	126	KR004
	0.82 0.93 1.0 1.2	1077 953 891 753	**1699.70** **1500.87** **1401.91** **1184.90**	8023 10240 11141 12814	0.8 0.9 0.9 1.1	**KR376-63/4a**	0,41	68	114	KR005
	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**	13298 14079 14948 15540 15995 16225 16497 16597	1.2 1.3 1.6 1.8 2.1 2.4 2.7 2.8	**KR375-63/4a**	0,41	64	114	KR006
	1.6 1.9	559 467	**881.79** **735.42**	11261 11955	0.8 1.0	**KR276-63/4a**	0,41	30	102	KR007
	1.9 2.1 2.4 2.8 3.2 3.9 4.7 5.6 6.5 7.0 10.6	467 438 372 324 283 235 196 164 141 131 86	**719.79** **675.13** **573.99** **498.55** **436.24** **360.73** **300.85** **252.20** **215.91** **200.35** **131.68**	11953 12142 12551 12822 13025 13251 13434 13566 13659 13683 13856	1.0 1.0 1.2 1.4 1.6 1.9 2.3 2.7 3.2 3.4 4.0	**KR275-63/4a**	0,41	29	102	KR008
	10 12	104 90	**138,53** **119,62**	10321 9903	2,7 3,1	**KR203-63/4a**	0,41	16	94	KR234
	11	97	**129,27**	6771	1,4	**KR103-63/4a**	0,41	12	90	KR235



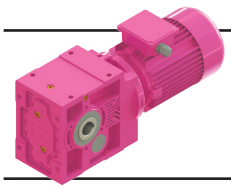
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

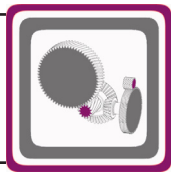
K Serien Getriebemotoren Leistung und Drehzahlübersicht



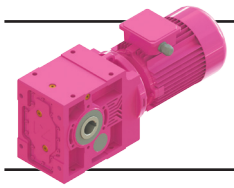
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,12 0,18	12 13 16 18 21 22	87 79 67 57 50 47	**116,34** **105,26** **88,87** **76,13** **67,22** **62,79**	6898 7032 7176 7272 7326 7350	1,6 1,8 2,1 2,5 2,8 3,0	**KR103-63/4a**	0,41	12	90	KR235
	12 14 16 17 21 24 29 31 40 47 55 59	90 74 67 60 51 43 37 34 27 23 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**	3645 4265 4452 4622 4830 4964 5045 5082 4816 4604 4409 4317	0,9 1,1 1,2 1,3 1,6 1,9 2,2 2,3 3,0 3,6 4,0 4,0	**KR003-63/4a**	0,41	11	86	KR236
	70 87 95 106 126 149 174 188	15 12 11 10 8,4 7,1 6,1 5,7	**19,88** **16,18** **14,73** **13,26** **11,09** **9,40** **8,04** **7,46**	4304 4027 3906 3775 3561 3374 3206 3128	4,0 4,0 4,0 4,0 4,0 4,0 4,0 4,0	**KR002-63/4a**	0,41	10	86	KR237
0,18 0,25	0.11 0.13 0.15 0.18 0.21 0.23 0.26 0.30 0.34 0.38 0.43	12428 11003 9273 7898 6779 6142 5366 4737 4217 3780 3281	**7938.12** **7017.76** **5902.70** **5018.35** **4299.81** **3891.23** **3396.71** **2996.39** **2665.68** **2387.89** **2074.42**	94659 100297 106729 111162 114488 116267 118321 119954 121165 122196 123375	1.2 1.4 1.6 1.9 2.2 2.4 2.8 3.2 3.6 4.0 4.0	**KR876-71/6a**	0,61	644	174	KR009
	0.39 0.51 0.60	3604 2766 2340	**3597.31** **2755.47** **2328.84**	7639 21967 25955	0.7 1.0 1.2	**KR576-63/4b**	0,60	156	138	KR010
	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**	26363 29009 32301 33070 34457 35097	1.2 1.4 1.9 2.2 2.8 3.3	**KR575-63/4b**	0,60	152	138	KR011
	0.79 0.95 1.0 1.1 1.2 1.4 1.6	1812 1515 1432 1253 1176 1000 929	**1767.90** **1476.60** **1395.04** **1218.61** **1142.99** **971.77** **901.03**	13800 16919 17652 19066 19617 20767 21199	0.9 1.0 1.1 1.2 1.3 1.5 1.7	**KR475-63/4b**	0,60	110	126	KR012



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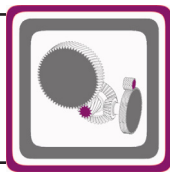
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,18 0,25	1.7	870	**844.06**	21557	1.8	**KR475-63/4b**	0,60	110	126	KR012
	1.9 2.1 2.4 2.9 3.1	777 695 611 511 483	**472.63** **422.88** **371.35** **310.16** **293.03**	22032 22449 22851 23301 23456	2.0 2.2 2.5 3.0 3.2	**KR474-71/6a**	0,61	98	122	KR013
	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**	6953 9575 11846 13265 14238	0.7 0.8 1.0 1.2 1.3	**KR375-63/4b**	0,60	70	114	KR014
	2.4 3.0 3.5	604 486 427	**367.43** **295.76** **259.36**	14278 15262 15695	1.4 1.7 1.9	**KR374-71/6a**	0,61	60	110	KR015
	3.8 4.7 5.4	388 313 274	**367.43** **295.76** **259.36**	15965 16444 16666	2.1 2.6 3.0	**KR374-63/4b**	0,60	59	110	KR016
	2.4 2.8 3.2 3.9 4.7 5.6 6.5 7.0	589 512 449 371 310 260 223 207	**573.99** **498.55** **436.24** **360.73** **300.85** **252.20** **215.91** **200.35**	11013 11626 12072 12546 12878 13141 13314 13385	0.8 0.9 1.0 1.2 1.5 1.7 2.0 2.2	**KR275-63/4b**	0,60	29	102	KR017
	7.9 9.3 11	190 162 140	**113.65** **96.68** **83.48**	13452 13566 13649	2.4 2.8 3.2	**KR273-71/6a**	0,61	21	98	KR018
	12 14	122 104	**113.65** **96.68**	13715 13795	3.7 4.0	**KR273-63/4b**	0,60	21	98	KR228
	6,5 7,5 8,6 9,2	244 211 185 173	**138,53** **119,62** **104,49** **98,01**	8460 9139 9589 9751	1,1 1,3 1,5 1,6	**KR203-71/6a**	0,61	17	94	KR238
	10 12 13 14 17	157 135 118 111 94	**138,53** **119,62** **104,49** **98,01** **83,32**	9876 9522 9196 9042 8656	1,8 2,1 2,4 2,5 3,0	**KR203-63/4b**	0,60	16	94	KR239
	8,5 10	185 157	**105,26** **88,87**	4121 5320	0,8 0,9	**KR103-71/6a**	0,61	13	90	KR240
	11 12 13	146 131 119	**129,27** **116,34** **105,26**	5662 6004 6349	1,0 1,1 1,2	**KR103-63/4b**	0,60	12	90	KR241



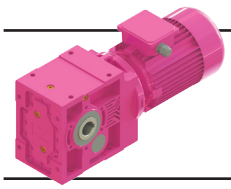
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

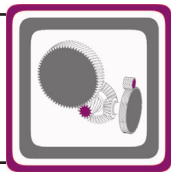
K Serien Getriebemotoren Leistung und Drehzahlübersicht



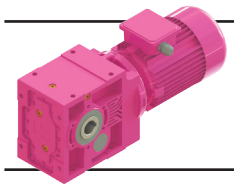
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,18 0,25	16 18 21 22 26 32 37	100 86 76 71 60 50 43	**88,87** **76,13** **67,22** **62,79** **53,07** **44,32** **38,22**	6706 6934 7065 7124 6921 6581 6308	1,4 1,6 1,8 2,0 2,3 2,8 3,1	**KR103-63/4b**	0,60	12	90	KR241
	16 17 21 24 29 31 40 47 55 59	101 91 76 65 55 52 40 34 29 27	**89,62** **80,66** **67,44** **57,16** **48,93** **45,41** **35,34** **29,95** **25,64** **23,79**	3074 3594 4178 4515 4727 4832 4575 4399 4233 4153	0,8 0,9 1,0 1,2 1,4 1,6 2,0 2,4 2,7 3,0	**KR003-63/4b**	0,60	11	86	KR242
	70 87 95 106 126 149 174 188	23 19 17 15 13 11 9,2 8,6	**19,88** **16,18** **14,73** **13,26** **11,09** **9,40** **8,04** **7,46**	4266 3997 3879 3751 3541 3357 3192 3116	3,5 4,0 4,0 4,0 4,0 4,0 4,0 4,0	**KR002-63/4b**	0,60	10	86	KR243
	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**	2998 2828 2679 2546 2484	4,0 4,0 4,0 4,0 4,0	**KR002-63/2a**	0,50	10	86	KR244
0,25 0,34	0.15 0.18 0.20 0.24 0.28 0.33 0.36 0.41 0.47 0.53 0.59	12900 11330 10031 8454 7201 6180 5599 4892 4319 3845 3446	**9052.24** **7938.12** **7017.76** **5902.70** **5018.35** **4299.81** **3891.23** **3396.71** **2996.39** **2665.68** **2387.89**	92529 99220 104090 109411 113257 116157 117714 119644 120946 122163 122934	1.2 1.3 1.5 1.8 2.1 2.4 2.7 3.1 3.5 3.9 4.0	**KR876-71/4a**	0,61	646	174	KR019
	0.20 0.22 0.25 0.31 0.35 0.40	10178 9079 7996 6444 5660 5012	**7156.22** **6380.72** **5610.63** **4516.30** **3960.44** **3501.26**	38854 47778 54772 62939 66228 68794	0.8 0.9 1.0 1.2 1.4 1.6	**KR776-71/4a**	0,81	390	162	KR020
	0.44 0.49 0.55 0.68 0.78	4690 4155 3720 3035 2620	**3203.12** **2838.16** **2539.01** **2066.04** **1786.65**	70062 71888 73301 75398 76571	1.7 1.9 2.2 2.6 3.1	**KR775-71/4a**	0,81	390	162	KR021



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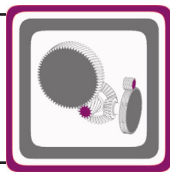
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,25 0,34	0.36 0.41 0.49 0.58 0.67	5475 4847 4085 3480 2987	**3844.04** **3398.35** **2858.39** **2430.14** **2082.19**	10354 22218 30366 35155 38434	0.8 0.9 1.1 1.2 1.4	**KR676-71/4a**	0,81	316	150	KR022
	0.75 0.88 1.0 1.2 1.3 1.5	2746 2335 2010 1746 1527 1343	**1875.03** **1597.25** **1373.07** **1191.60** **1041.68** **915.75**	39846 42037 43655 44795 45771 46442	1.6 1.8 2.1 2.5 2.8 3.2	**KR675-71/4a**	0,81	314	150	KR023
	0.63 0.74 1.0 1.2 1.5 1.8	3248 2748 1991 1770 1360 1151	**2236.28** **1890.04** **1368.95** **1216.74** **932.00** **787.70**	15721 22192 28627 30138 32506 33550	0.8 1.0 1.4 1.5 2.0 2.3	**KR575-71/4a**	0,81	154	138	KR024
	1.9 2.3	1096 927	**469.74** **397.01**	33805 34574	2.5 2.9	**KR574-71/6b**	0,83	162	134	KR025
	1.0 1.1 1.2 1.4 1.6 1.7	2030 1776 1667 1418 1318 1234	**1395.04** **1218.61** **1142.99** **971.77** **901.03** **844.06**	10695 14231 15434 17787 18580 19201	0.8 0.9 0.9 1.1 1.2 1.3	**KR475-71/4a**	0,81	111	126	KR026
	1.9 2.1 2.4	1103 986 867	**472.63** **422.88** **371.35**	20113 20850 21545	1.4 1.6 1.8	**KR474-71/6b**	0,61	116	122	KR027
	3.0 3.3 3.8 4.5	709 634 557 466	**472.63** **422.88** **371.35** **310.16**	22383 22746 23098 23530	2.2 2.4 2.8 3.3	**KR474-71/4a**	0,81	96	122	KR028
	2.0 2.4	1009 865	**692.22** **593.11**	9346 11511	0.8 0.9	**KR375-71/4a**	0,81	70	114	KR029
	2.4 3.0 3.5	856 690 605	**367.43** **295.76** **259.36**	11607 13487 14299	1.0 1.2 1.4	**KR374-71/6b**	0,83	62	110	KR030
	3.8 4.7 5.4	550 443 389	**367.43** **295.76** **259.36**	14758 15579 15953	1.5 1.8 2.1	**KR374-71/4a**	0,81	62	110	KR031
	6.1 7.1 8.1	354 303 264	**148.75** **127.30** **110.61**	16200 16507 16745	2.3 2.7 3.1	**KR373-71/6b**	0,83	57	106	KR032
	3.9	527	**360.73**	11505	0.9	**KR275-71/4a**	0,81	32	102	KR033



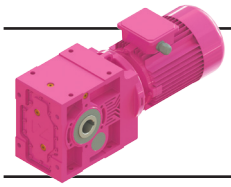
K Serisi Motorlu Güç Devir Sayfaları

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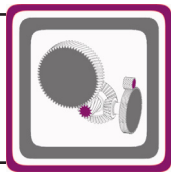
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,25 0,34	4.7 5.6 6.5 7.0	440 369 316 294	**300.85** **252.20** **215.91** **200.35**	12124 12552 12852 12972	1.0 1.2 1.4 1.5	**KR275-71/4a**	0,81	32	102	KR033
	7.9 9.3 11	270 230 199	**113.65** **96.68** **83.48**	13103 13279 13421	1.7 2.0 2.3	**KR273-71/6b**	0,83	22	98	KR034
	12 14 17 19	174 148 128 112	**113.65** **96.68** **83.48** **72.92**	13533 13625 13706 13766	2.6 3.0 3.5 4.0	**KR273-71/4a**	0,81	23	98	KR035
	6,5 7,5 8,6 9,2	340 294 257 241	**138,53** **119,62** **104,49** **98,01**	5143 7074 8142 8524	0,8 1,0 1,1 1,2	**KR203-71/6b**	0,61	18	94	KR245
	10 12 13 14 17 19 22 27	218 189 165 155 132 115 100 83	**138,53** **119,62** **104,49** **98,01** **83,32** **72,37** **63,33** **52,37**	8995 9058 8795 8667 8341 8053 7781 7396	1,3 1,5 1,7 1,8 2,1 2,4 2,8 3,4	**KR203-71/4a**	0,81	17	94	KR246
	12 13 16 18 21 22 26 32 37 40 43 50	183 166 140 120 106 99 84 70 61 56 52 44	**116,34** **105,26** **88,87** **76,13** **67,22** **62,79** **53,07** **44,32** **38,22** **35,22** **32,90** **27,81**	4075 4989 5832 6319 6602 6721 6681 6382 6137 6004 5893 5624	0,8 0,8 1,0 1,2 1,3 1,4 1,7 2,0 2,2 2,4 2,5 2,8	**KR103-71/4a**	0,81	13	90	KR247
	55 66 73	41 34 31	**25,50** **21,25** **19,13**	5493 5210 5074	2,9 3,4 3,6	**KR102-71/4a**	0,81	12	90	KR248
	21 24 29 31 40 47 55 59	106 90 77 72 56 47 41 38	**67,44** **57,16** **48,93** **45,41** **35,34** **29,95** **25,64** **23,79**	2736 3638 4139 4313 4292 4159 4028 3962	0,8 0,9 1,0 1,1 1,4 1,7 2,0 2,1	**KR003-71/4a**	0,81	12	86	KR249
	70 87 95	32 26 24	**19,88** **16,18** **14,73**	4216 3958 3845	2,5 2,9 3,2	**KR002-71/4a**	0,81	11	86	KR250



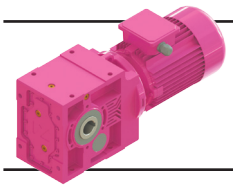
K Serisi Motorlu Güç Devir Sayfaları

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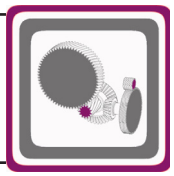
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,25 0,34	106 126 149 174 188	21 18 15 13 12	**13,26** **11,09** **9,40** **8,04** **7,46**	3720 3517 3337 3175 3100	3,5 4,0 4,0 4,0 4,0	**KR002-71/4a**	0,81	11	86	KR250
	190 211 253 298 348 375	12 11 8,8 7,5 6,4 5,9	**14,73** **13,26** **11,09** **9,40** **8,04** **7,46**	3087 2985 2817 2670 2538 2477	4,0 4,0 4,0 4,0 4,0 4,0	**KR002-63/2b**	0,67	10	86	KR251
0,37 0,50	0.24 0.28 0.33 0.36 0.41 0.47 0.53 0.59 0.67	12899 10986 9429 8543 7464 6590 5866 5258 4564	**5902.70** **5018.35** **4299.81** **3891.23** **3396.71** **2996.39** **2665.68** **2387.89** **2074.42**	92531 100551 106215 109166 112666 115092 117025 118644 120365	1.2 1.4 1.6 1.8 2.0 2.3 2.6 2.9 3.3	**KR876-71/4b**	1,15	646	174	KR036
	0.74 0.84 0.94	4239 3752 3358	**1891.08** **1671.18** **1495.27**	121100 122215 123073	3.5 4.0 4.0	**KR875-71/4b**	1,15	644	174	KR037
	0.31 0.35 0.40	9832 8636 7646	**4516.30** **3960.44** **3501.26**	41784 50902 56756	0.8 0.9 1.0	**KR776-71/4b**	1,15	388	162	KR038
	0.44 0.49 0.55 0.68 0.78 0.90 1,0 1.2	7155 6340 5675 4631 3997 3465 3033 2676	**3203.12** **2838.16** **2539.01** **2066.04** **1786.65** **1547.01** **1353.02** **1192.77**	59387 63320 66183 70229 72415 74091 75375 76371	1.1 1.3 1.4 1.7 2.0 2.3 2.6 3.0	**KR775-71/4b**	1,15	386	162	KR039
	0.58 0.67	5309 4557	**2430.14** **2082.19**	14518 25704	0.8 0.9	**KR676-71/4b**	1,15	228	150	KR040
	0.75 0.88 1.0 1.2 1.3 1.5 1.7 1.9 2.2	4190 3563 3066 2663 2330 2050 1815 1624 1429	**1875.03** **1597.25** **1373.07** **1191.60** **1041.68** **915.75** **809.27** **724.08** **635.86**	29457 34566 37921 40327 42055 43465 44489 45302 46089	1.0 1.2 1.4 1.6 1.8 2.1 2.4 2.6 3.0	**KR675-71/4b**	1,15	245	150	KR041
	1.0 1.2 1.5 1.8	3037 2701 2076 1756	**1368.95** **1216.74** **932.00** **787.70**	18825 22600 28025 30194	0.9 1.0 1.3 1.5	**KR575-71/4b**	1,15	154	138	KR042



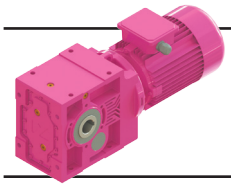
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

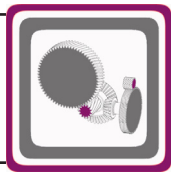
K Serien Getriebemotoren Leistung und Drehzahlübersicht



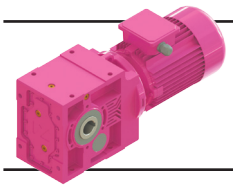
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,37 0,50	1.9 2.3 2.7	1672 1415 1174	**469.74** **397.01** **328.56**	30703 32180 33425	1.6 1.9 2.3	**KR574-80/6a**	1,1	159	134	KR043
	3.0 3.5	1075 910	**469.74** **397.01**	33903 34652	2.5 3.0	**KR574-71/4b**	1,15	151	134	KR044
	1.9 2.1 2.4	1682 1505 1323	**472.63** **422.88** **371.35**	15277 17013 18554	0.9 1.0 1.2	**KR474-80/6a**	1,1	98	122	KR045
	3.0 3.3 3.8 4.5 4.8	1081 967 850 711 672	**472.63** **422.88** **371.35** **310.16** **293.03**	20251 20964 21636 22369 22563	1.4 1.6 1.8 2.2 2.3	**KR474-71/4b**	1,15	96	122	KR046
	5.9 6.6 8.1	558 494 403	**153.47** **135.98** **110.65**	23177 23440 23809	2.8 3.1 3.8	**KR473-80/6a**	1,1	91	118	KR047
	3.0 3.5	1052 924	**295.76** **259.36**	8519 10673	0.8 0.9	**KR374-80/6a**	1,1	64	110	KR048
	3.8 4.7 5.4 6.1	840 676 594 525	**367.43** **295.76** **259.36** **229.29**	11812 13621 14382 14954	1.0 1.2 1.4 1.6	**KR374-71/4b**	1,15	62	110	KR049
	7.1 8.1	462 402	**127.30** **110.61**	15458 15879	1.8 2.0	**KR373-80/6a**	1,1	60	106	KR050
	9.4 11 13	348 298 259	**148.75** **127.30** **110.61**	16242 16546 16776	2.4 2.8 3.2	**KR373-71/4b**	1,15	58	106	KR051
	4.7 5.6 6.5 7.0	671 563 483 449	**300.85** **252.20** **215.91** **200.35**	10276 11244 11844 12067	0.7 0.8 0.9 1.0	**KR275-71/4b**	1,15	32	102	KR052
	9.3 11	351 303	**96.68** **83.48**	12650 12923	1.3 1.5	**KR273-80/6a**	1,1	35	98	KR053
	12 14 17 19 20 24 28 32	266 226 196 171 161 137 119 104	**113.65** **96.68** **83.48** **72.92** **68.40** **58.15** **50.51** **44.20**	13113 13296 13429 13530 13571 13662 13726 13794	1.7 2.0 2.3 2.6 2.8 3.3 3.8 4.0	**KR273-71/4b**	1,15	24	98	KR054



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K Series Geared Motors Performance Tables
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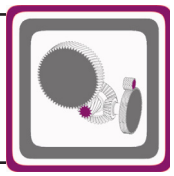
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,37 0,50	9,2	357	**98,01**	4160	0,8	**KR203-80/6a**	1,10	20	94	KR252
	10 12 13 14 17 19 22 27 32 37	324 280 245 230 196 170 149 123 103 90	**138,53** **119,62** **104,49** **98,01** **83,32** **72,37** **63,33** **52,37** **43,67** **38,16**	5913 7486 8073 7994 7778 7570 7362 7054 6753 6458	0,9 1,0 1,1 1,2 1,4 1,6 1,9 2,3 2,7 3,1	**KR203-71/4b**	1,15	18	94	KR253
	18 21 22 26 32 37 40 43 50	178 158 147 125 104 90 83 77 65	**76,13** **67,22** **62,79** **53,07** **44,32** **38,22** **35,22** **32,90** **27,81**	4454 5283 5610 6252 6029 5836 5728 5636 5409	0,8 0,9 1,0 1,1 1,3 1,5 1,6 1,7 1,9	**KR103-71/4b**	1,15	14	90	KR254
	55 66 73 81 96	61 51 46 41 35	**25,50** **21,25** **19,13** **17,30** **14,61**	5307 5055 4933 4777 4554	2,0 2,3 2,4 2,7 3,2	**KR102-71/4b**	1,15	13	90	KR255
	31 40 47 55 59	107 83 70 60 56	**45,41** **35,34** **29,95** **25,64** **23,79**	2720 3809 3749 3676 3636	0,8 1,0 1,1 1,3 1,4	**KR003-71/4b**	1,15	13	86	KR256
	70 87 95 106 126 149 174 188	47 39 35 32 27 22 19 18	**19,88** **16,18** **14,73** **13,26** **11,09** **9,40** **8,04** **7,46**	4117 3882 3777 3661 3469 3298 3143 3070	1,7 1,9 2,1 2,4 2,8 3,1 3,4 3,6	**KR002-71/4b**	1,15	12	86	KR257
	190 211 253 298 348 375	18 16 13 11 9,6 8,9	**14,73** **13,26** **11,09** **9,40** **8,04** **7,46**	3058 2959 2796 2652 2524 2464	3,4 3,8 4,0 4,0 4,0 4,0	**KR002-71/2a**	1,05	11	86	KR258
0,55 0,75	0.41 0.47 0.53 0.59 0.67	11095 9795 8720 7816 6784	**3396.71** **2996.39** **2665.68** **2387.89** **2074.42**	100240 105018 108622 111455 114492	1.4 1.5 1.7 1.9 2.2	**KR876-80/4a**	1,1	652	174	KR055
	0.74	6301	**1891.08**	115874	2.4	**KR875-80/4a**	1,1	648	174	KR056



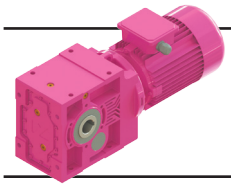
K Serisi Motorlu Güç Devir Sayfaları

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K Serien Getriebemotoren Leistung und Drehzahlübersicht



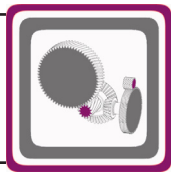
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,55 0,75	0.84 0.94 1.1 1.3 1.5	5578 4992 4391 3676 3213	**1671.18** **1495.27** **1313.07** **1096.71** **957.34**	117767 119246 120680 122279 123454	2.7 3.0 3.4 4.0 4.0	**KR875-80/4a**	1,1	648	174	KR056
	0.44 0.49 0.55 0.68 0.78 0.90 1.0 1.2 1.3 1.5 1.7 1.9	10636 9424 8436 6884 5942 5150 4508 3978 3531 3150 2789 2496	**3203.12** **2838.16** **2539.01** **2066.04** **1786.65** **1547.01** **1353.02** **1192.77** **1058.16** **943.49** **833.78** **746.01**	34128 45311 52216 60727 65067 68285 70633 72440 73857 74993 76015 76918	0.8 0.8 0.9 1.2 1.3 1.6 1.8 2.0 2.3 2.5 2.9 3.2	**KR775-80/4a**	1,1	390	162	KR057
	0.88 1.0 1.2 1.3 1.5 1.7 1.9 2.2	5297 4558 3959 3464 3047 2697 2414 2124	**1597.25** **1373.07** **1191.60** **1041.68** **915.75** **809.27** **724.08** **635.86**	14881 25741 31458 35315 38041 40111 41693 43065	0.8 0.9 1.1 1.2 1.4 1.6 1.8 2.0	**KR675-80/4a**	1,1	317	150	KR058
	2.5 2.8 3.3 3.8	1939 1717 1461 1257	**363.81** **321.51** **273.88** **235.44**	43918 44897 45969 46774	2.2 2.5 2.9 3.4	**KR674-80/6b**	1,5	204	146	KR059
	1.5 1.8	3085 2611	**932.00** **787.70**	18145 23541	0.9 1.0	**KR575-80/4a**	1,1	152	138	KR060
	1.9 2.3 2.7	2485 2103 1745	**469.74** **397.01** **328.56**	24708 27837 30251	1.1 1.3 1.5	**KR574-80/6b**	1,5	155	134	KR061
	3.0 3.5 4.3 5.0 5.7	1598 1352 1122 960 843	**469.74** **397.01** **328.56** **281.00** **246.42**	31147 32517 33679 34445 34969	1.7 2.0 2.4 2.8 3.2	**KR574-80/4a**	1,1	152	134	KR062
	2.4	1966	**371.35**	11705	0.8	**KR474-80/6b**	1,5	100	122	KR063
	3.0 3.3 3.8 4.5 4.8	1608 1438 1264 1057 999	**472.63** **422.88** **371.35** **310.16** **293.03**	16042 17603 19018 20407 20770	1.0 1.1 1.2 1.5 1.6	**KR474-80/4a**	1,1	98	122	KR064
	5.9 6.6	831 736	**153.47** **135.98**	21838 22314	1.9 2.1	**KR473-80/6b**	1,5	92	118	KR065



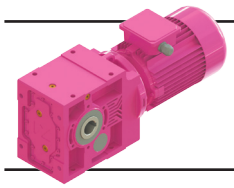
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



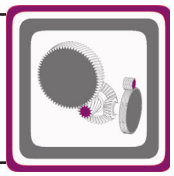
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,55 0,75	8.1	600	**110.65**	22954	2.6	**KR473-80/6b**	1,5	92	118	KR065
	9.1 10 13	535 474 386	**153.47** **135.98** **110.65**	23280 23531 23881	2.9 3.3 4.0	**KR473-80/4a**	1,6	91	118	KR066
	4.7 5.4 6.1	1005 883 781	**295.76** **259.36** **229.29**	9356 11251 12512	0.8 0.9 1.0	**KR374-80/4a**	1,6	64	110	KR067
	7.1 8.1 9.3	688 599 527	**127.30** **110.61** **97.26**	13553 14370 16830	1.2 1.4 1.6	**KR373-80/6b**	1,5	62	106	KR068
	11 13 14 18	443 386 339 273	**127.30** **110.61** **97.26** **78.29**	15607 16002 16299 16696	1.9 2.1 2.4 3.0	**KR373-80/4a**	1,6	60	106	KR069
	7.0	667	**200.35**	10316	0.7	**KR275-80/4a**	1,5	35	102	KR070
	9.3 11 12	523 452 395	**96.68** **83.48** **72.92**	11531 12043 12399	0.9 1.0 1.1	**KR273-80/6b**	1,5	26	98	KR071
	14 17 19 20 24 28 32 38 46	337 291 255 239 203 177 155 128 107	**96.68** **83.48** **72.92** **68.40** **58.15** **50.51** **44.20** **36.55** **30.48**	12745 12986 13166 13239 13397 13507 13594 13693 13783	1.3 1.5 1.8 1.9 2.2 2.5 2.9 3.5 4.0	**KR273-80/4a**	1,6	27	98	KR072
	13 14 17 19 22 27 32 37 44 53	365 342 291 253 222 183 153 134 111 93	**104,49** **98,01** **83,32** **72,37** **63,33** **52,37** **43,67** **38,16** **31,55** **26,31**	3564 5035 6876 6800 6698 6516 6311 6093 5900 5656	0,8 0,8 1,0 1,1 1,3 1,5 1,8 2,1 2,5 2,9	**KR203-80/4a**	1,6	20	94	KR259
	59	84	**23,79**	5543	3,3	**KR202-80/4a**	1,6	19	94	KR260
	26 32 37 40 43 50	185 155 134 123 115 97	**53,07** **44,32** **38,22** **35,22** **32,90** **27,81**	4116 5373 5361 5293 5233 5073	0,8 0,9 1,0 1,1 1,1 1,3	**KR103-80/4a**	1,6	16	90	KR261



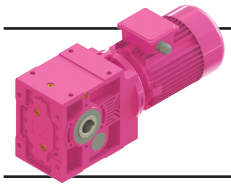
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



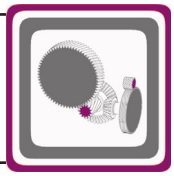
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,55	55	90	**25,50**	5026	1,3	**KR102-80/4a**	1,6	15	90	KR262
0,75	66	75	**21,25**	4821	1,5					
	73	68	**19,13**	4719	1,6					
	81	61	**17,30**	4587	1,8					
	96	52	**14,61**	4394	2,1					
	112	45	**12,51**	4218	2,4					
	127	39	**11,05**	4078	2,5					
	136	37	**10,32**	4002	2,7					
	161	31	**8,72**	3819	3,1					
	47	105	**29,95**	2852	0,8	**KR003-80/4a**	1,6	15	86	KR263
	55	90	**25,64**	3150	0,9					
	59	83	**23,79**	3147	1,0					
	70	70	**19,88**	3935	1,1	**KR002-80/4a**	1,6	14	86	KR264
	87	57	**16,18**	3745	1,3					
	95	52	**14,73**	3656	1,4					
	106	47	**13,26**	3556	1,6					
	126	39	**11,09**	3386	1,9					
	149	33	**9,40**	3230	2,1					
	174	29	**8,04**	3087	2,3					
	188	27	**7,46**	3020	2,4					
	190	26	**14,73**	3009	2,3	**KR002-71/2b**	1,27	12	86	KR265
	211	24	**13,26**	2915	2,6					
	253	20	**11,09**	2761	3,0					
	298	17	**9,40**	2624	3,3					
	348	13	**8,04**	2500	3,8					
	375	13	**7,46**	2442	4,0					
0,75	0.47	13357	**2996.39**	90499	1.1	**KR876-80/4b**	2,0	650	174	KR073
1,0	0.53	11891	**2665.68**	96965	1.3					
	0.59	10658	**2387.89**	101819	1.4					
	0.67	9251	**2074.42**	106925	1.6					
	0.74	8593	**1891.08**	109015	1.7	**KR875-80/4b**	2,0	648	174	KR074
	0.84	7606	**1671.18**	112150	2.0					
	0.94	6807	**1495.27**	114417	2.2					
	1.1	5988	**1313.07**	116660	2.5					
	1.3	5013	**1096.71**	119136	3.0					
	1.5	4381	**957.34**	120635	3.4					
	1.7	3868	**844.51**	121974	3.9					
	1.9	3445	**751.30**	122940	4.0					
	0.68	9387	**2066.04**	45517	0.9	**KR775-80/4b**	2,0	390	162	KR076
	0.78	8103	**1786.65**	54213	1.0					
	0.90	7023	**1547.01**	60051	1.1					
	1.0	6148	**1353.02**	64159	1.3					
	1.2	5424	**1192.77**	67308	1.5					
	1.3	4815	**1058.16**	69520	1.7					
	1.5	4296	**943.49**	71358	1.9					
	1.7	3803	**833.78**	72985	2.1					
	1.9	3404	**746.01**	74223	2.4					
	2.1	2995	**655.11**	75424	2.7					
	2.3	2889	**396.00**	75799	2.8	**KR774-90S/6**	2,1	403	158	KR077
	2.5	2585	**354.32**	76663	3.1					
	2.9	2274	**311.14**	77510	3.5					



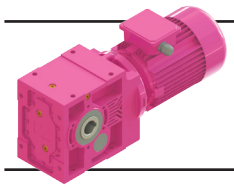
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



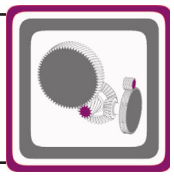
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,75 1,0	1.2 1.3 1.5 1.7 1.9 2.2	5399 4723 4155 3678 3292 2896	**1191.60** **1041.68** **915.75** **809.27** **724.08** **635.86**	12692 23802 29712 33713 36460 38983	0.8 0.9 1.0 1.2 1.3 1.5	**KR675-80/4b**	2,0	318	150	KR078
	2.5 2.8 3.3	2644 2341 1992	**363.81** **321.51** **273.88**	40390 41994 43684	1.6 1.8 2.2	**KR674-90S/6**	2,1	297	146	KR079
	3.9 4.4 5.1	1700 1505 1280	**363.81** **321.51** **273.88**	44967 45780 46681	2.5 2.9 3.4	**KR674-80/4b**	2,0	293	146	KR080
	1.9 2.3 2.7	3389 2868 2380	**469.74** **397.01** **328.56**	13357 20842 25633	0.8 0.9 1.1	**KR574-90S/6**	2,1	155	134	KR081
	3.0 3.5 4.3 5.0 5.7 5.9 6.6	2179 1844 1530 1309 1150 1109 987	**469.74** **397.01** **328.56** **281.00** **246.42** **237.97** **211.51**	27261 29618 31540 32748 33557 33756 34333	1.2 1.5 1.8 2.1 2.3 2.4 2.7	**KR574-80/4b**	2,0	153	134	KR082
	3.3 3.8 4.5 4.8	1961 1724 1442 1362	**422.88** **371.35** **310.16** **293.03**	11790 14829 17575 18241	0.8 0.9 1.1 1.1	**KR474-80/4b**	2,0	100	122	KR084
	5.9 6.6 8.1	1133 1003 818	**153.47** **135.98** **11965**	20034 20831 21864	1.4 1.5 1.9	**KR473-90S/6**	2,1	95	118	KR085
	9.1 10 13 14	731 647 528 467	**153.47** **135.98** **110.65** **97.79**	22362 22755 23289 23564	2.1 2.4 2.9 3.3	**KR473-80/4b**	2,0	92	118	KR086
	6.1	1065	**229.29**	8243	0.8	**KR374-80/4b**	2,0	65	110	KR087
	8.1 9.3	816 718	**110.61** **97.26**	12158 16200	1.0 1.1	**KR373-90S/6**	2,1	64	106	KR088
	11 13 14 18 20 23	605 527 463 373 328 290	**127.30** **110.61** **97.26** **78.29** **68.65** **60.69**	14339 14985 15461 16101 16380 16602	1.4 1.6 1.8 2.2 2.5 2.8	**KR373-80/4b**	2,0	61	106	KR089
	11 12	616 539	**83.48** **72.92**	10783 11416	0.7 0.8	**KR273-90S/6**	2,1	27	98	KR090



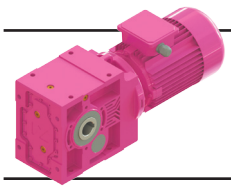
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

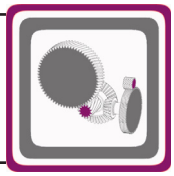
K Serien Getriebemotoren Leistung und Drehzahlübersicht



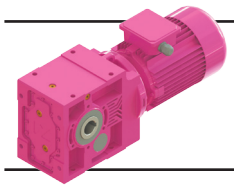
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
0,75 1,0	15 17 19 21 24 28 32 38 46 55 61 73	460 398 348 326 277 241 211 175 146 123 111 92	**96.68** **83.48** **72.92** **68.40** **58.15** **50.51** **44.20** **36.55** **30.48** **25.55** **23.08** **19.08**	11992 12386 12668 12802 13055 13228 13362 13514 13627 13799 13908 14033	1.0 1.1 1.3 1.4 1.6 1.9 2.1 2.6 3.1 3.5 3.7 4.0	**KR273-80/4b**	2,0	28	98	KR091
	19 22 27 32 37 44 53	345 303 251 209 183 151 126	**72,37** **63,33** **52,37** **43,67** **38,16** **31,55** **26,31**	4860 5904 5876 5790 5665 5537 5357	0,8 0,9 1,1 1,3 1,5 1,9 2,1	**KR203-80/4b**	2,0	21	94	KR266
	59 69 80	115 98 85	**23,79** **20,23** **17,47**	5301 5109 4933	2,4 2,9 3,2	**KR202-80/4b**	2,0	20	94	KR267
	40 43 50	168 157 133	**35,22** **32,90** **27,81**	4778 4756 4678	0,8 0,8 0,9	**KR103-80/4b**	2,0	16	90	KR268
	55 66 73 81 96 112 127 136 161 192 223	123 103 93 84 71 61 54 50 42 36 31	**25,50** **21,25** **19,13** **17,30** **14,61** **12,51** **11,05** **10,32** **8,72** **7,29** **6,28**	4709 4557 4478 4374 4213 4064 3942 3875 3712 3538 3397	1,0 1,1 1,2 1,3 1,6 1,7 1,9 2,0 2,2 2,5 2,9	**KR102-80/4b**	2,0	15	90	KR269
	253 271	27 25	**11,05** **10,32**	3279 3216	3,2 3,2	**KR102-80/2a**	1,8	14	90	KR270
	70 87 95 106 126 149 174 188	96 78 71 64 54 46 39 36	**19,88** **16,18** **14,73** **13,26** **11,09** **9,40** **8,04** **7,46**	3348 3557 3491 3414 3275 3142 3015 2954	0,8 1,0 1,0 1,2 1,4 1,5 1,7 1,8	**KR002-80/4b**	2,0	14	86	KR271
	211 253 298 348 375	32 27 23 20 18	**13,26** **11,09** **9,40** **8,04** **7,46**	2861 2717 2588 2471 2415	1,9 2,2 2,4 2,8 3,0	**KR002-80/2a**	1,8	13	86	KR272



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K Series Geared Motors Performance Tables
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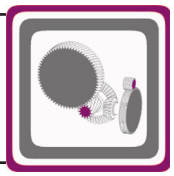
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
1,1 1,5	0.74 0.84 0.94 1.1 1.3 1.5 1.7 1.9	12603 11155 9983 8782 7352 6425 5674 5052	**1891.08** **1671.18** **1495.27** **1313.07** **1096.71** **957.34** **844.51** **751.30**	94084 99924 104294 108577 112817 115438 117428 118989	1.2 1.3 1.5 1.7 2.0 2.3 2.6 3.0	**KR875-90S/4**	2,6	652	174	KR093
	0.9 1.0 1.2 1.3 1.5 1.7 1.9 2.1	10301 9017 7955 7062 6301 5578 4992 4392	**1547.01** **1353.02** **1192.77** **1058.16** **943.49** **833.78** **746.01** **655.11**	37673 48196 55013 59852 63565 66563 68852 71017	0.8 0.9 1.0 1.1 1.3 1.4 1.6 1.8	**KR775-90S/4**	2,6	394	162	KR096
	2.3 2.5 2.9 3.2	4237 3792 3336 2988	**396.00** **354.32** **311.14** **278.35**	71573 73057 74491 75616	1.9 2.1 2.4 2.7	**KR774-90L/6**	3,0	344	158	KR097
	3.5 4.0	2724 2438	**396.00** **354.32**	76275 77070	2.9 3.3	**KR774-90S/4**	2,6	365	158	KR098
	1.7 1.9 2.2	5395 4828 4248	**809.27** **724.08** **635.86**	12748 22352 28869	0.8 0.9 1.0	**KR675-90S/4**	2,6	252	150	KR099
	2.5 2.8 3.3	3879 3433 2921	**363.81** **321.51** **273.88**	32128 35505 38803	1.1 1.3 1.5	**KR674-90L/6**	3,0	267	146	KR100
	3.9 4.4 5.1 6.0 6.9	2493 2207 1878 1617 1405	**363.81** **321.51** **273.88** **235.44** **204.32**	41205 42659 44206 45341 46205	1.7 1.9 2.3 2.7 3.1	**KR674-90S/4**	2,6	265	146	KR101
	3.0 3.5 4.3 5.0 5.7 5.9 6.7 7.7 8.8 10 12	3195 2704 2244 1920 1687 1627 1447 1239 1088 964 813	**469.74** **397.01** **328.56** **281.00** **246.42** **237.97** **211.51** **180.90** **158.64** **140.24** **117.96**	16549 22613 26756 29110 30614 30976 32059 33143 33871 34445 35107	0.8 1.0 1.2 1.4 1.6 1.7 1.9 2.2 2.5 2.8 3.3	**KR574-90S/4**	2,6	154	134	KR102
	5.9 6.6 8.1	1664 1474 1202	**153.47** **135.98** **110.65**	15735 17461 19524	0.9 1.1 1.3	**KR473-90L/6**	3,0	98	118	KR103
	9.1	1072	**153.47**	20444	1.4	**KR473-90S/4**	2,6	96	118	KR104



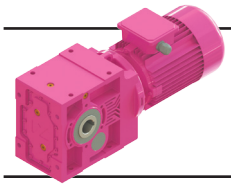
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

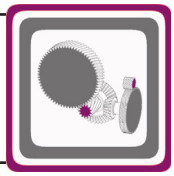
K Serien Getriebemotoren Leistung und Drehzahlübersicht



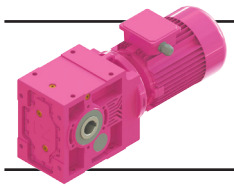
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
1,1 1,5	10 13 14 16 18 22	950 775 685 613 539 451	**135.98** **110.65** **97.79** **87.49** **76.83** **64.17**	21166 22110 22573 22899 23251 23612	1.6 2.0 2.3 2.5 2.9 3.4	**KR473-90S/4**	2,6	96	118	KR104
	8.1 9.2 12	1199 1055 850	**110.61** **97.26** **78.29**	4985 8585 11723	0.7 0.8 1.0	**KR373-90L/6**	3,0	66	106	KR105
	13 14 18 20 23 27 32 38	773 680 548 481 426 359 305 262	**110.61** **97.26** **78.29** **68.65** **60.69** **51.05** **43.40** **37.19**	12699 13655 14817 15331 15726 16173 16514 16759	1.1 1.2 1.5 1.7 1.9 2.3 2.7 3.1	**KR373-90S/4**	2,6	65	106	KR106
	17 19 20 24 28 32 38 46 55 61 73 88 105 117 141 169 202	583 510 479 407 354 310 257 215 180 163 135 113 95 85 70 59 49	**83.48** **72.92** **68.40** **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**	11082 11637 11862 12328 12633 12888 13155 13348 13573 13711 13895 14030 14141 14289 13589 12942 12334	0.8 0.9 0.9 1.1 1.3 1.5 1.8 2.1 2.4 2.5 2.9 3.3 3.7 2.9 3.4 3.9 4.0	**KR273-90S/4**	2,6	31	98	KR107
	27 32 37 44 53	367 307 268 222 186	**52,37** **43,67** **38,16** **31,55** **26,31**	3288 4803 4860 4859 4805	0,8 0,9 1,0 1,3 1,4	**KR203-90S/4**	2,6	24	94	KR273
	59 69 80 92 98 115 132	169 144 125 109 102 87 76	**23,79** **20,23** **17,47** **15,26** **14,32** **12,17** **10,57**	4871 4745 4619 4496 4436 4281 4142	1,7 1,9 2,2 2,4 2,5 2,8 3,1	**KR202-90S/4**	2,6	23	94	KR274
	62 72	162 139	**14,61** **12,51**	4111 4051	0,8 0,9	**KR102-90L/6**	3,0	20	90	KR275
	81 96 112	123 104 89	**17,30** **14,61** **12,51**	3994 3894 3791	0,9 1,1 1,2	**KR102-90S/4**	2,6	18	90	KR276



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K Serien Getriebemotoren Leistung und Drehzahlübersicht



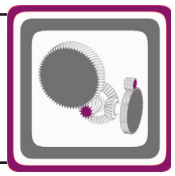
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
1,1 1,5	127 136 161 192 223	79 74 62 52 45	**11,05** **10,32** **8,72** **7,29** **6,28**	3702 3651 3523 3381 3262	1,3 1,4 1,5 1,7 2,0	**KR102-90S/4**	2,6	18	90	KR276
	253 271 321 384 446	39 37 31 26 22	**11,05** **10,32** **8,72** **7,29** **6,28**	3160 3105 2970 2828 2714	2,2 2,2 2,6 2,9 3,1	**KR102-80/2b**	2,4	15	90	KR277
	106 126 149 174 188	94 79 67 58 53	**13,26** **11,09** **9,40** **8,04** **7,46**	3099 3033 2951 2862 2816	0,8 0,9 1,0 1,1 1,2	**KR002-90S/4**	2,6	17	86	KR278
	211 253 298 348 375	47 40 34 29 27	**13,26** **11,09** **9,40** **8,04** **7,46**	2744 2626 2515 2410 2360	1,3 1,5 1,6 1,9 2,1	**KR002-80/2b**	2,4	14	86	KR279
1,5 2,0	0.94 1.1 1.3 1.5 1.7 1.9	13614 11976 10026 8762 7737 6889	**1495.27** **1313.07** **1096.71** **957.34** **844.51** **751.30**	89316 96588 99692 103733 106807 109174	1.1 1.3 1.5 1.7 1.9 2.2	**KR875-90L/4**	3,5	654	174	KR109
	2.1 2.3 2.6	6391 5605 4967	**438.70** **383.99** **339.70**	110488 112542 114124	2.3 2.7 3.0	**KR874-100L/6**	3,5	891	170	KR110
	1.3 1.5 1.7 1.9 2.1	9630 8592 7606 6808 5989	**1058.16** **943.49** **833.78** **746.01** **655.11**	43553 51103 56993 61179 64836	0.8 0.9 1.1 1.2 1.3	**KR775-90L/4**	3,5	423	162	KR112
	2.3 2.5 2.9 3.2	5778 5171 4549 4074	**396.00** **354.32** **311.14** **278.35**	65738 68182 70492 72208	1.4 1.5 1.8 2.0	**KR774-100L/6**	3,5	410	158	KR113
	3.5 4.0 4.5 5.0 5.8	3714 3324 2924 2619 2262	**396.00** **354.32** **311.14** **278.35** **240.71**	73306 74526 75815 76632 77566	2.2 2.4 2.7 3.1 3.5	**KR774-90L/4**	3,5	405	158	KR114
	2.5 2.8	5289 4682	**363.81** **321.51**	15099 24242	0.8 0.9	**KR674-100L/6**	3,5	304	146	KR115



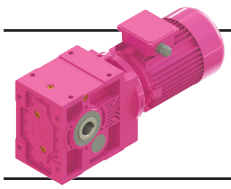
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



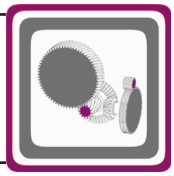
Güç *Power* Leistung P_g [kW] P_g [HP]	Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen n_2 [r.p.m]	Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente M_2 [Nm]	Çevrim Oranı *Ratio* Übersetzung i	Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) F_{qam} [N]	Servis Faktörü *Service Factors* Betriebsfaktor f_s	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom [A]	Ağırlık *Weight* Gewicht ~ [kg]	Ölçü Sayfası *Dim. Page* Maße Seite	Fiyat Kodu *Price Ref.* Preis No.
1,5 2,0	3.3	3983	**273.88**	31251	1.1	**KR674-100L/6**	3,5	304	146	KR115
	3.8 4.4 5.1 5.9 6.9 7.8 8.9	3400 3010 2561 2205 1916 1677 1476	**363.81** **321.51** **273.88** **235.44** **204.32** **178.62** **157.02**	35740 38334 40848 42678 44093 45118 45936	1.3 1.4 1.7 2.0 2.2 2.6 2.9	**KR674-90L/4**	3,5	298	146	KR116
	4.3 5.0 5.7 5.9 6.6	3059 2618 2300 2218 1974	**328.56** **281.00** **246.42** **237.97** **211.51**	18493 23465 26295 26951 28762	0.9 1.0 1.2 1.2 1.4	**KR574-90L/4**	3,5	158	134	KR117
	7.2 8.2 9.3 11 13 15	1857 1627 1441 1219 1000 884	**125.51** **109.86** **97.19** **82.14** **67.37** **59.49**	29594 31010 32115 33229 34273 34795	1.5 1.7 1.9 2.2 2.7 3.1	**KR573-100L/6**	3,5	151	130	KR118
	8.1	1638	**110.65**	15902	0.9	**KR473-100L/6**	3,5	105	118	KR119
	9.1 10 13 14 16 18 22 23	1464 1297 1057 935 837 736 615 582	**153.47** **135.98** **110.65** **97.79** **87.49** **76.83** **64.17** **60.63**	17616 18904 20504 21250 21778 22263 22880 23035	1.1 1.2 1.5 1.7 1.9 2.1 2.5 2.7	**KR473-90L/4**	3,5	98	118	KR120
	13 14 18 20 23 27 32 38 42	1055 928 748 657 581 489 417 357 324	**110.61** **97.26** **78.29** **68.65** **60.69** **51.05** **43.40** **37.19** **33.65**	8645 10733 12947 13855 14526 15258 15795 16179 16391	0.8 0.9 1.1 1.2 1.4 1.7 2.0 2.3 2.5	**KR373-90L/4**	3,5	67	106	KR121
	24 28 32 38 46 55 61 73 88 105 117 141 169 202	556 483 423 351 293 246 223 184 154 129 116 96 80 67	**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**	11297 11830 12228 12652 12978 13298 13483 13706 13898 14041 14005 13354 12746 12170	0.8 0.9 1.1 1.3 1.5 1.7 1.8 2.1 2.4 2.7 2.2 2.5 2.9 3.3	**KR273-90L/4**	3,5	33	98	KR122



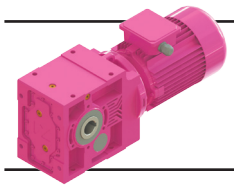
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



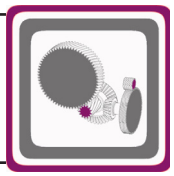
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
1,5 2,0	37 44 53	366 303 253	**38,16** **31,55** **26,31**	3844 4010 4121	0,8 0,9 1,0	**KR203-90L/4**	3,5	26	94	KR280
	59 69 80 92 98 115 132 151 183 220	231 197 170 149 140 119 103 91 75 63	**23,79** **20,23** **17,47** **15,26** **14,32** **12,17** **10,57** **9,25** **7,65** **6,38**	4370 4321 4254 4178 4139 4029 3924 3819 3664 3512	1,2 1,4 1,6 1,7 1,8 2,1 2,3 2,5 2,9 3,3	**KR202-90L/4**	3,5	25	94	KR281
	96 112 127 136 161 192 223	142 121 108 101 85 71 61	**14,61** **12,51** **11,05** **10,32** **8,72** **7,29** **6,28**	3521 3473 3422 3391 3304 3198 3105	0,8 0,9 0,9 1,0 1,1 1,3 1,5	**KR102-90L/4**	3,5	21	90	KR282
	253 271 321 384 446	54 50 42 36 31	**11,05** **10,32** **8,72** **7,29** **6,28**	3024 2978 2863 2739 2637	1,6 1,6 1,9 2,1 2,3	**KR102-90S/2**	3,3	19	90	KR283
	149 174 188	92 79 73	**9,40** **8,04** **7,46**	2671 2640 2618	0,8 0,8 0,9	**KR002-90L/4**	3,5	20	86	KR284
	298 348 375	46 39 36	**9,40** **8,04** **7,46**	2414 2329 2287	1,2 1,4 1,5	**KR002-90S/2**	3,3	18	86	KR285
2,2 3,0	1.5 1.7 1.9 2.1	12851 11348 10104 9058	**957.34** **844.51** **751.30** **673.01**	88777 94943 99325 102788	1.2 1.3 1.5 1.7	**KR875-100L/4a**	5,1	680	174	KR124
	2.3 2.7	8221 7285	**383.99** **339.70**	105381 108113	1.8 2.1	**KR874-112M/6**	5,1	677	170	KR125
	3.2 3.7 4.1 4.9 6.0	6026 5285 4683 3967 3258	**438.70** **383.99** **339.70** **287.10** **235.47**	111461 113349 114803 116446 118066	2.5 2.8 3.2 3.8 4.0	**KR874-100L/4a**	5,1	689	170	KR126
	1.9 2.1	9985 8785	**746.01** **655.11**	40584 49825	0.8 0.9	**KR775-100L/4a**	5,1	402	162	KR127
	2.3 2.5	8474 7584	**396.00** **354.32**	51853 57118	0.9 1.1	**KR774-112M/6**	5,1	386	158	KR128



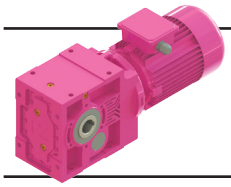
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



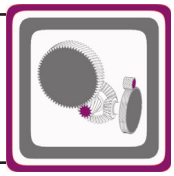
Güç *Power* Leistung P_g [kW] P_g [HP]	Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen n_2 [r.p.m]	Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente M_2 [Nm]	Çevrim Oranı *Ratio* Übersetzung i	Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) F_{qam} [N]	Servis Faktörü *Service Factors* Betriebsfaktor f_s	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom [A]	Ağırlık *Weight* Gewicht ~ [kg]	Ölçü Sayfası *Dim. Page* Maße Seite	Fiyat Kodu *Price Ref.* Preis No.
2,2 3,0	2.9 3.2	6672 5975	**311.14** **278.35**	61797 64946	1.2 1.3	**KR774-112M/6**	5,1	386	158	KR128
	3.5 4.0 4.5 5.0 5.8 6.7 7.7	5447 4875 4289 3841 3318 2877 2520	**396.00** **354.32** **311.14** **278.35** **240.71** **208.42** **182.29**	67094 69412 71470 72940 74563 75853 76924	1.5 1.6 1.9 2.1 2.4 2.8 3.2	**KR774-100L/4a**	5,1	375	158	KR129
	3.9 4.4 5.1 6.0 6.9	4987 4414 3756 3234 2810	**363.81** **321.51** **273.88** **235.44** **204.32**	20298 27260 33105 36863 39478	0.9 1.0 1.1 1.3 1.5	**KR674-100L/4a**	5,1	272	146	KR130
	7.0 8.9 10	2800 2204 1973	**128.24** **100.90** **90.21**	39572 42770 43814	1.5 2.0 2.2	**KR673-112M/6**	5,1	227	142	KR131
	11 14 16	1806 1422 1273	**128.24** **100.90** **90.21**	44531 46131 46707	2.4 3.0 3.4	**KR673-100L/4a**	5,1	215	142	KR229
	5.7 5.9 6.6 7.7	3373 3254 2895 2478	**246.42** **237.97** **211.51** **180.90**	13572 15643 20454 24775	0.8 0.8 0.9 1.1	**KR574-100L/4a**	5,1	163	134	KR132
	8.2 9.3	2389 2116	**109.86** **97.19**	25640 27777	1.1 1.3	**KR573-112M/6**	5,1	158	130	KR133
	11 13 15 17 21 24	1758 1541 1365 1155 948 838	**125.51** **109.86** **97.19** **82.14** **67.37** **59.49**	30269 31595 32524 33531 34536 35013	1.5 1.8 2.0 2.3 2.8 3.2	**KR573-100L/4a**	5,1	148	130	KR134
	13 14 16 18 22 23 24 27 31 36 47	1551 1372 1228 1080 903 854 832 721 629 552 427	**110.65** **97.79** **87.49** **76.83** **64.17** **60.63** **59.19** **51.22** **44.64** **39.11** **30.11**	16830 18310 19362 20338 21391 21666 21782 22388 22814 23162 23702	1.0 1.1 1.3 1.4 1.7 1.8 1.9 2.1 2.5 2.8 3.6	**KR473-100L/4a**	5,1	103	118	KR135
	18 20 23 27	1097 964 853 718	**78.29** **68.65** **60.69** **51.05**	7744 10182 11716 13236	0.7 0.9 1.0 1.1	**KR373-100L/4a**	5,1	74	106	KR136



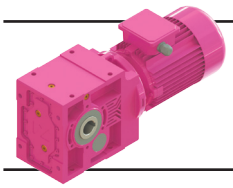
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



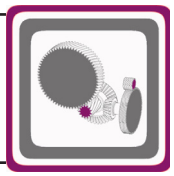
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
2,2 3,0	32 38 42 49 57 64 75	611 525 475 407 349 311 265	**43.40** **37.19** **33.65** **28.85** **24.72** **21.90** **18.62**	14269 14983 15337 15848 16230 16477 16739	1.3 1.6 1.7 2.0 2.3 2.6 3.1	**KR373-100L/4a**	5,1	74	106	KR136
	32 38 46 55 61 73 88 105 117 141 169 202	621 515 430 361 327 271 226 190 170 141 118 99	**44.20** **36.55** **30.48** **25.55** **23.08** **19.08** **15.92** **13.34** **12.00** **9.92** **8.28** **6.94**	10738 11587 12188 12723 13008 13365 13627 13844 13507 12943 12403 11882	0.7 0.9 1.0 1.2 1.3 1.4 1.6 1.8 1.5 1.7 2.0 2.2	**KR273-100L/4a**	5,1	38	98	KR137
	210 233 282 338 404	95 85 71 59 49	**13.34** **12.00** **9.92** **8.28** **6.94**	14058 13507 12943 12403 11882	3.2 2.6 3.0 3.4 3.8	**KR273-90L/2**	4,65	35	98	KR138
	92 98 115 132 151 183 220	219 205 174 152 133 110 92	**15,26** **14,32** **12,17** **10,57** **9,25** **7,65** **6,38**	3611 3608 3581 3536 3481 3386 3280	1,2 1,2 1,4 1,5 1,7 2,0 2,2	**KR202-100L/4a**	5,1	28	94	KR287
	303 366 439	66 55 46	**9,25** **7,65** **6,38**	3074 2944 2817	2,8 3,2 3,6	**KR202-90L/2**	4,65	25	94	KR288
3,0 4,0	2.1 2.4	12352 10725	**673.01** **584.66**	90953 97131	1.2 1.4	**KR875-100L/4b**	6,45	664	174	KR139
	2.7	9934	**339.70**	99909	1.5	**KR874-132S/6**	6,9	685	170	KR140
	3.2 3.7 4.1 4.9 6.0 6.8 7.6	8217 7207 6386 5410 4442 3930 3498	**438.70** **383.99** **339.70** **287.10** **235.47** **207.95** **184.83**	105388 108332 110569 113067 115440 116560 117485	1.8 2.1 2.3 2.8 3.4 3.8 4.0	**KR874-100L/4b**	6,45	645	170	KR141
	2.9 3.2	9098 8148	**311.14** **278.35**	47811 53872	0.9 1.0	**KR774-132S/6**	6,9	400	158	KR142
	3.5 4.0	7428 6648	**396.00** **354.32**	57962 61897	1.1 1.2	**KR774-100L/4b**	6,45	380	158	KR143



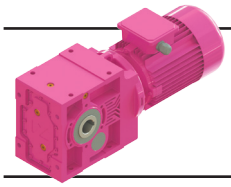
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



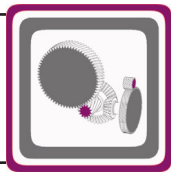
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
3,0 4,0	4.5 5.0 5.8 6.7 7.7	5849 5238 4524 3924 3437	**311.14** **278.35** **240.71** **208.42** **182.29**	65476 67947 70592 72636 74253	1.4 1.5 1.8 2.0 2.3	**KR774-100L/4b**	6,45	380	158	KR143
	8.1 9.1 10 12	3330 2957 2648 2288	**111.63** **99.00** **88.57** **76.59**	74513 75617 76488 77512	2.4 2.7 3.0 3.5	**KR773-132S/6**	6,9	382	154	KR144
	5.1 6.0 6.9	5121 4409 3832	**273.88** **235.44** **204.32**	18223 27179 32506	0.8 1.0 1.1	**KR674-100L/4b**	6,45	275	146	KR145
	7.0 8.9 10	3815 3003 2688	**128.24** **100.90** **90.21**	32717 38324 40196	1.1 1.4 1.6	**KR673-132S/6**	6,9	232	142	KR146
	11 14 16 17	2464- 1940 1736 1549	**128.24** **100.90** **90.21** **80.38**	41421 43864 44832 45620	1.7 2.2 2.5 2.8	**KR673-100L/4b**	6,45	217	142	KR230
	7.7	3379	**180.90**	13438	0.8	**KR574-100L/4b**	6,45	166	134	KR147
	9.3	2883	**97.19**	20736	0.9	**KR574-132S/6**	6,9	178	134	KR148
	11 13 14 17 21 24 26	2399 2102 1862 1576 1293 1143 1017	**125.51** **109.86** **97.19** **82.14** **67.37** **59.49** **52.88**	25717 27992 29610 31337 32874 33619 34244	1.1 1.3 1.5 1.7 2.1 2.4 2.7	**KR573-100L/4b**	6,45	151	130	KR149
	29 34	931 788	**97.19** **82.14**	34621 35608	2.9 3.3	**KR573-100L/2**	6,0	149	130	KR150
	14 16 18 22 23 24 27 31 36 56	1873 1675 1473 1232 1165 1136 984 859 753 488	**97.79** **87.49** **76.83** **64.17** **60.63** **59.19** **51.22** **44.64** **39.11** **25.15**	13340 15567 17437 19260 19785 19957 20938 21638 22191 23442	0.8 0.9 1.1 1.3 1.3 1.4 1.6 1.8 2.1 3.2	**KR473-100L/4b**	6,45	107	118	KR151
	27 32 38 42 49	980 834 716 648 555	**51.05** **43.40** **37.19** **33.65** **28.85**	9894 11945 13261 13915 14728	0.8 1.0 1.1 1.3 1.5	**KR373-100L/4b**	6,45	77	106	KR152



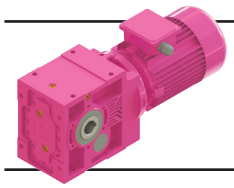
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K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht



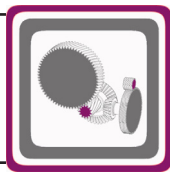
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
3,0 4,0	57 64 75 88 97	476 425 362 311 281	**24.72** **21.90** **18.62** **15.96** **14.44**	15349 15732 16147 16473 16646	1.7 1.9 2.3 2.6 2.9	**KR373-100L/4b**	6,45	77	106	KR152
	46 55 61 73 88 105 117 141 169 202	586 492 446 369 309 259 232 192 161 135	**30.48** **25.55** **23.08** **19.08** **15.92** **13.34** **12.00** **9.92** **8.28** **6.94**	11059 11907 12336 12892 13286 13513 12939 12473 12011 11554	0.8 0.9 0.9 1.1 1.2 1.4 1.1 1.2 1.4 1.6	**KR273-100L/4b**	6,45	42	98	KR153
	210 233 282 338 404	130 116 96 80 67	**13.34** **12.00** **9.92** **8.28** **6.94**	13513 12939 12473 12011 11554	2.3 1.9 2.2 2.5 2.8	**KR273-100L/2**	6,0	38	98	KR154
	92 98 115 132 151 183 220	298 280 238 207 181 150 125	**15,26** **14,32** **12,17** **10,57** **9,25** **7,65** **6,38**	2944 2984 3055 3083 3086 3061 3011	0,9 0,9 1,0 1,1 1,3 1,4 1,6	**KR202-100L/4b**	6,45	32	94	KR289
	303 366 439	91 75 63	**9,25** **7,65** **6,38**	2883 2786 2685	2,0 2,3 2,6	**KR202-100L/2**	6,0	29	94	KR290
4,0 5,5	2.7 3.0	12586 11366	**514.05** **463.83**	89993 94758	1.2 1.3	**KR875-112M/4**	8,2	670	174	KR155
	3.6 4.1 4.9 5.9 6.7	9609 8515 7213 5923 5240	**383.99** **339.70** **287.10** **235.47** **207.95**	101005 104504 108474 111834 113509	1.6 1.8 2.1 2.5 2.9	**KR874-112M/4**	8,2	654	170	KR156
	3.5 4.0 4.5 5.0 5.8 6.7 7.7	9904 8864 7798 6984 6032 5232 4582	**396.00** **354.32** **311.14** **278.35** **240.71** **208.42** **182.29**	41117 49280 55914 60237 64660 67951 70443	0.8 0.9 1.0 1.1 1.3 1.5 1.7	**KR774-112M/4**	8,2	387	158	KR157
	8.1 9.1 10 12 14 16	4445 3946 3534 3054 2648 2319	**111.63** **99.00** **88.57** **76.59** **66.32** **58.00**	70973 72563 73876 75378 76492 77404	1.8 2.0 2.3 2.6 3.0 3.4	**KR773-132M/6a**	9,0	401	154	KR158



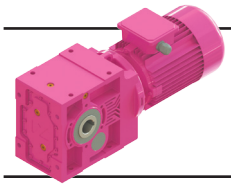
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

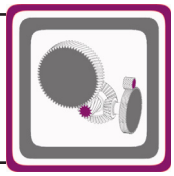
K Serien Getriebemotoren Leistung und Drehzahlübersicht



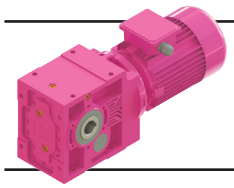
Güç *Power* Leistung P_g [kW] P_g [HP]	Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen n_2 [r.p.m]	Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente M_2 [Nm]	Çevrim Oranı *Ratio* Übersetzung i	Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) F_{qam} [N]	Servis Faktörü *Service Factors* Betriebsfaktor f_s	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom [A]	Ağırlık *Weight* Gewicht ~ [kg]	Ölçü Sayfası *Dim. Page* Maße Seite	Fiyat Kodu *Price Ref.* Preis No.
4,0 5,5	7.0 8.9 10	5091 4008 3587	**128.24** **100.90** **90.21**	19073 31129 34457	0.8 1.1 1.2	**KR673-132M/6a**	9,0	232	142	KR159
	11 14 16 17	3286 2588 2316 2066	**128.24** **100.90** **90.21** **80.38**	36660 40811 42194 43322	1.3 1.7 1.9 2.1	**KR673-112M/4**	8,2	227	142	KR160
	13 14 17 21 24 26 31 37	2804 2484 2102 1725 1525 1357 1150 982	**109.86** **97.19** **82.14** **67.37** **59.49** **52.88** **44.73** **38.16**	21813 24908 27930 30497 31617 32561 33973 35260	1.0 1.1 1.3 1.6 1.8 2.0 2.3 2.5	**KR573-112M/4**	8,2	158	130	KR161
	42 47	864 764	**67.37** **59.49**	35960 36700	2.8 3.1	**KR573-112M/2**	7,8	154	130	KR162
	22 23 24 27 31 36 46 56 59 60 70 80	1644 1554 1515 1313 1146 1005 778 651 615 600 520 454	**64.17** **60.63** **59.19** **51.22** **44.64** **39.11** **30.11** **25.15** **23.76** **23.19** **20.07** **17.49**	15837 16692 17042 18715 19888 20778 22058 22805 22529 22412 21705 21029	0.9 1.0 1.0 1.2 1.4 1.5 2.0 2.4 2.5 2.6 2.9 3.1	**KR473-112M/4**	8,2	114	118	KR163
	32 38 42 49 57 64 75 88 97 113 132	1113 955 865 741 636 567 483 414 375 322 276	**43.40** **37.19** **33.65** **28.85** **24.72** **21.90** **18.62** **15.96** **14.44** **12.38** **10.60**	7361 10281 11543 12988 14054 14639 15299 15789 16059 16395 16295	0.7 0.9 0.9 1.1 1.3 1.4 1.7 2.0 2.2 2.5 2.9	**KR373-112M/4**	8,2	83	106	KR164
	61 73 88 105 117 141 169 202	595 493 412 346 310 256 214 180	**23.08** **19.08** **15.92** **13.34** **12.00** **9.92** **8.28** **6.94**	11305 12169 12773 12831 12228 11885 11521 11143	0.7 0.8 0.9 1.0 0.8 0.9 1.1 1.2	**KR273-112M/4**	8,2	49	98	KR165
	210 233 282	173 155 129	**13.34** **12.00** **9.92**	12831 12228 11885	1.7 1.4 1.6	**KR273-112M/2**	7,8	44	98	KR166



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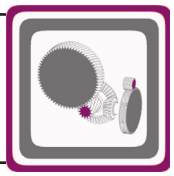
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
4,0 5,5	338 404	107 90	**8.28** **6.94**	11521 11143	1.9 2.1	**KR273-112M/2**	7,8	44	98	KR166
	132 151 183 220	276 242 200 167	**10,57** **9,25** **7,65** **6,38**	2501 2581 2647 2669	0,9 1,0 1,1 1,2	**KR202-112M/4**	8,2	38	94	KR291
	303 366 439	121 100 84	**9,25** **7,65** **6,38**	2637 2584 2518	1,5 1,7 2,0	**KR202-112M/2**	7,8	34	94	KR292
5.5 7.5	4.1 4.9 5.9 6.7	11708 9918 8144 7205	**339.70** **287.10** **235.47** **207.95**	93538 100050 105670 108370	1.3 1.5 1.8 2.1	**KR874-132S/4**	11,3	643	170	KR167
	5.0 5.8 6.7 7.7	9603 8295 7194 6301	**278.35** **240.71** **208.42** **182.29**	43675 53122 59303 63537	0.8 1.0 1.1 1.3	**KR774-132S/4**	15,3	412	158	KR168
	8.1 9.1 10 12	6116 5431 4863 4202	**111.63** **99.00** **88.57** **76.59**	64329 67180 69355 71755	1.3 1.5 1.6 1.9	**KR773-132M/6b**	12,3	400	154	KR169
	13 14 16 18 21	3946 3504 3138 2712 2352	**111.63** **99.00** **88.57** **76.59** **66.32**	72628 74025 75182 76358 77301	2.0 2.3 2.5 2.9 3.4	**KR773-132S/4**	11,3	382	154	KR170
	10	4936	**90.21**	21007	0.9	**KR673-132M/6b**	12,3	232	142	KR171
	11 14 16 17 20 24 27 31	4519 3558 3185 2841 2419 2083 1810 1584	**128.24** **100.90** **90.21** **80.38** **68.47** **58.86** **51.08** **44.65**	26442 34778 37287 39360 41659 43360 44559 45501	1.0 1.2 1.4 1.5 1.8 2.1 2.4 2.7	**KR673-132S/4**	11,3	232	142	KR172
	14 17 21 24 26 31 37 40 46 54 62	3415 2891 2372 2097 1866 1581 1350 1249 1071 919 813	**97.19** **82.14** **67.37** **59.49** **52.88** **44.73** **38.16** **35.34** **30.25** **25.78** **22.77**	13241 20804 25809 27974 29553 31750 33588 34340 35323 34181 33277	0.8 0.9 1.1 1.3 1.4 1.7 1.9 1.9 2.1 2.5 2.7	**KR573-132S/4**	11,3	163	130	KR173



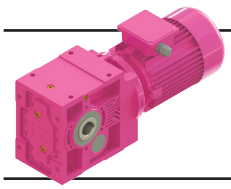
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

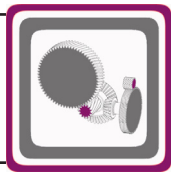
K Serien Getriebemotoren Leistung und Drehzahlübersicht



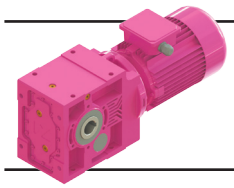
Güç *Power* Leistung **P_g [kW]** P_g [HP]	Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	Çevrim Oranı *Ratio* Übersetzung **i**	Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	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	Fiyat Kodu *Price Ref.* Preis No.
5.5 7.5	27 31 36 46 56 59 60 70 80 91 102 118 135 154 187	1805 1576 1382 1070 895 846 825 715 624 548 489 424 370 324 268	**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**	14043 16466 18136 20362 21410 21514 21421 20847 20281 19726 18654 18116 17593 17085 16347	0.9 1.0 1.1 1.4 1.7 1.8 1.9 2.1 2.3 2.5 2.1 2.3 2.5 2.8 3.2	**KR473-132S/4**	11,3	121	118	KR174
	49 57 64 75 88 97 113 132 140 164 181 211 247	1019 874 780 664 570 516 442 379 356 306 277 237 204	**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**	9205 11379 12560 13755 14577 15039 15586 15679 15125 14683 14389 13927 13456	0.8 0.9 1.1 1.2 1.4 1.6 1.9 2.1 1.8 2.1 2.2 2.5 2.8	**KR373-132S/4**	11,3	86	106	KR175
7.5 10	4.9 6.0 6.7 7.6 8.7 9.9	13525 11106 9825 8746 7648 6757	**287.10** **235.47** **207.95** **184.83** **161.34** **142.32**	85808 95759 100298 103797 107224 109621	1.1 1.4 1.5 1.7 2.0 2.2	**KR874-132M/4**	15,3	681	170	KR177
	7.8 8.7 9.7 11 13 14	8675 7738 6963 6078 5313 4693	**115.87** **103.24** **92.80** **81.06** **70.76** **62.42**	104040 106688 109012 111369 113407 114803	1.7 1.9 2.2 2.5 2.8 3.2	**KR873-160M/6**	15,2	725	166	KR178
	8.0 9.1 10 12	8342 7407 6633 5732	**111.63** **99.00** **88.57** **76.59**	52779 58094 61977 66002	1.0 1.1 1.2 1.4	**KR773-160M/6**	15,2	460	154	KR179
	13 14 16 18 21 24 27	5383 4780 4281 3699 3208 2810 2480	**111.63** **99.00** **88.57** **76.59** **66.32** **58.00** **51.13**	67469 69839 71539 73414 74953 76073 76937	1.5 1.7 1.9 2.2 2.5 2.8 3.2	**KR773-132M/4**	15,3	400	154	KR180
	14 16	4854 4344	**100.90** **90.21**	22556 28184	0.9 1.0	**KR673-132M/4**	15,3	249	142	KR181



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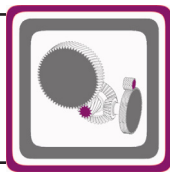
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
7.5 10	17 20 24 27 31 43 50	3876 3299 2841 2469 2161 1589 1368	**80.38** **68.47** **58.86** **51.08** **44.65** **32.68** **28.10**	32322 36485 39388 41402 42928 45421 46361	1.1 1.3 1.5 1.7 2.0 2.7 3.1	**KR673-132M/4**	15,3	249	142	KR181
	21 24 26 31 37 40 46 54 62 69 75 88 104 121	3236 2861 2546 2157 1842 1704 1461 1253 1108 986 915 775 661 566	**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**	16282 21103 24270 28085 30935 32073 33479 32609 31889 31179 30724 29664 28636 27636	0.8 0.9 1.1 1.2 1.4 1.4 1.6 1.8 2.0 2.1 2.2 2.5 2.8 3.0	**KR573-132M/4**	15,3	180	130	KR182
	36 46 56 59 60 70 80 91 102 118 135 154 187 225	1885 1459 1221 1154 1126 976 852 747 667 578 504 443 366 304	**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**	13067 17453 19321 19794 19989 19703 19284 18852 17655 17251 16840 16425 15802 15179	0.8 1.1 1.3 1.3 1.4 1.5 1.7 1.8 1.5 1.7 1.9 2.0 2.4 2.7	**KR473-132M/4**	15,3	138	118	KR183
	236 271 309	290 253 222	**11.87** **10.34** **9.06**	17251 16840 16425	2.7 3.0 3.3	**KR473-132S/2b**	14,6	121	118	KR184
	64 75 88 97 113 132 140 164 181 211 247	1064 906 777 704 603 518 486 417 378 324 278	**21.90** **18.62** **15.96** **14.44** **12.38** **10.60** **9.97** **8.54** **7.73** **6.63** **5.68**	8360 10966 12574 13340 14293 14854 14220 13909 13689 13328 12943	0.8 0.9 1.1 1.2 1.4 1.6 1.3 1.5 1.6 1.8 2.1	**KR373-132M/4**	15,3	105	106	KR185
	264 281 328 362 423	259 244 209 189 162	**10.60** **9.97** **8.54** **7.73** **6.63**	14854 14220 13909 13689 13328	2.5 2.2 2.4 2.6 3.0	**KR373-132S/2b**	14,6	98	106	KR186



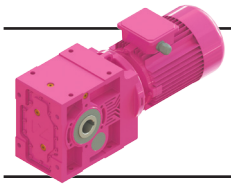
K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

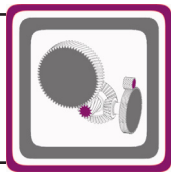
K Serien Getriebemotoren Leistung und Drehzahlübersicht



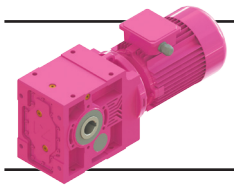
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
11 15	7.6 8.7 9.8	12828 11217 9910	**184.83** **161.34** **142.32**	88871 95464 100048	1.2 1.3 1.5	**KR874-160M/4**	21,5	746	170	KR187
	7.8 8.7 9.7 11	12730 11356 10218 8919	**115.87** **103.24** **92.80** **81.06**	89385 94825 98922 103233	1.2 1.3 1.5 1.7	**KR873-160L/6**	22	746	166	KR188
	12 14 15 17 20 22	8213 7327 6593 5756 5032 4445	**115.87** **103.24** **92.80** **81.06** **70.76** **62.42**	105498 108095 110090 112392 114064 115398	1.8 2.0 2.3 2.6 3.0 3.4	**KR873-160M/4**	21,5	725	166	KR189
	10 12	9735 8412	**88.57** **76.59**	42764 52182	0.8 1.0	**KR773-160L/6**	22	430	154	KR190
	13 14 16 18 21 24 27 31 35 36 41	7897 7012 6280 5427 4707 4123 3639 3232 2885 2780 2411	**111.63** **99.00** **88.57** **76.59** **66.32** **58.00** **51.13** **45.36** **40.44** **39.00** **33.78**	55500 60322 63717 67275 69977 72021 73568 73881 72236 71706 69585	1.0 1.1 1.3 1.5 1.7 1.9 2.2 2.5 2.8 2.9 3.3	**KR773-160M/4**	21,5	460	154	KR191
	20 24 27 31 36 43 50 57 66 75	4840 4168 3622 3171 2791 2331 2008 1745 1528 1345	**68.47** **58.86** **51.08** **44.65** **39.26** **32.68** **28.10** **24.38** **21.32** **18.74**	22665 29790 34245 37332 39583 42035 43626 42628 41620 40611	0.9 1.0 1.2 1.4 1.5 1.8 2.1 2.5 2.8 3.2	**KR673-160M/4**	21,5	306	142	KR192
	31 37 40 46 54 62 69 75 88 104 121 125 148 173 203	3164 2703 2500 2143 1839 1626 1447 1342 1136 969 831 802 679 579 497	**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**	18368 24612 26928 30251 29858 29459 29020 28718 27970 27193 26400 25849 25015 24193 23384	0.8 0.9 1.0 1.1 1.3 1.4 1.5 1.5 1.7 1.9 2.0 1.8 2.0 2.2 2.5	**KR573-160M/4**	21,5	241	130	KR193



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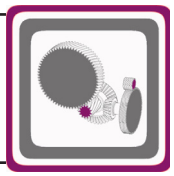
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
11 15	60 70 80 91 102 118 135 155 187 225	1651 1432 1250 1096 978 848 740 649 537 447	**23.19** **20.07** **17.49** **15.33** **13.71** **11.87** **10.34** **9.06** **7.48** **6.21**	15670 17700 17539 17323 15907 15738 15521 15270 14848 14387	0.9 1.0 1.1 1.2 1.0 1.1 1.3 1.4 1.6 1.9	**KR473-160M/4**	21,5	198	118	KR194
15 20	8.7 9.7 11	15487 13936 12165	**103.24** **92.80** **81.06**	76049 83893 91406	1.0 1.1 1.2	**KR873-180L/6**	29	769	166	KR195
	12 14 15 17 20 22 25 28	11201 9993 8993 7850 6864 6063 5401 4844	**115.87** **103.24** **92.80** **81.06** **70.76** **62.42** **55.53** **49.75**	95567 99993 103117 106695 109386 111466 113164 114473	1.3 1.5 1.7 1.9 2.2 2.5 2.8 3.1	**KR873-160L/4**	29	746	166	KR196
	14 16 18 21 24 27 31 35 36 41 48 53 60	9564 8566 7402 6420 5623 4963 4409 3935 3792 3289 2866 2590 2301	**99.00** **88.57** **76.59** **66.32** **58.00** **51.13** **45.36** **40.44** **39.00** **33.78** **29.40** **26.52** **23.52**	44581 51538 58258 62973 66466 69022 69715 68522 68124 66482 64802 63510 61978	0.8 0.9 1.1 1.2 1.4 1.6 1.8 2.0 2.1 2.4 2.8 3.1 3.5	**KR773-160L/4**	29	481	154	KR197
	27 31 36 43 50 57 66 75 85 97 112 130 148 169	4940 4324 3806 3179 2738 2380 2084 1834 1622 1414 1218 1059 927 816	**51.08** **44.65** **39.26** **32.68** **28.10** **24.38** **21.32** **18.74** **16.54** **14.49** **12.46** **10.81** **9.45** **8.31**	21269 28276 32748 37199 39935 39775 39126 38419 37671 36425 35458 34507 33577 32670	0.9 1.0 1.1 1.4 1.6 1.8 2.1 2.3 2.7 2.1 2.3 2.6 2.8 3.1	**KR673-160L/4**	29	343	142	KR198
	54 62 69 74 88 104 121 125	2508 2218 1974 1831 1550 1322 1134 1094	**25.78** **22.77** **20.24** **18.80** **15.88** **13.53** **11.58** **11.22**	26714 26683 26552 26426 26033 25544 24988 24339	0.9 1.0 1.1 1.1 1.2 1.4 1.5 1.3	**KR573-160L/4**	29	261	130	KR199



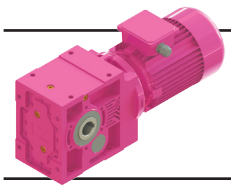
K Serisi Motorlu Güç Devir Sayfaları

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K Serien Getriebemotoren Leistung und Drehzahlübersicht



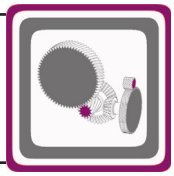
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
15 20	148 173 203	926 790 678	**9.48** **8.07** **6.91**	23739 23107 22454	1.5 1.6 1.8	**KR573-160L/4**	29	261	130	KR199
	80 91 102 118 135 154 187 225	1704 1495 1334 1157 1010 886 733 610	**17.49** **15.33** **13.71** **11.87** **10.34** **9.06** **7.48** **6.21**	15545 15576 13909 14009 14014 13949 13757 13482	0.8 0.9 0.8 0.8 0.9 1.0 1.2 1.4	**KR473-160L/4**	29	220	118	KR200
18.5 25	12 14	13317 11571	**113.42** **98.53**	86740 94026	1.1 1.3	**KR874-180M/4**	36	794	170	KR201
	11 13	15001 13115	**81.06** **70.76**	78573 87503	1.0 1.1	**KR873-200L/6a**	36	787	166	KR202
	14 15 17 20 22 25 28 32 37	12325 11092 9683 8466 7479 6662 5975 5192 4571	**103.24** **92.80** **81.06** **70.76** **62.42** **55.53** **49.75** **43.22** **38.00**	91172 95940 100974 104770 107639 109915 111691 114214 113404	1.2 1.4 1.5 1.8 2.0 2.3 2.5 2.8 3.1	**KR873-180M/4**	36	777	166	KR203
	18 21 24 27 31 35 36 41 48 53 60 67 69	9130 7919 6936 6122 5438 4854 4677 4057 3535 3195 2838 2534 2441	**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**	47707 55288 60593 64329 66070 65271 64990 63767 62439 61379 60087 58800 58383	0.9 1.0 1.2 1.3 1.5 1.6 1.7 2.0 2.3 2.5 2.8 3.2 3.2	**KR773-180M/4**	36	510	154	KR204
	31 36 43 50 57 66 75 85 97 112 130 148 169	5334 4695 3922 3377 2936 2570 2263 2000 1744 1502 1306 1143 1007	**44.65** **39.26** **32.68** **28.10** **24.38** **21.32** **18.74** **16.54** **14.49** **12.46** **10.81** **9.45** **8.31**	14592 24378 31859 35929 37279 36944 36500 35977 34850 34104 33332 32550 31766	0.8 0.9 1.1 1.3 1.5 1.7 1.9 2.1 1.7 1.9 2.1 2.3 2.5	**KR673-180M/4**	36	372	142	KR205
	62	2736	**22.77**	24253	0.8	**KR573-180M/4**	36	294	130	KR206



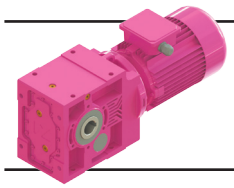
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K Serien Getriebemotoren Leistung und Drehzahlübersicht



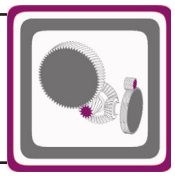
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
18.5 25	69 75 88 104 121 125 148 173 203	2435 2258 1912 1631 1399 1350 1143 975 836	**20.24** **18.80** **15.88** **13.53** **11.58** **11.22** **9.48** **8.07** **6.91**	24392 24420 24338 24101 23753 23019 22623 22156 21641	0.9 0.9 1.0 1.1 1.2 1.1 1.2 1.3 1.5	**KR573-180M/4**	36	294	130	KR206
	155 187 225	1093 904 752	**9.06** **7.48** **6.21**	12794 12803 12690	0.8 1.0 1.1	**KR473-180M/4**	36	252	118	KR207
22 30	11 13	17843 15599	**81.06** **70.76**	61164 75326	0.8 1.0	**KR873-200L/6b**	43	807	166	KR208
	14 15 17 20 22 25 28 32 37 41	14658 13191 11515 10068 8894 7923 7106 6175 5436 4911	**103.24** **92.80** **81.06** **70.76** **62.42** **55.53** **49.75** **43.22** **38.00** **34.28**	80674 87445 94430 99593 103409 106246 108679 111799 111045 108671	1.0 1.1 1.3 1.5 1.7 1.9 2.1 2.4 2.6 2.8	**KR873-180L/4**	36	817	166	KR209
	21 24 27 31 35 36 41 48 53 60 67 69 80 92	9417 8248 7281 6467 5773 5562 4825 4205 3800 3375 3013 2903 2519 2195	**66.32** **58.00** **51.13** **45.36** **40.44** **39.00** **33.78** **29.40** **26.52** **23.52** **20.97** **20.23** **17.52** **15.25**	45602 53423 58806 62424 62021 61856 61052 60077 59249 58197 57114 56758 55300 53829	0.8 1.0 1.1 1.2 1.4 1.4 1.7 1.9 2.1 2.4 2.7 2.7 3.0 3.3	**KR773-180L/4**	36	551	154	KR210
	43 50 57 66 75 85 97 112 130 148 169	4664 4017 3492 3057 2691 2379 2074 1787 1553 1360 1197	**32.68** **28.10** **24.38** **21.32** **18.74** **16.54** **14.49** **12.46** **10.81** **9.45** **8.31**	24657 31053 34783 34761 34582 34283 33275 32749 32156 31523 30863	0.9 1.1 1.2 1.4 1.6 1.8 1.4 1.6 1.7 1.9 2.1	**KR673-180L/4**	36	412	142	KR211
	88 104 121 125 148	2274 1940 1663 1605 1359	**15.88** **13.53** **11.58** **11.22** **9.48**	22643 22658 22518 21698 21506	0.8 0.9 1.0 0.9 1.0	**KR573-180L/4**	36	334	130	KR212



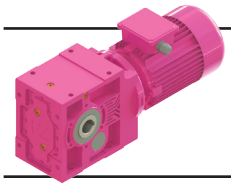
K Serisi Motorlu Güç Devir Sayfaları

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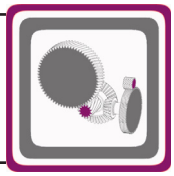
K Serien Getriebemotoren Leistung und Drehzahlübersicht



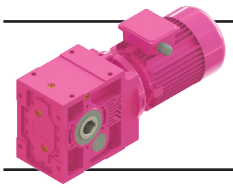
Güç *Power* Leistung P_g [kW] P_g [HP]	Çıkış Devri *Output Speeds* Abtriebswelle Drehzahlen n_2 [r.p.m]	Çıkış Momenti *Output Torque* Abtriebswelle Drehmomente M_2 [Nm]	Çevrim Oranı *Ratio* Übersetzung i	Güv. Rad. Yük Çıkış *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) F_{qam} [N]	Servis Faktörü *Service Factors* Betriebsfaktor f_s	Tipi *Type* Typ	Anma Akımı *Rated Current* Nennstrom [A]	Ağırlık *Weight* Gewicht ~ [kg]	Ölçü Sayfası *Dim. Page* Maße Seite	Fiyat Kodu *Price Ref.* Preis No.
22 30	173 203	1160 994	**8.07** **6.91**	21206 20827	1.1 1.2	**KR573-180L/4**	36	334	130	KR212
	187 225	1075 894	**7.48** **6.21**	11849 11898	0.8 0.9	**KR473-180L/4**	36	292	118	KR213
30 40	17 20 22 25 28 32 37 41 47 58	15704 13730 12130 10805 9690 8421 7414 6698 5844 4755	**81.06** **70.76** **62.42** **55.53** **49.75** **43.22** **38.00** **34.28** **29.88** **24.28**	75080 85077 91916 96855 100818 105597 105651 103805 101215 97124	1.0 1.1 1.2 1.4 1.5 1.8 1.9 2.1 2.3 3.0	**KR873-200L/4**	54	837	166	KR214
	27 31 35 36 41 48 53 60 67 69 80 92 109 122 137 142 164 189	9929 8820 7873 7585 6580 5734 5182 4603 4110 3960 3435 2994 2525 2243 2003 1929 1674 1459	**51.13** **45.36** **40.44** **39.00** **33.78** **29.40** **26.52** **23.52** **20.97** **20.23** **17.52** **15.25** **12.89** **11.44** **10.20** **9.83** **8.52** **7.41**	41528 49772 54591 54691 54846 54676 54378 53876 53261 53043 52082 51029 48032 47150 46248 45952 44746 43534	0.8 0.9 1.0 1.1 1.2 1.4 1.5 1.7 1.9 2.0 2.2 2.4 1.8 2.0 2.1 2.2 2.4 2.7	**KR773-200L/4**	54	570	154	KR215
	57 66 75 85 97 112 130 148 169	4762 4169 3670 3244 2829 2437 2118 1855 1633	**24.38** **21.32** **18.74** **16.54** **14.49** **12.46** **10.81** **9.45** **8.31**	23534 29773 30196 30412 29673 29654 29470 29174 28799	0.9 1.0 1.2 1.3 1.0 1.1 1.3 1.4 1.5	**KR673-200L/4**	54	429	142	KR216
37 50	25 28 32 37 41 47 58 66 73 83 101 114 127	13327 11952 10386 9145 8261 7209 5865 5164 4665 4071 3372 2969 2682	**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**	86648 92596 99278 100930 99545 97504 94109 91866 90019 87493 82770 80495 78665	1.1 1.3 1.4 1.6 1.7 1.8 2.4 2.6 2.8 3.1 2.6 2.8 3.0	**KR873-225S/4**	66	885	166	KR217



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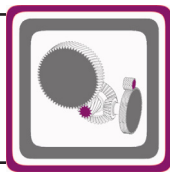
Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
37 50	35 36 41 48 53 60 67 69 80 92 109 122 137 142 164 189	9710 9356 8116 7073 6392 5678 5069 4884 4237 3693 3115 2767 2470 2380 2065 1799	**40.44** **39.00** **33.78** **29.40** **26.52** **23.52** **20.97** **20.23** **17.52** **15.25** **12.89** **11.44** **10.20** **9.83** **8.52** **7.41**	43215 45952 49416 49950 50115 50094 49890 49792 49266 48578 45587 44981 44314 44087 43131 42129	0.8 0.9 1.0 1.1 1.3 1.4 1.6 1.6 1.8 2.0 1.4 1.6 1.7 1.8 2.0 2.2	**KR773-225S/4**	66	608	154	KR218
	66 75 85 112 130 148 169	5142 4527 4001 3006 2613 2288 2014	**21.32** **18.74** **16.54** **12.46** **10.81** **9.45** **8.31**	18017 26359 27024 26945 27119 27119 26992	0.8 0.9 1.1 0.9 1.0 1.1 1.2	**KR673-225S/4**	66	467	142	KR219
45 60	25 28 32 37 41 47 58 66 73 83 101 114 127 145	16209 14537 12633 11123 10048 8768 7133 6281 5674 4951 4102 3612 3263 2847	**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**	72072 81083 90803 95532 94675 93261 90663 88836 87285 85111 80525 78522 76885 74658	0.9 1.0 1.2 1.3 1.4 1.5 2.0 2.2 2.3 2.5 2.1 2.3 2.5 2.8	**KR873-225M/4**	80	911	166	KR220
	41 48 53 60 67 69 80 92 109 122 137 142 164 189	9872 8603 7775 6906 6165 5940 5154 4491 3788 3365 3005 2895 2511 2189	**33.78** **29.40** **26.52** **23.52** **20.97** **20.23** **17.52** **15.25** **12.89** **11.44** **10.20** **9.83** **8.52** **7.41**	41799 44549 45244 45773 46037 46076 46048 45777 42793 42502 42104 41956 41285 40522	0.8 0.9 1.0 1.2 1.3 1.3 1.5 1.6 1.2 1.3 1.4 1.5 1.6 1.8	**KR773-225M/4**	80	637	154	KR221
	85 97 112 130 148 169	4867 4244 3656 3178 2783 2450	**16.54** **14.49** **12.46** **10.81** **9.45** **8.31**	22060 22921 23849 24432 24770 24927	0.9 0.7 0.8 0.8 0.9 1.0	**KR673-225M/4**	80	496	142	KR222



K Serisi Motorlu Güç Devir Sayfaları

K Series Geared Motors Performance Tables

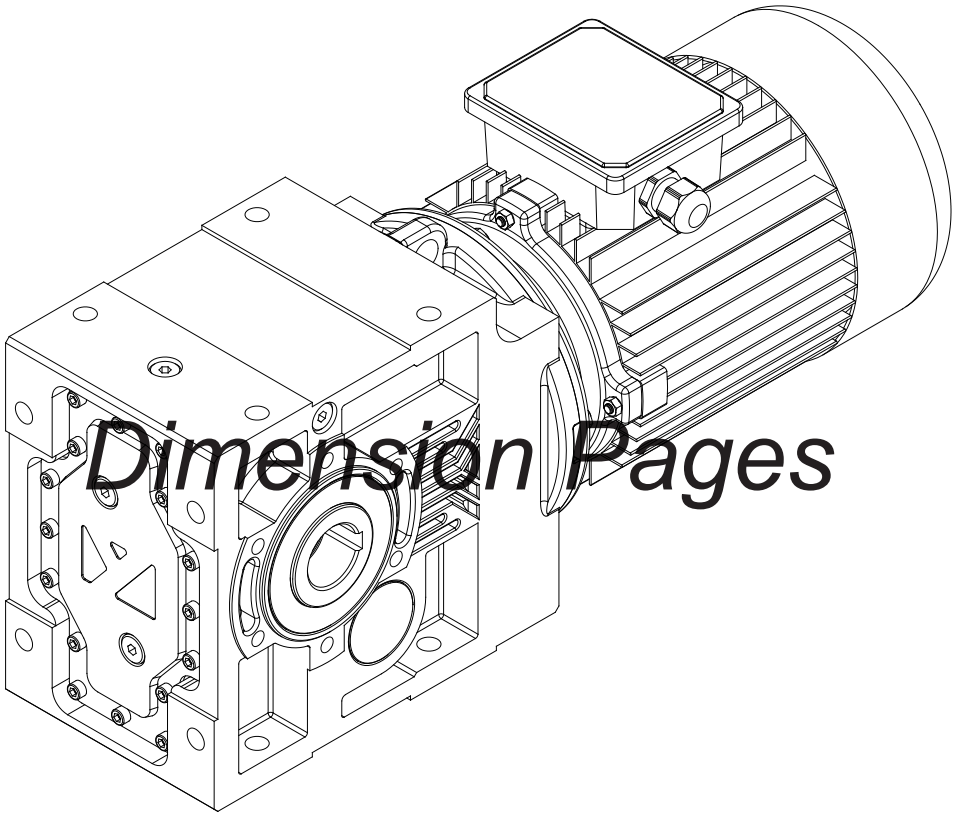
K Serien Getriebemotoren Leistung und Drehzahlübersicht



Güç *Power* Leistung **P_g [kW]** P_g [HP]	**Çıkış Devri** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [r.p.m]**	**Çıkış Momenti** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Çevrim Oranı** *Ratio* Übersetzung **i**	**Güv. Rad. Yük Çıkış** *Per.O. Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**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	**Fiyat Kodu** *Price Ref.* Preis No.
55 75	25	19812	**55.53**	44582	0.8	**KR873-250M/4**	97	1023	166	KR223
	28	17768	**49.75**	62040	0.8					
	32	15440	**43.22**	77807	1.0					
	37	13595	**38.00**	88781	1.0					
	41	12281	**34.28**	88585	1.1					
	47	10717	**29.88**	87954	1.2					
	58	8719	**24.28**	86353	1.6					
	66	7677	**21.34**	85047	1.8					
	73	6935	**19.26**	83867	1.9					
	83	6052	**16.78**	82133	2.1					
	101	5013	**13.93**	77718	1.7					
	114	4414	**12.25**	76054	1.9					
	127	3988	**11.05**	74658	2.0					
	145	3480	**9.63**	72718	2.3					
	53	9502	**26.52**	39154	0.8	**KR773-250M/4**	97	748	154	KR224
	60	8441	**23.52**	40371	0.9					
	67	7536	**20.97**	41220	1.1					
	69	7261	**20.23**	41431	1.1					
	80	6299	**17.52**	42025	1.2					
	92	5490	**15.25**	42276	1.3					
	109	4631	**12.89**	39300	1.0					
	122	4114	**11.44**	39403	1.1					
	137	3672	**10.20**	39341	1.2					
	142	3538	**9.83**	39292	1.2					
	164	3070	**8.52**	38977	1.3					
	189	2675	**7.41**	38514	1.5					
75 97	37	18539	**38.00**	61980	0.8	**KR873-280S/4**	133	1173	166	KR225
	41	16748	**34.28**	76393	0.8					
	47	14615	**29.88**	77334	0.9					
	58	11890	**24.28**	77727	1.2					
	66	10470	**21.34**	77465	1.3					
	73	9458	**19.26**	77027	1.4					
	83	8253	**16.78**	76173	1.5					
	101	6837	**13.93**	72100	1.3					
	114	6020	**12.25**	71116	1.4					
	127	5439	**11.05**	70203	1.5					
	145	4746	**9.63**	68837	1.7					
90 117	47	17538	**29.88**	69361	0.8	**KR873-280M/4**	158	1237	166	KR226
	58	14269	**24.28**	71253	1.0					
	66	12564	**21.34**	71775	1.1					
	73	11350	**19.26**	71894	1.2					
	83	9905	**16.78**	71701	1.3					
	101	8205	**13.93**	67884	1.1					
	114	7225	**12.25**	67410	1.2					
	127	6527	**11.05**	66860	1.2					
	145	5696	**9.63**	65924	1.4					

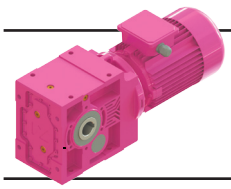
Notlar / *Notes* / Notizen

Ölçü Sayfaları



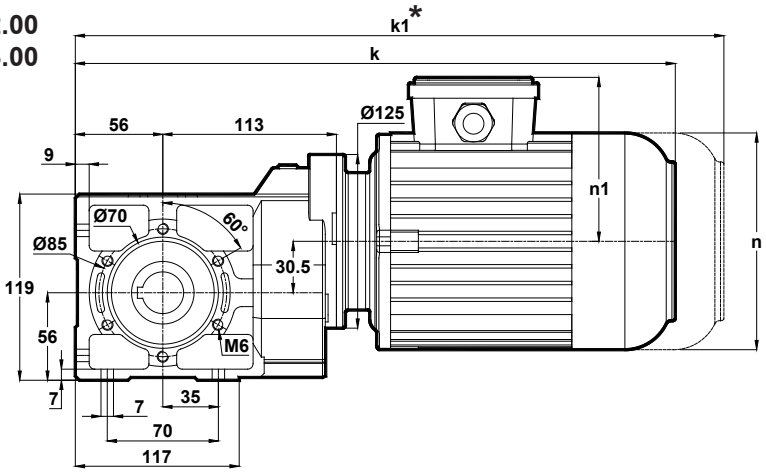
Dimension Pages

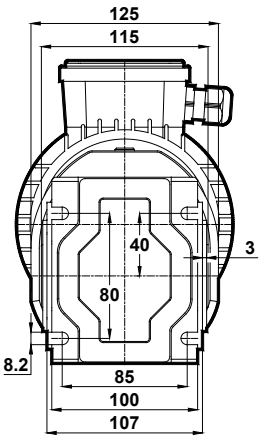
Abmessungsseiten

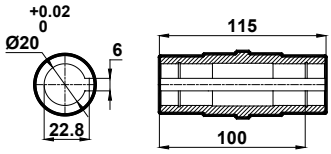


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR002.00
KR003.00

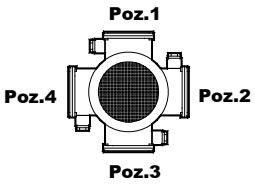






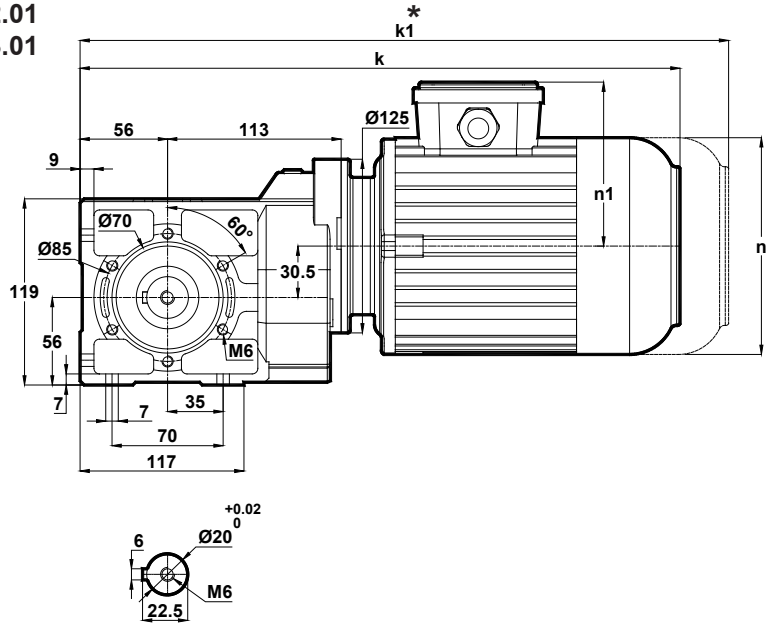
	63	71	80	90S	90L
k	366	385	413	441	466
k1	419	505	533	566	591
n	116	138	156	176	176
n1	97	110	118	126	126

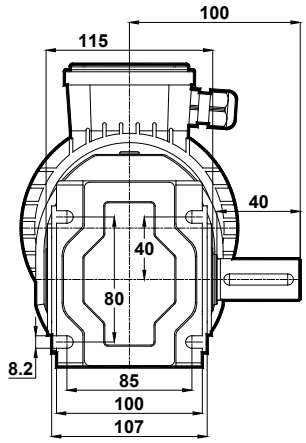
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



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

KR002.01
KR003.01





	63	71	80	90S	90L
k	366	385	413	441	466
k1	419	505	533	566	591
n	116	138	156	176	176
n1	97	110	118	126	126

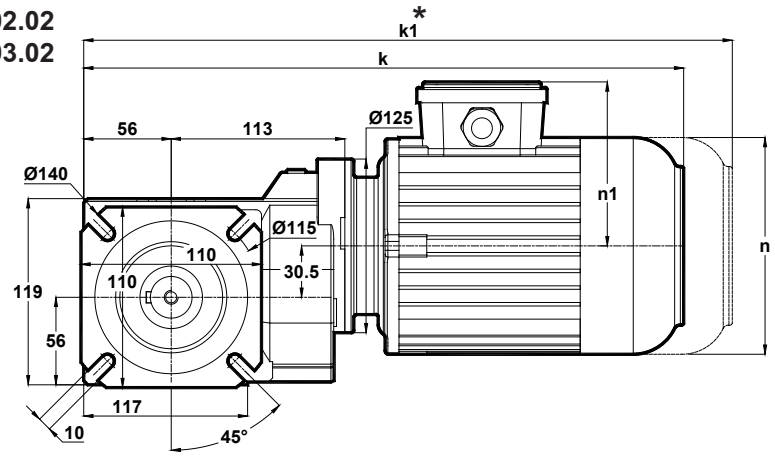
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

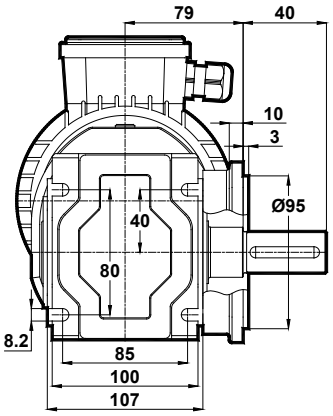


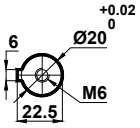
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

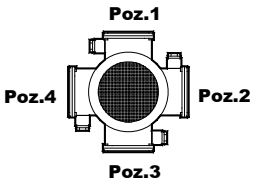
KR002.02
KR003.02







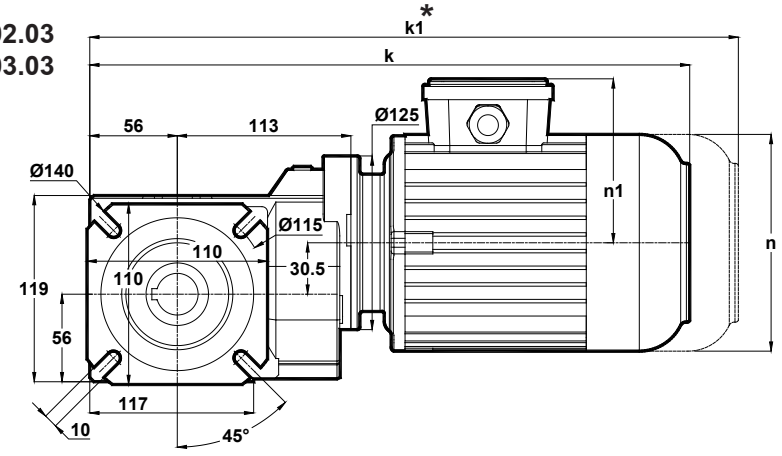
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

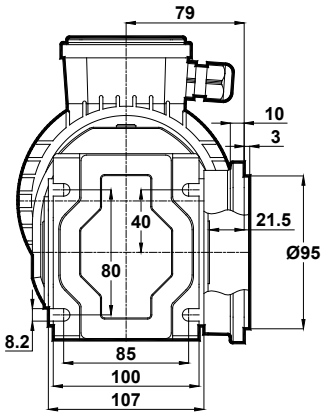


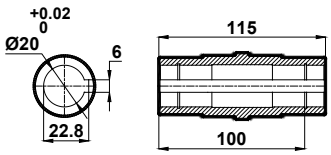
63-71-80-90
Tip / *Type* / Typ

	63	71	80	90S	90L
k	366	385	413	441	466
k1	419	505	533	566	591
n	116	138	156	176	176
n1	97	110	118	126	126

KR002.03
KR003.03





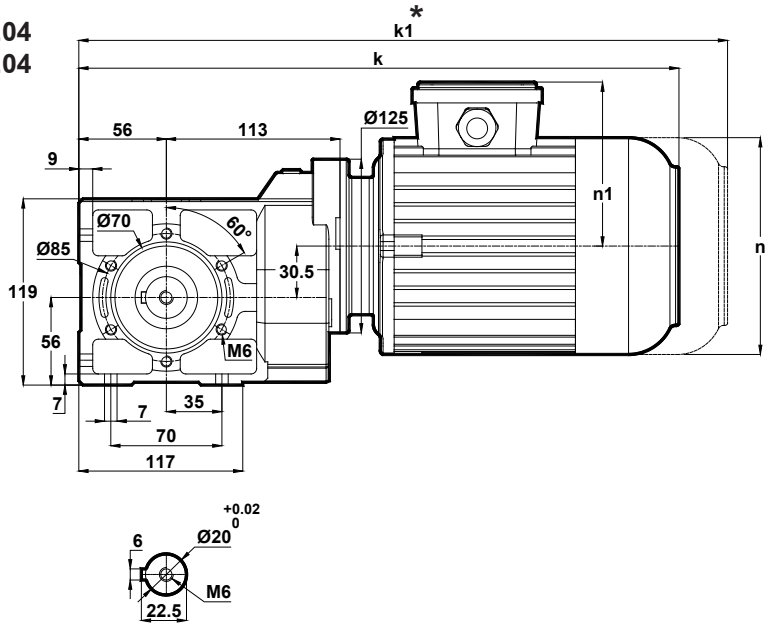


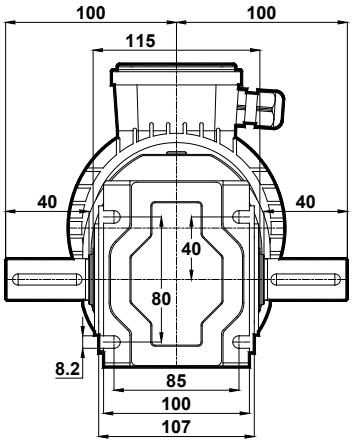
	63	71	80	90S	90L
k	366	385	413	441	466
k1	419	505	533	566	591
n	116	138	156	176	176
n1	97	110	118	126	126

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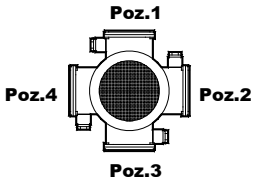
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR002.04
KR003.04





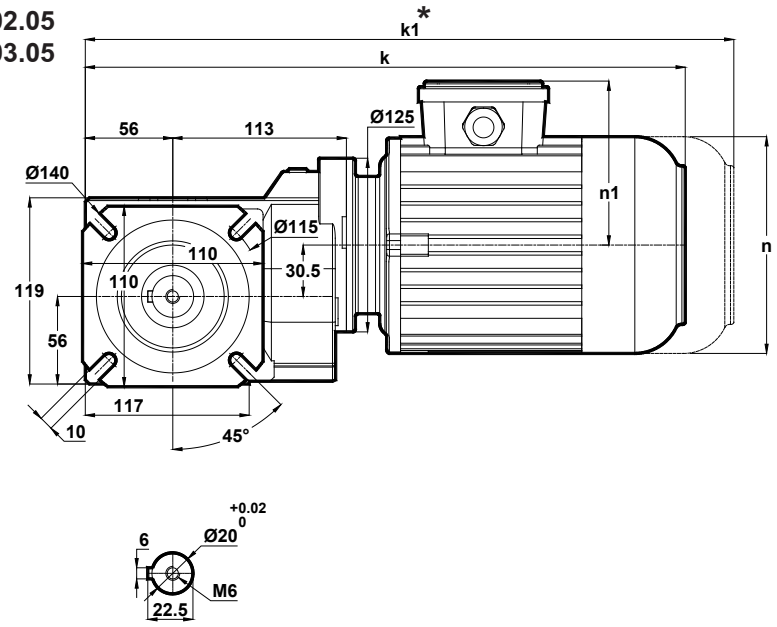
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

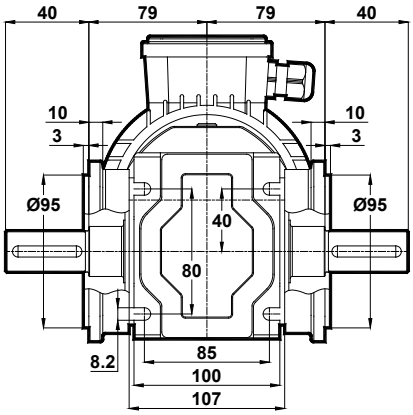


63-71-80-90
Tip / *Type* / Typ

	63	71	80	90S	90L
k	366	385	413	441	466
k1	419	505	533	566	591
n	116	138	156	176	176
n1	97	110	118	126	126

KR002.05
KR003.05





	63	71	80	90S	90L
k	366	385	413	441	466
k1	419	505	533	566	591
n	116	138	156	176	176
n1	97	110	118	126	126

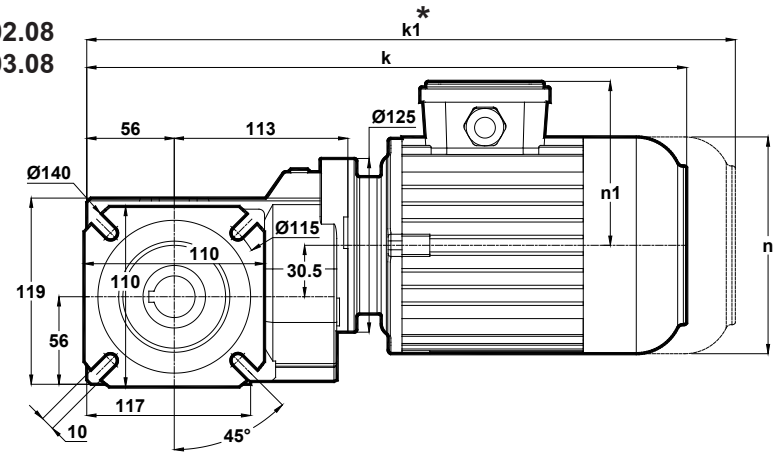
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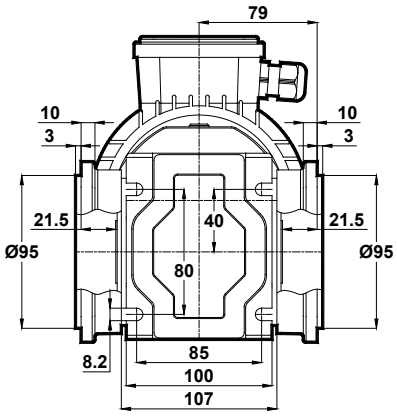


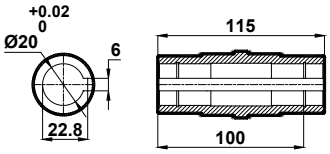
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-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

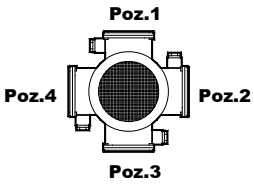






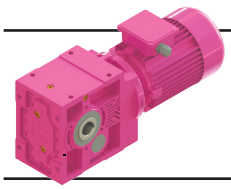
	63	71	80	90S	90L
k	366	385	413	441	466
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n1	97	110	118	126	126

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



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

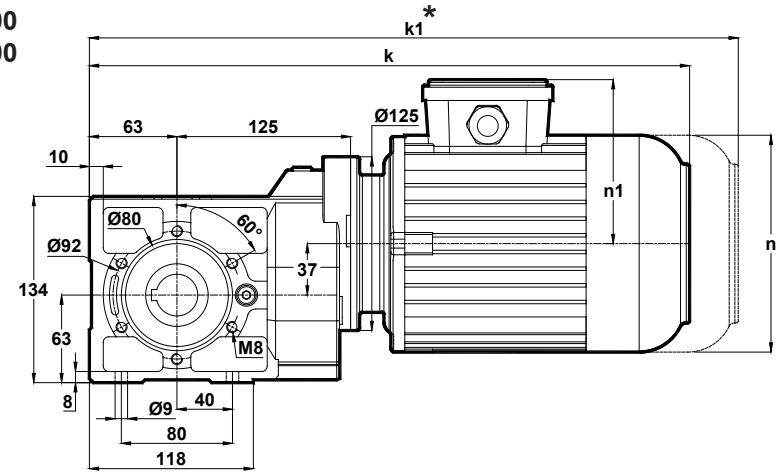
*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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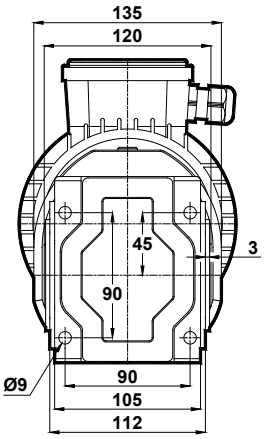


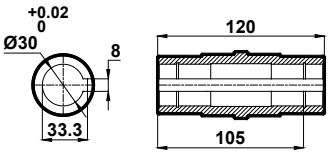
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

KR102.00
KR103.00

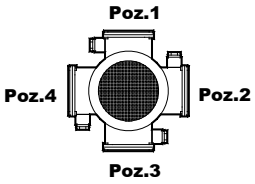






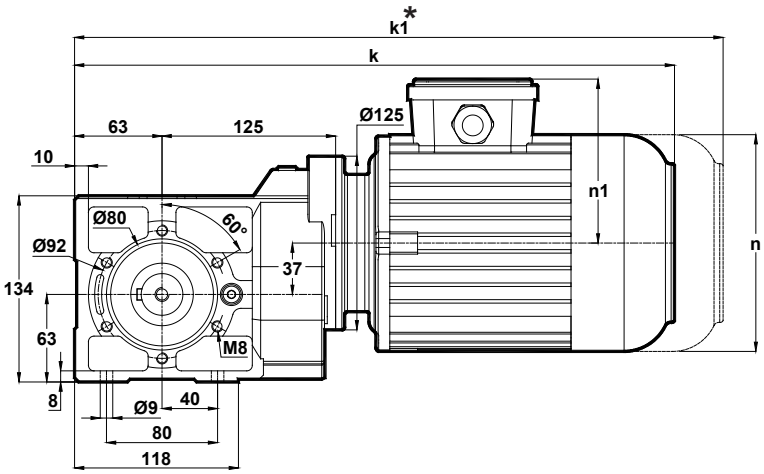
	63	71	80	90S	90L
k	385	404	432	460	485
k1	438	524	552	585	610
n	116	138	156	176	176
n1	97	110	118	126	126

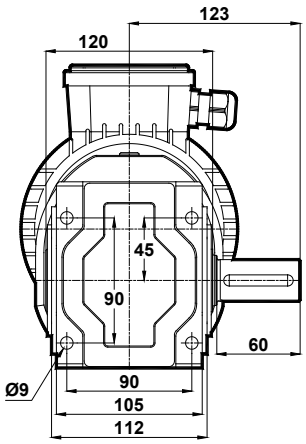
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

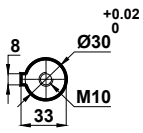


63-71-80-90
Tip / *Type* / Typ

KR102.01
KR103.01

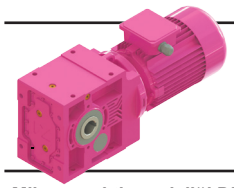






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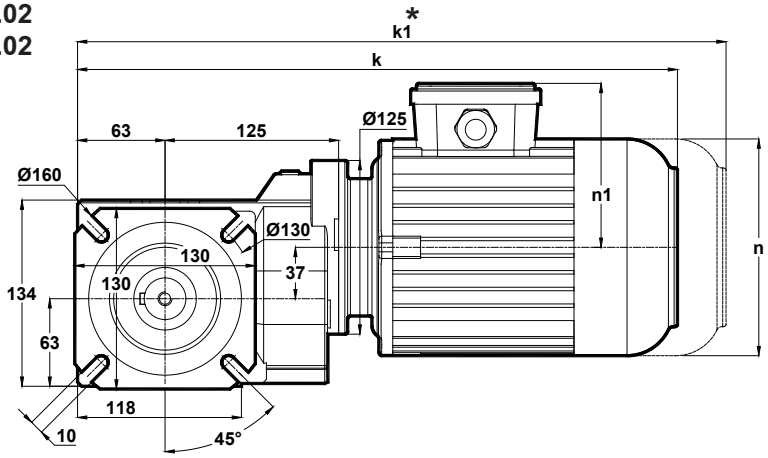
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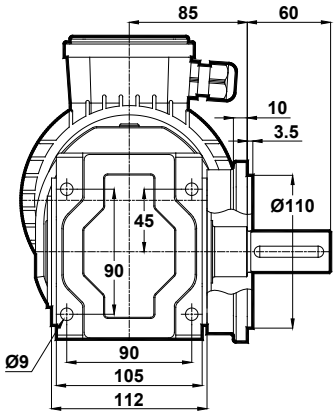


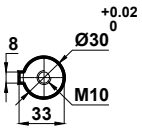
Ölçü Sayfaları
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR102.02
KR103.02

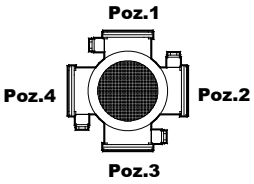






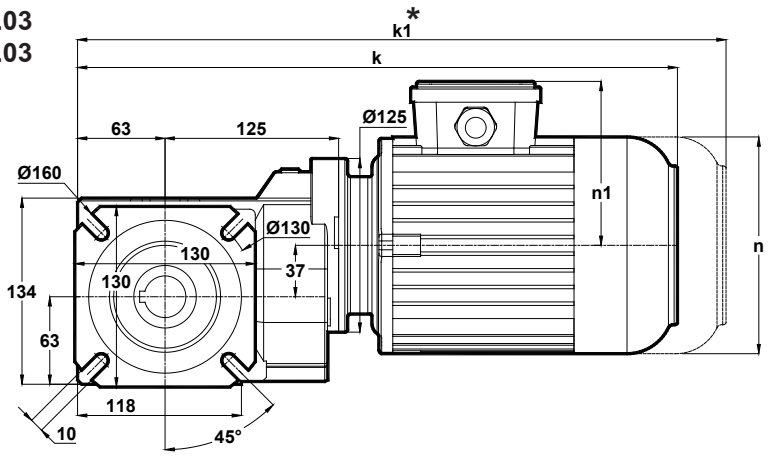
	63	71	80	90S	90L
k	385	404	432	460	485
k1	438	524	552	585	610
n	116	138	156	176	176
n1	97	110	118	126	126

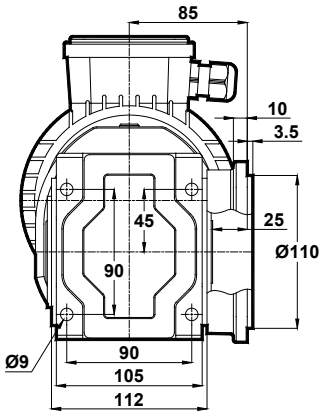
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

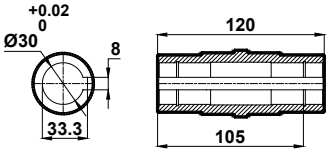


63-71-80-90
Tip / *Type* / Typ

KR102.03
KR103.03

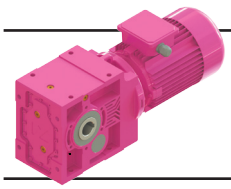






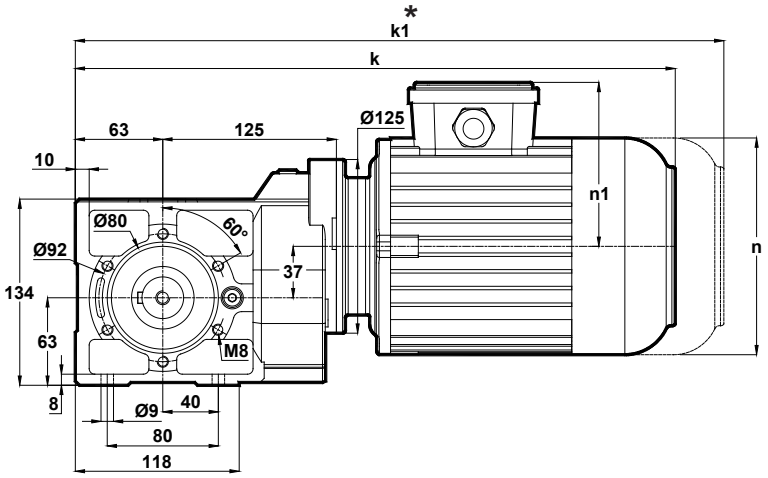
	63	71	80	90S	90L
k	385	404	432	460	485
k1	438	524	552	585	610
n	116	138	156	176	176
n1	97	110	118	126	126

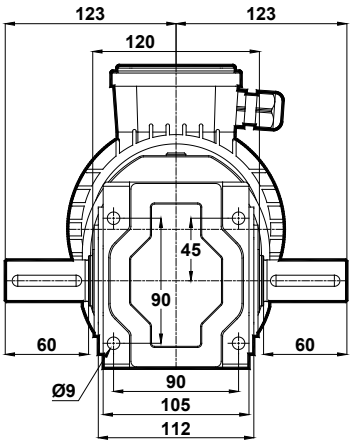
*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
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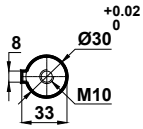


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

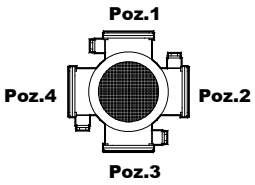
KR102.04
KR103.04







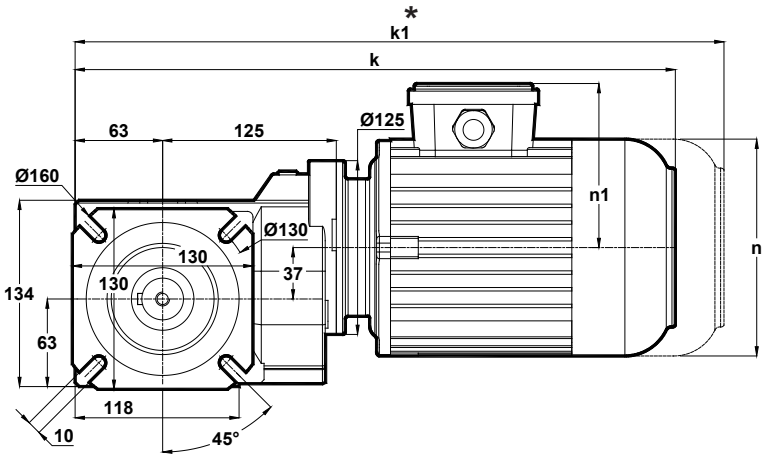
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

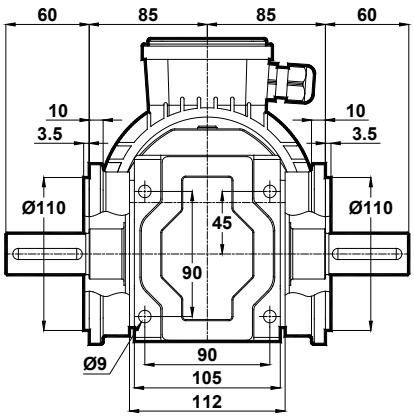


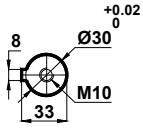
63-71-80-90
Tip / *Type* / Typ

	63	71	80	90S	90L
k	385	404	432	460	485
k1	438	524	552	585	610
n	116	138	156	176	176
n1	97	110	118	126	126

KR102.05
KR103.05

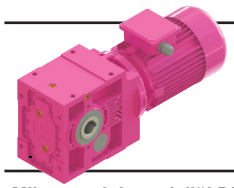






	63	71	80	90S	90L
k	385	404	432	460	485
k1	438	524	552	585	610
n	116	138	156	176	176
n1	97	110	118	126	126

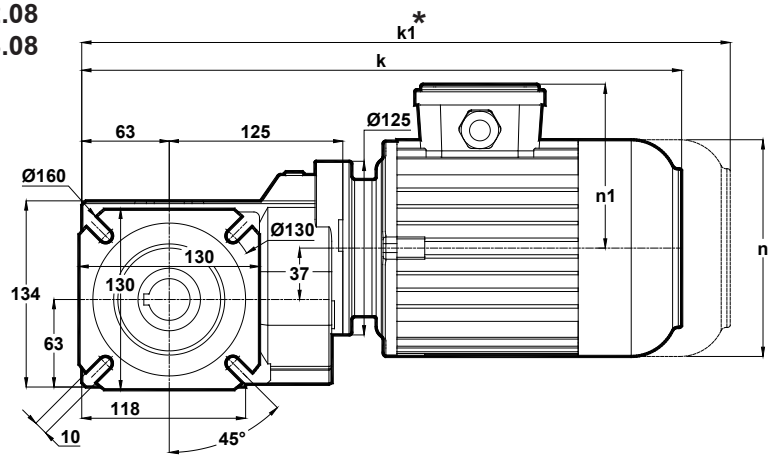
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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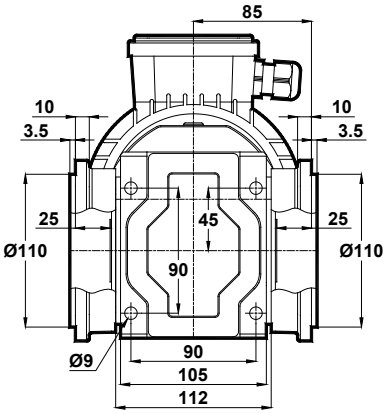


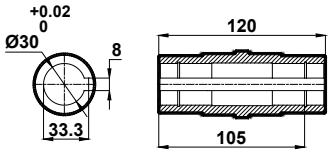
Ölçü Sayfaları
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR102.08
KR103.08

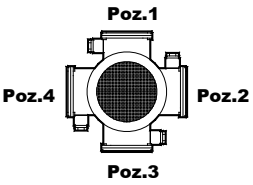






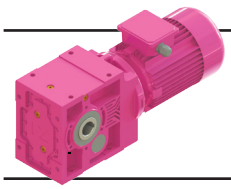
	63	71	80	90S	90L
k	385	404	432	460	485
k1	438	524	552	585	610
n	116	138	156	176	176
n1	97	110	118	126	126

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



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

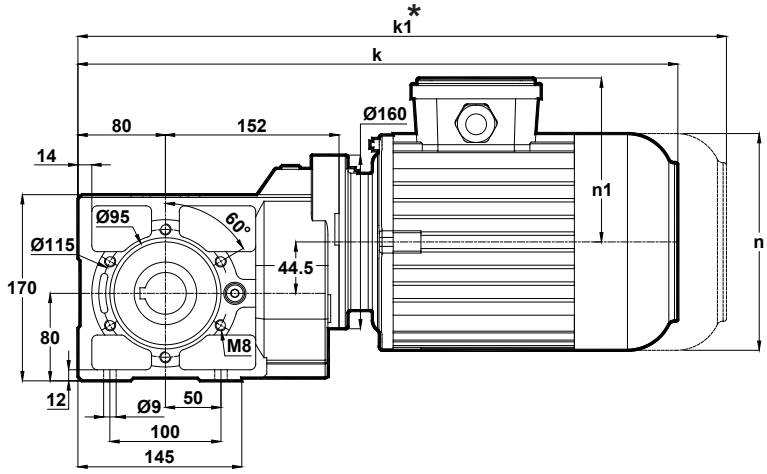
*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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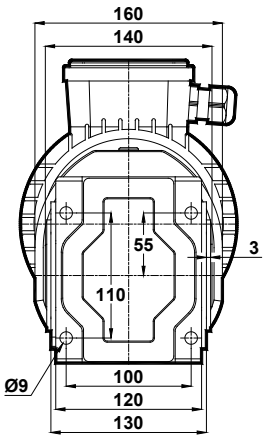


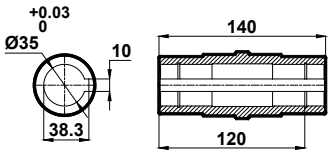
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR202.00
KR203.00

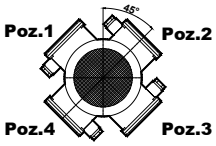




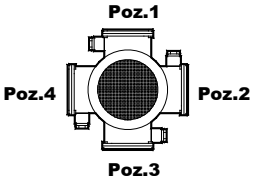


	63	71	80	90S	90L	100L	112M
k	425	444	473	500	525	566	589
k1	478	564	593	625	650	701	724
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

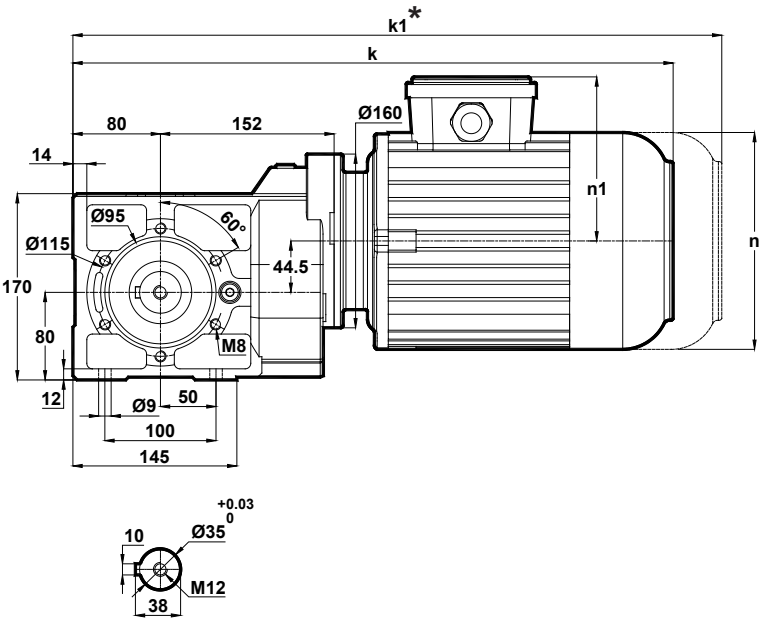


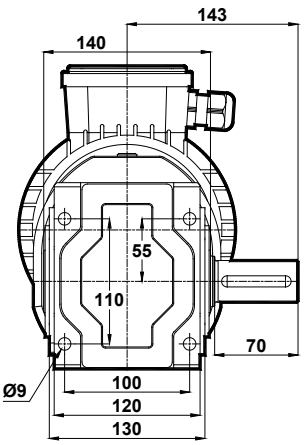
71
Tip / *Type* / Typ



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

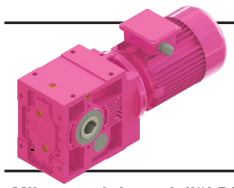
KR202.01
KR203.01





	63	71	80	90S	90L	100L	112M
k	425	444	473	500	525	566	589
k1	478	564	593	625	650	701	724
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146

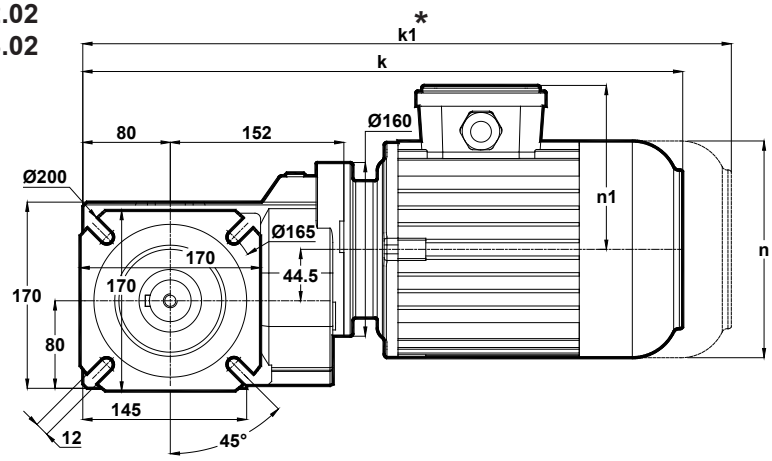
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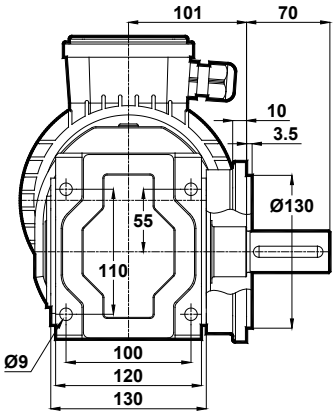


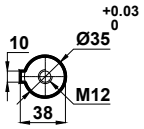
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR202.02
KR203.02

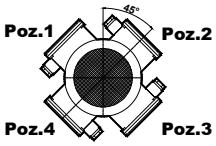




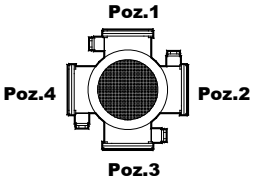


	63	71	80	90S	90L	100L	112M
k	425	444	473	500	525	566	589
k1	478	564	593	625	650	701	724
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

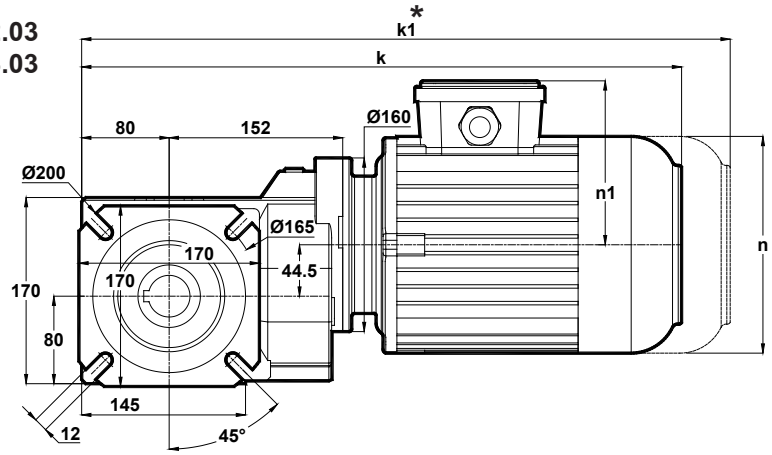


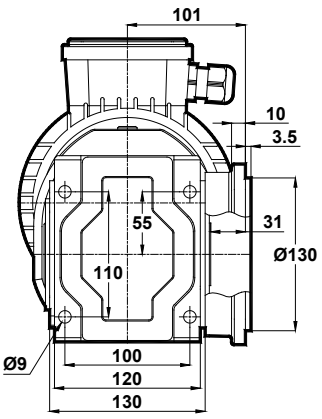
71
Tip / *Type* / Typ

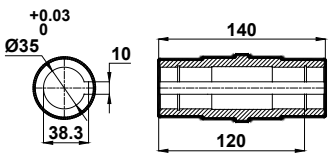


63-80-90-100-112
Tip / *Type* / Typ

KR202.03
KR203.03

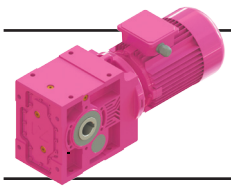






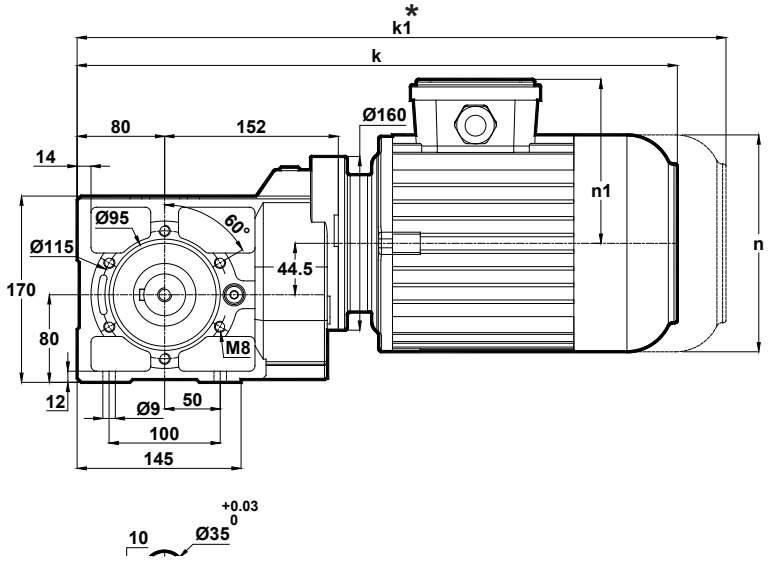
	63	71	80	90S	90L	100L	112M
k	425	444	473	500	525	566	589
k1	478	564	593	625	650	701	724
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146

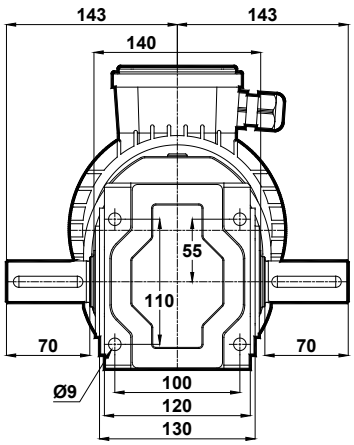
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

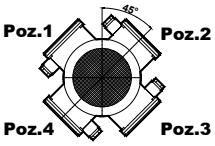
KR202.04
KR203.04



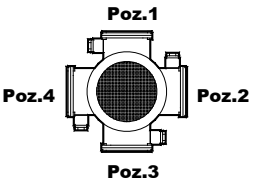


Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

	63	71	80	90S	90L	100L	112M
k	425	444	473	500	525	566	589
k1	478	564	593	625	650	701	724
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146

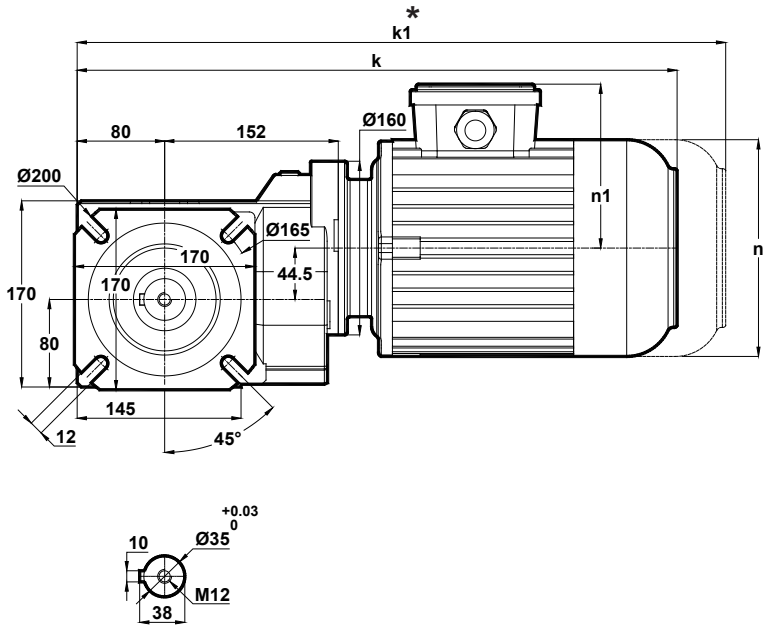


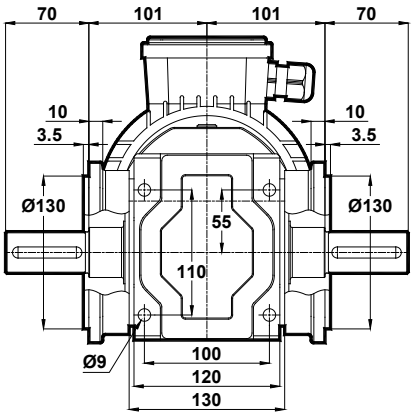
71
Tip / *Type* / Typ



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

KR202.05
KR203.05





	63	71	80	90S	90L	100L	112M
k	425	444	473	500	525	566	589
k1	478	564	593	625	650	701	724
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146

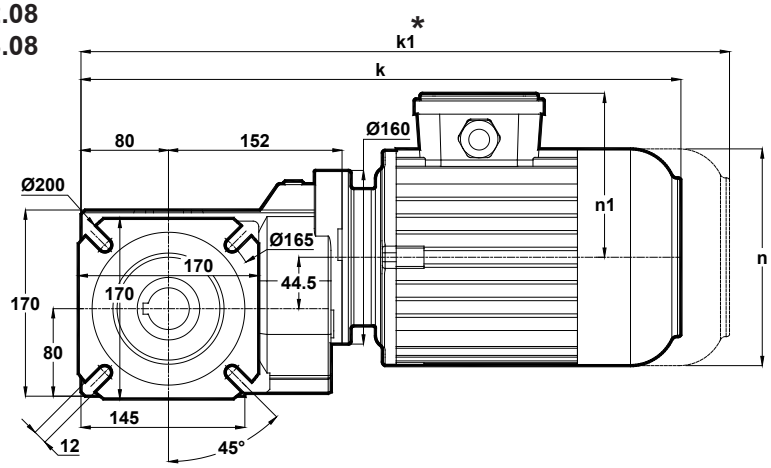
*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

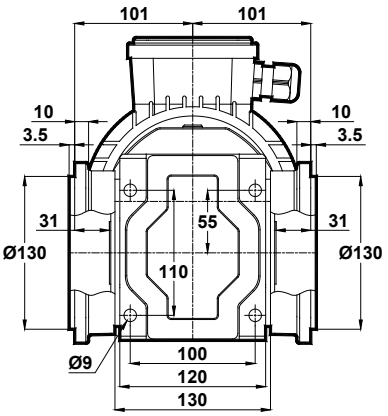


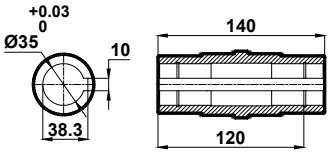
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR202.08
KR203.08

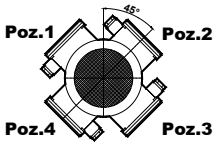




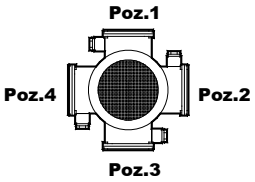


Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

	63	71	80	90S	90L	100L	112M
k	425	444	473	500	525	566	589
k1	478	564	593	625	650	701	724
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146



71
Tip / *Type* / Typ

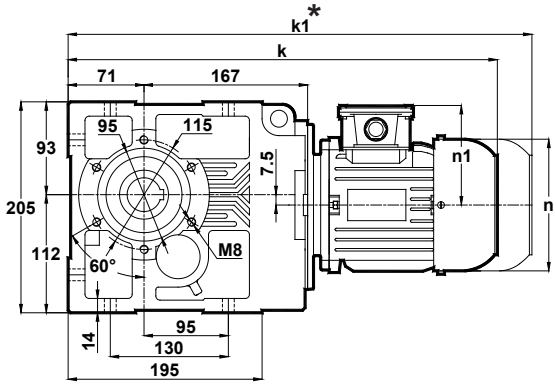


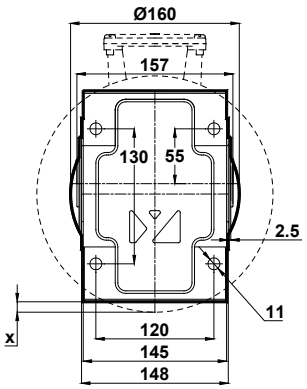
63-80-90-100-112
Tip / *Type* / Typ

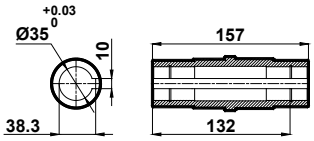
*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR273.00



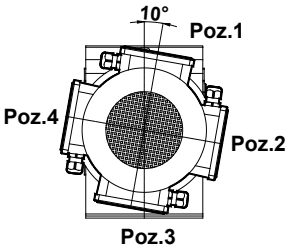




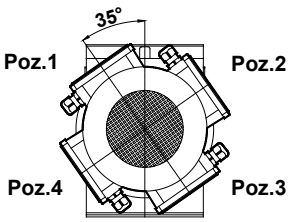
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	63	71	80	90S	90L	100L	112M
k	431	449.5	478	506	531	572	595
k1	-	570	598	631	656	707	730
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4.5

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

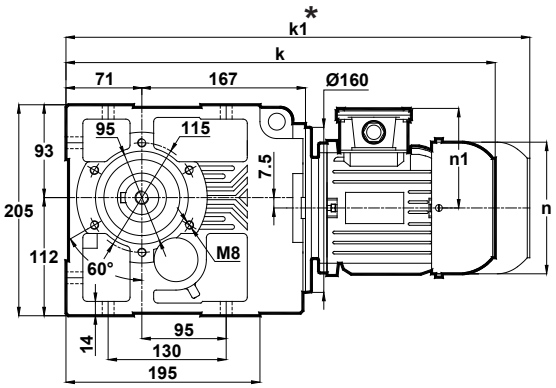


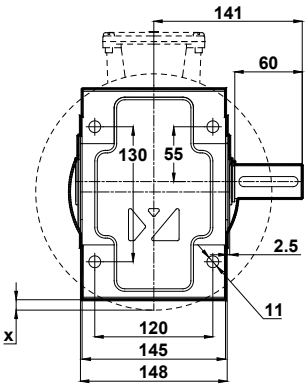
71
Tip / *Type* / Typ

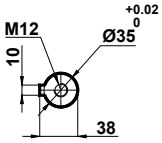


63-80-90-100-112
Tip / *Type* / Typ

KR273.01







x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	63	71	80	90S	90L	100L	112M
k	431	449.5	478	506	531	572	595
k1	-	570	598	631	656	707	730
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4.5

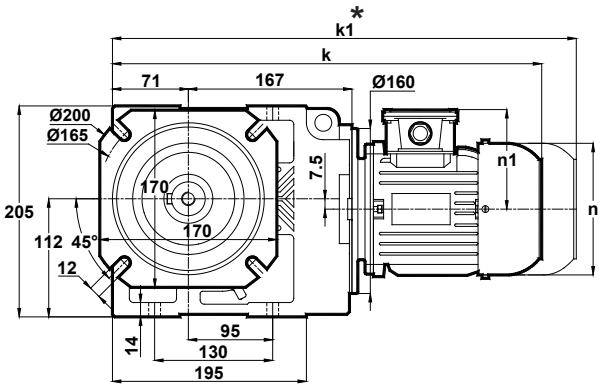
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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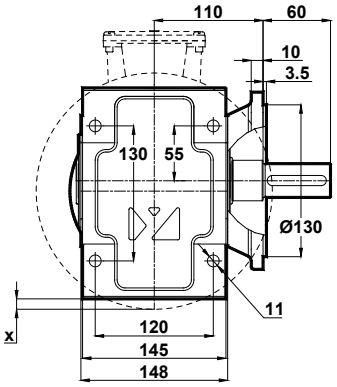


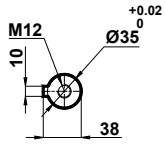
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR273.02



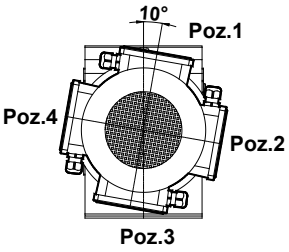




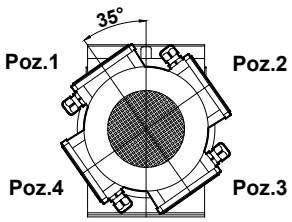
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	63	71	80	90S	90L	100L	112M
k	431	449.5	478	506	531	572	595
k1	-	570	598	631	656	707	730
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4.5

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

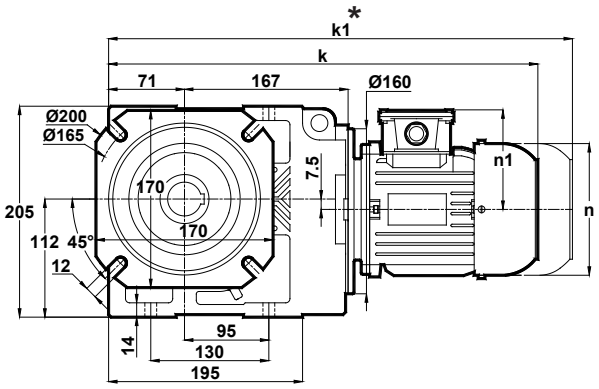


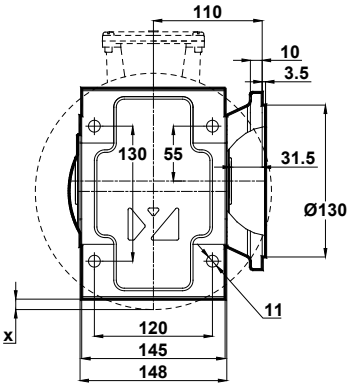
71
Tip / *Type* / Typ

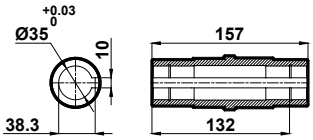


63-80-90-100-112
Tip / *Type* / Typ

KR273.03







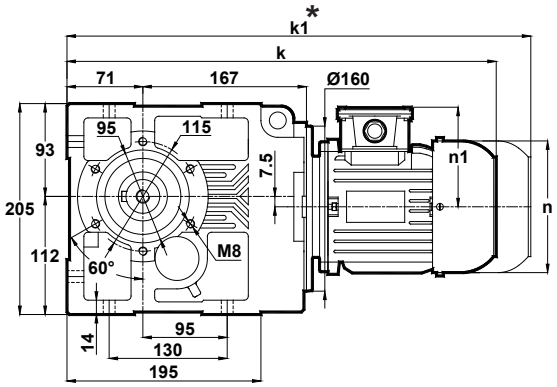
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
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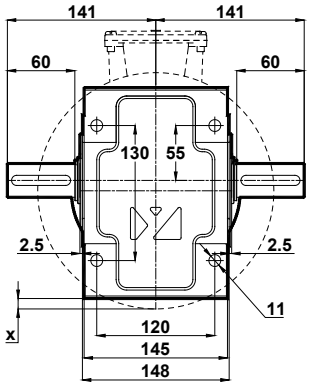
	63	71	80	90S	90L	100L	112M
k	431	449.5	478	506	531	572	595
k1	-	570	598	631	656	707	730
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4.5

* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
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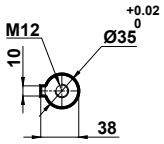
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR273.04



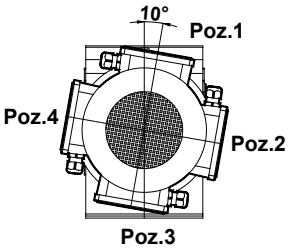


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

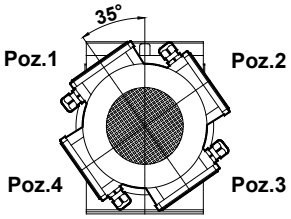


	63	71	80	90S	90L	100L	112M
k	431	449.5	478	506	531	572	595
k1	-	570	598	631	656	707	730
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4.5

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

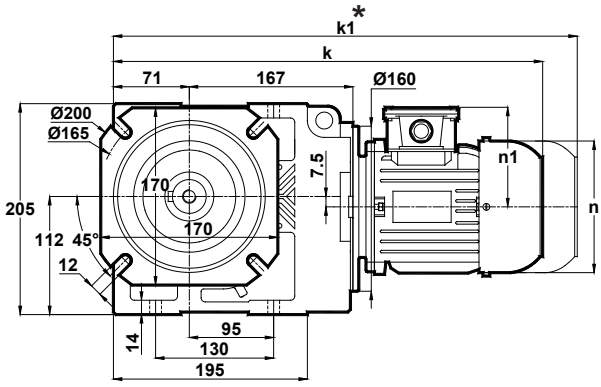


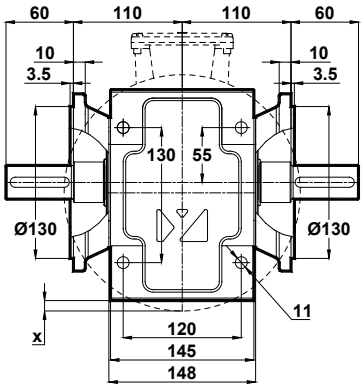
71
Tip / *Type* / Typ



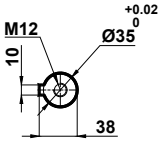
63-80-90-100-112
Tip / *Type* / Typ

KR273.05





x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte



	63	71	80	90S	90L	100L	112M
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x	-	-	-	-	-	-	4.5

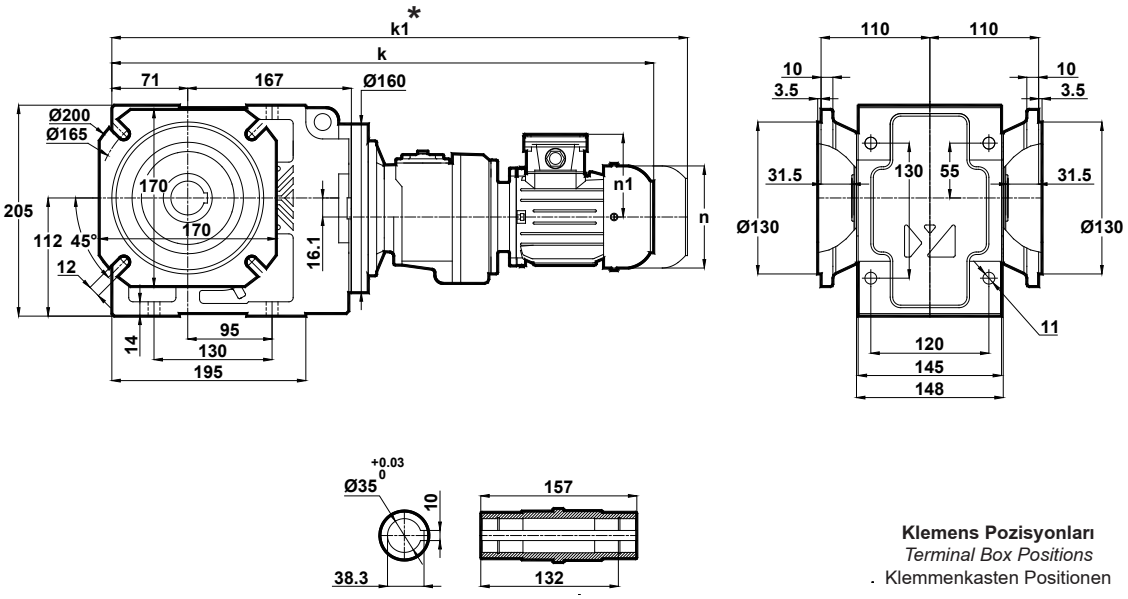
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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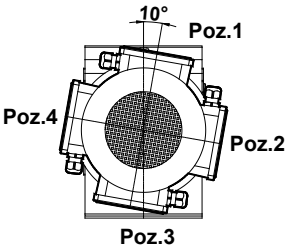
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR273.08

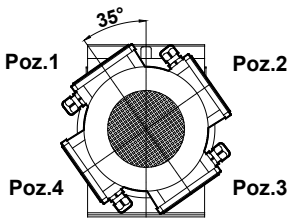


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k	431	449.5	478	506	531	572	595
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n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4.5

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

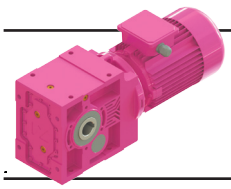


71
Tip / *Type* / Typ



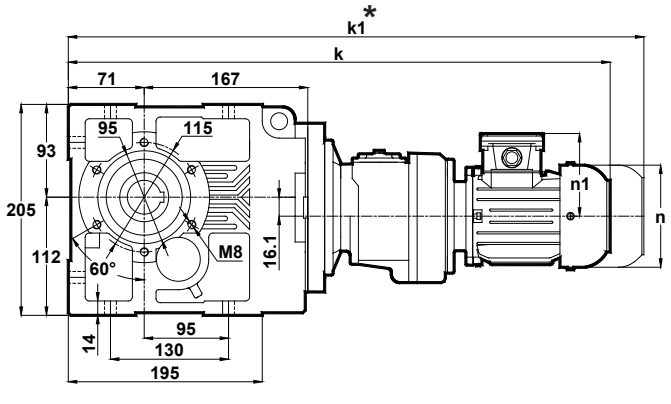
63-80-90-100-112
Tip / *Type* / Typ

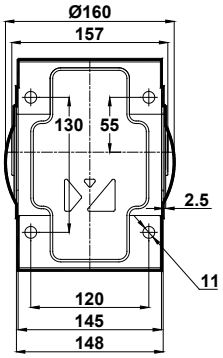
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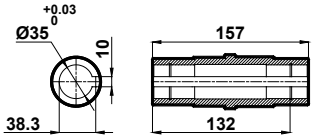


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR275.00
KR276.00

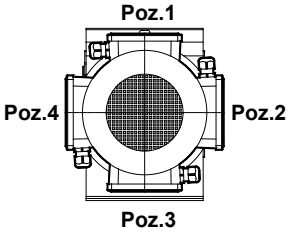






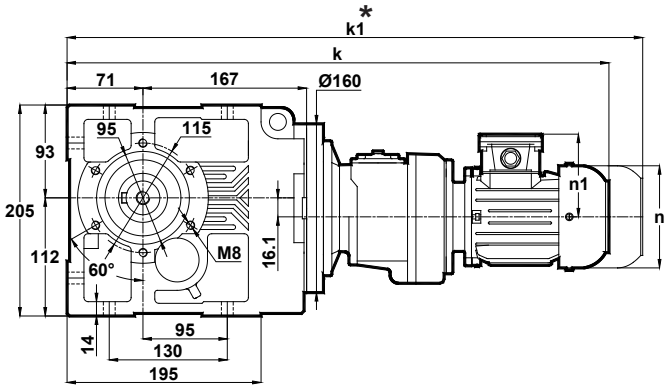
	63	71	80
k	581	600	628
k1	-	720	748
n	116	138	156
n1	97	110	118

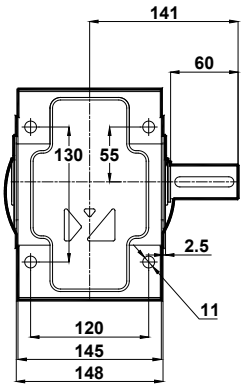
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

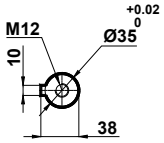


63-71-80
Tip / *Type* / Typ

KR275.01
KR276.01







	63	71	80
k	581	600	628
k1	-	720	748
n	116	138	156
n1	97	110	118

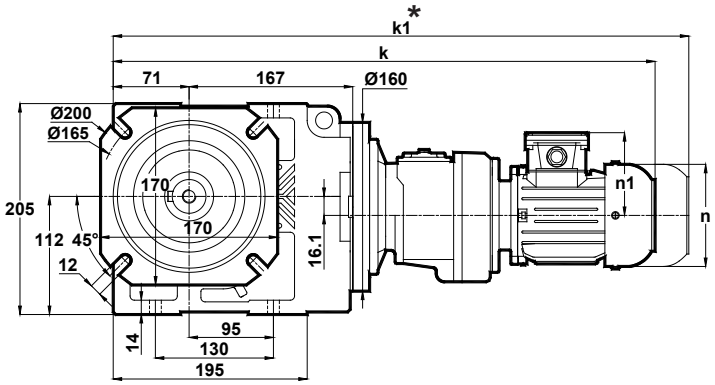
*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

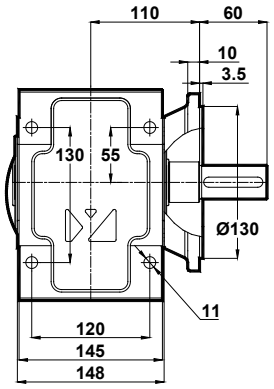


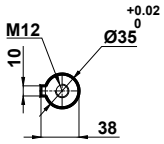
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-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

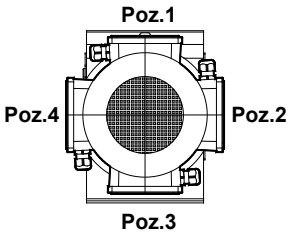






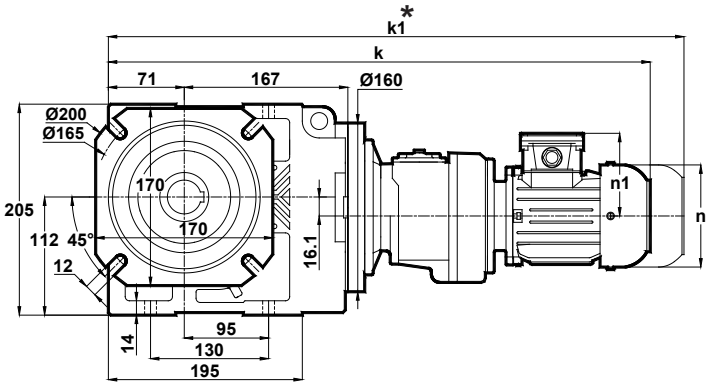
	63	71	80
k	581	600	628
k1	-	720	748
n	116	138	156
n1	97	110	118

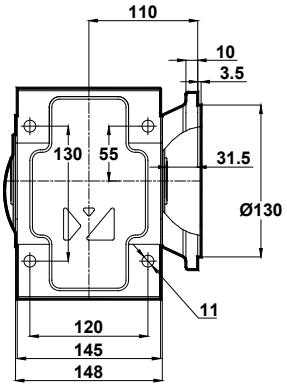
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

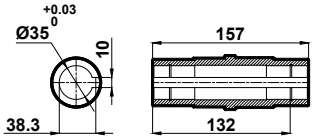


63-71-80
Tip / *Type* / Typ

KR275.03
KR276.03

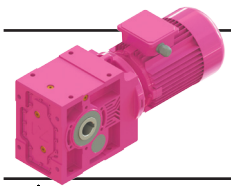






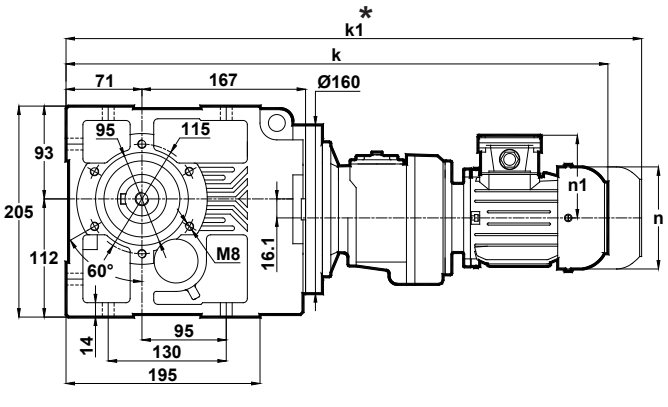
	63	71	80
k	581	600	628
k1	-	720	748
n	116	138	156
n1	97	110	118

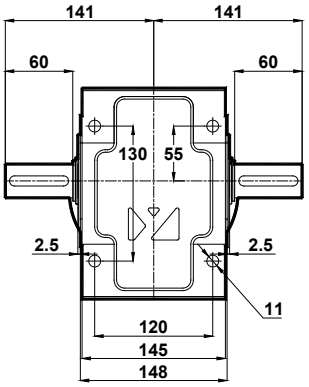
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

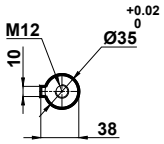


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR275.04
KR276.04

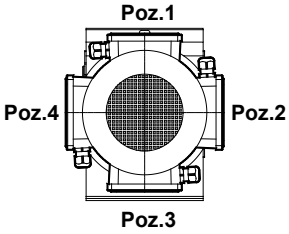






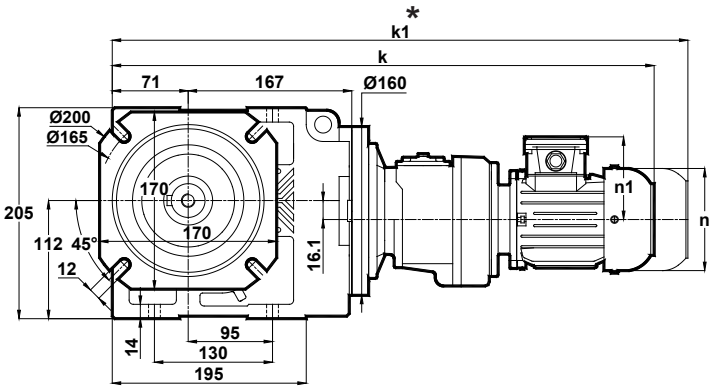
	63	71	80
k	581	600	628
k1	-	720	748
n	116	138	156
n1	97	110	118

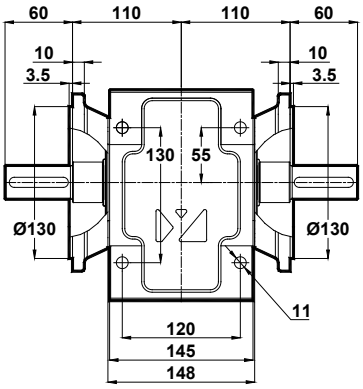
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

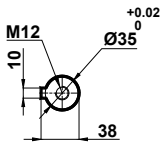


63-71-80
Tip / *Type* / Typ

KR275.05
KR276.05







	63	71	80
k	581	600	628
k1	-	720	748
n	116	138	156
n1	97	110	118

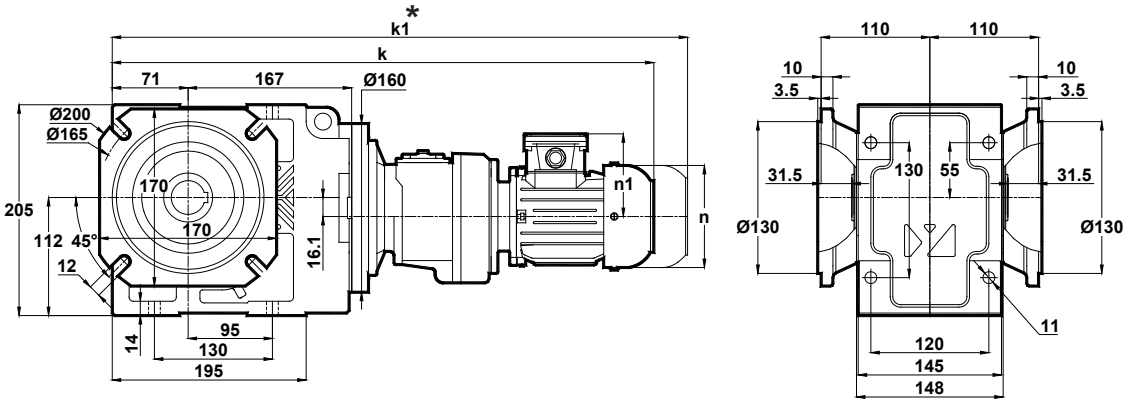
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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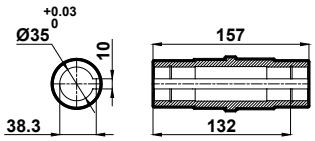


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

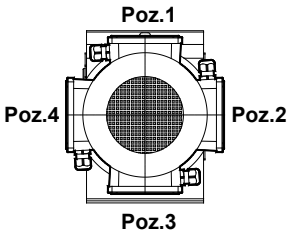
KR275.08
KR276.08





	63	71	80
k	581	600	628
k1	-	720	748
n	116	138	156
n1	97	110	118

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

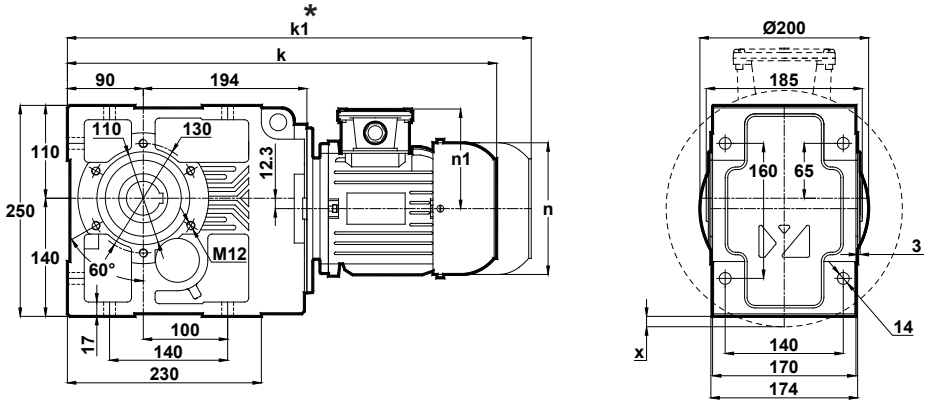


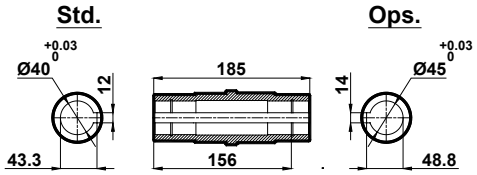
63-71-80
Tip / *Type* / Typ

*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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-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

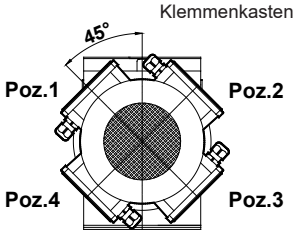




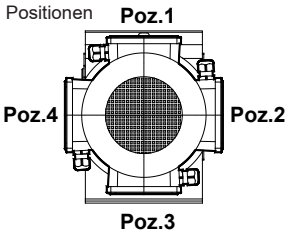
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	71	80	90S	90L	100L	112M	132S	132M
k	487	515	544	569	609	632	686	724
k1	607	635	669	694	744	767	831	869
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1.3	1.3

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

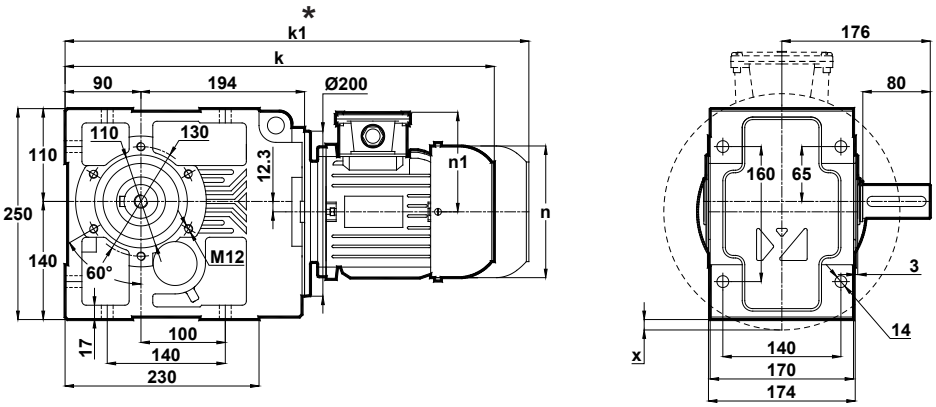


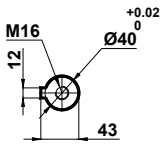
71-100-112-132
Tip / *Type* / Typ



80-90
Tip / *Type* / Typ

KR373.01





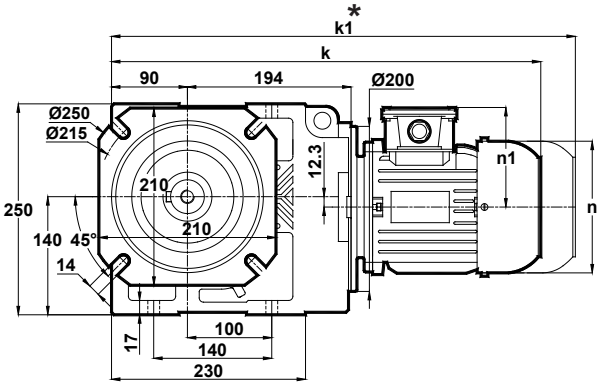
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

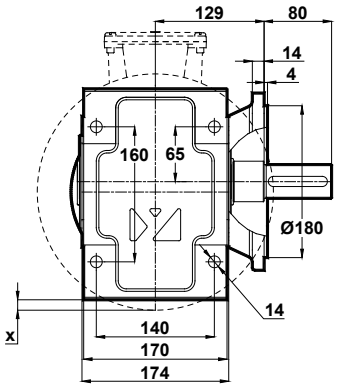
	71	80	90S	90L	100L	112M	132S	132M
k	487	515	544	569	609	632	686	724
k1	607	635	669	694	744	767	831	869
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1.3	1.3

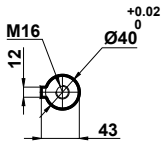
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR373.02



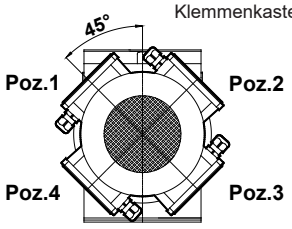




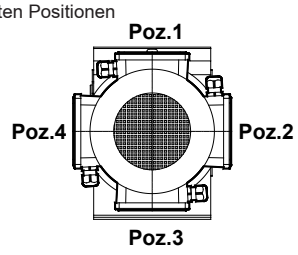
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	71	80	90S	90L	100L	112M	132S	132M
k	487	515	544	569	609	632	686	724
k1	607	635	669	694	744	767	831	869
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1.3	1.3

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

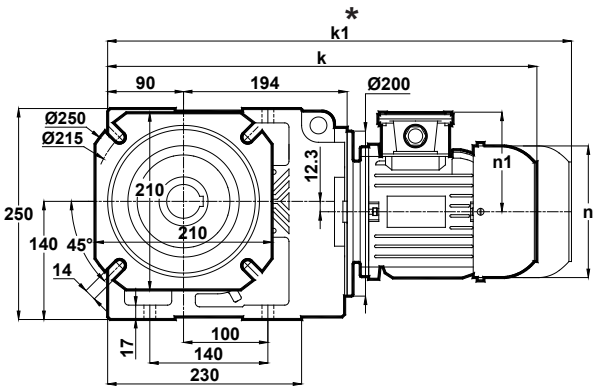


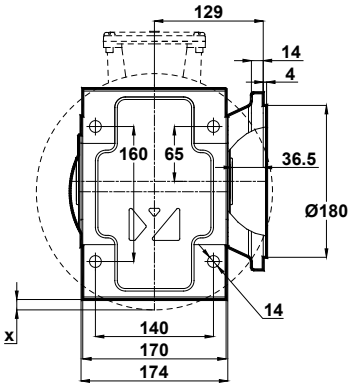
71-100-112-132
Tip / *Type* / Typ



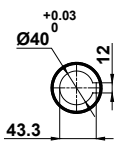
80-90
Tip / *Type* / Typ

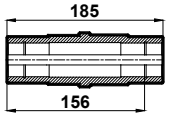
KR373.03



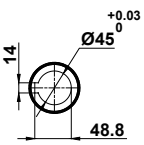


Std.





Ops.



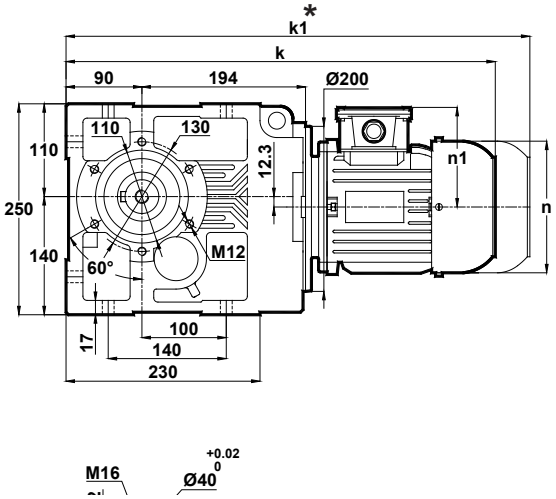
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

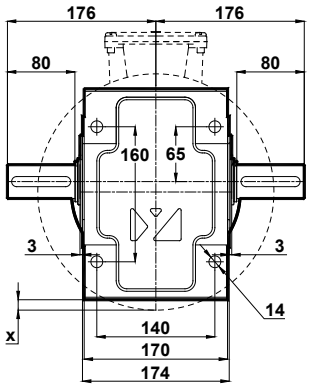
	71	80	90S	90L	100L	112M	132S	132M
k	487	515	544	569	609	632	686	724
k1	607	635	669	694	744	767	831	869
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1.3	1.3

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-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

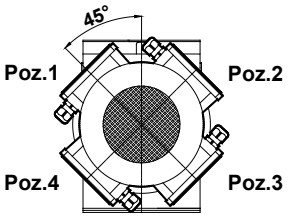




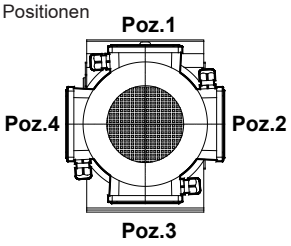
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	71	80	90S	90L	100L	112M	132S	132M
k	487	515	544	569	609	632	686	724
k1	607	635	669	694	744	767	831	869
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1.3	1.3

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

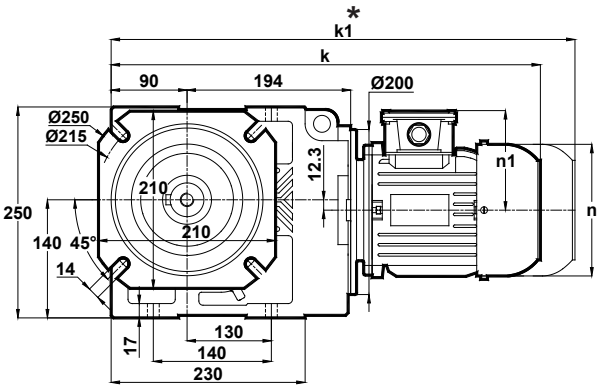


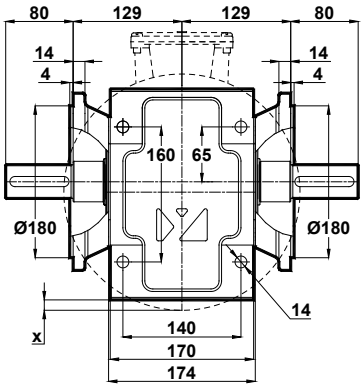
71-100-112-132
Tip / *Type* / Typ



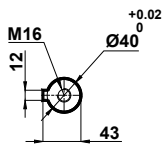
80-90
Tip / *Type* / Typ

KR373.05





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x	-	-	-	-	-	-	1.3	1.3

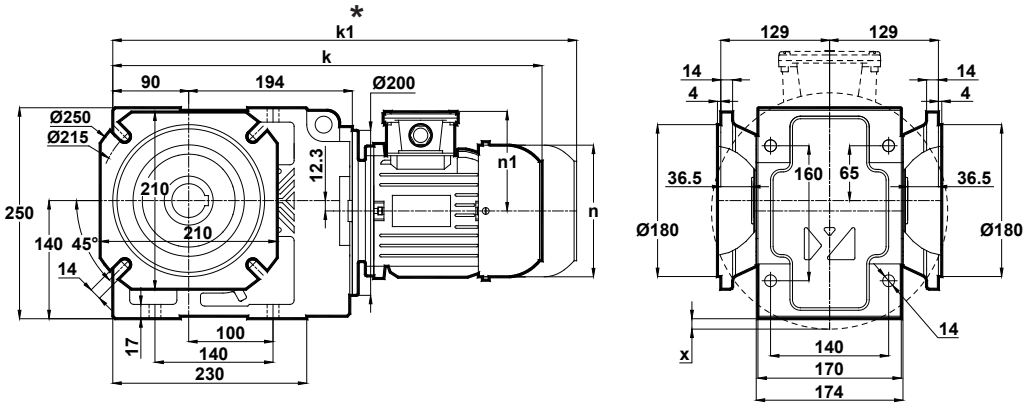
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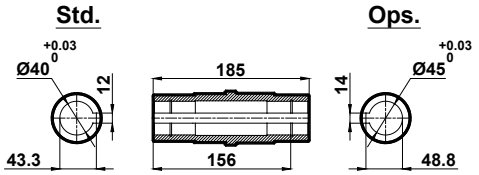


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-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

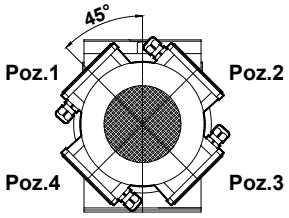




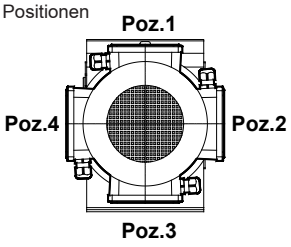
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x	-	-	-	-	-	-	1.3	1.3

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



71-100-112-132
Tip / *Type* / Typ

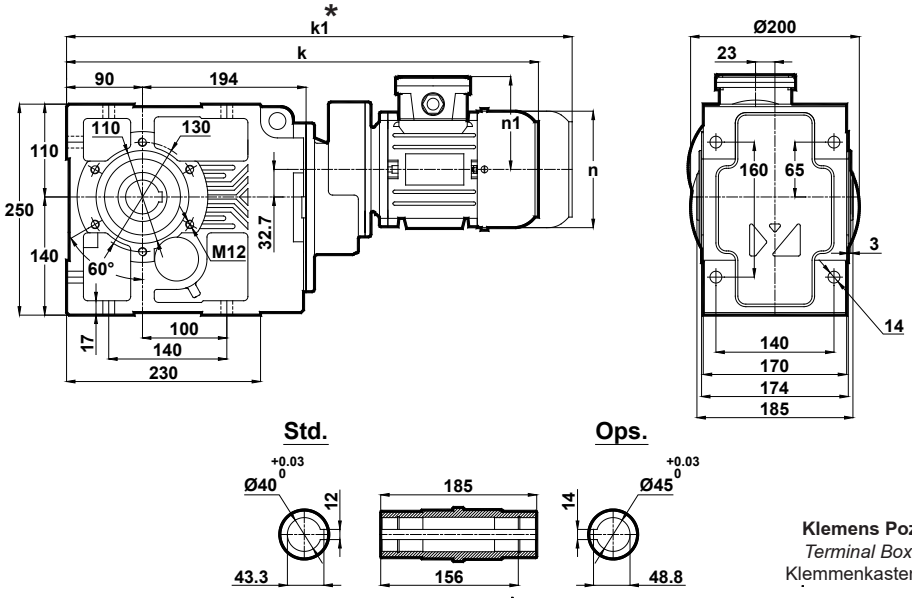


80-90
Tip / *Type* / Typ

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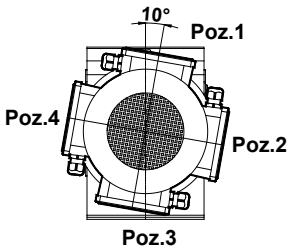
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR374.00

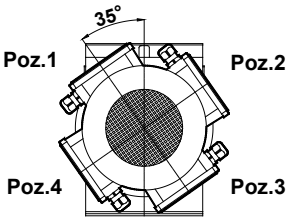


Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

	63	71	80
k	547	566	594
k1	-	686	714
n	116	138	156
n1	97	110	118

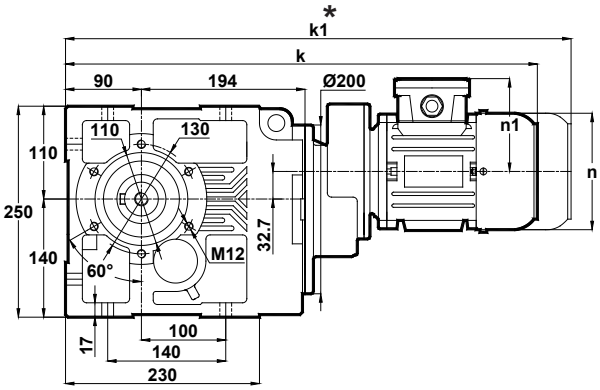


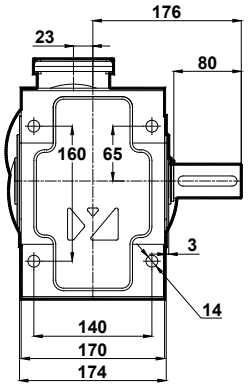
71
Tip / *Type* / Typ

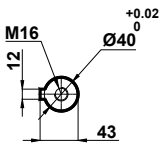


63-80
Tip / *Type* / Typ

KR374.01

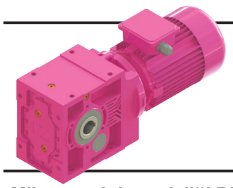






	63	71	80
k	547	566	594
k1	-	686	714
n	116	138	156
n1	97	110	118

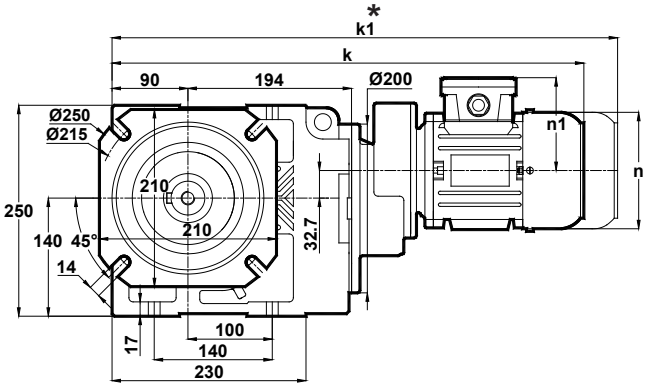
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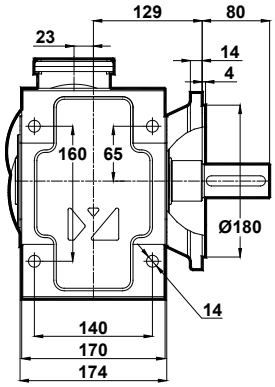


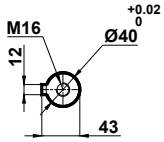
Ölçü Sayfaları
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Abmessungsseiten

-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

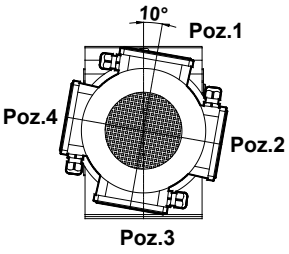




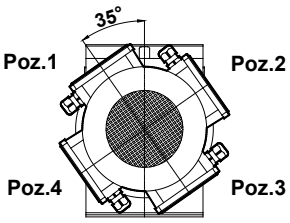


	63	71	80
k	547	566	594
k1	-	686	714
n	116	138	156
n1	97	110	118

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

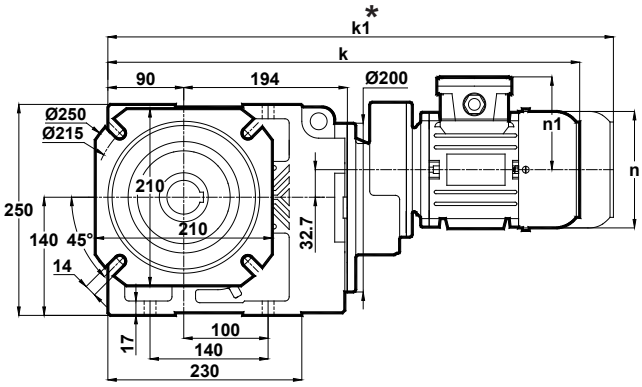


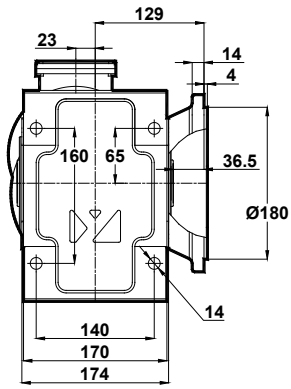
71
Tip / *Type* / Typ



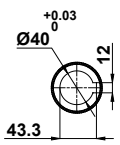
63-80
Tip / *Type* / Typ

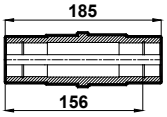
KR374.03



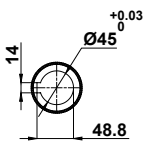


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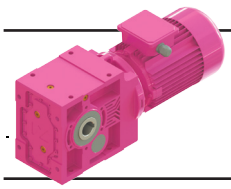


Ops.



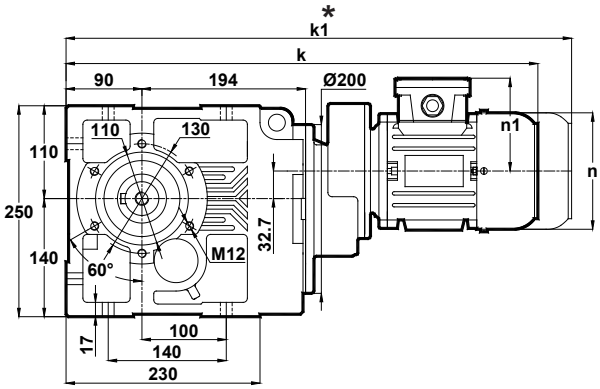
	63	71	80
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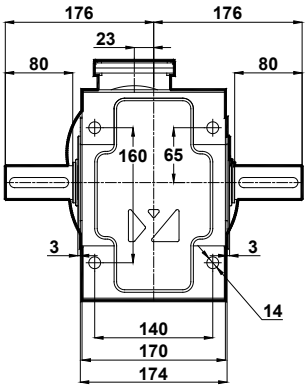
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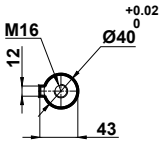


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR374.04

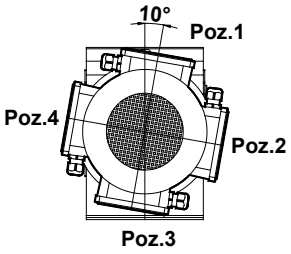




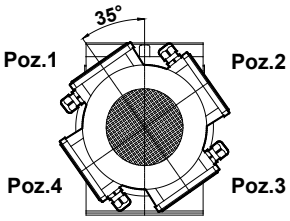


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Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

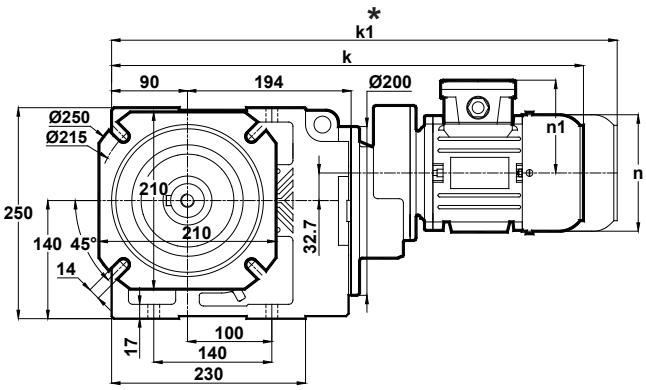


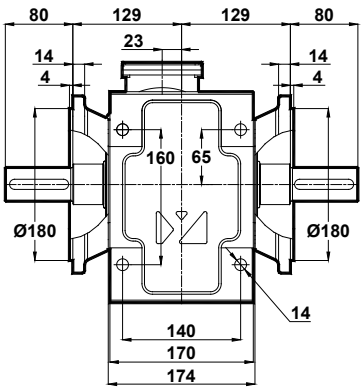
71
Tip / *Type* / Typ

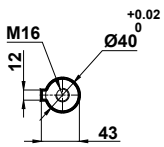


63-80
Tip / *Type* / Typ

KR374.05







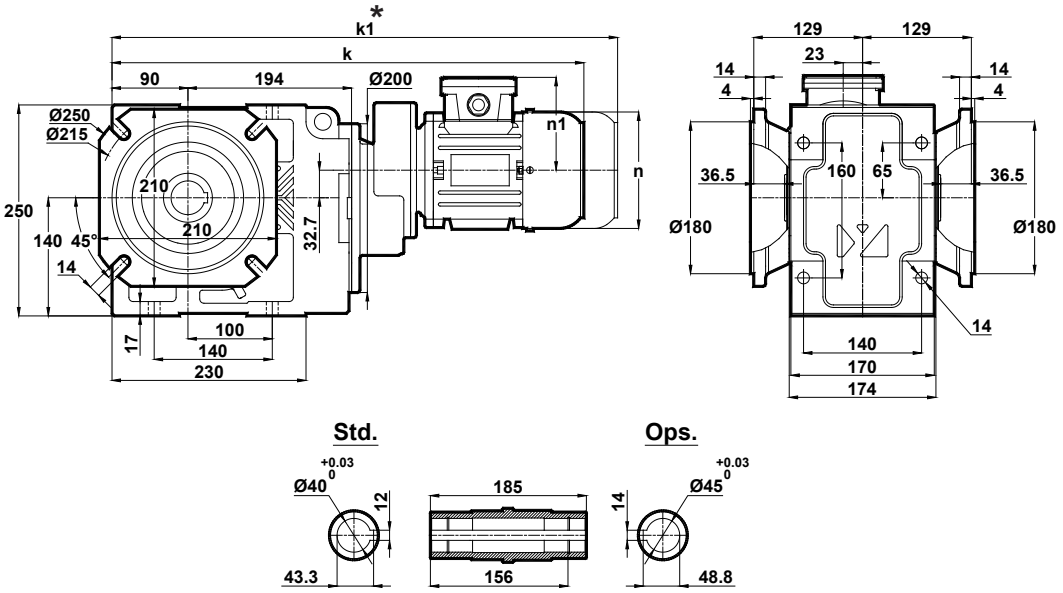
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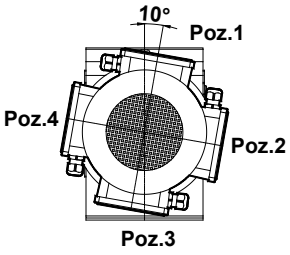
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR374.08

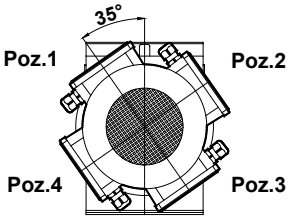


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Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

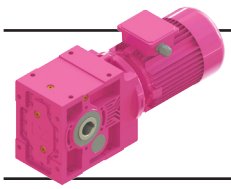


71
Tip / *Type* / Typ



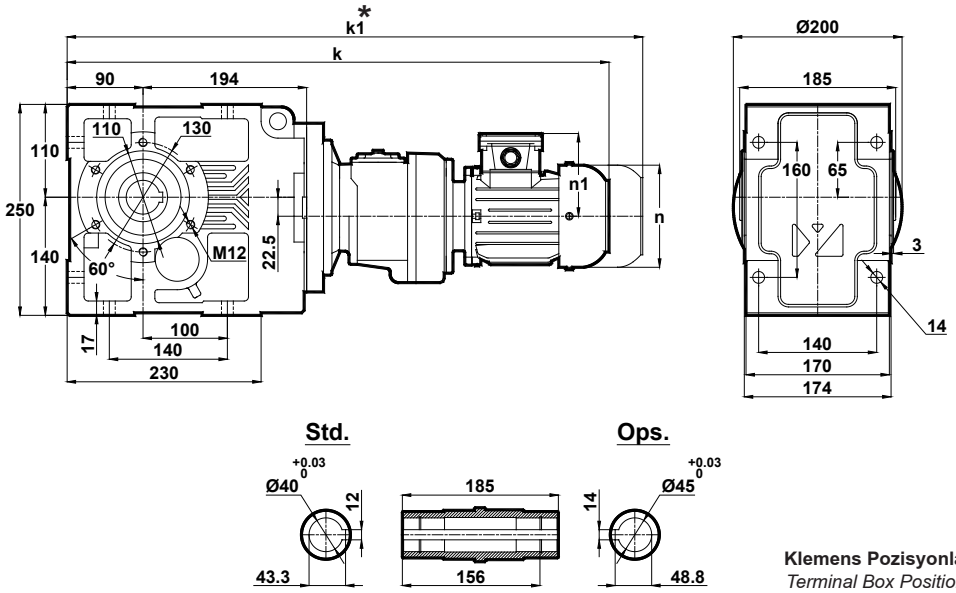
63-80
Tip / *Type* / Typ

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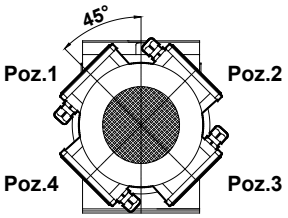
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR375.00
KR376.00



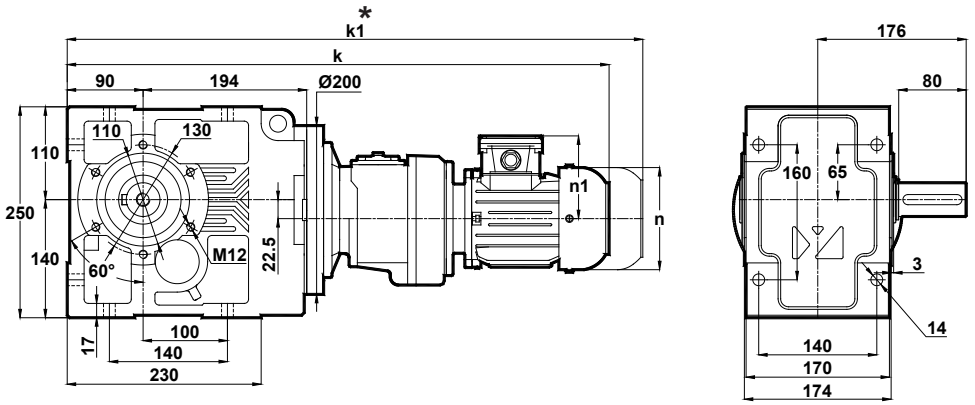
	63	71
k	647	666
k1	-	786
n	116	138
n1	97	110

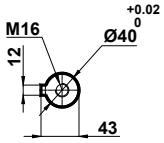
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tip / *Type* / Typ

KR375.01
KR376.01



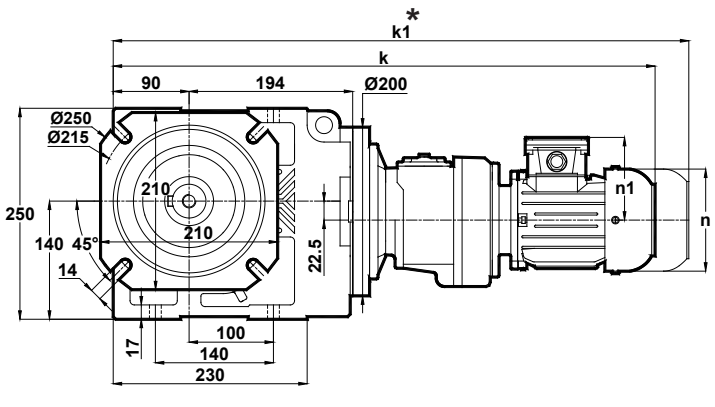


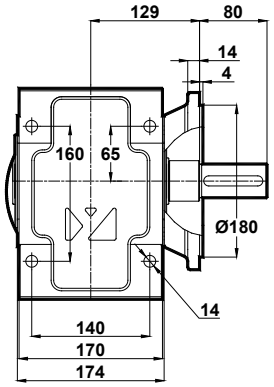
	63	71
k	647	666
k1	-	786
n	116	138
n1	97	110

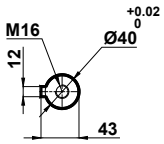
*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR375.02
KR376.02

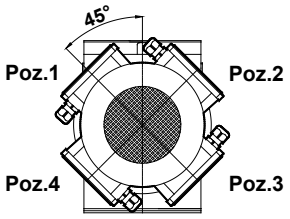






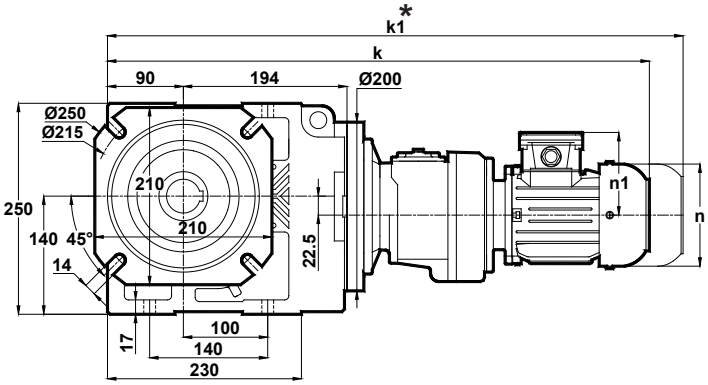
	63	71
k	647	666
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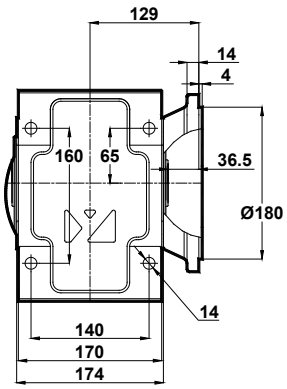
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



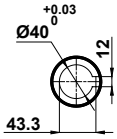
63-71
Tip / *Type* / Typ

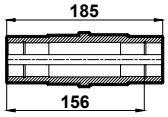
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KR376.03



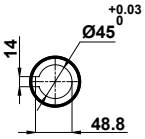


Std.





Ops.

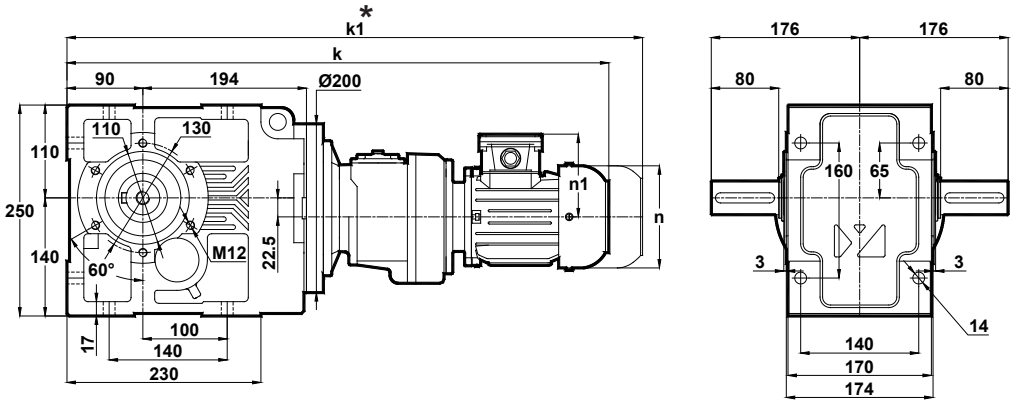


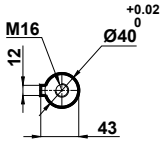
	63	71
k	647	666
k1	-	786
n	116	138
n1	97	110

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

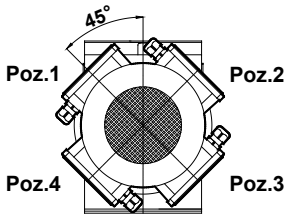
KR375.04
KR376.04





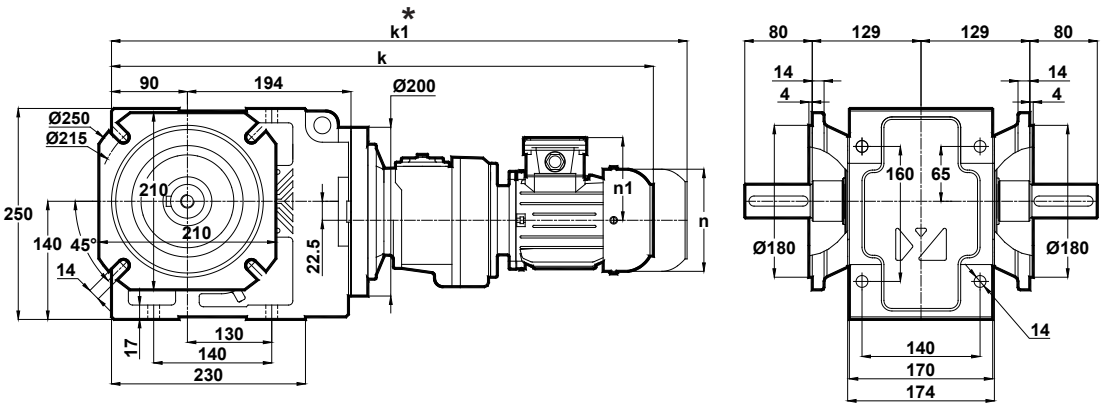
	63	71
k	647	666
k1	-	786
n	116	138
n1	97	110

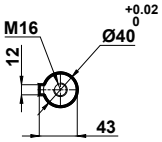
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tip / *Type* / Typ

KR375.05
KR376.05





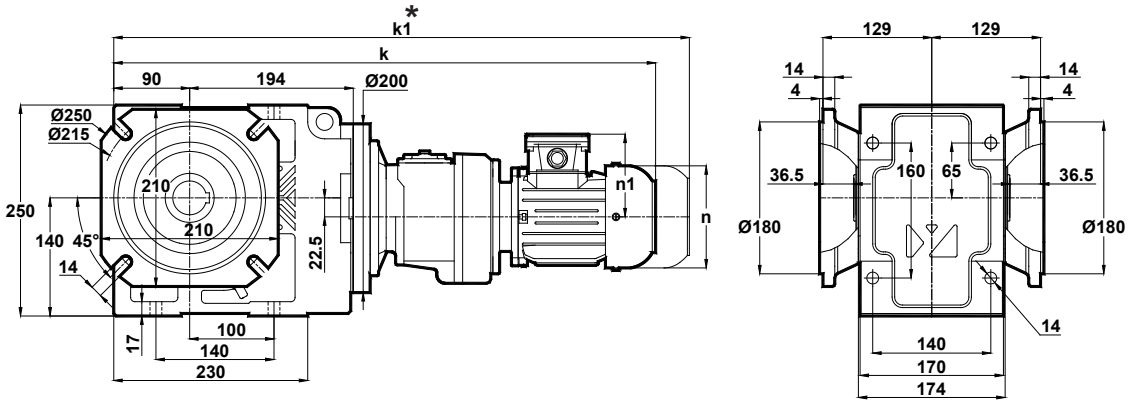
	63	71
k	647	666
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n1	97	110

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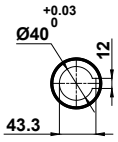


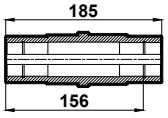
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR375.08
KR376.08

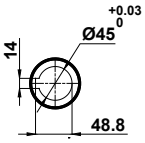


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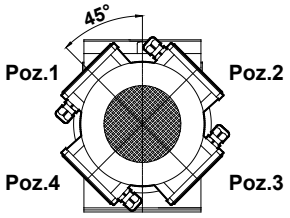


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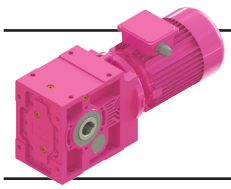
	63	71
k	647	666
k1	-	786
n	116	138
n1	97	110

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



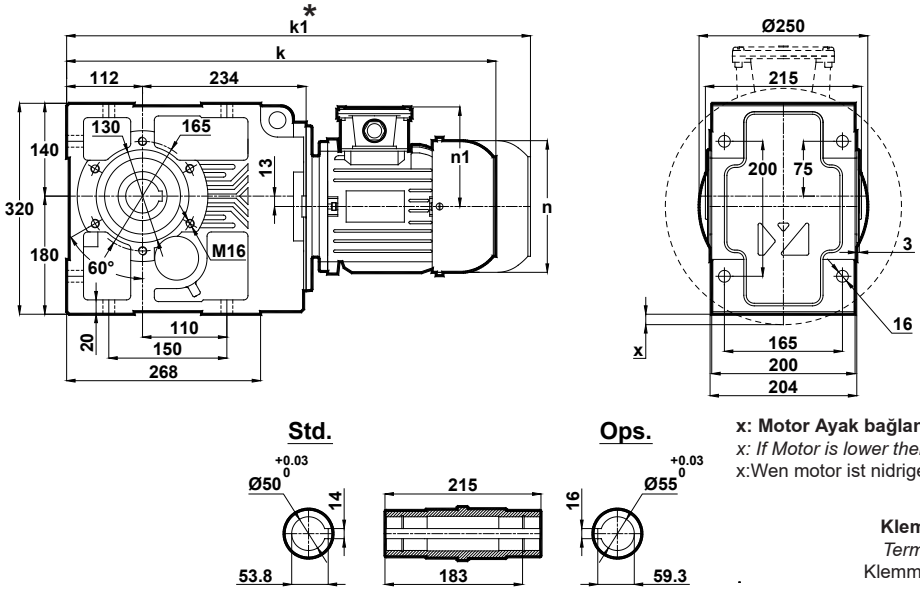
63-71
Tip / *Type* / Typ

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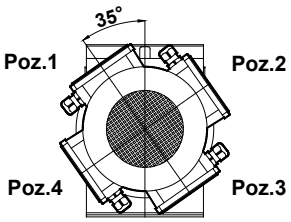
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR473.00



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

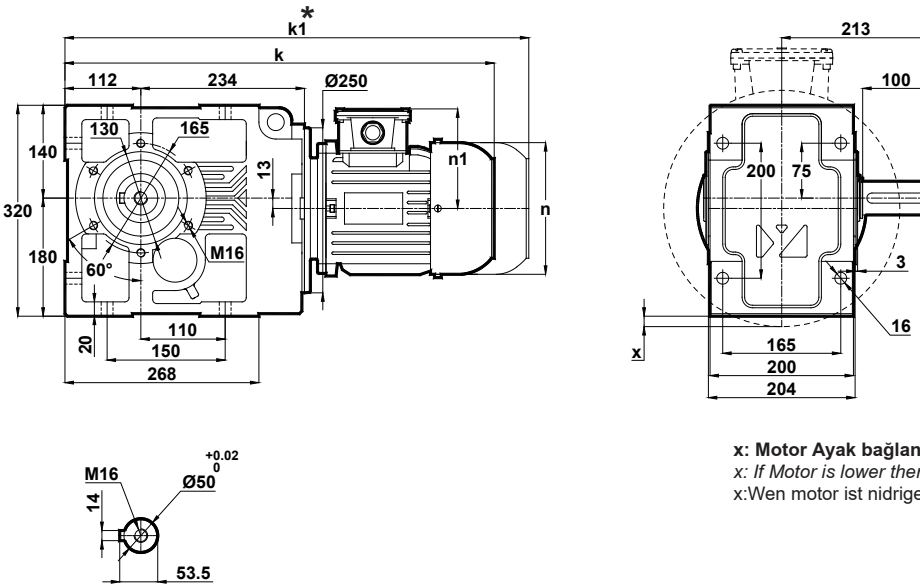
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



80-90-100-112-132-160-180
Tip / *Type* / Typ

	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	572	600	625	663	689	738	776	851	895	912	950
k1	692	725	750	798	824	883	921	1021	1065	1082	1120
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

KR473.01



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	572	600	625	663	689	738	776	851	895	912	950
k1	692	725	750	798	824	883	921	1021	1065	1082	1120
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

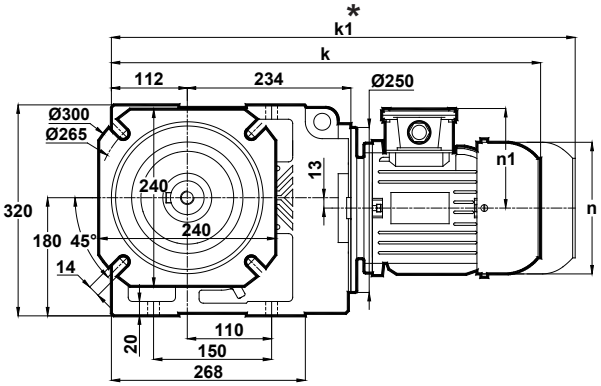
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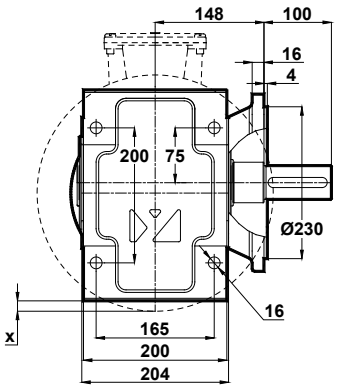


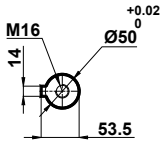
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-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



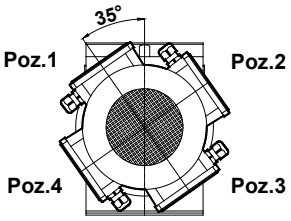




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

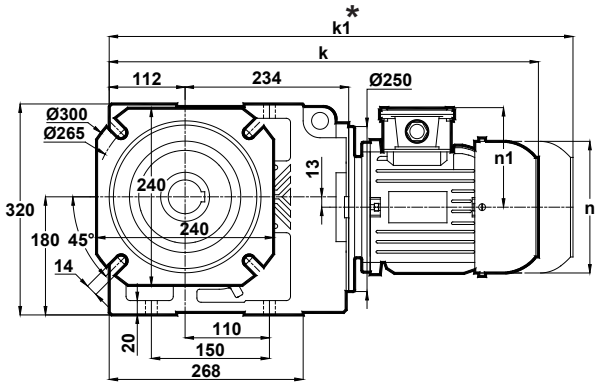
	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	572	600	625	663	689	738	776	851	895	912	950
k1	692	725	750	798	824	883	921	1021	1065	1082	1120
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

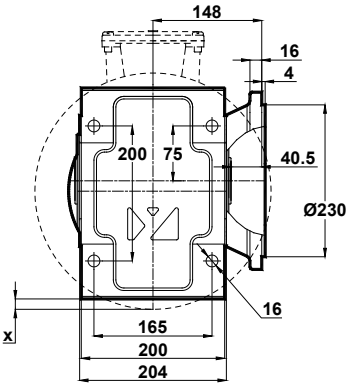
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



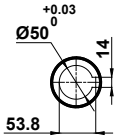
80-90-100-112-132-160-180
Tip / *Type* / Typ

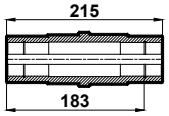
KR473.03



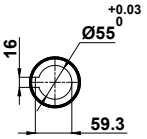


Std.





Ops.



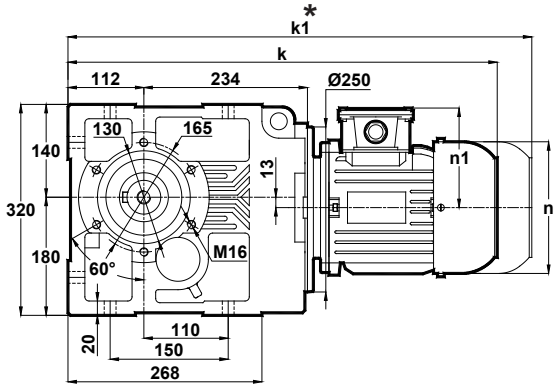
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x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

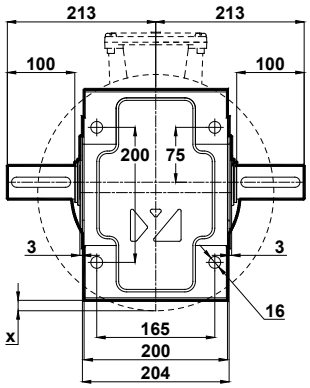
	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	572	600	625	663	689	738	776	851	895	912	950
k1	692	725	750	798	824	883	921	1021	1065	1082	1120
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

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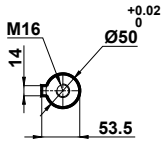
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR473.04

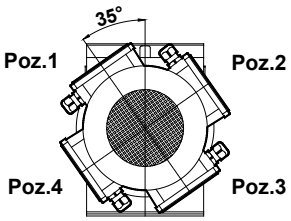




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x:Wen motor ist nidriger den die Anschlußplatte



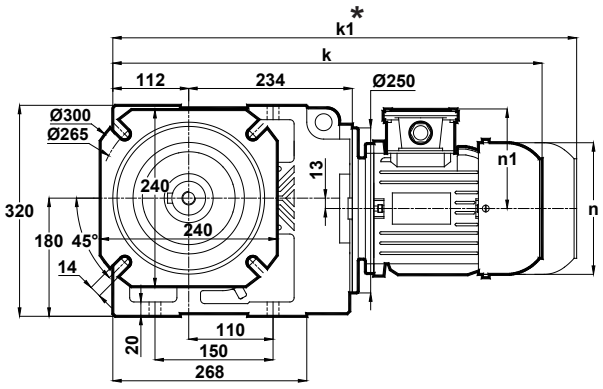
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

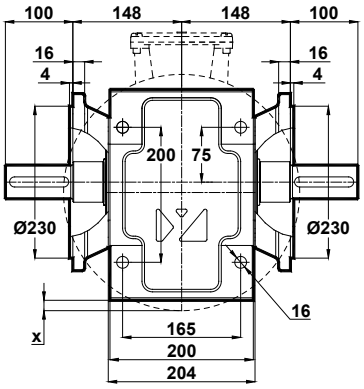


	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	572	600	625	663	689	738	776	851	895	912	950
k1	692	725	750	798	824	883	921	1021	1065	1082	1120
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

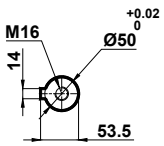
80-90-100-112-132-160-180
Tip / *Type* / Typ

KR473.05





x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte



	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	572	600	625	663	689	738	776	851	895	912	950
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x	-	-	-	-	-	-	-	-	-	7	7

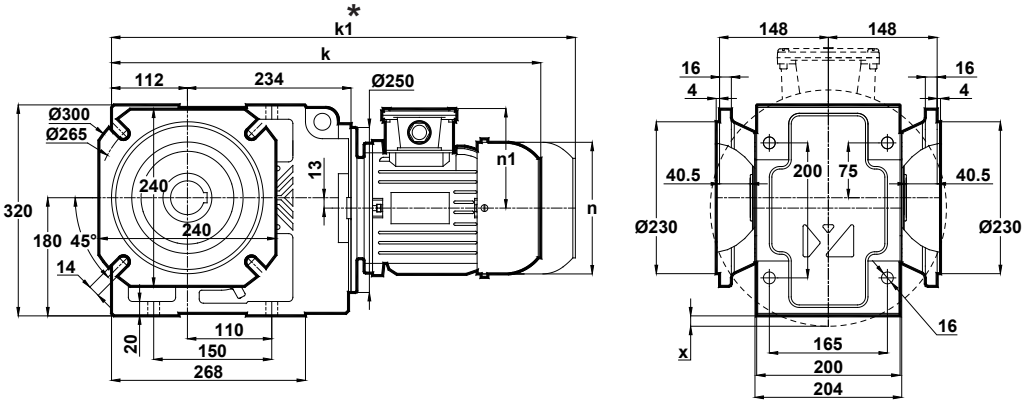
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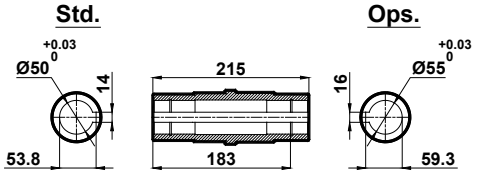


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-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

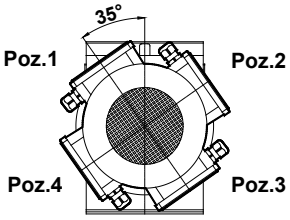




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x: If Motor is lower then foot mounting plane
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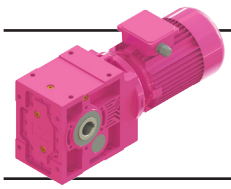
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n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



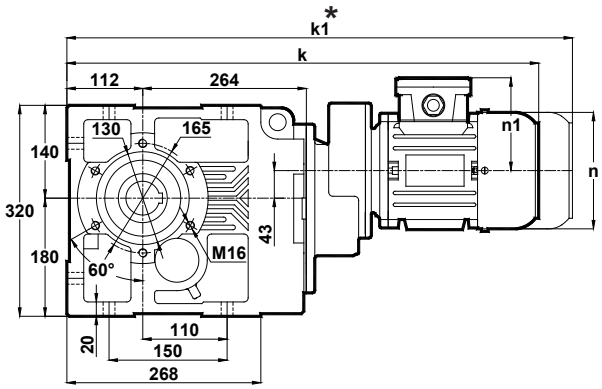
80-90-100-112-132-160-180
Tip / *Type* / Typ

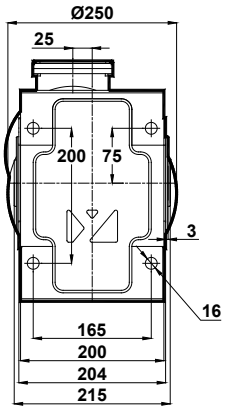
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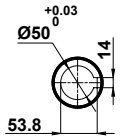
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

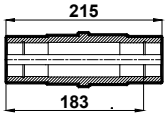
KR474.00



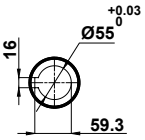


Std.



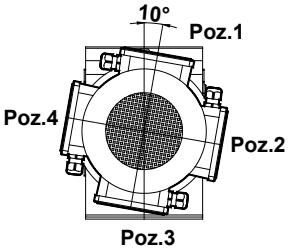


Ops.

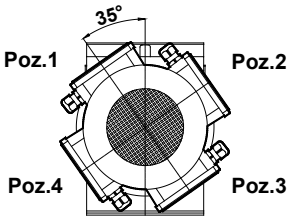


	71	80
k	637	665
k1	757	785
n	138	156
n1	110	118

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

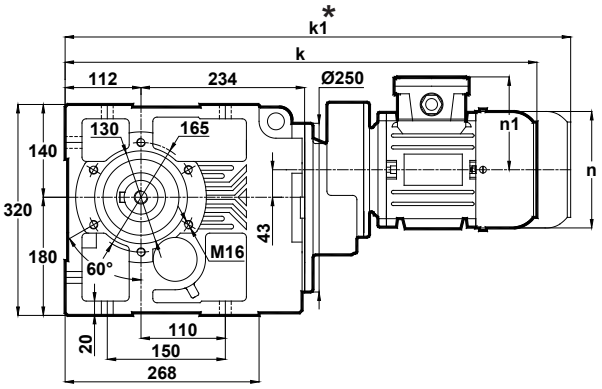


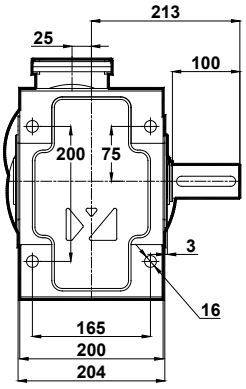
80
Tip / *Type* / Typ

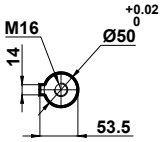


71
Tip / *Type* / Typ

KR474.01

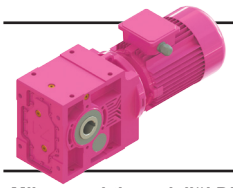






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k1	757	785
n	138	156
n1	110	118

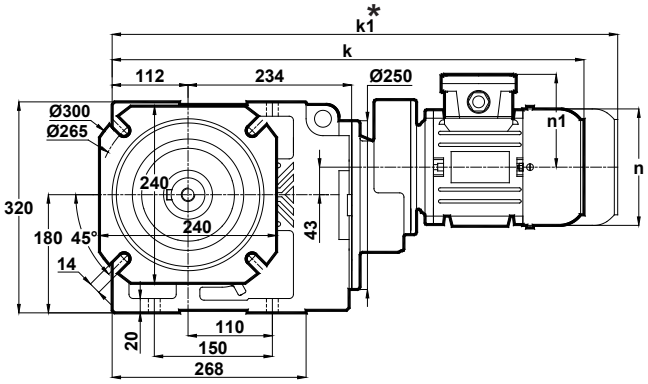
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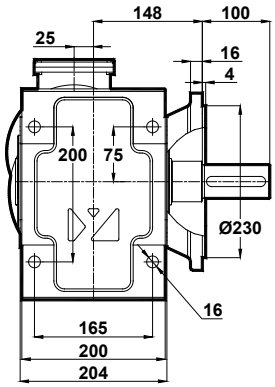


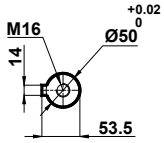
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR474.02

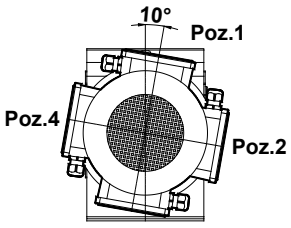




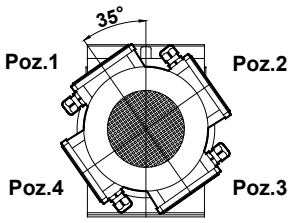


	71	80
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Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

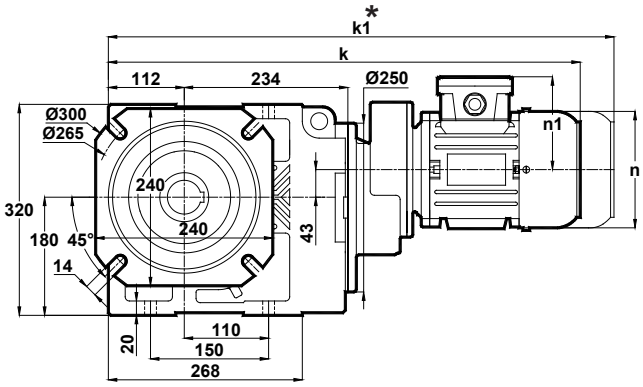


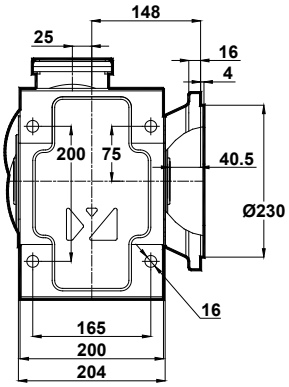
80
Tip / *Type* / Typ



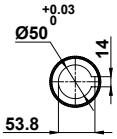
71
Tip / *Type* / Typ

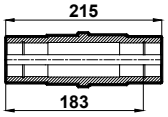
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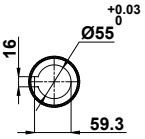


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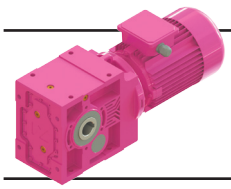


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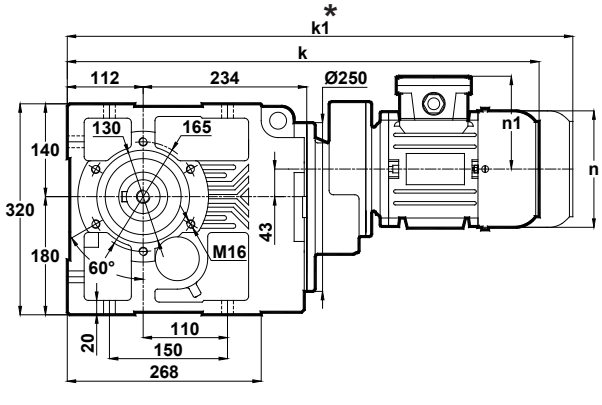
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n1	110	118

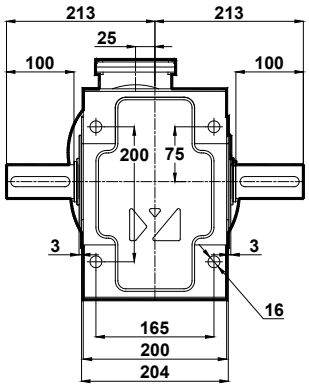
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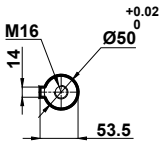


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR474.04

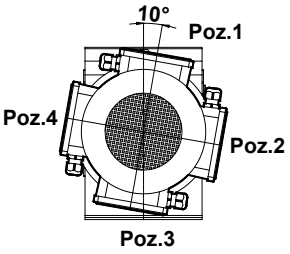




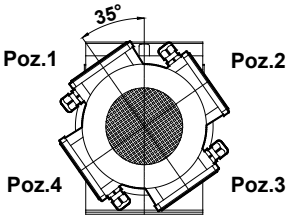


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Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

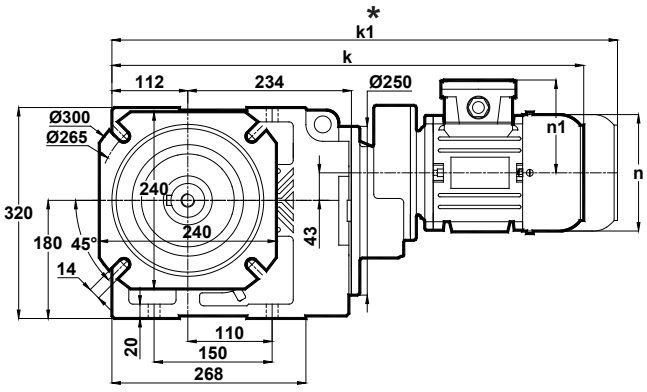


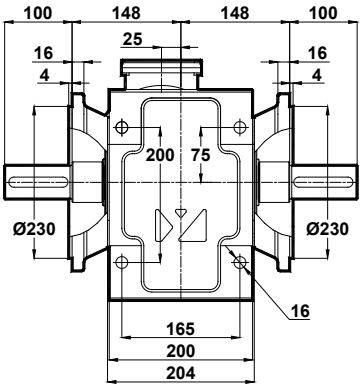
80
Tip / *Type* / Typ

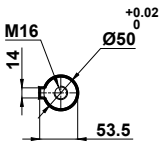


71
Tip / *Type* / Typ

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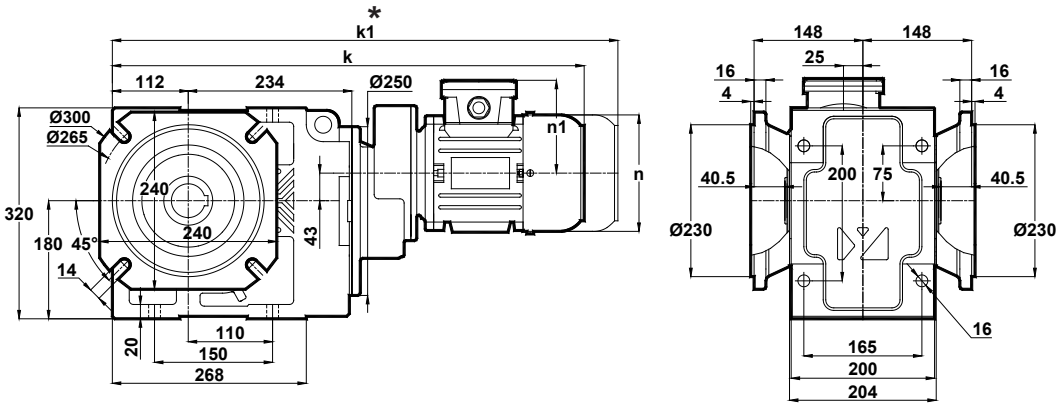
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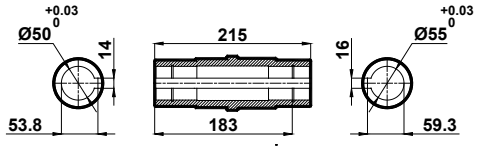
Ölçü Sayfaları
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR474.08

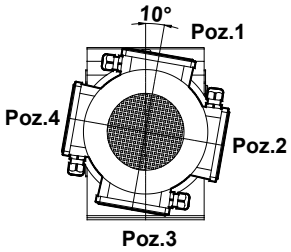


Std. **Ops.**

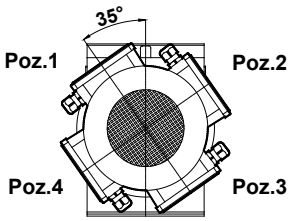


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k1	757	785
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Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



80
Tip / *Type* / Typ

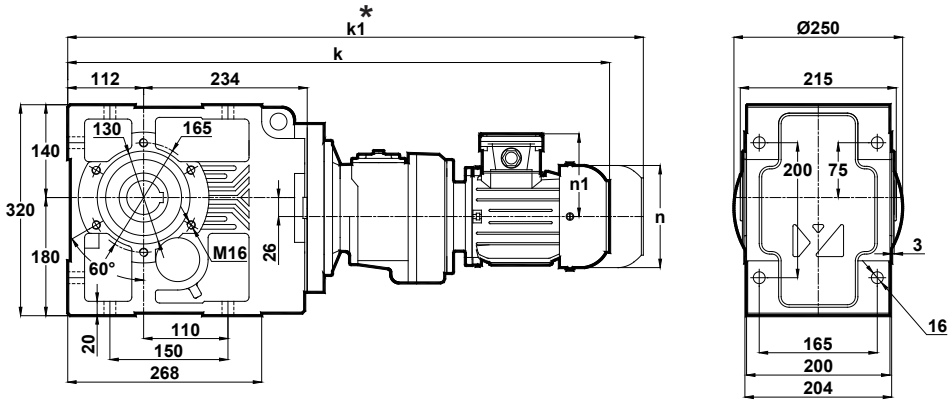


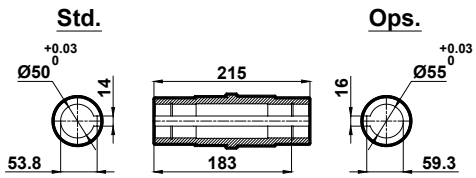
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

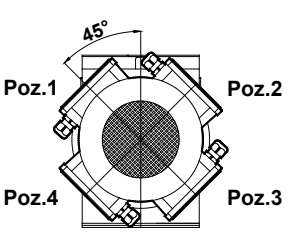
KR475.00
KR476.00



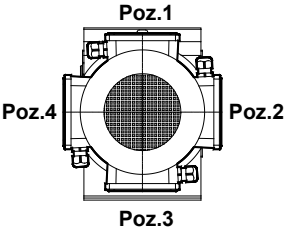


Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

	63	71
k	748	767
k1	-	887
n	116	138
n1	97	110

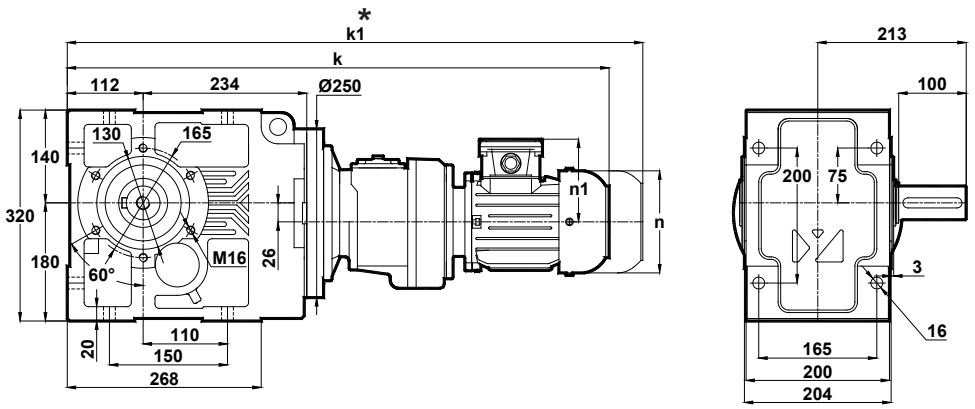


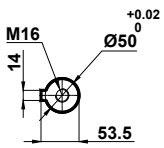
71
Tip / *Type* / Typ



63
Tip / *Type* / Typ

KR475.01
KR476.01



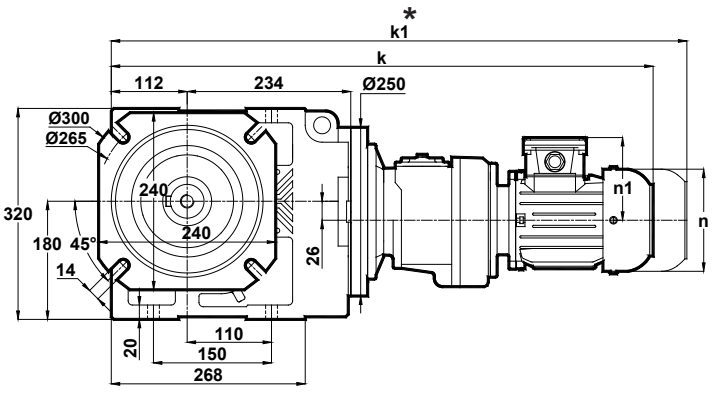


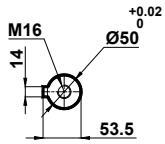
	63	71
k	748	767
k1	-	887
n	116	138
n1	97	110

*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

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

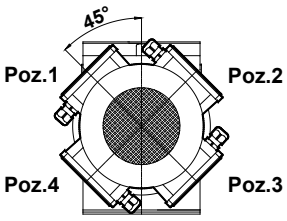
KR475.02
KR476.02



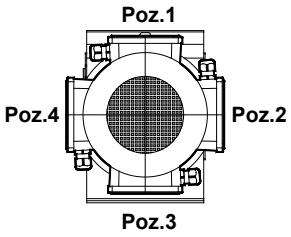


	63	71
k	748	767
k1	-	887
n	116	138
n1	97	110

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

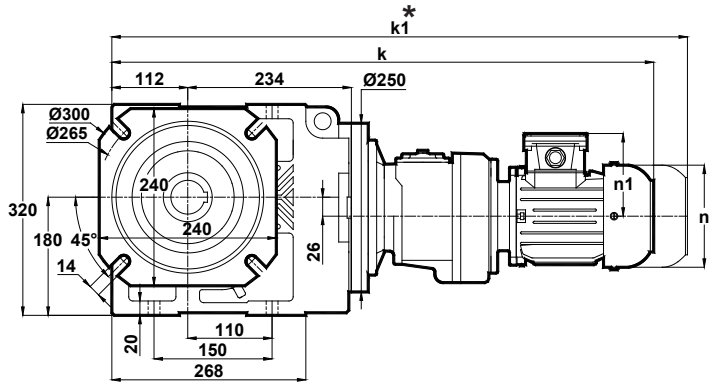


71
Tip / *Type* / Typ

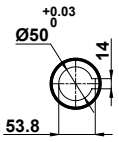


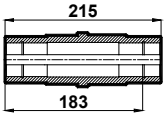
63
Tip / *Type* / Typ

KR475.03
KR476.03

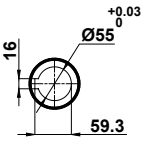


Std.



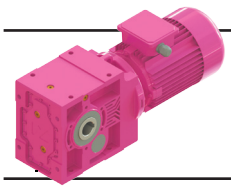


Ops.



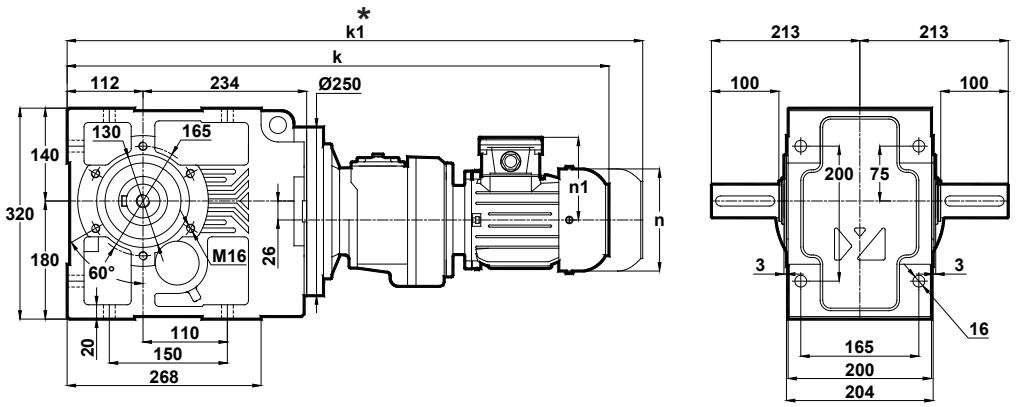
	63	71
k	748	767
k1	-	887
n	116	138
n1	97	110

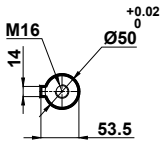
*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



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

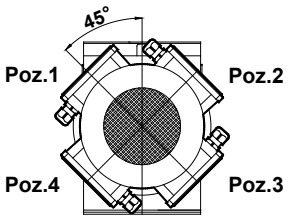
KR475.04
KR476.04



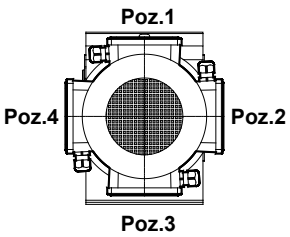


	63	71
k	748	767
k1	-	887
n	116	138
n1	97	110

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

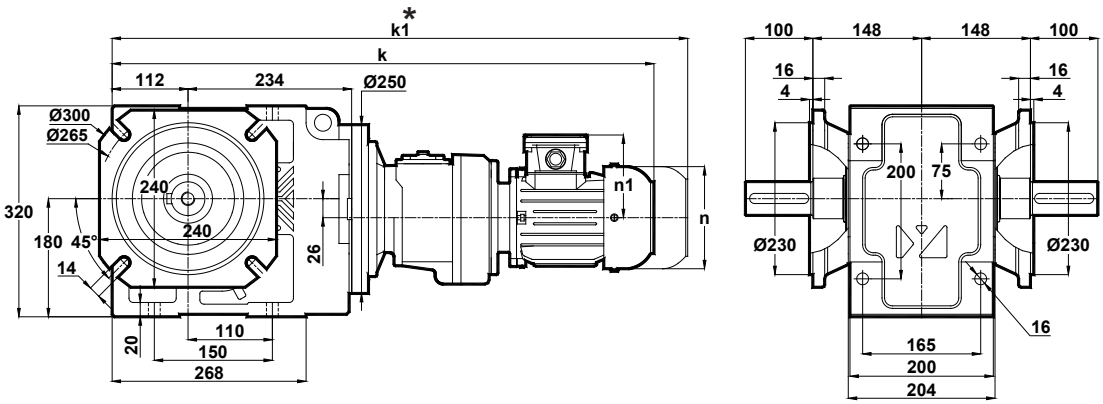


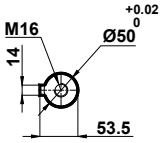
71
Tip / *Type* / Typ



63
Tip / *Type* / Typ

KR475.05
KR476.05





	63	71
k	748	767
k1	-	887
n	116	138
n1	97	110

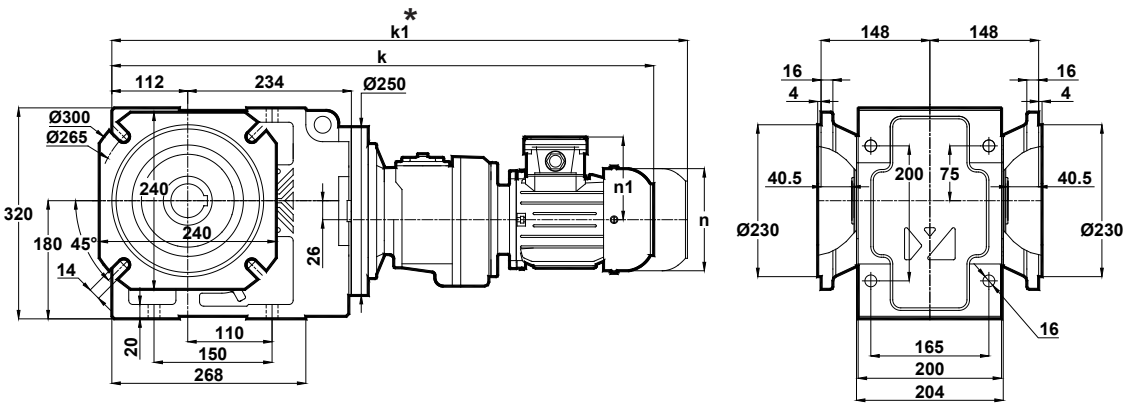
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

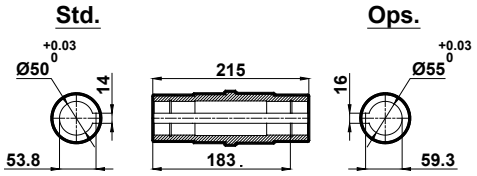


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

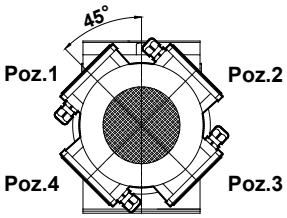
KR475.08
KR476.08



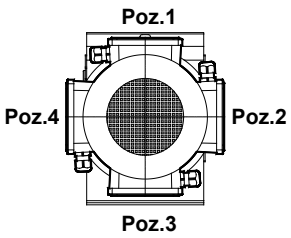


	63	71
k	748	767
k1	-	887
n	116	138
n1	97	110

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

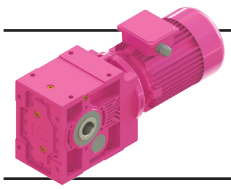


71
Tip / *Type* / Typ



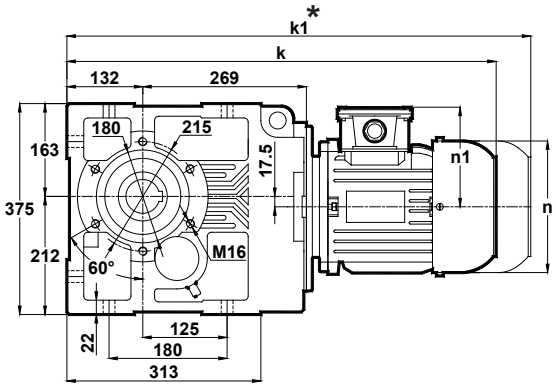
63
Tip / *Type* / Typ

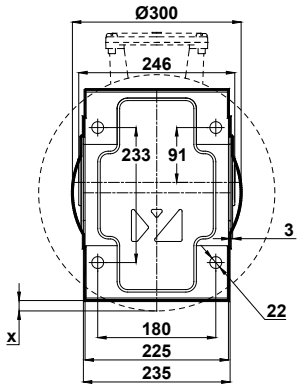
*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



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

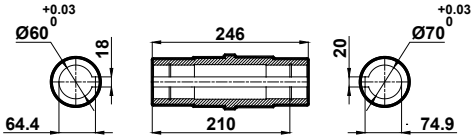
KR573.00





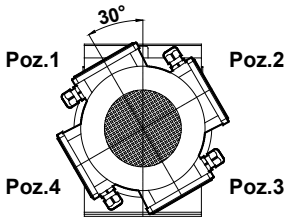
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

Std. **Ops.**



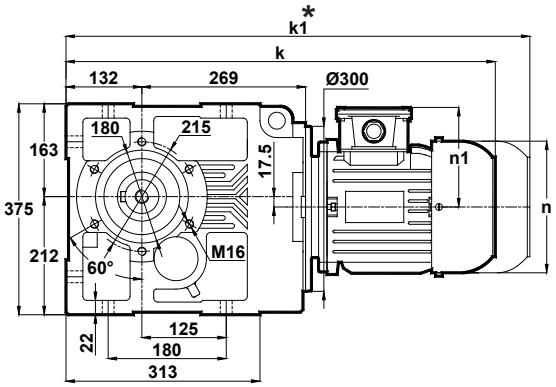
	100L	112M	132S	132M	160M	160L	180M	180L
k	711.5	734.5	788.5	826.5	901.5	945.5	962	1000
k1	846.5	869.5	933.5	971.5	1071.5	1115.5	1132	1170
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

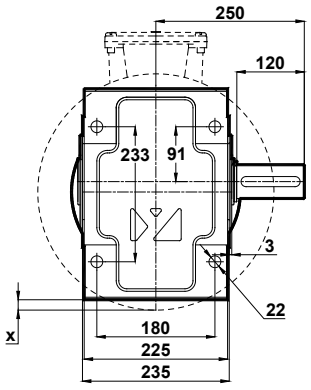
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

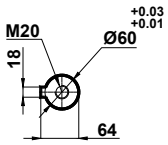


100-112-132-160-180
Tip / *Type* / Typ

KR573.01



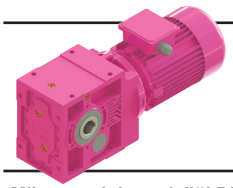




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	100L	112M	132S	132M	160M	160L	180M	180L
k	711.5	734.5	788.5	826.5	901.5	945.5	962	1000
k1	846.5	869.5	933.5	971.5	1071.5	1115.5	1132	1170
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

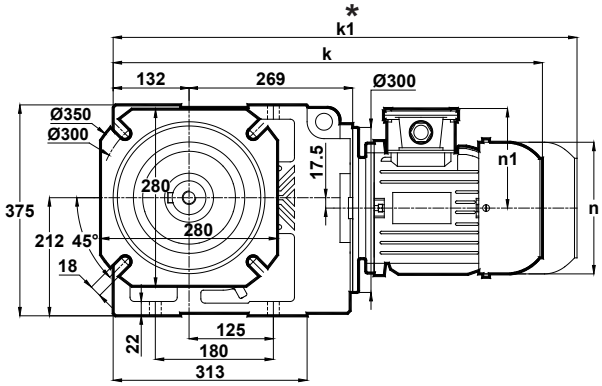
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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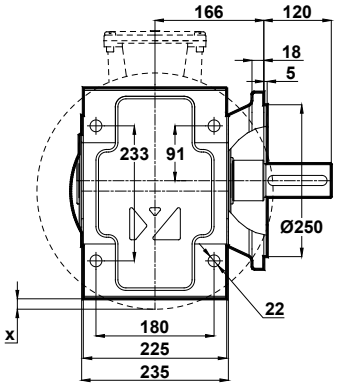


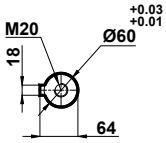
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-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



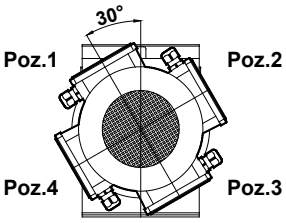




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

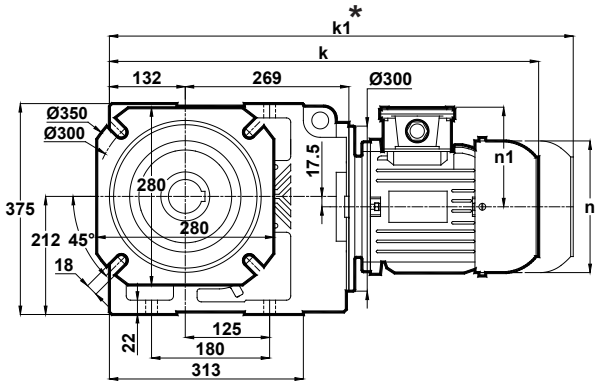
	100L	112M	132S	132M	160M	160L	180M	180L
k	711.5	734.5	788.5	826.5	901.5	945.5	962	1000
k1	846.5	869.5	933.5	971.5	1071.5	1115.5	1132	1170
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

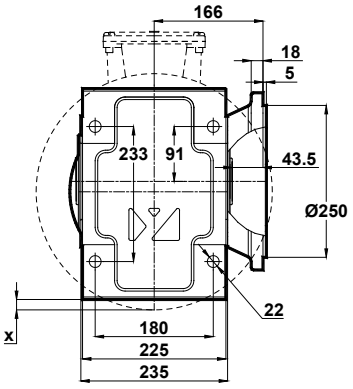
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



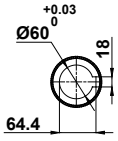
100-112-132-160-180
Tip / *Type* / Typ

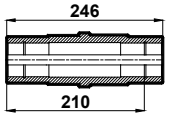
KR573.03



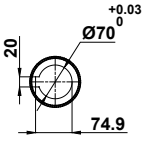


Std.





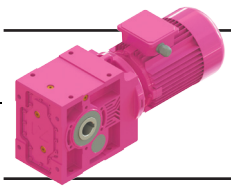
Ops.



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

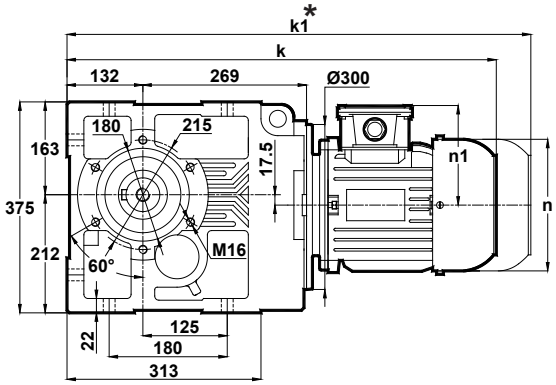
	100L	112M	132S	132M	160M	160L	180M	180L
k	711.5	734.5	788.5	826.5	901.5	945.5	962	1000
k1	846.5	869.5	933.5	971.5	1071.5	1115.5	1132	1170
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

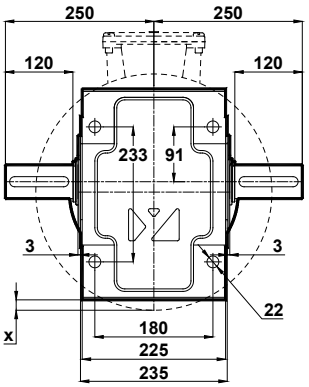
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



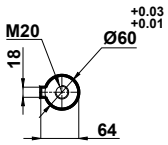
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR573.04

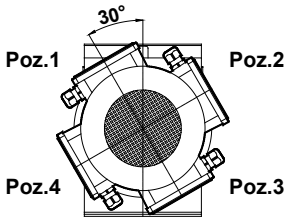




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte



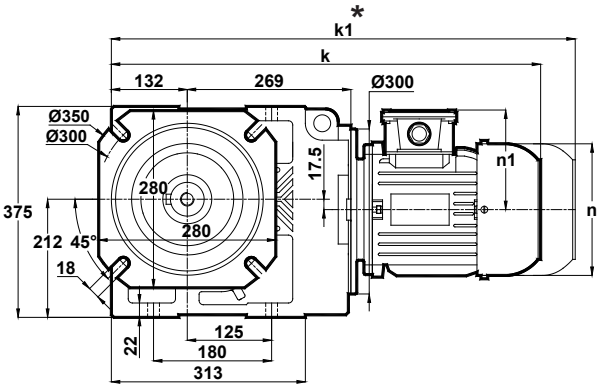
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

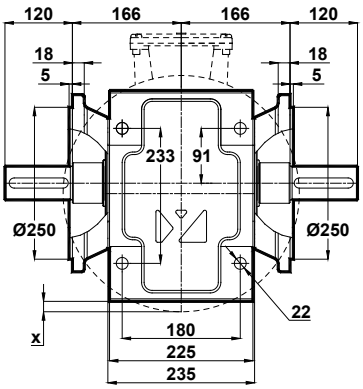


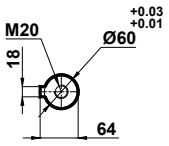
100-112-132-160-180
Tip / *Type* / Typ

	100L	112M	132S	132M	160M	160L	180M	180L
k	711.5	734.5	788.5	826.5	901.5	945.5	962	1000
k1	846.5	869.5	933.5	971.5	1071.5	1115.5	1132	1170
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

KR573.05



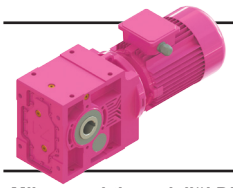




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	100L	112M	132S	132M	160M	160L	180M	180L
k	711.5	734.5	788.5	826.5	901.5	945.5	962	1000
k1	846.5	869.5	933.5	971.5	1071.5	1115.5	1132	1170
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

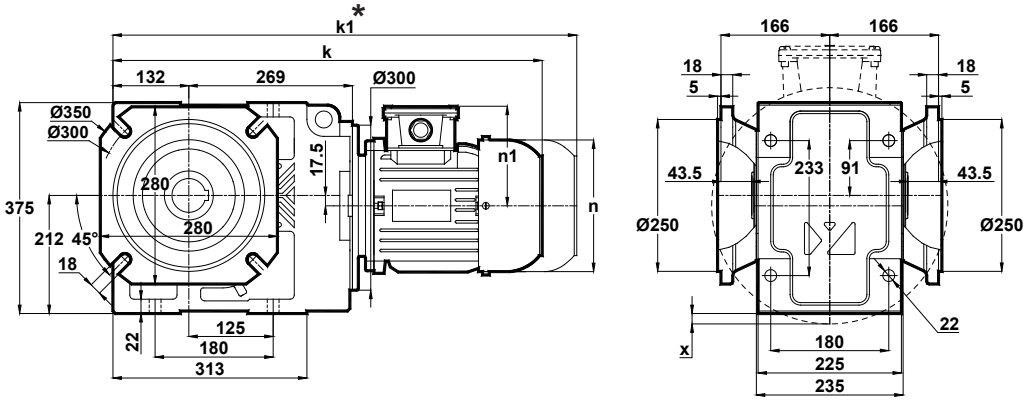
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



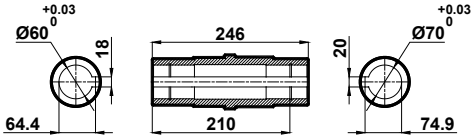
Ölçü Sayfaları
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR573.08



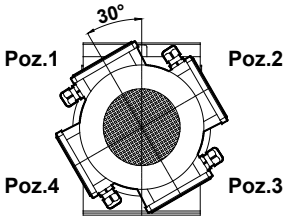
Std. **Ops.**



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

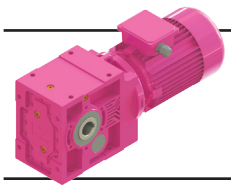
	100L	112M	132S	132M	160M	160L	180M	180L
k	711.5	734.5	788.5	826.5	901.5	945.5	962	1000
k1	846.5	869.5	933.5	971.5	1071.5	1115.5	1132	1170
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



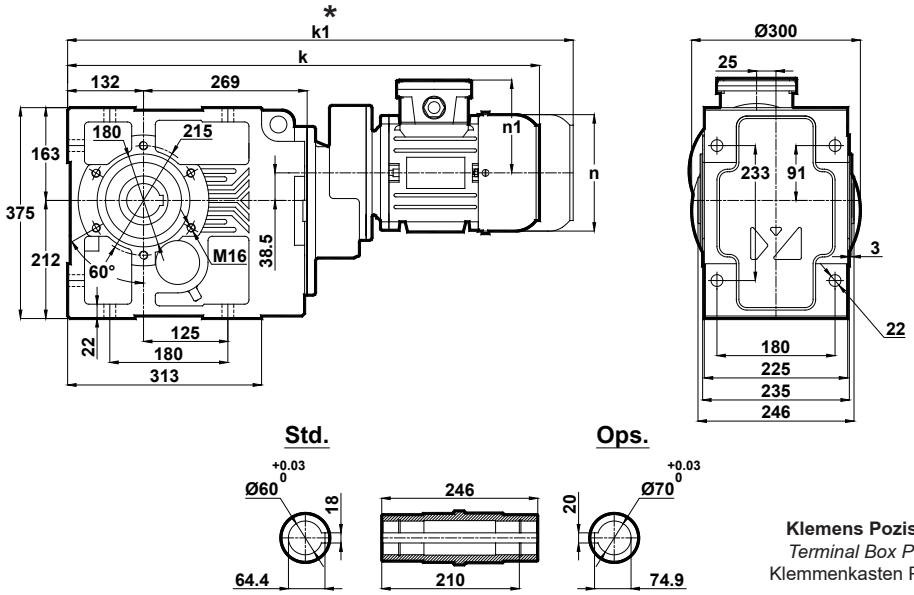
100-112-132-160-180
Tip / *Type* / Typ

*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
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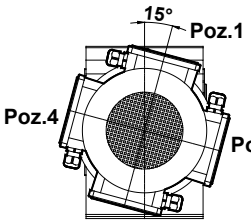
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR574.00

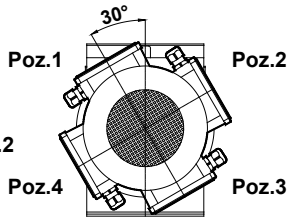


Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

	71	80	90S	90L	100L
k	690	718	747	772	812
k1	810	838	872	897	947
n	138	156	176	176	194
n1	110	118	126	126	135

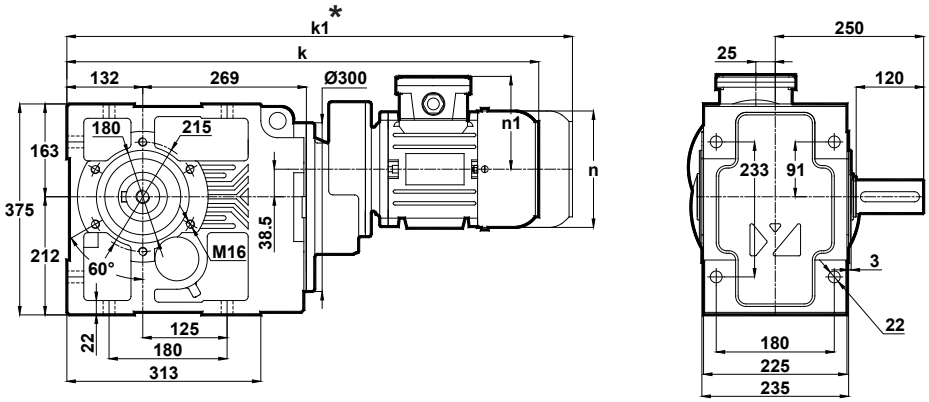


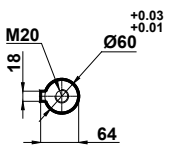
80-90
Tip / *Type* / Typ



71-100
Tip / *Type* / Typ

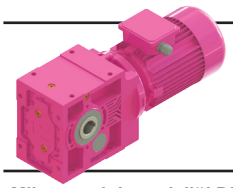
KR574.01





	71	80	90S	90L	100L
k	690	718	747	772	812
k1	810	838	872	897	947
n	138	156	176	176	194
n1	110	118	126	126	135

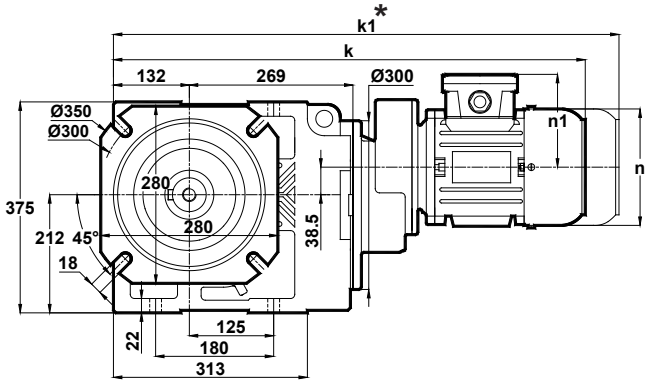
*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
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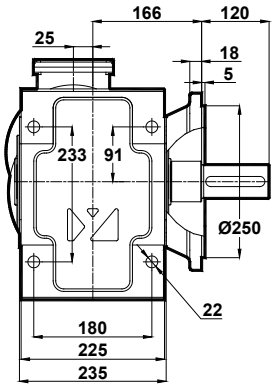


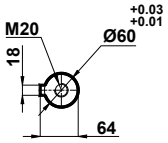
Ölçü Sayfaları
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR574.02

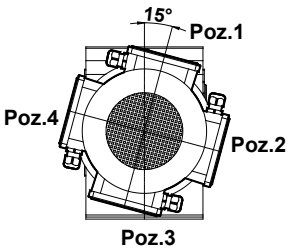




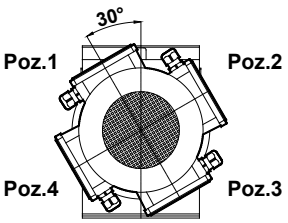


	71	80	90S	90L	100L
k	690	718	747	772	812
k1	810	838	872	897	947
n	138	156	176	176	194
n1	110	118	126	126	135

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

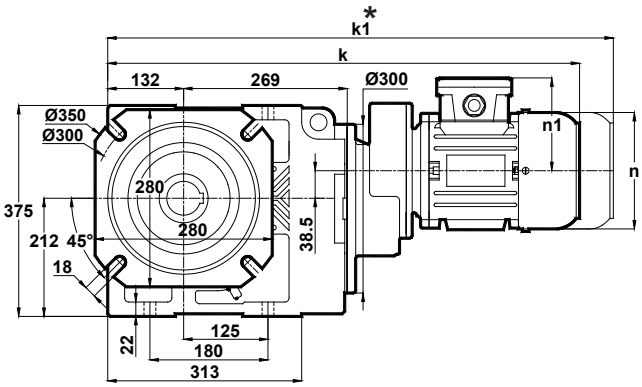


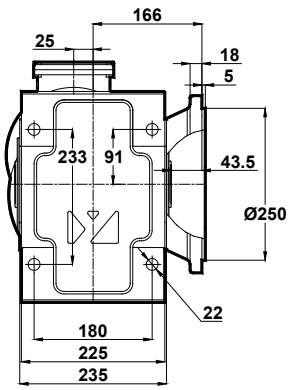
80-90
Tip / *Type* / Typ



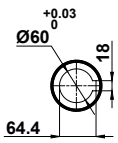
71-100
Tip / *Type* / Typ

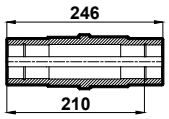
KR574.03



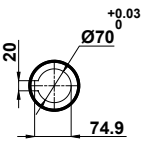


Std.



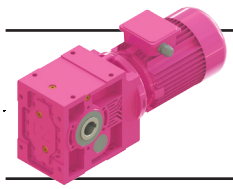


Ops.



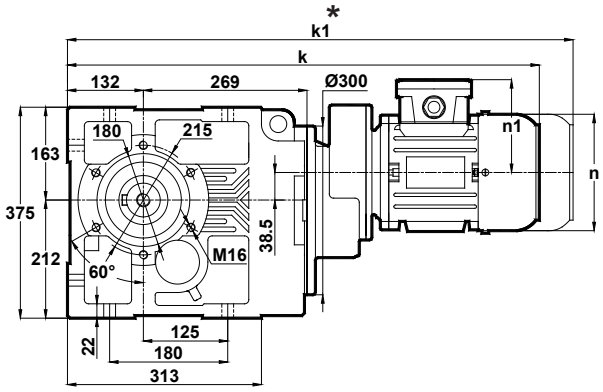
	71	80	90S	90L	100L
k	690	718	747	772	812
k1	810	838	872	897	947
n	138	156	176	176	194
n1	110	118	126	126	135

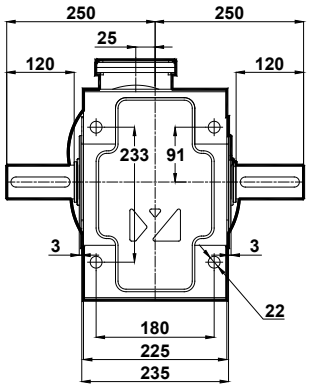
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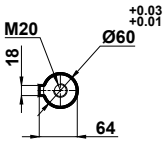


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR574.04

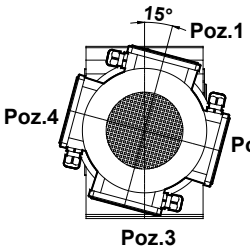




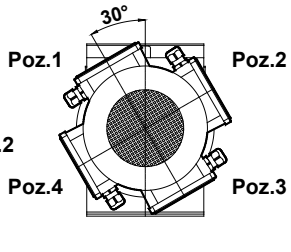


	71	80	90S	90L	100L
k	690	718	747	772	812
k1	810	838	872	897	947
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n1	110	118	126	126	135

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

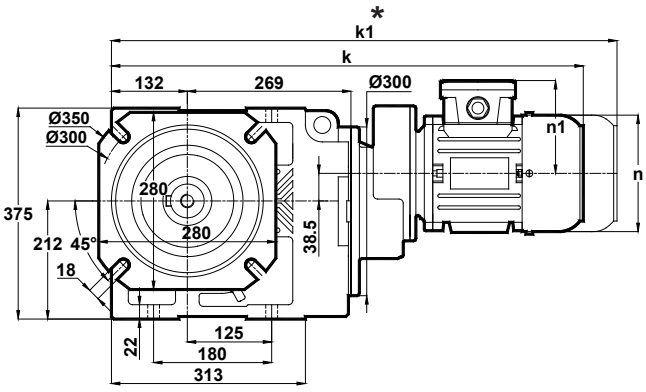


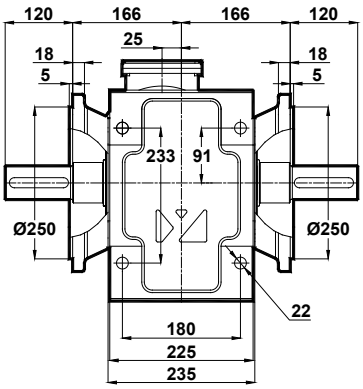
80-90
Tip / *Type* / Typ

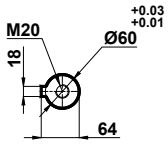


71-100
Tip / *Type* / Typ

KR574.05







	71	80	90S	90L	100L
k	690	718	747	772	812
k1	810	838	872	897	947
n	138	156	176	176	194
n1	110	118	126	126	135

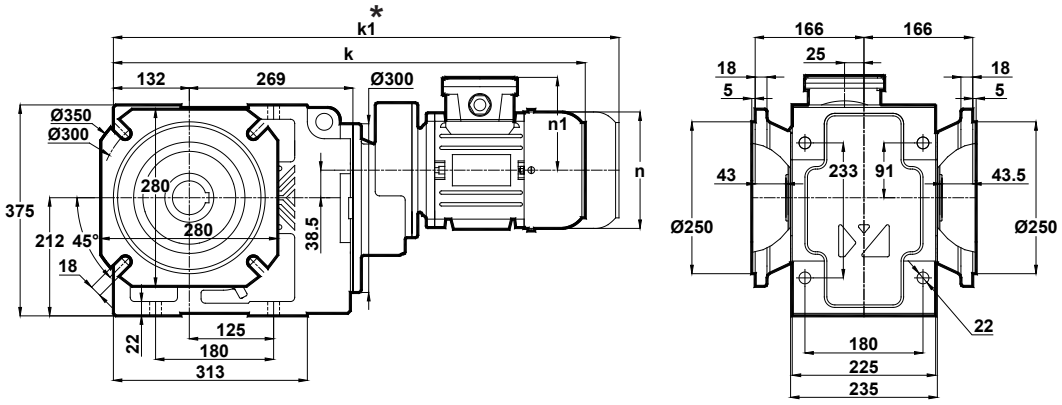
*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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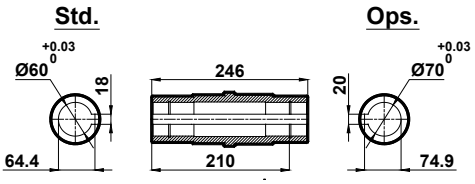


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

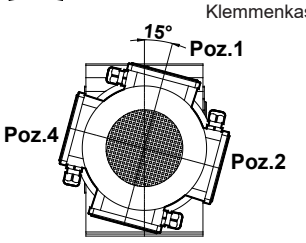
KR574.08



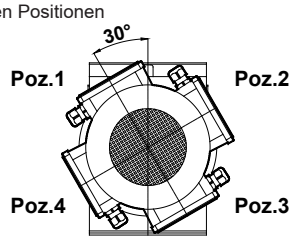


	71	80	90S	90L	100L
k	690	718	747	772	812
k1	810	838	872	897	947
n	138	156	176	176	194
n1	110	118	126	126	135

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

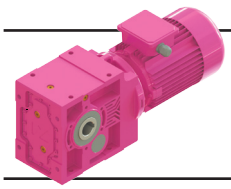


80-90
Tip / *Type* / Typ



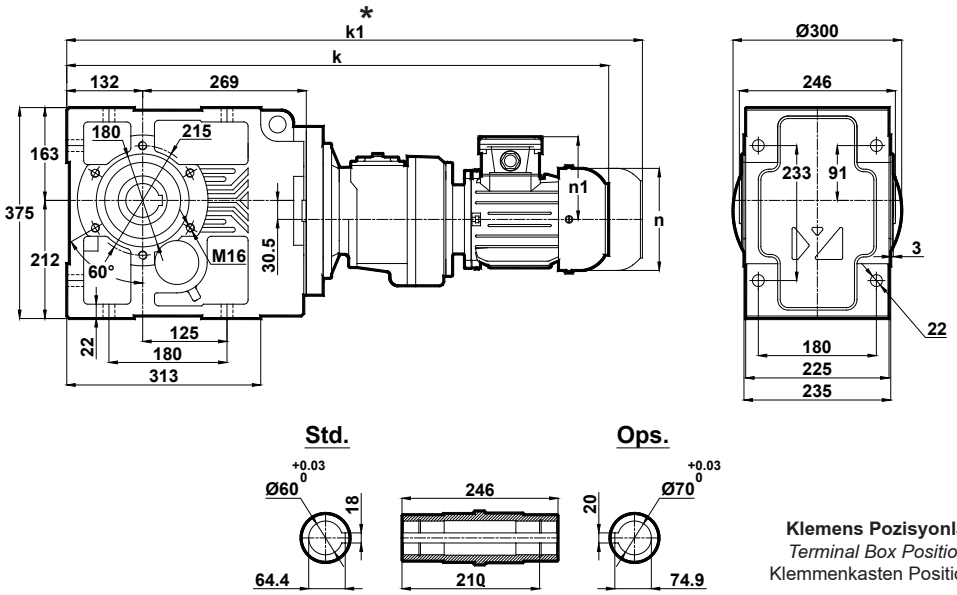
71-100
Tip / *Type* / Typ

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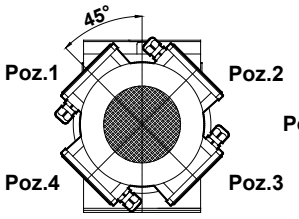
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR575.00
KR576.00

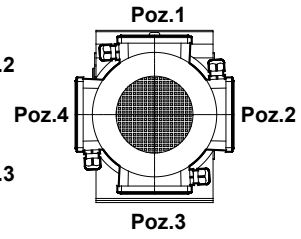


Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

	63	71	80
k	803	822	850
k1	-	942	970
n	116	138	156
n1	97	110	118

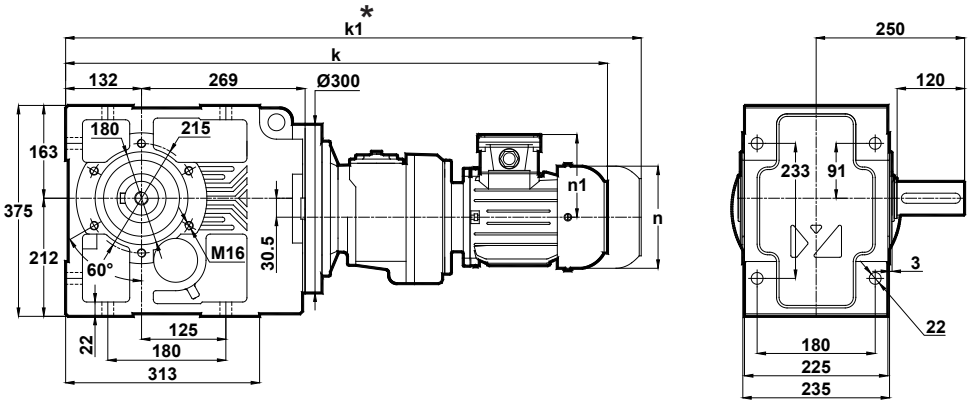


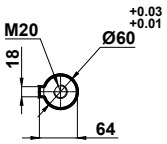
71
Tip / *Type* / Typ



63-80
Tip / *Type* / Typ

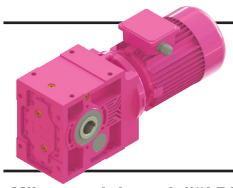
KR575.01
KR576.01





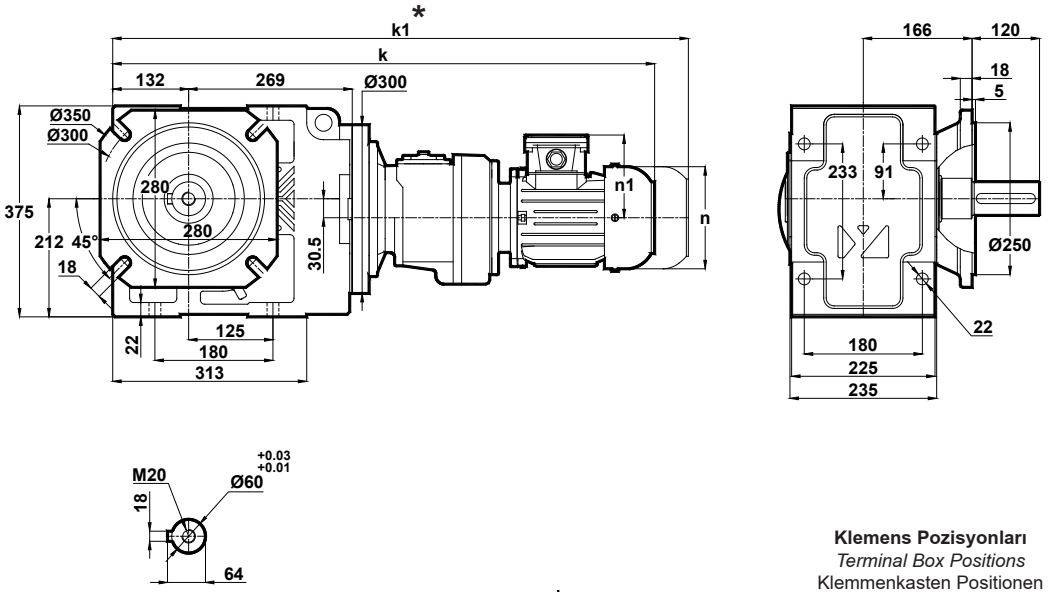
	63	71	80
k	803	822	850
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n	116	138	156
n1	97	110	118

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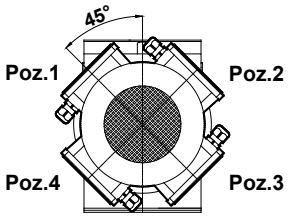
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR575.02
KR576.02

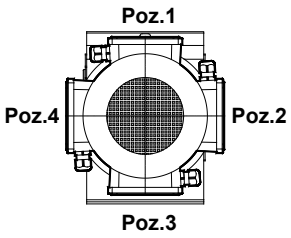


	63	71	80
k	803	822	850
k1	-	942	970
n	116	138	156
n1	97	110	118

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

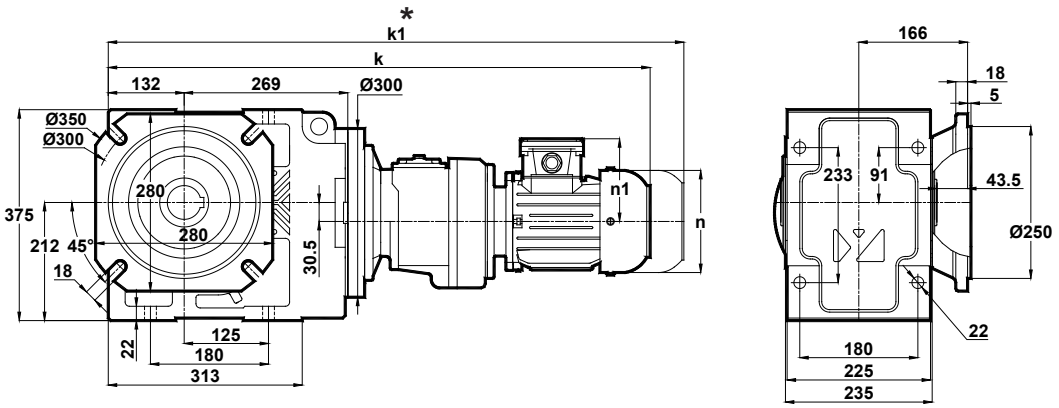


71
Tip / *Type* / Typ

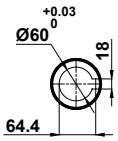


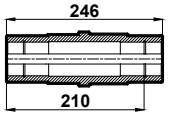
63-80
Tip / *Type* / Typ

KR575.03
KR576.03

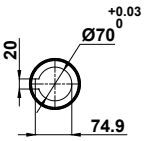


Std.



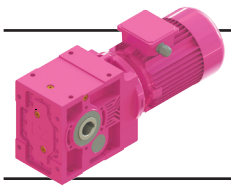


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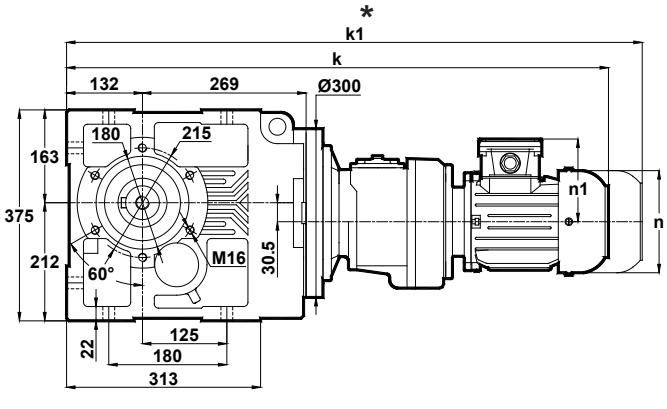
	63	71	80
k	803	822	850
k1	-	942	970
n	116	138	156
n1	97	110	118

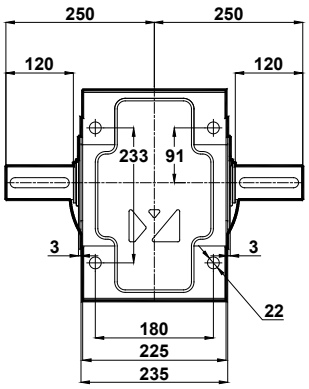
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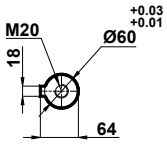


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR575.04
KR576.04

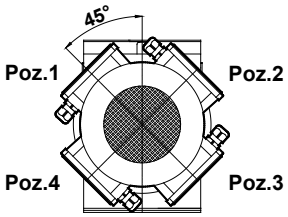




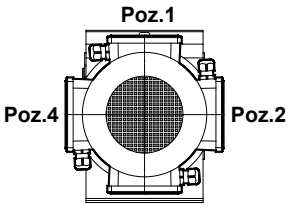


	63	71	80
k	803	822	850
k1	-	942	970
n	116	138	156
n1	97	110	118

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

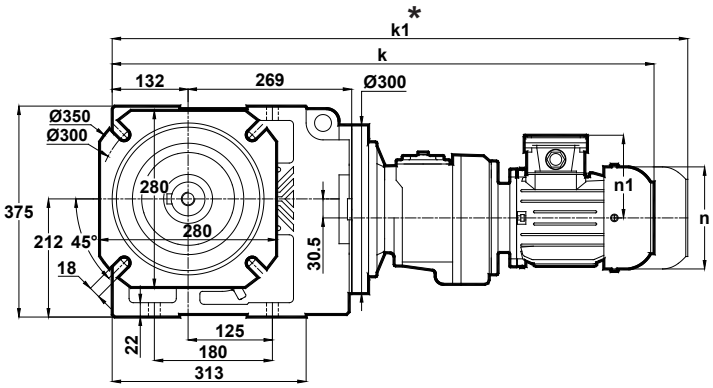


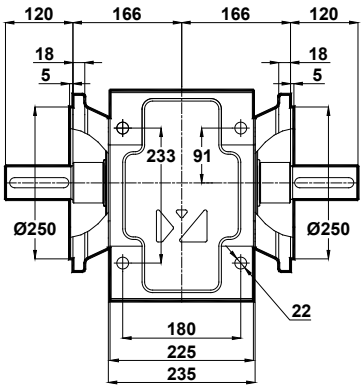
71
Tip / *Type* / Typ

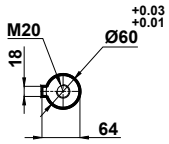


63-80
Tip / *Type* / Typ

KR575.05
KR576.05







	63	71	80
k	803	821.5	850
k1	-	941.5	970
n	116	138	156
n1	97	110	118

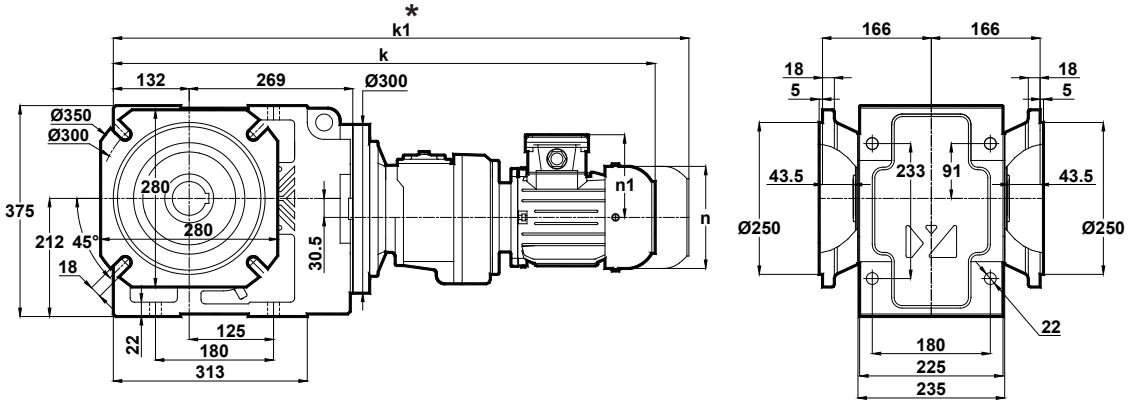
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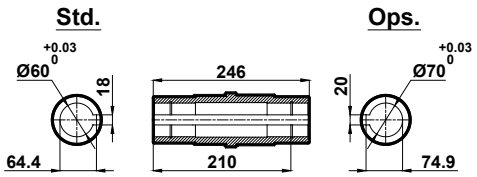


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

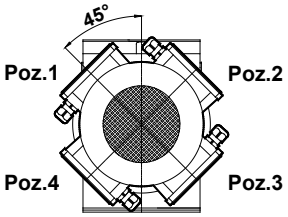
KR575.08
KR576.08



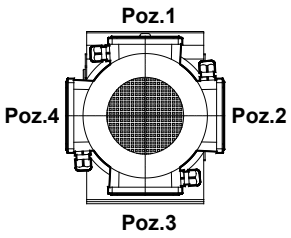


	63	71	80
k	803	821.5	850
k1	-	941.5	970
n	116	138	156
n1	97	110	118

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

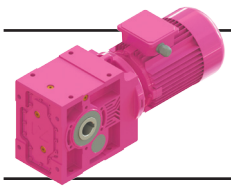


71
Tip / *Type* / Typ



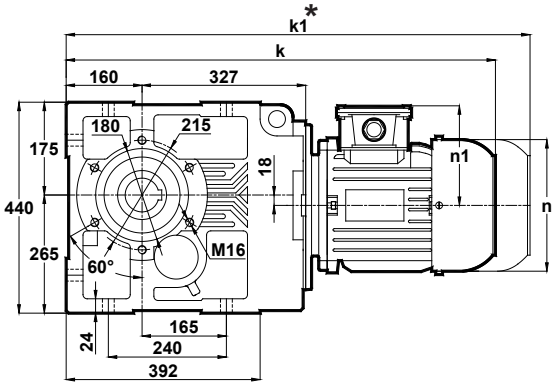
63-80
Tip / *Type* / Typ

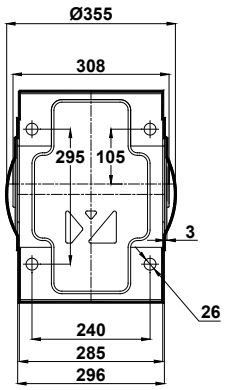
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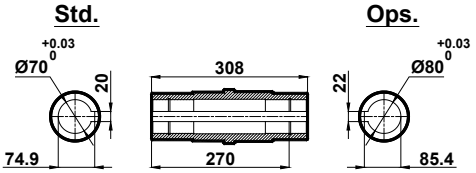


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR673.00

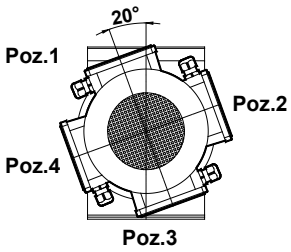






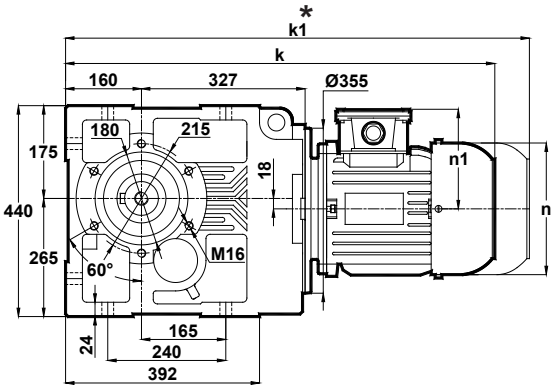
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	790	813	867	905	979	1023	1037	1075	1117	1143	1168
k1	839	948	1012	1050	1149	1193	1207	1245	1317	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

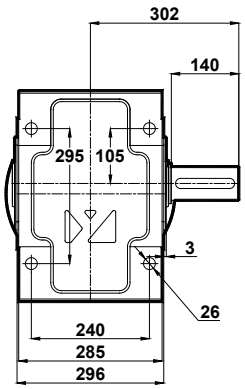
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

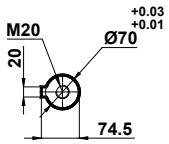


100-112-132-160-180-200-225
Tip / *Type* / Typ

KR673.01

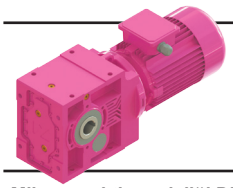






	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	790	813	867	905	979	1023	1037	1075	1117	1143	1168
k1	839	948	1012	1050	1149	1193	1207	1245	1317	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

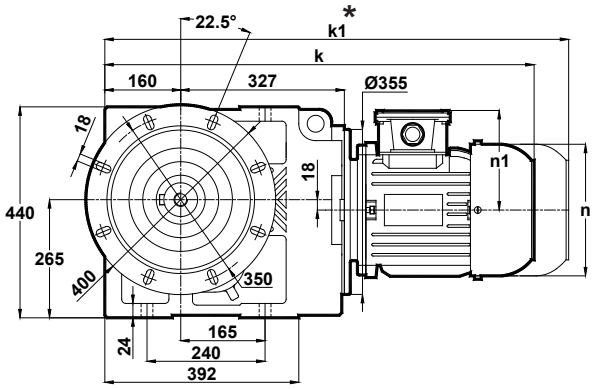
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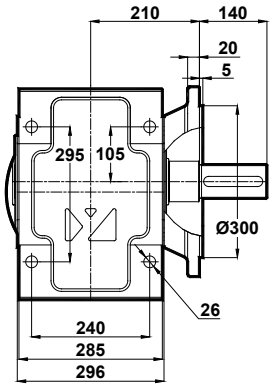


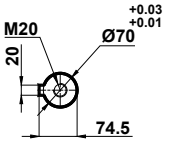
Ölçü Sayfaları
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR673.02

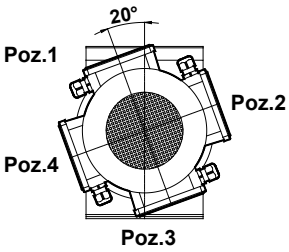






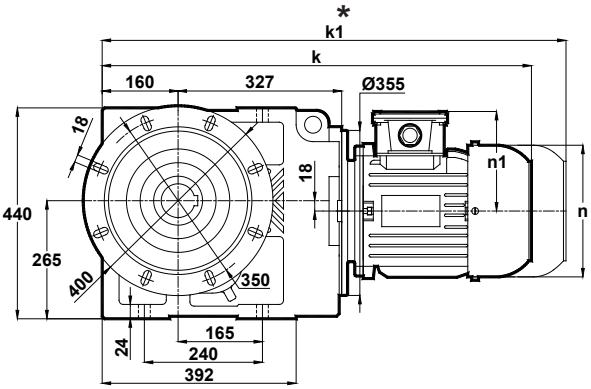
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	790	813	867	905	979	1023	1037	1075	1117	1143	1168
k1	839	948	1012	1050	1149	1193	1207	1245	1317	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

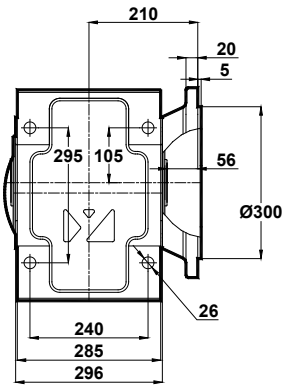
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



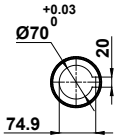
100-112-132-160-180-200-225
Tip / *Type* / Typ

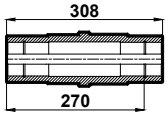
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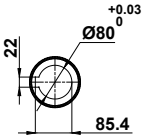


Std.



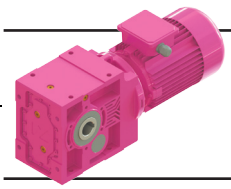


Ops.



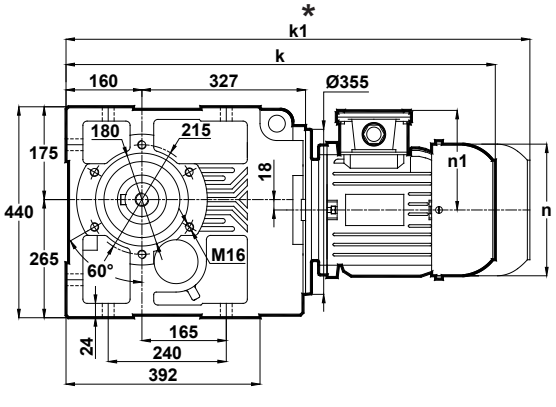
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	790	813	867	905	979	1023	1037	1075	1117	1143	1168
k1	839	948	1012	1050	1149	1193	1207	1245	1317	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

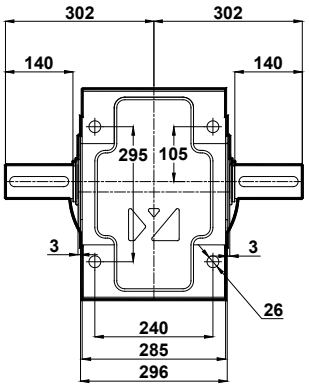
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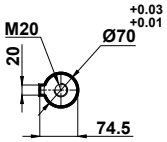


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

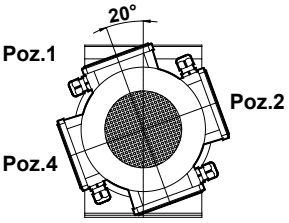
KR673.04







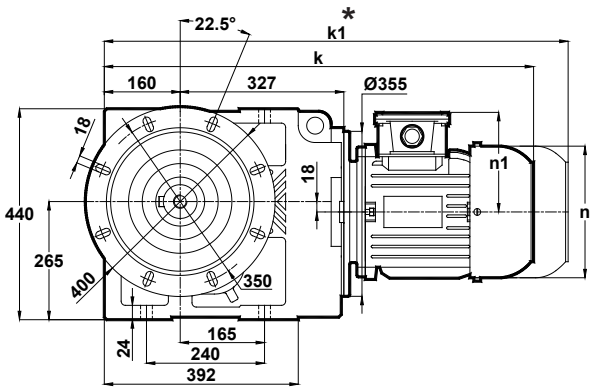
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

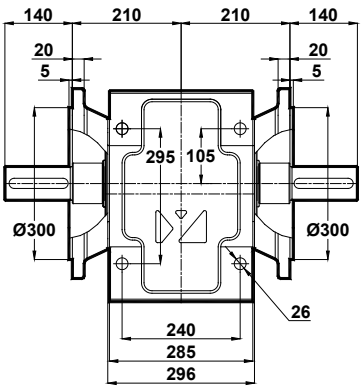


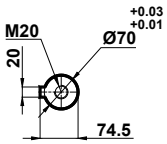
100-112-132-160-180-200-225
Tip / *Type* / Typ

	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	790	813	867	905	979	1023	1037	1075	1117	1143	1168
k1	839	948	1012	1050	1149	1193	1207	1245	1317	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

KR673.05







	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	790	813	867	905	979	1023	1037	1075	1117	1143	1168
k1	839	948	1012	1050	1149	1193	1207	1245	1317	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

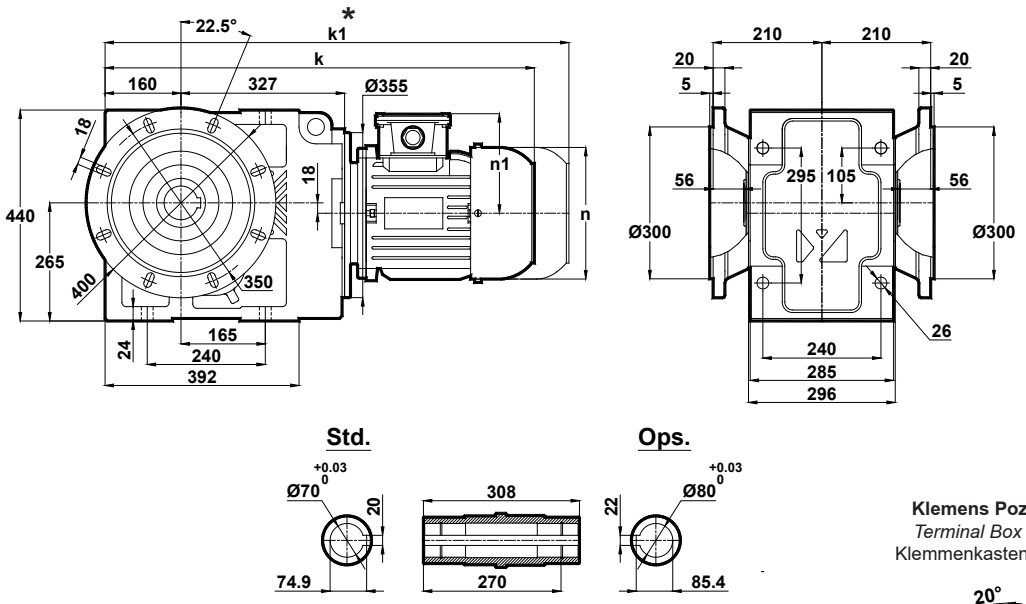
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Ölçü Sayfaları
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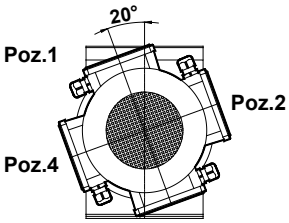
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR673.08



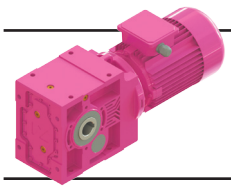
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	790	813	867	905	979	1023	1037	1075	1117	1143	1168
k1	839	948	1012	1050	1149	1193	1207	1245	1317	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



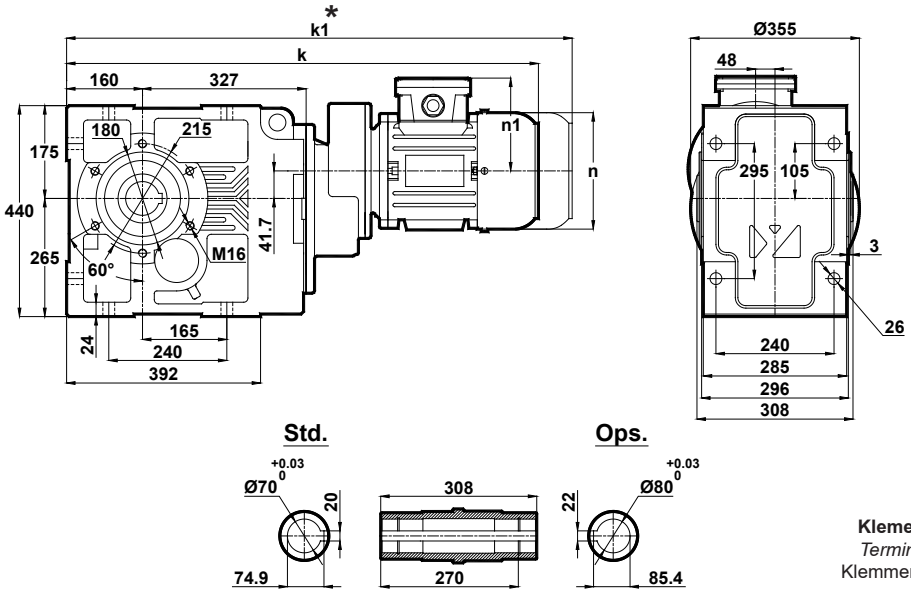
100-112-132-160-180-200-225
Tip / *Type* / Typ

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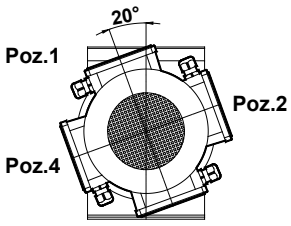
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KR674.00



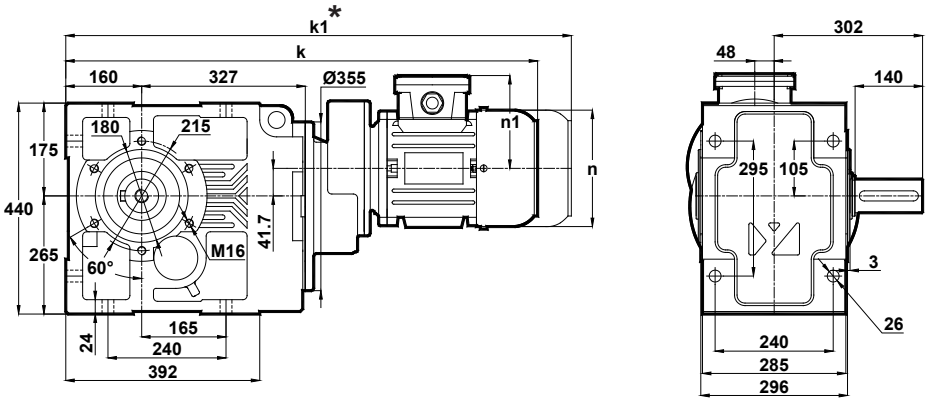
	80	90S	90L	100L
k	815	843	868	906
k1	935	968	993	1041
n	156	176	176	194
n1	118	126	126	135

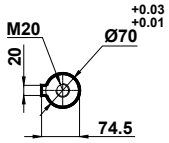
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



80-90-100
Tip / *Type* / Typ

KR674.01





	80	90S	90L	100L
k	815	843	868	906
k1	935	968	993	1041
n	156	176	176	194
n1	118	126	126	135

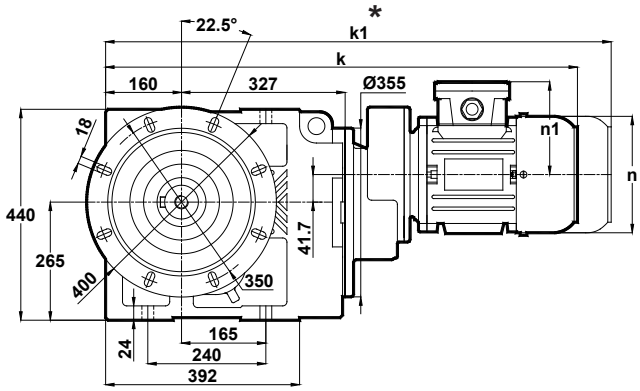
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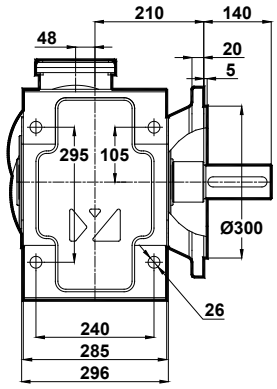


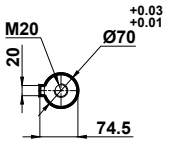
Ölçü Sayfaları
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR674.02

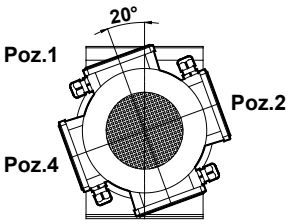






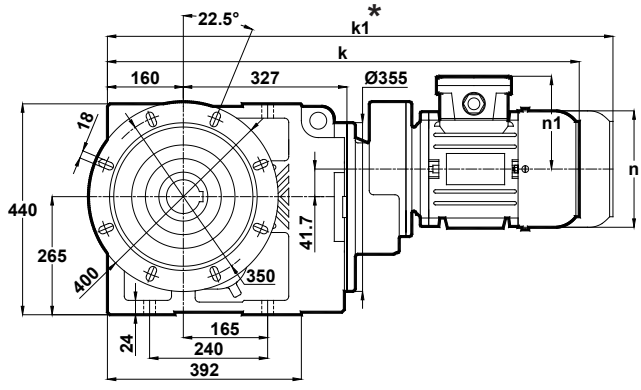
	80	90S	90L	100L
k	815	843	868	906
k1	935	968	993	1041
n	156	176	176	194
n1	118	126	126	135

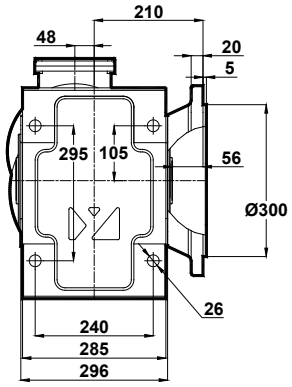
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



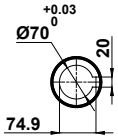
80-90-100
Tip / *Type* / Typ

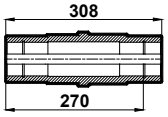
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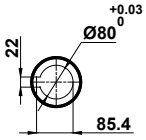


Std.



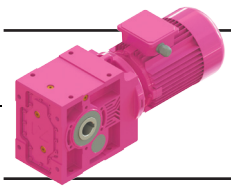


Ops.



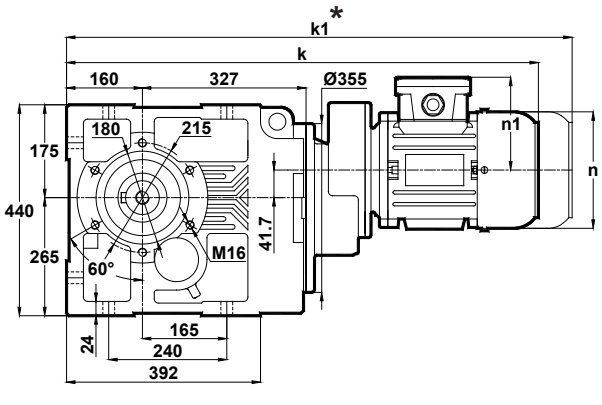
	80	90S	90L	100L
k	815	843	868	906
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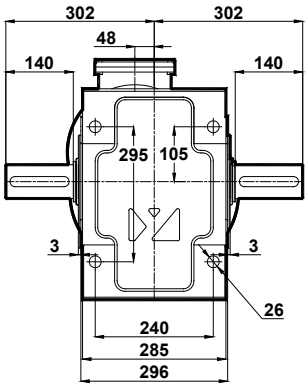
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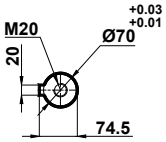


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR674.04

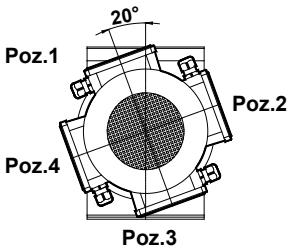






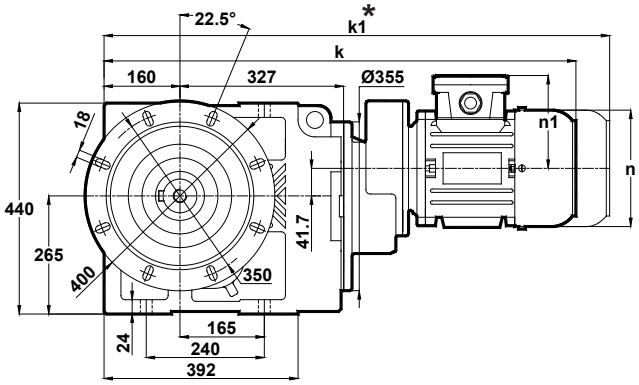
	80	90S	90L	100L
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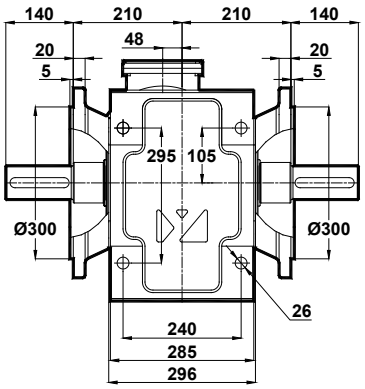
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

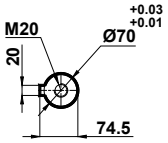


80-90-100
Tip / *Type* / Typ

KR674.05







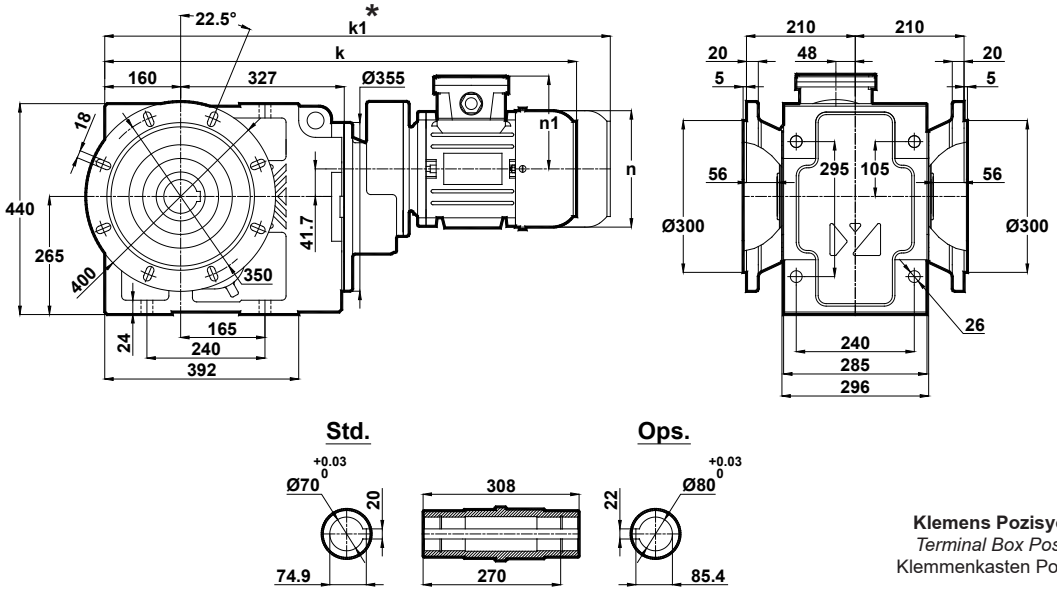
	80	90S	90L	100L
k	815	843	868	906
k1	935	968	993	1041
n	156	176	176	194
n1	118	126	126	135

* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
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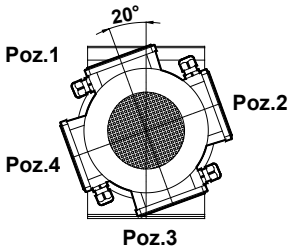
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR674.08



	80	90S	90L	100L
k	815	843	868	906
k1	935	968	993	1041
n	156	176	176	194
n1	118	126	126	135

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

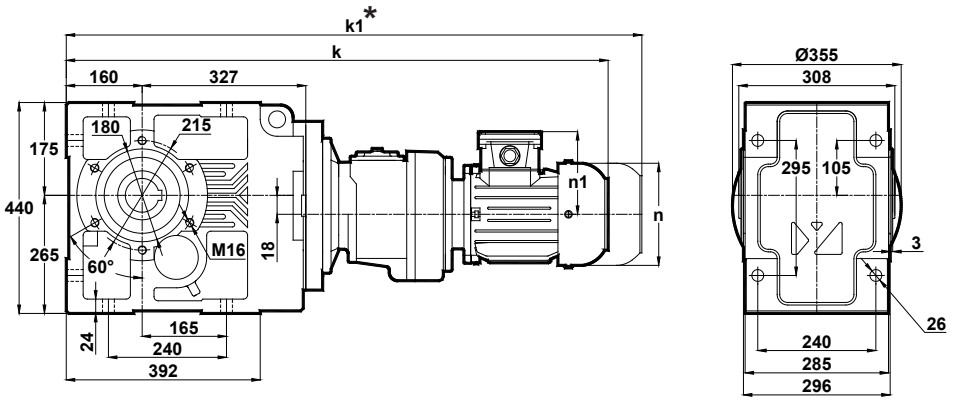


80-90-100
Tip / *Type* / Typ

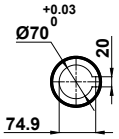
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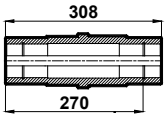
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR675.00
KR676.00

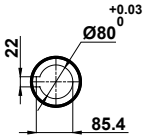


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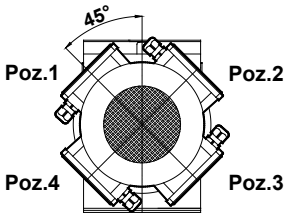


Ops.

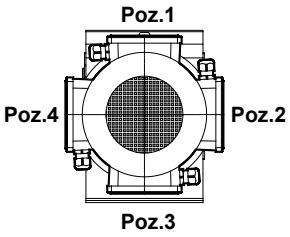


Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

	71	80	90S
k	933	961	990
k1	1053	1081	1115
n	138	156	176
n1	110	118	126

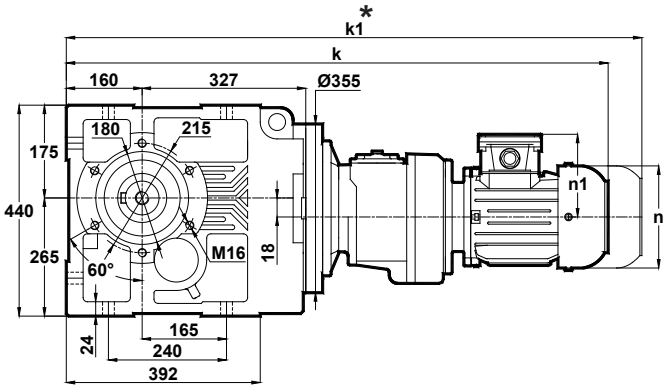


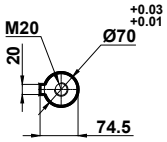
80-90
Tip / *Type* / Typ



71
Tip / *Type* / Typ

KR675.01
KR676.01





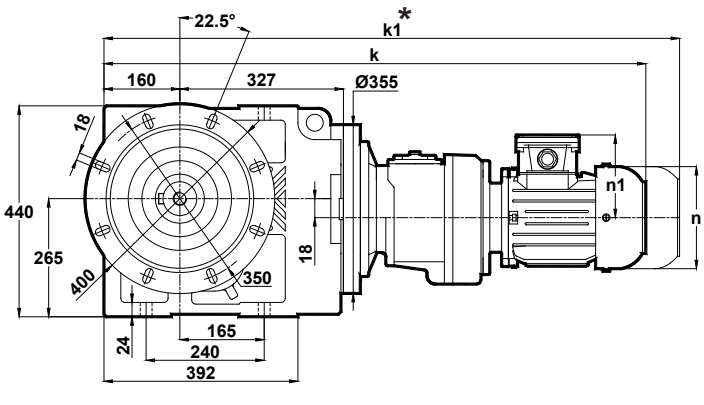
	71	80	90S
k	933	961	990
k1	1053	1081	1115
n	138	156	176
n1	110	118	126

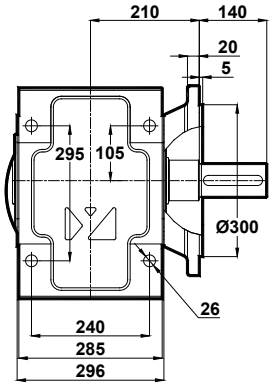
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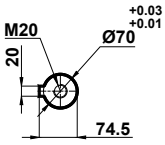


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR675.02
KR676.02

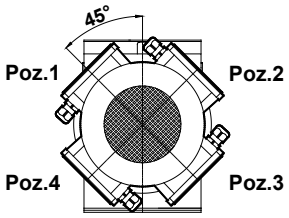




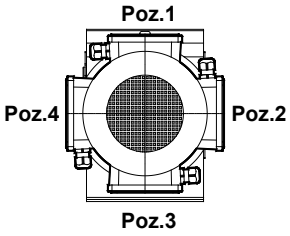


	71	80	90S
k	933	961	990
k1	1053	1081	1115
n	138	156	176
n1	110	118	126

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

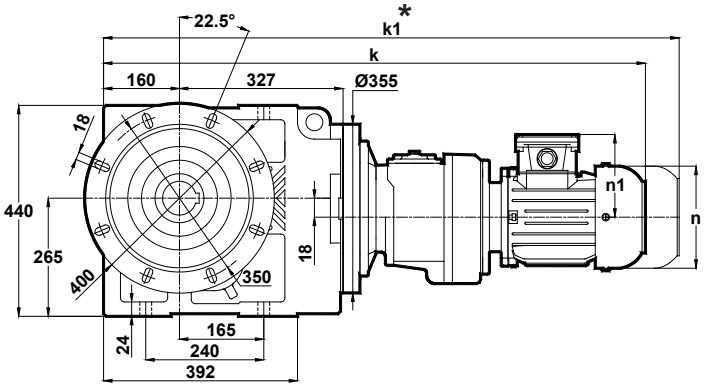


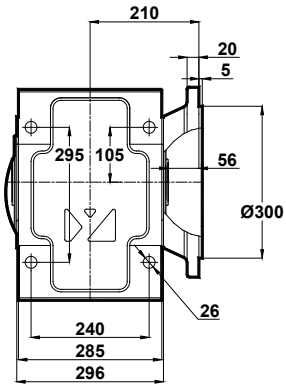
80-90
Tip / *Type* / Typ



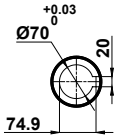
71
Tip / *Type* / Typ

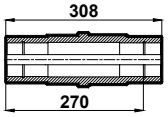
KR675.03
KR676.03



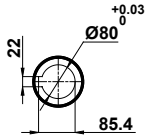


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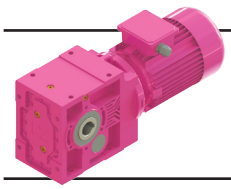


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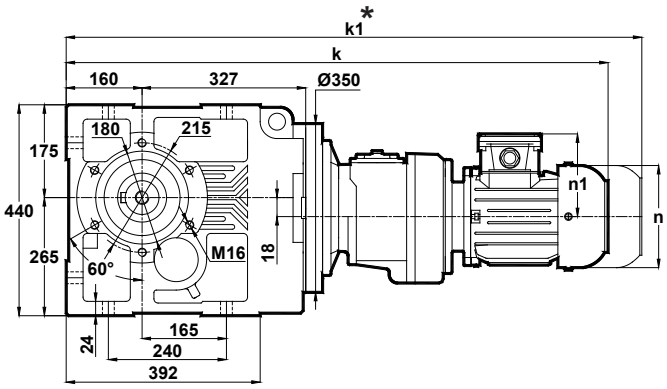
	71	80	90S
k	933	961	990
k1	1053	1081	1115
n	138	156	176
n1	110	118	126

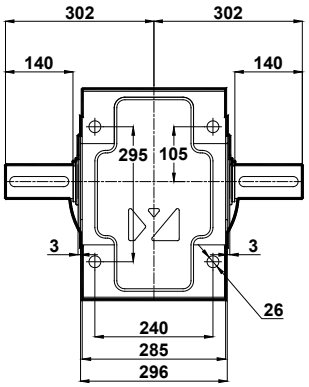
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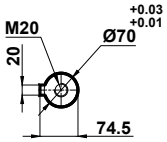


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR675.04
KR676.04

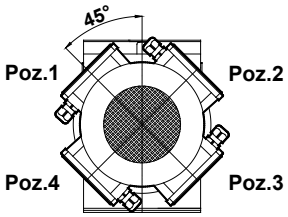




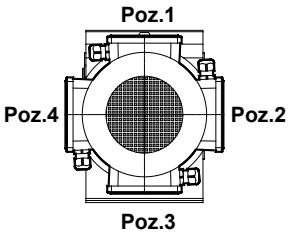


	71	80	90S
k	933	961	990
k1	1053	1081	1115
n	138	156	176
n1	110	118	126

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

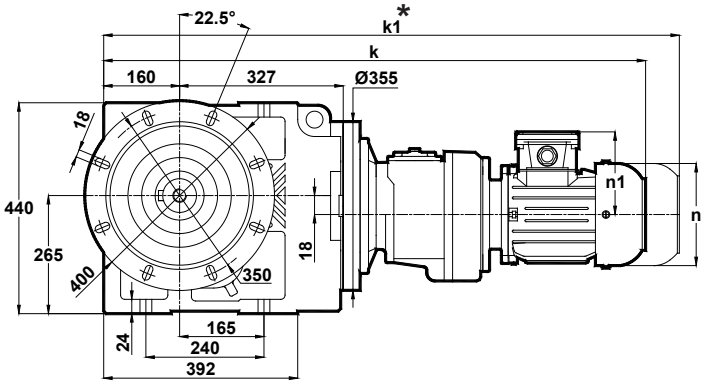


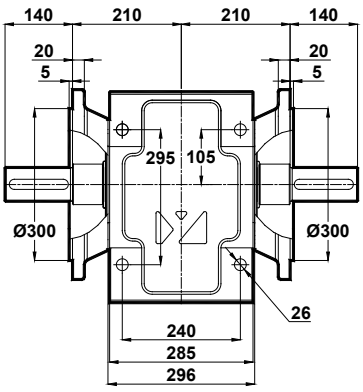
80-90
Tip / *Type* / Typ

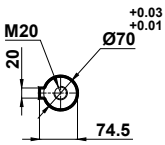


71
Tip / *Type* / Typ

KR675.05
KR676.05







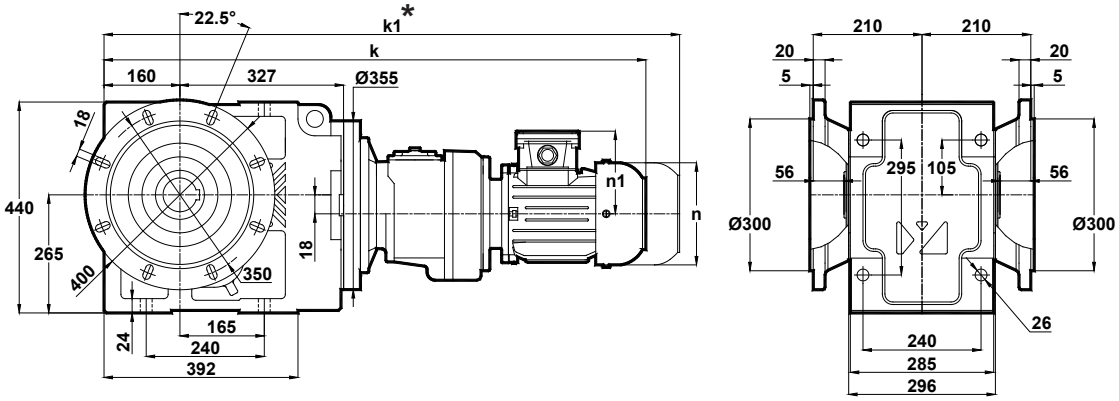
	71	80	90S
k	933	961	990
k1	1053	1081	1115
n	138	156	176
n1	110	118	126

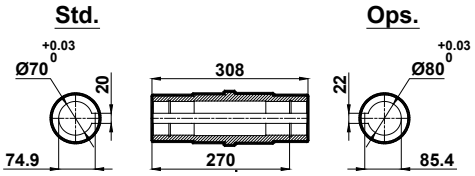
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

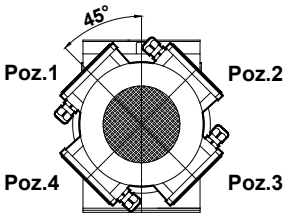
KR675.08
KR676.08



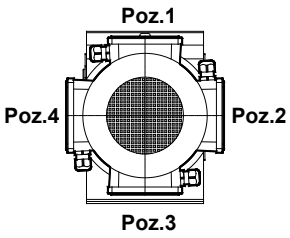


Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

	71	80	90S
k	933	961	990
k1	1053	1081	1115
n	138	156	176
n1	110	118	126

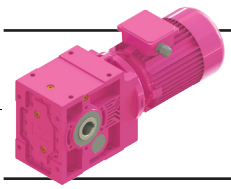


80-90
Tip / *Type* / Typ



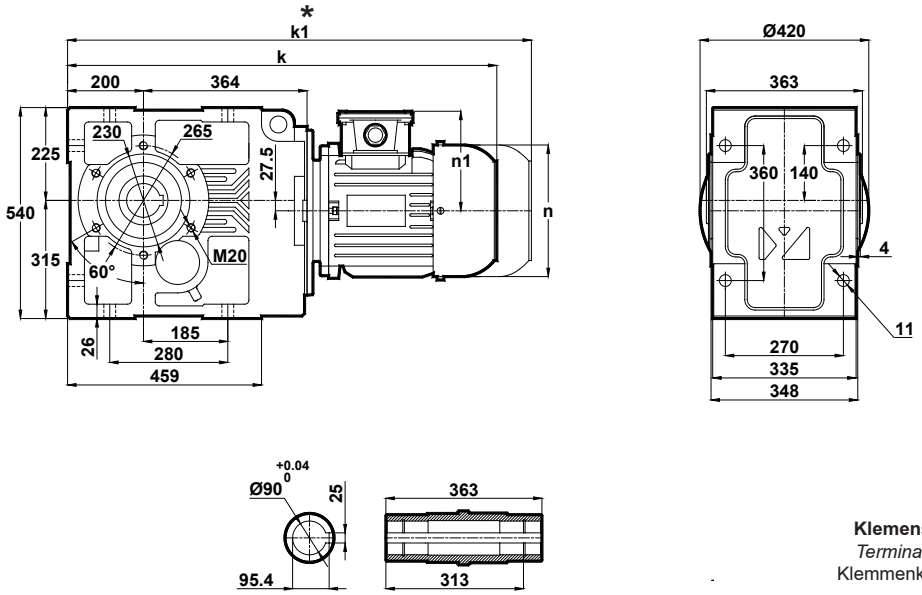
71
Tip / *Type* / Typ

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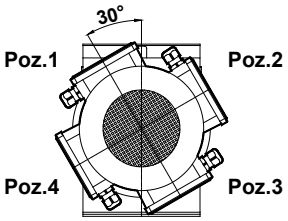
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR773.00



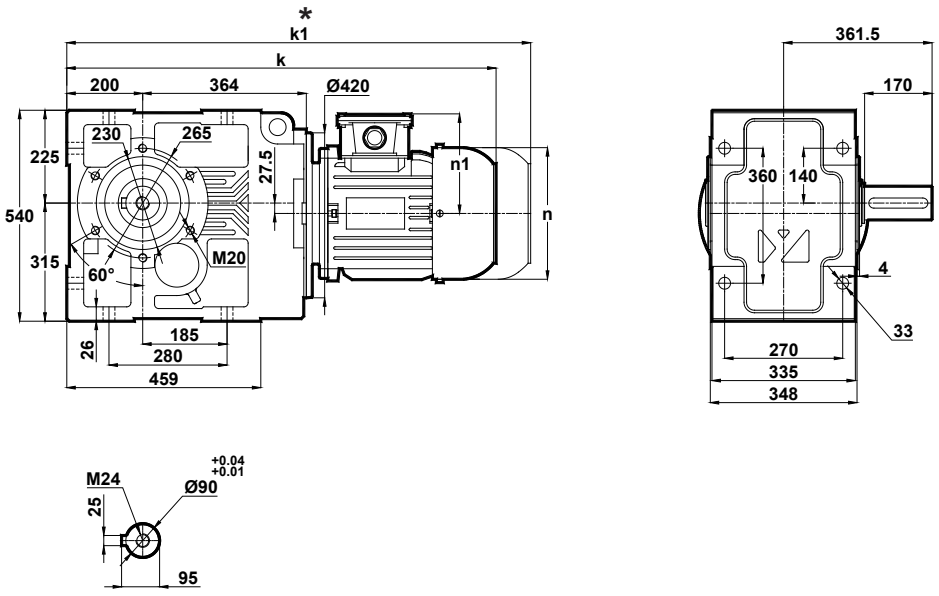
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	938	976	1052	1096	1113	1151	1190	1217	1242	1346
k1	1083	1121	1222	1266	1283	1321	1390	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



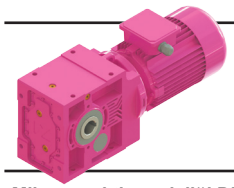
132-160-180-200-225-250
Tip / *Type* / Typ

KR773.01



	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	938	976	1052	1096	1113	1151	1190	1217	1242	1346
k1	1083	11521	1222	1266	1283	1321	1390	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

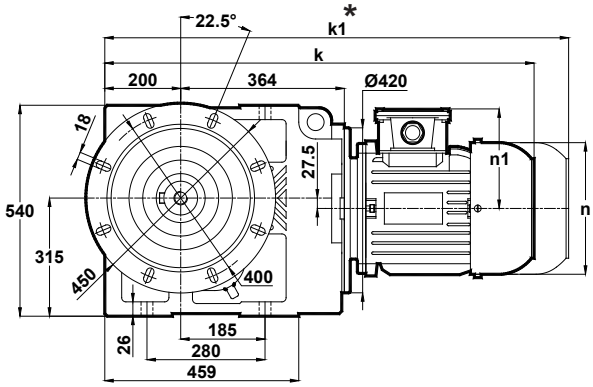
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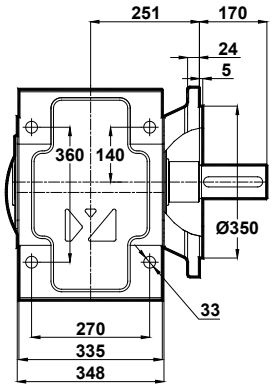


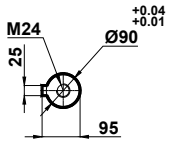
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

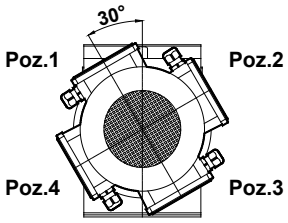
KR773.02







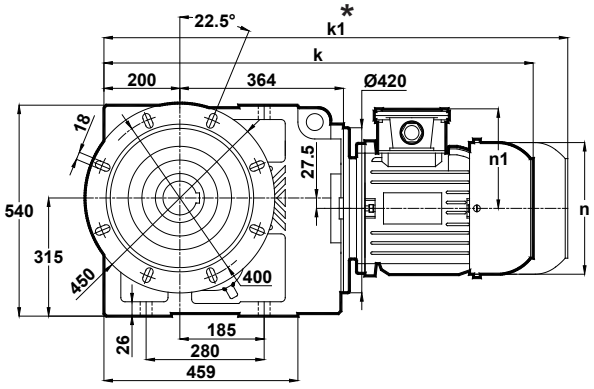
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

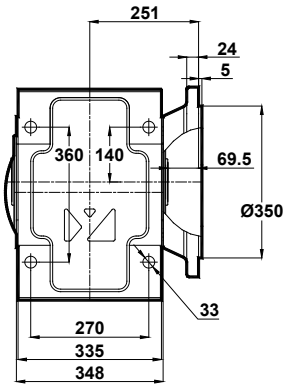


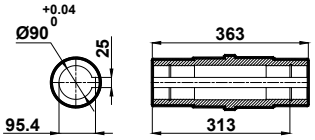
132-160-180-200-225-250
Tip / *Type* / Typ

	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	938	976	1052	1096	1113	1151	1190	1217	1242	1346
k1	1083	1121	1222	1266	1283	1321	1390	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

KR773.03

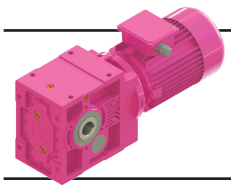






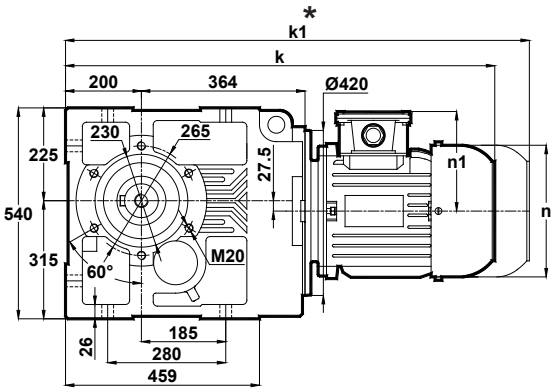
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	938	976	1052	1096	1113	1151	1190	1217	1242	1346
k1	1083	1121	1222	1266	1283	1321	1390	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

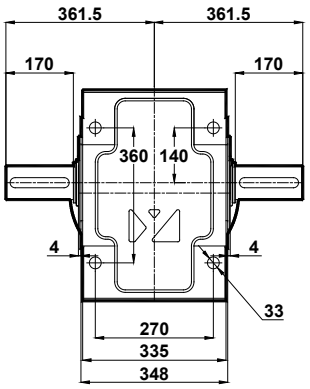
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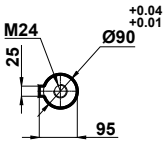


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

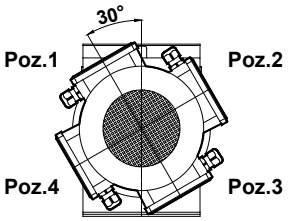
KR773.04







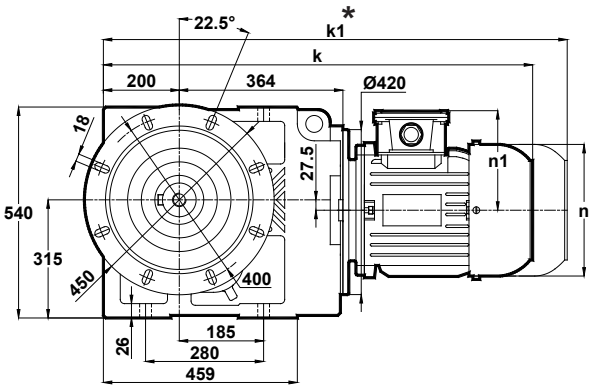
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

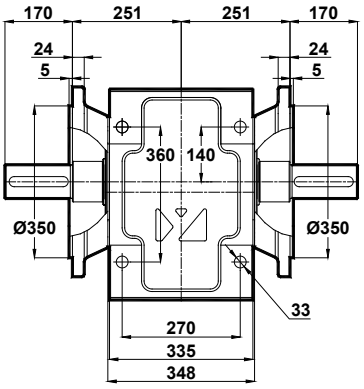


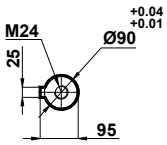
132-160-180-200-225-250
Tip / *Type* / Typ

	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	938	976	1052	1096	1113	1151	1190	1217	1242	1346
k1	1083	1121	1222	1266	1283	1321	1390	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

KR773.05







	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	938	976	1052	1096	1113	1151	1190	1217	1242	1346
k1	1083	1121	1222	1266	1283	1321	1390	-	-	-
n	258	258	310	310	348	348	390	433	433	480
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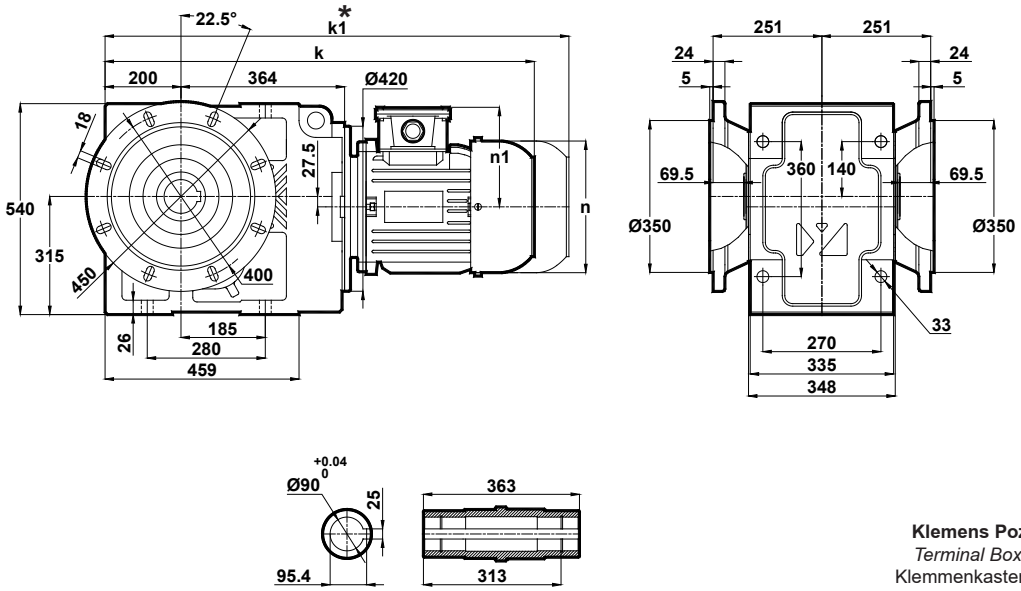
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Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

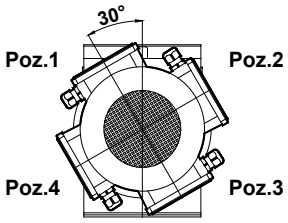
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR773.08



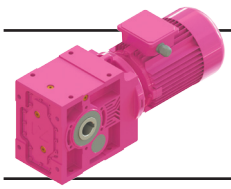
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	938	976	1052	1096	1113	1151	1190	1217	1242	1346
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n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



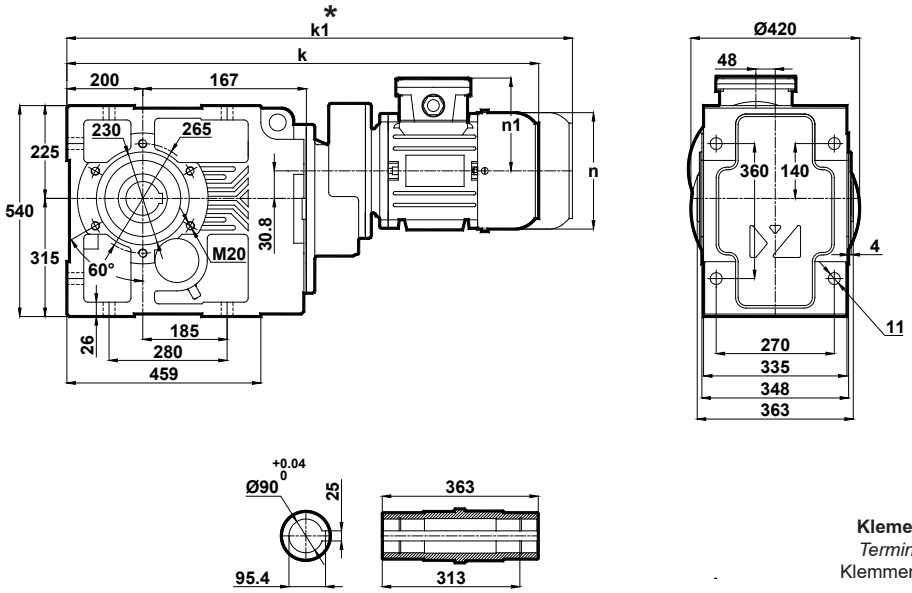
132-160-180-200-225-250
Tip / *Type* / Typ

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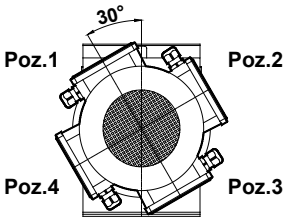
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KR774.00



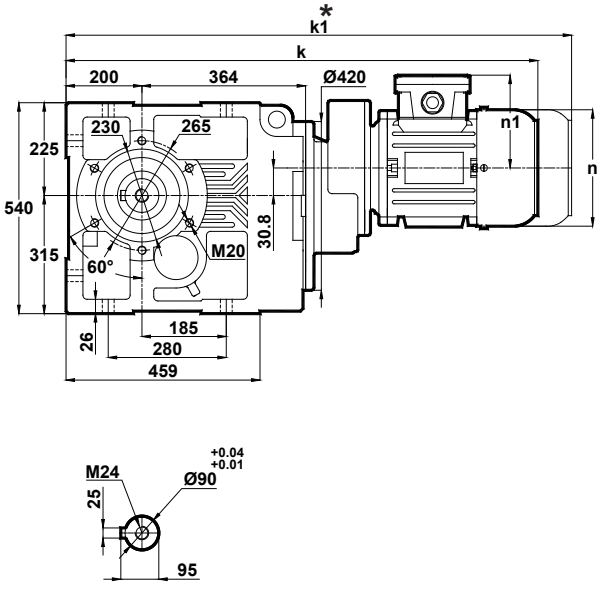
	90S	90L	100L	112M	132S	132M
k	908	945	971	1001	1046	1096
k1	1033	1070	1106	1136	1191	1241
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



90-100-112-132
Tip / *Type* / Typ

KR774.01

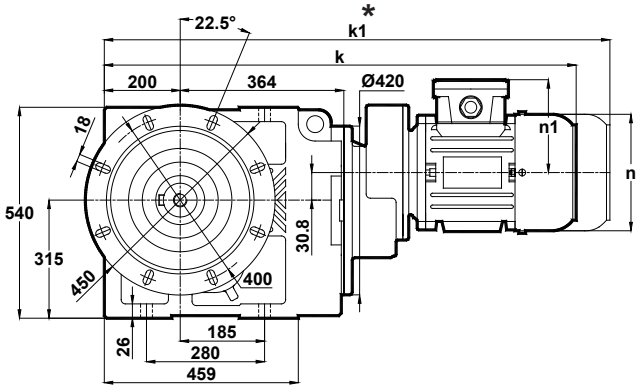


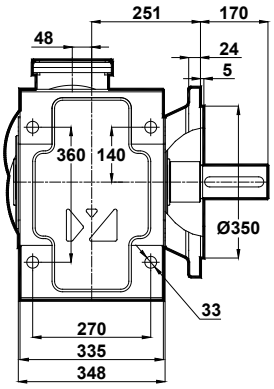
	90S	90L	100L	112M	132S	132M
k	908	945	971	1001	1046	1096
k1	1033	1070	1106	1136	1191	1241
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

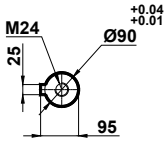
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR774.02

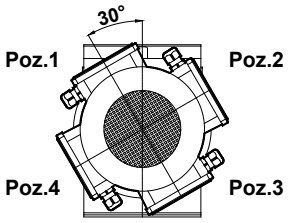






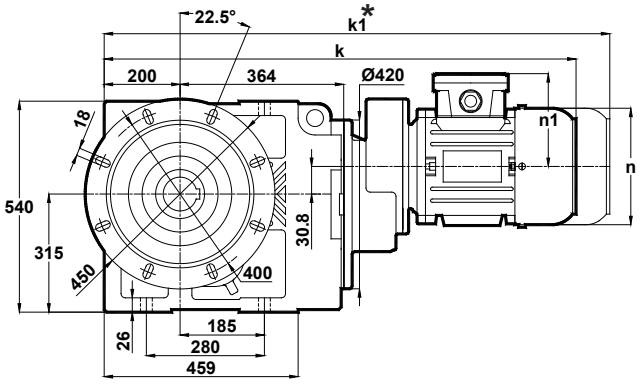
	90S	90L	100L	112M	132S	132M
k	908	945	971	1001	1046	1096
k1	1033	1070	1106	1136	1191	1241
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

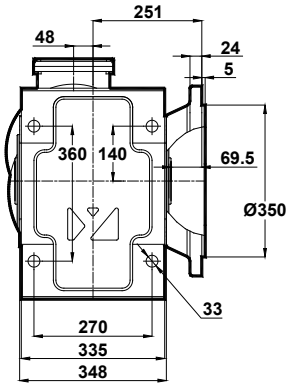
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

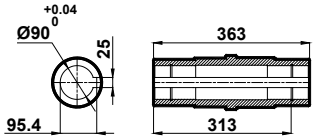


90-100-112-132
Tip / *Type* / Typ

KR774.03

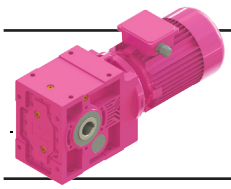






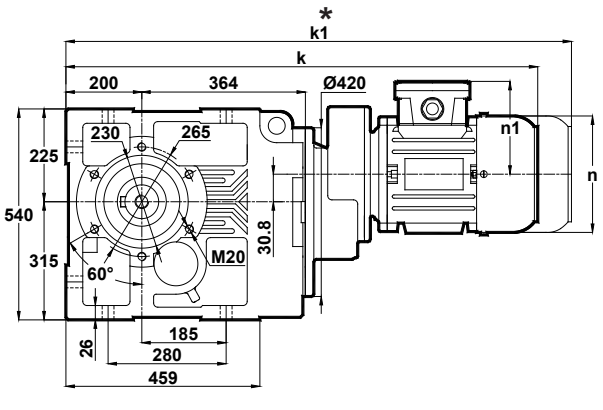
	90S	90L	100L	112M	132S	132M
k	908	945	971	1001	1046	1096
k1	1033	1070	1106	1136	1191	1241
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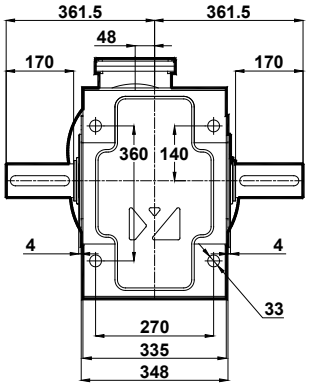
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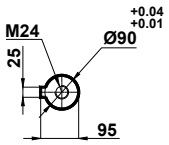


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR774.04

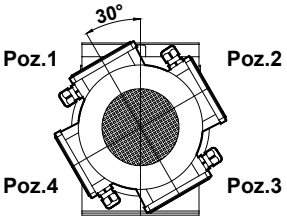






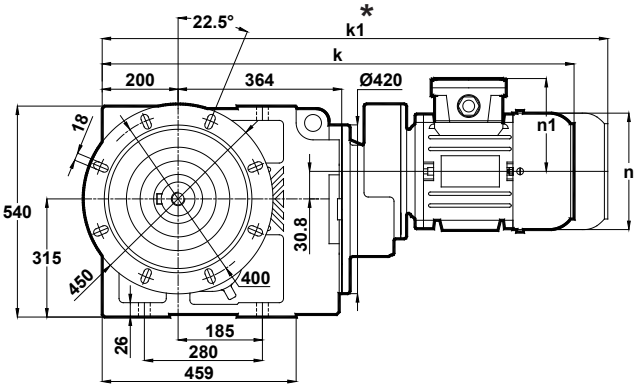
	90S	90L	100L	112M	132S	132M
k	908	945	971	1001	1046	1096
k1	1033	1070	1106	1136	1191	1241
n	176	176	194	218	258	258
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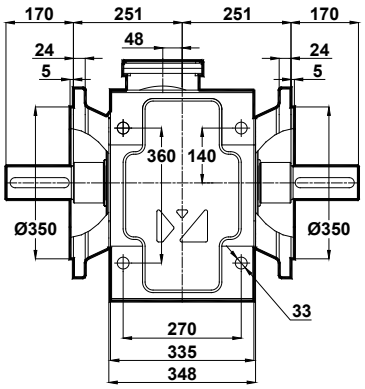
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

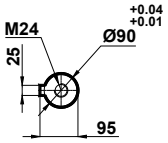


90-100-112-132
Tip / *Type* / Typ

KR774.05







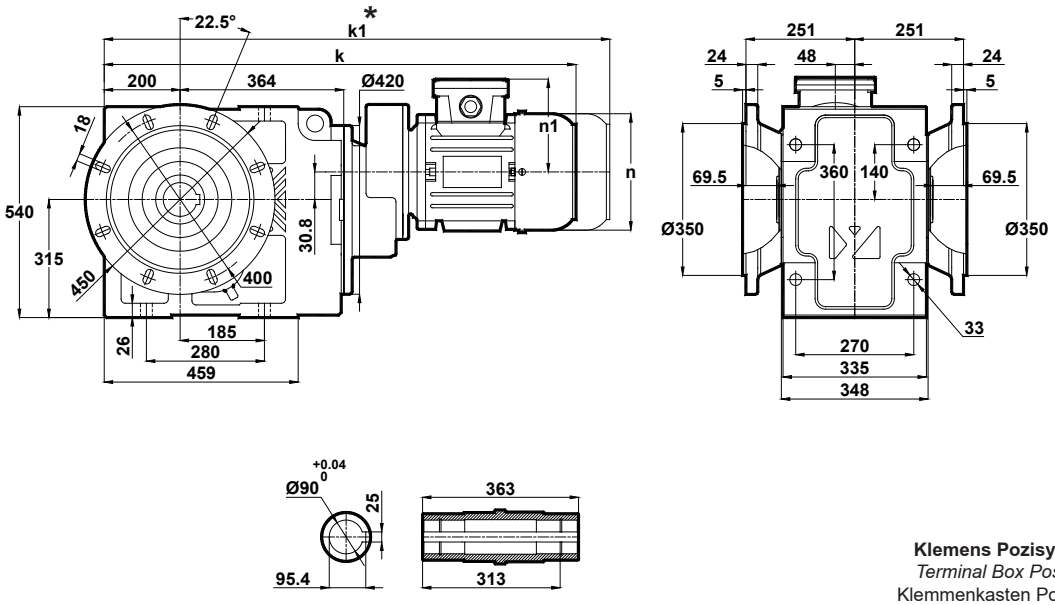
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k	908	945	971	1001	1046	1096
k1	1033	1070	1106	1136	1191	1241
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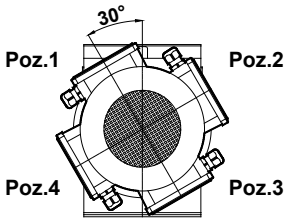
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR774.08



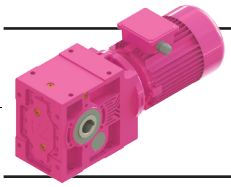
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Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



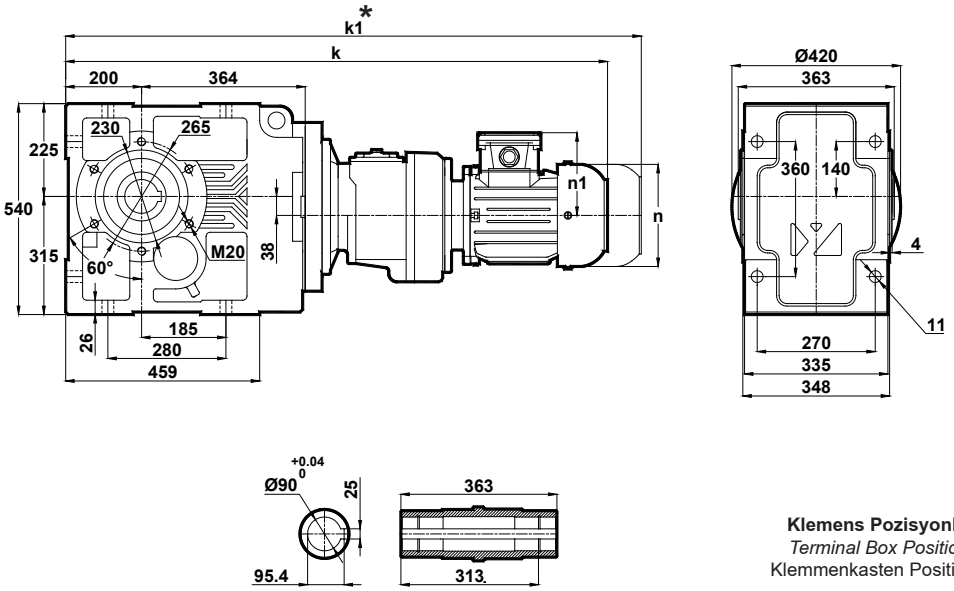
90-100-112-132
Tip / *Type* / Typ

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Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



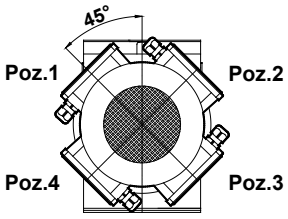
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR775.00
KR776.00

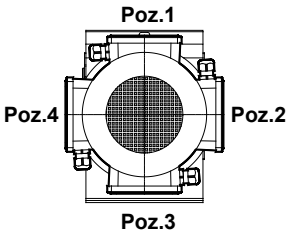


	71	80	90S	90L	100L
k	1010	1038	1067	1092	1132
k1	1130	1158	1192	1217	1267
n	138	156	176	176	194
n1	110	118	126	126	135

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

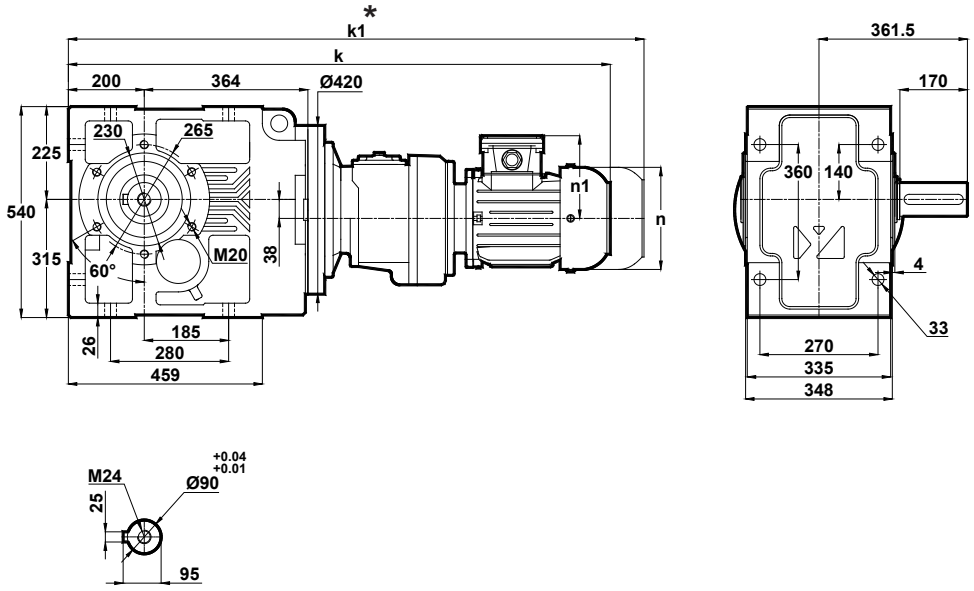


80-90
Tip / *Type* / Typ



71-100
Tip / *Type* / Typ

KR775.01
KR776.01

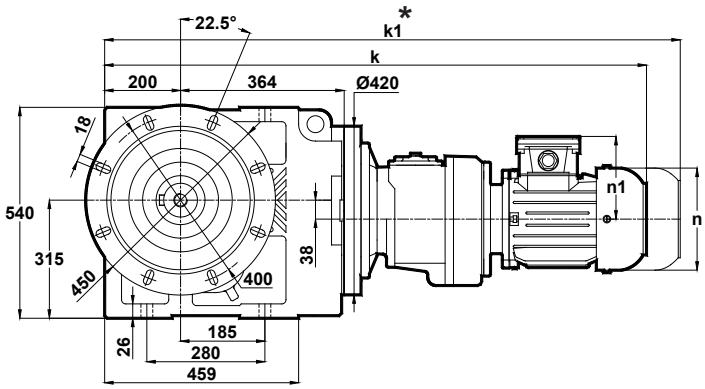


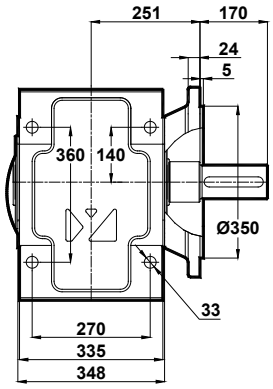
	71	80	90S	90L	100L
k	1010	1038	1067	1092	1132
k1	1130	1158	1192	1217	1267
n	138	156	176	176	194
n1	110	118	126	126	135

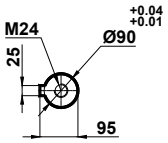
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR775.02
KR776.02

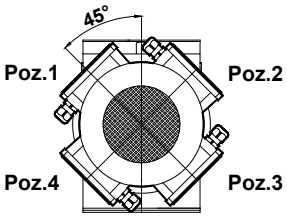




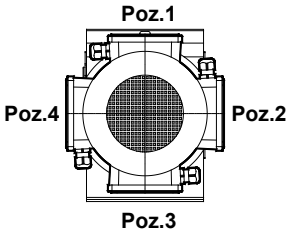


	71	80	90S	90L	100L
k	1010	1038	1067	1092	1132
k1	1130	1158	1192	1217	1267
n	138	156	176	176	194
n1	110	118	126	126	135

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

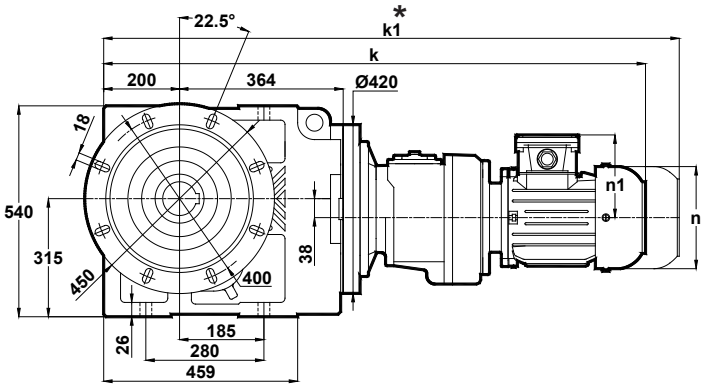


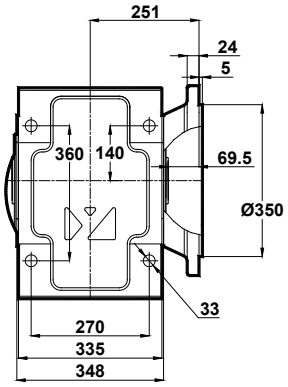
80-90
Tip / *Type* / Typ

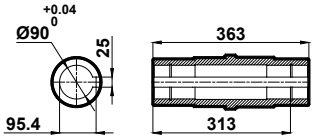


71-100
Tip / *Type* / Typ

KR775.03
KR776.03

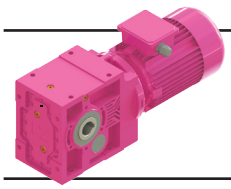






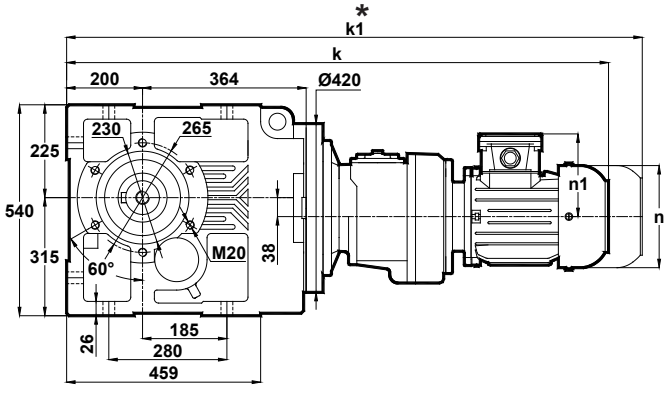
	71	80	90S	90L	100L
k	1010	1038	1067	1092	1132
k1	1130	1158	1192	1217	1267
n	138	156	176	176	194
n1	110	118	126	126	135

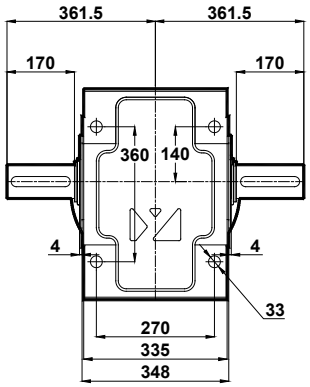
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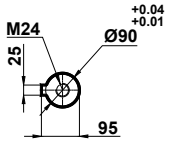


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR775.04
KR776.04

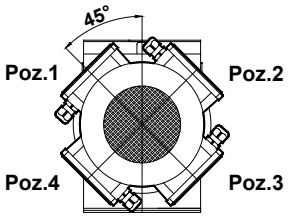




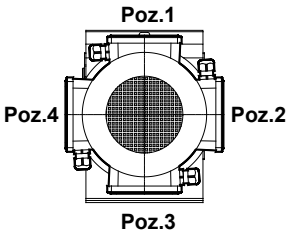


	71	80	90S	90L	100L
k	1010	1038	1067	1092	1132
k1	1130	1158	1192	1217	1267
n	138	156	176	176	194
n1	110	118	126	126	135

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

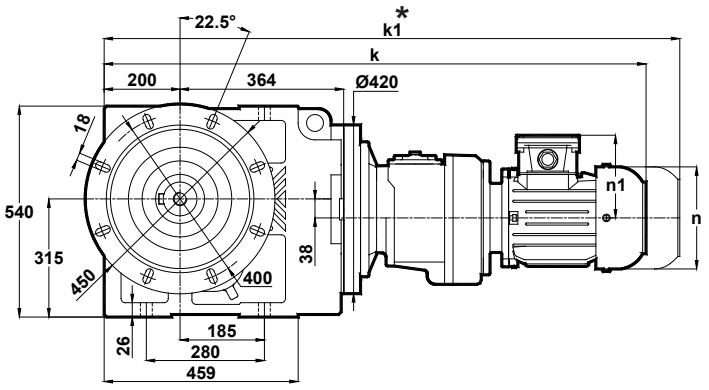


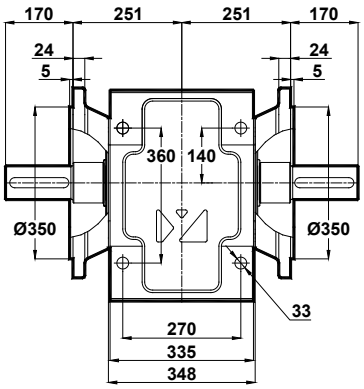
80-90
Tip / *Type* / Typ

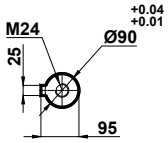


71-100
Tip / *Type* / Typ

KR775.05
KR776.05

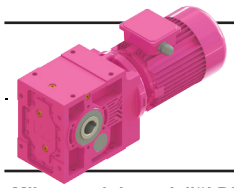






	71	80	90S	90L	100L
k	1010	1038	1067	1092	1132
k1	1130	1158	1192	1217	1267
n	138	156	176	176	194
n1	110	118	126	126	135

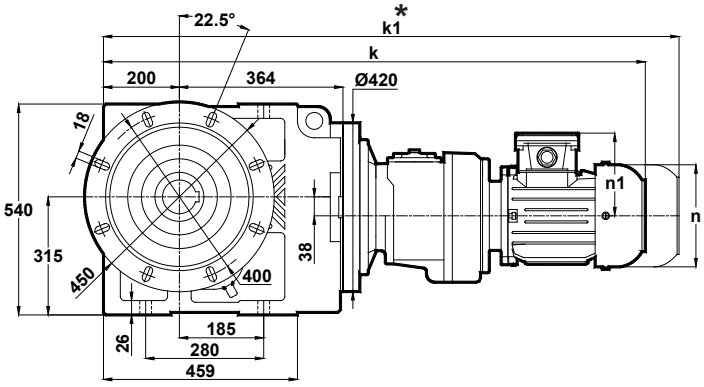
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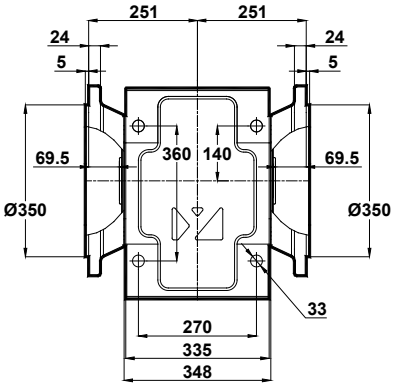


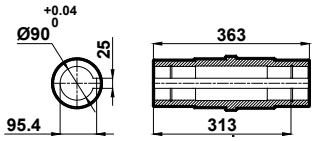
Ölçü Sayfaları
Dimension Pages
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR775.08
KR776.08

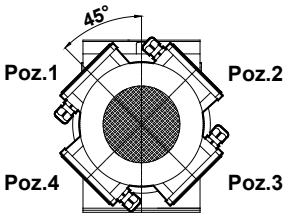




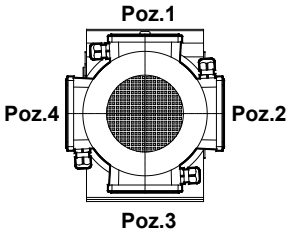


	71	80	90S	90L	100L
k	1010	1038	1067	1092	1132
k1	1130	1158	1192	1217	1267
n	138	156	176	176	194
n1	110	118	126	126	135

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

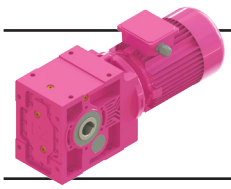


80-90
Tip / *Type* / Typ



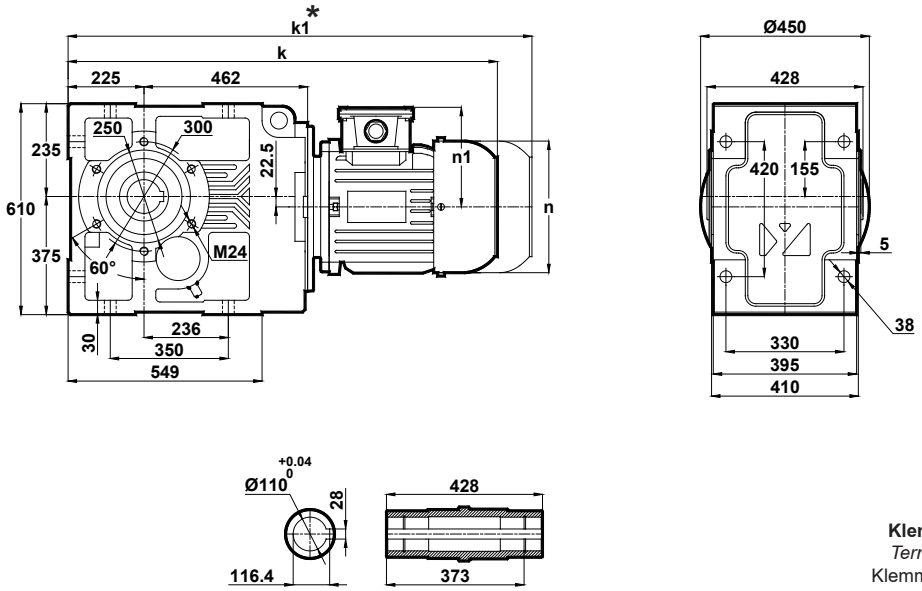
71-100
Tip / *Type* / Typ

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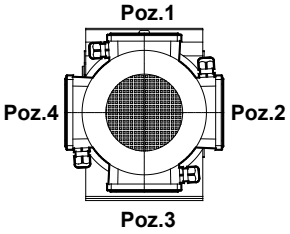
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR873.00



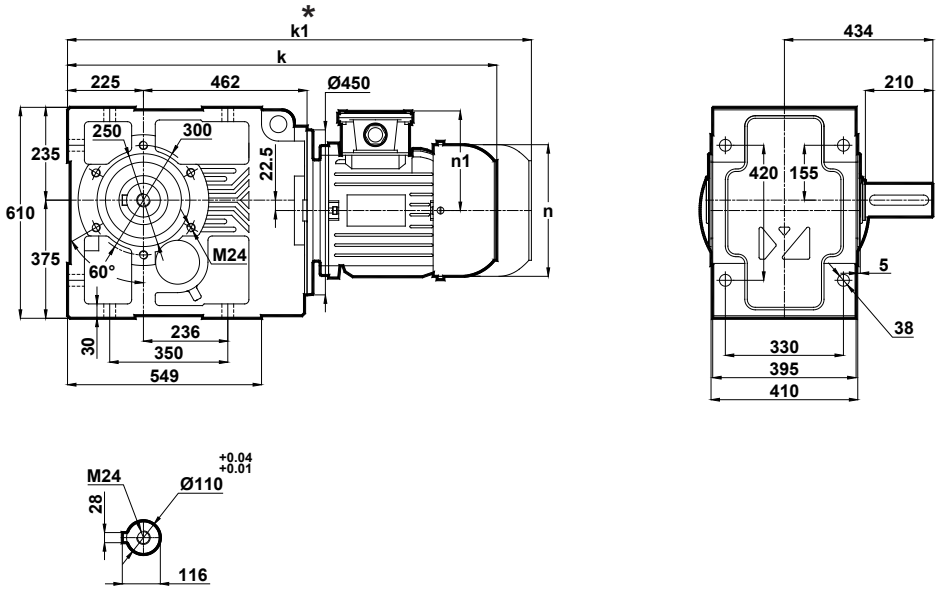
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1156	1200	1216	1254	1293	1309	1334	1437	1498	1498
k1	1326	1370	1386	1424	1493	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



132-160-180-200-225-250-280
Tip / *Type* / Typ

KR873.01



	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1156	1200	1216	1254	1293	1309	1334	1437	1498	1498
k1	1326	1370	1386	1424	1493	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

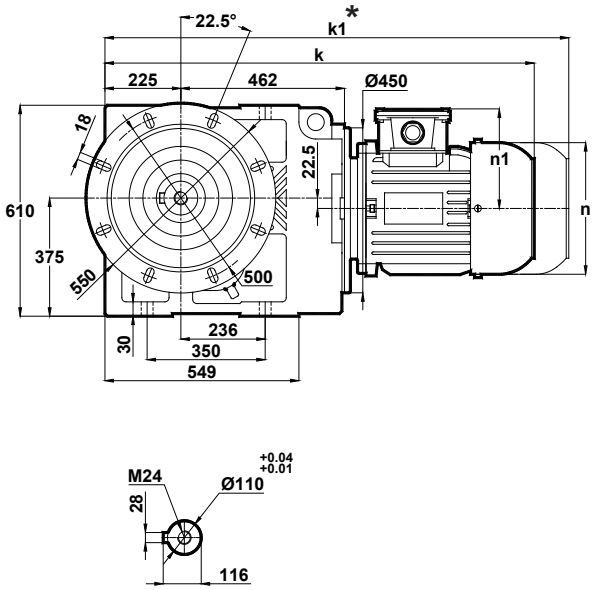
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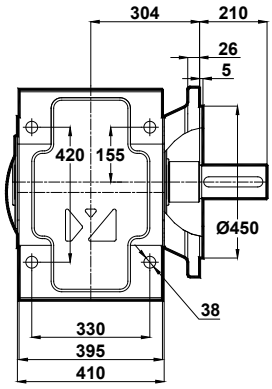


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

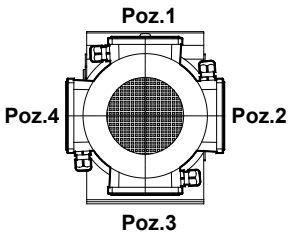
KR873.02





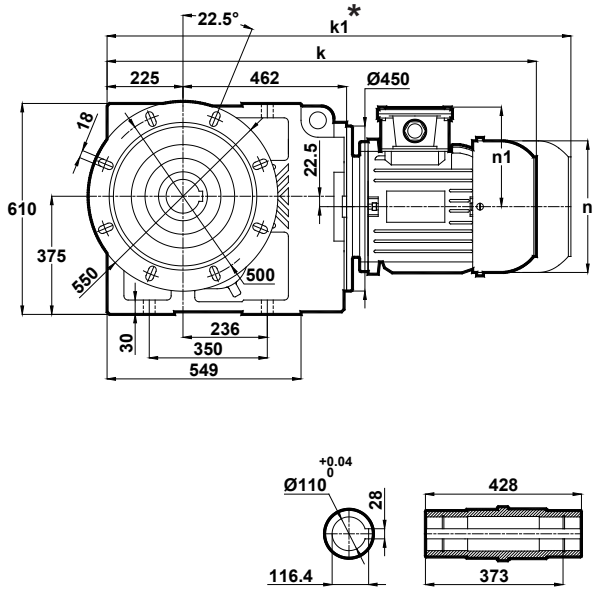
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1156	1200	1216	1254	1293	1309	1334	1437	1498	1498
k1	1326	1370	1386	1424	1493	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

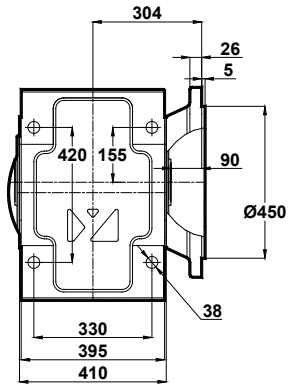
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



132-160-180-200-225-250-280
Tip / *Type* / Typ

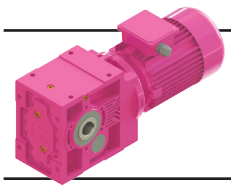
KR873.03





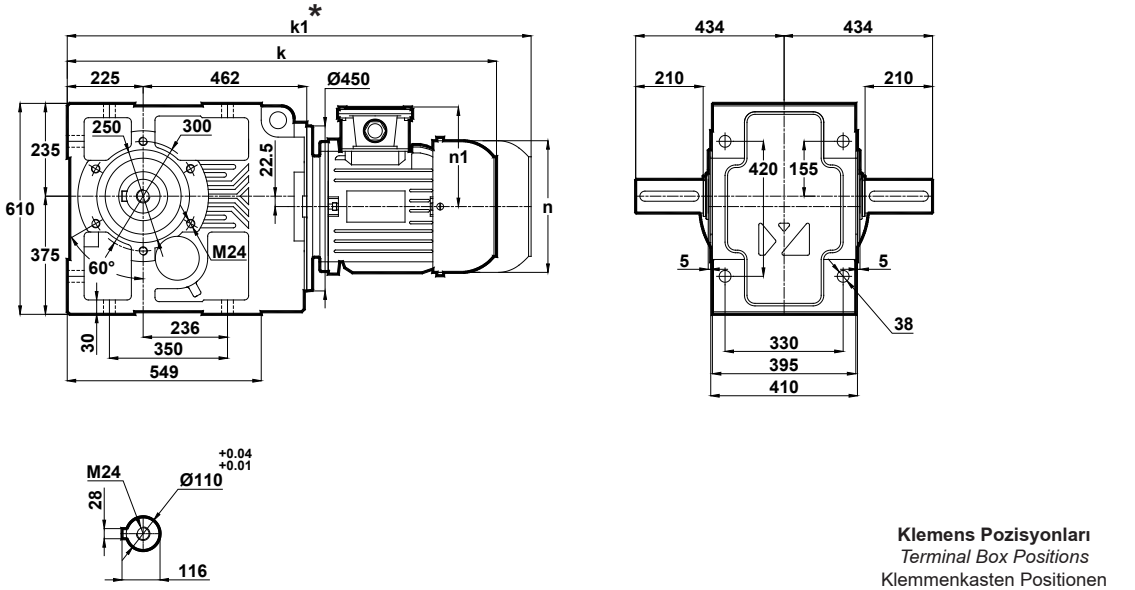
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1156	1200	1216	1254	1293	1309	1334	1437	1498	1498
k1	1326	1370	1386	1424	1493	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

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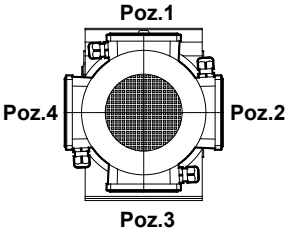
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR873.04



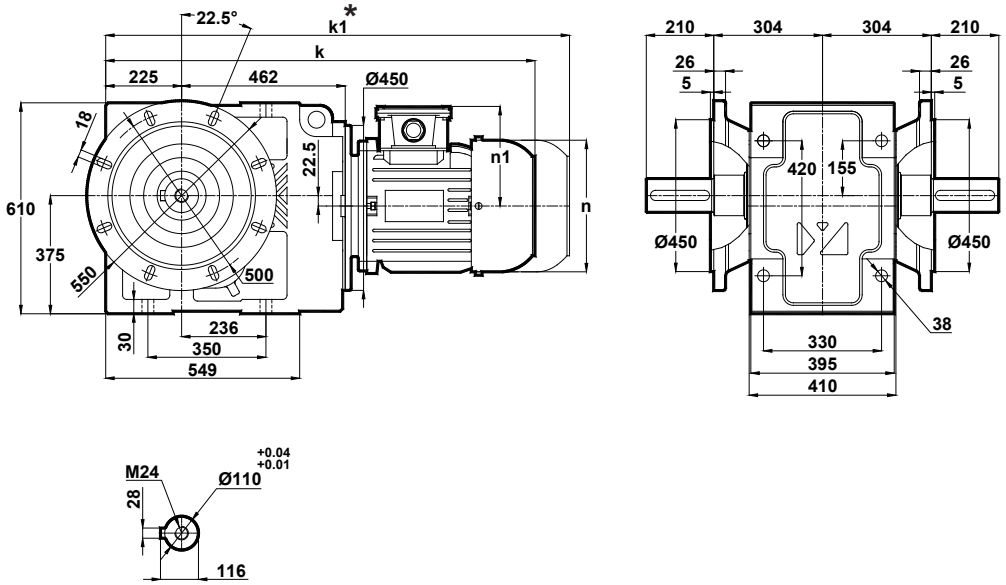
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1156	1200	1216	1254	1293	1309	1334	1437	1498	1498
k1	1326	1370	1386	1424	1493	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



132-160-180-200-225-250-280
Tip / *Type* / Typ

KR873.05



	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1156	1200	1216	1254	1293	1309	1334	1437	1498	1498
k1	1326	1370	1386	1424	1493	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

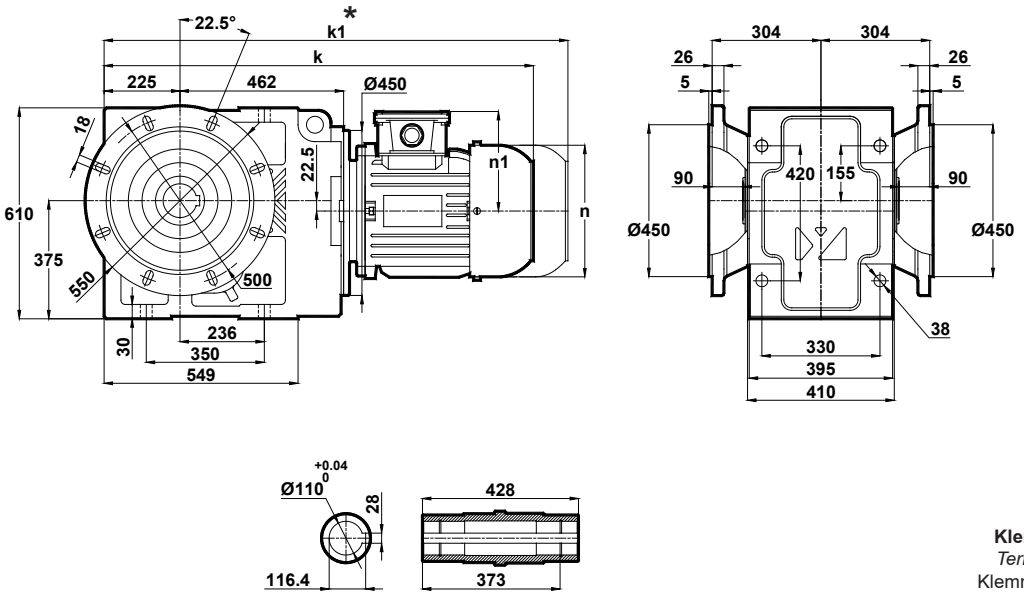
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

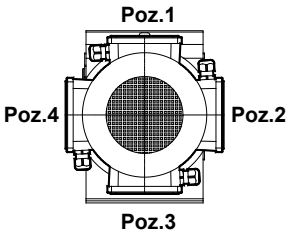
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR873.08



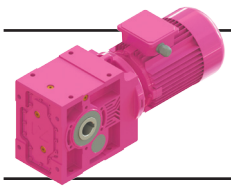
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1156	1200	1216	1254	1293	1309	1334	1437	1498	1498
k1	1326	1370	1386	1424	1493	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



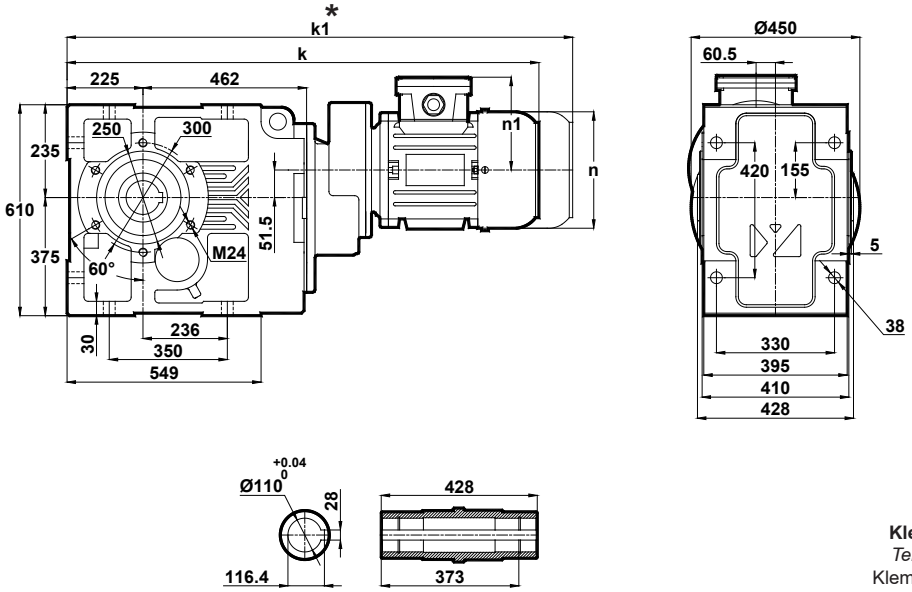
132-160-180-200-225-250-280
Tip / *Type* / Typ

*** " k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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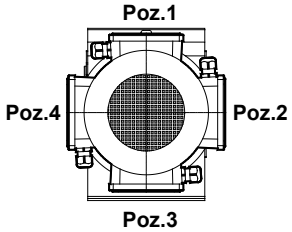
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KR874.00



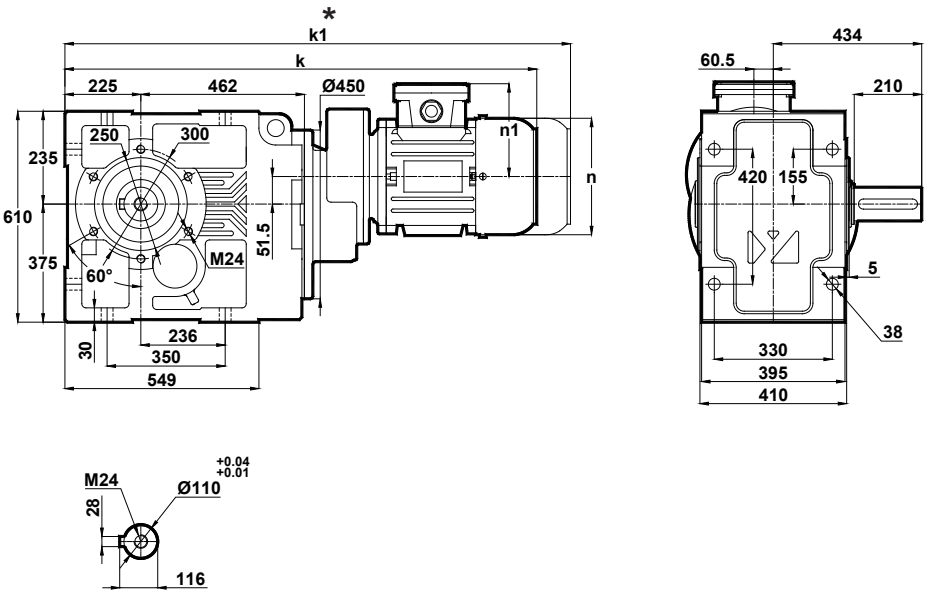
	100L	112M	132S	132M	160M	160L	180M
k	1115.5	1138.5	1192.5	1230.5	1305.5	1349.5	1366
k1	1250.5	1273.5	1337.5	1375.5	1475.5	1519.5	1536
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



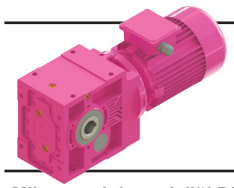
100-112-132-160-180
Tip / *Type* / Typ

KR874.01



	100L	112M	132S	132M	160M	160L	180M
k	1115.5	1138.5	1192.5	1230.5	1305.5	1349.5	1366
k1	1250.5	1273.5	1337.5	1375.5	1475.5	1519.5	1536
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

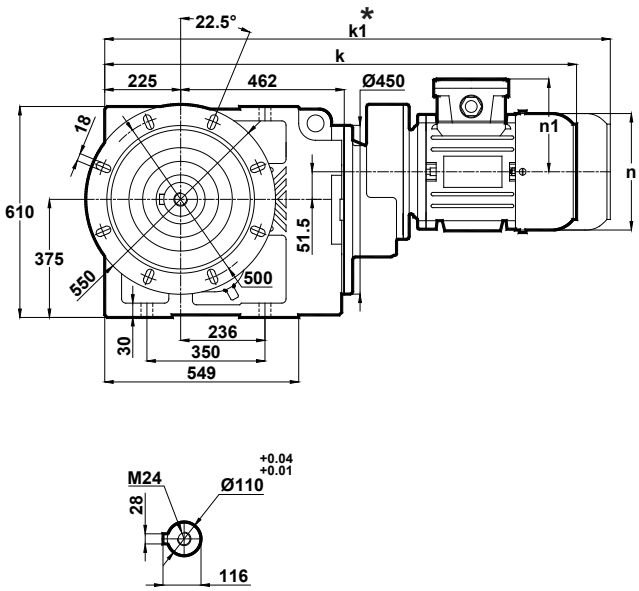
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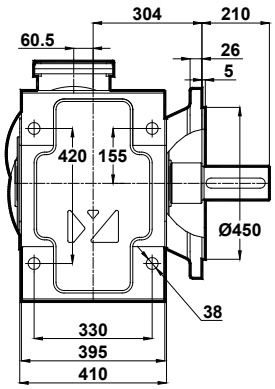


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

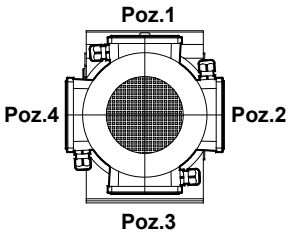
KR874.02





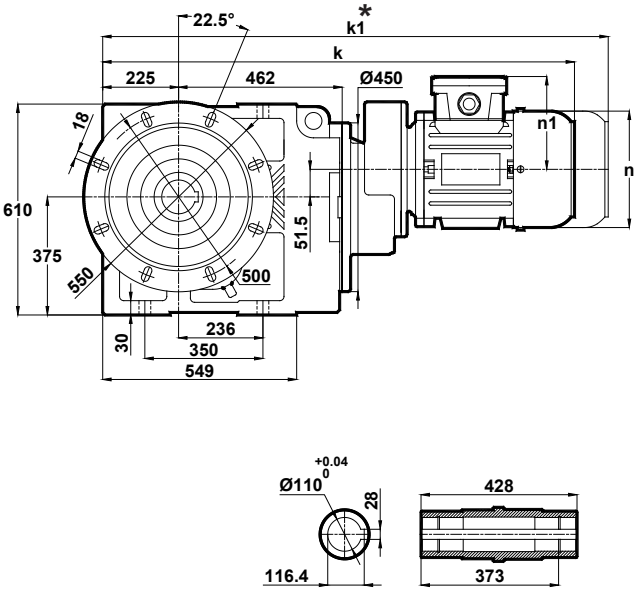
	100L	112M	132S	132M	160M	160L	180M
k	1115.5	1138.5	1192.5	1230.5	1305.5	1349.5	1366
k1	1250.5	1273.5	1337.5	1375.5	1475.5	1519.5	1536
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

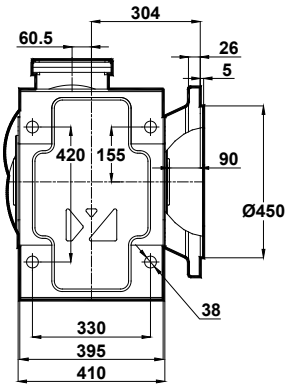
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



100-112-132-160-180
Tip / *Type* / Typ

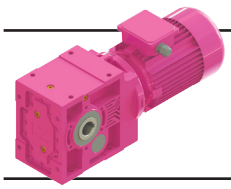
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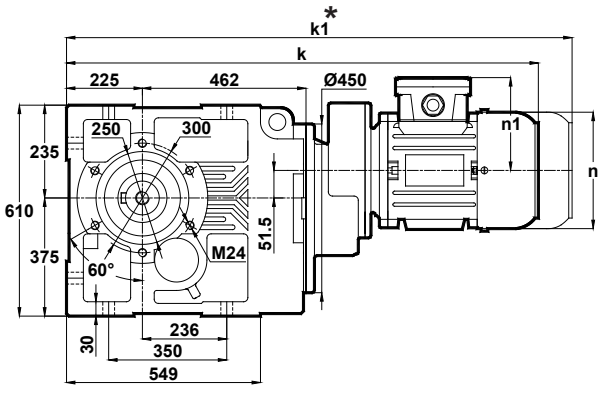
	100L	112M	132S	132M	160M	160L	180M
k	1115.5	1138.5	1192.5	1230.5	1305.5	1349.5	1366
k1	1250.5	1273.5	1337.5	1375.5	1475.5	1519.5	1536
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

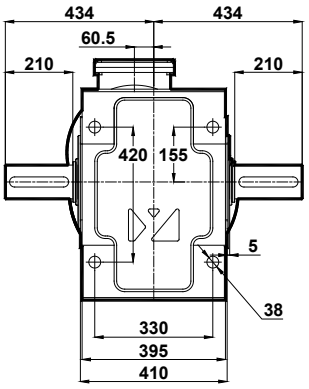
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
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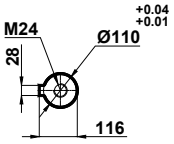


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR874.04

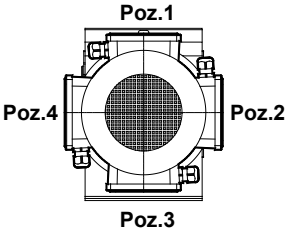






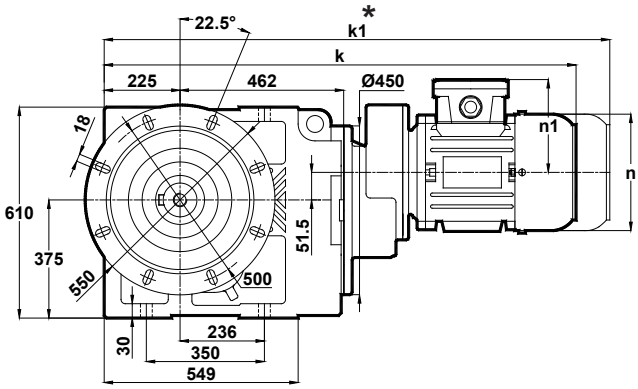
	100L	112M	132S	132M	160M	160L	180M
k	1115.5	1138.5	1192.5	1230.5	1305.5	1349.5	1366
k1	1250.5	1273.5	1337.5	1375.5	1475.5	1519.5	1536
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

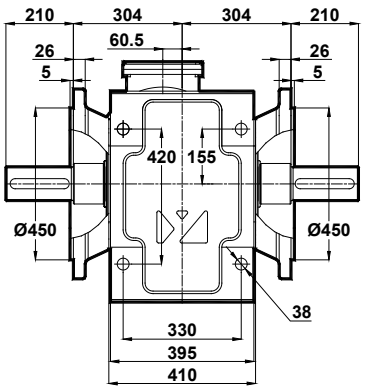
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

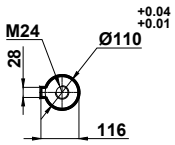


100-112-132-160-180
Tip / *Type* / Typ

KR874.05







	100L	112M	132S	132M	160M	160L	180M
k	1115.5	1138.5	1192.5	1230.5	1305.5	1349.5	1366
k1	1250.5	1273.5	1337.5	1375.5	1475.5	1519.5	1536
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

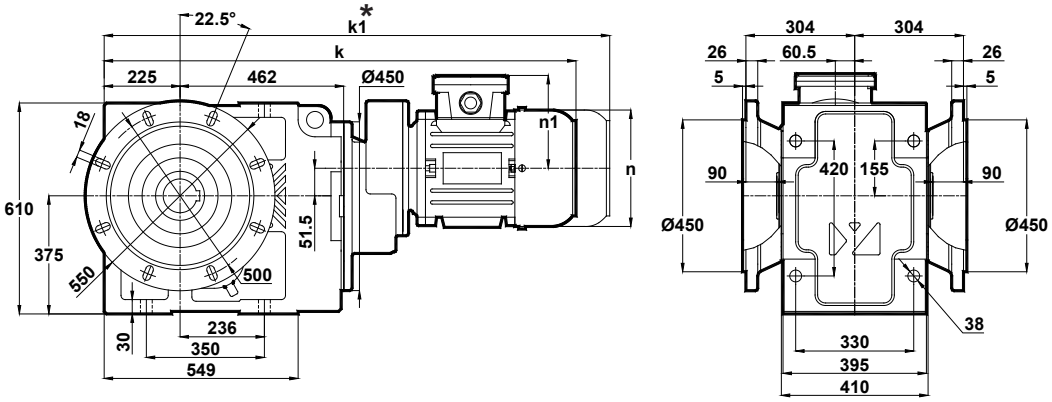
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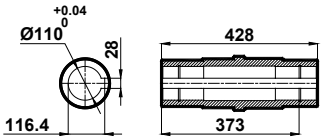


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

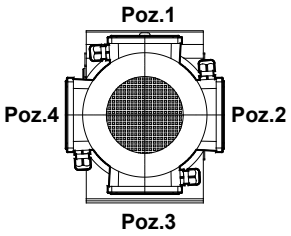
KR874.08





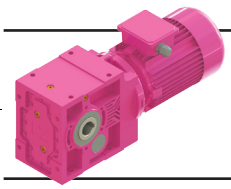
	100L	112M	132S	132M	160M	160L	180M
k	1115.5	1138.5	1192.5	1230.5	1305.5	1349.5	1366
k1	1250.5	1273.5	1337.5	1375.5	1475.5	1519.5	1536
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



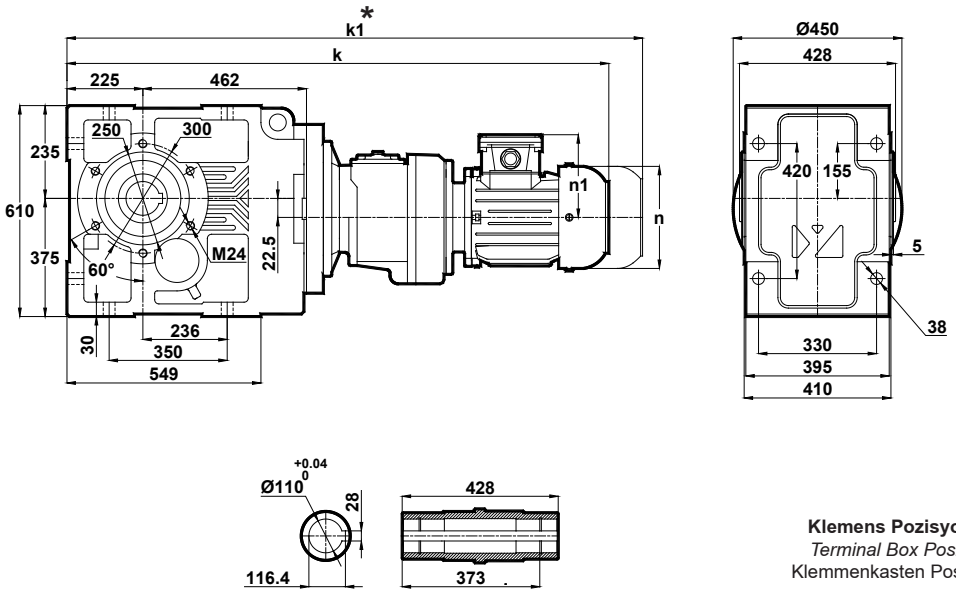
100-112-132-160-180
Tip / *Type* / Typ

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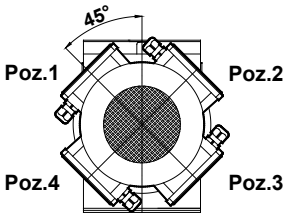
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR875.00
KR876.00

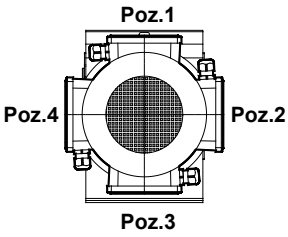


Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

	71	80	90S	90L	100L	112M
k	1133	1161	1190	1215	1255	1278
k1	1253	1281	1315	1340	1390	1413
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

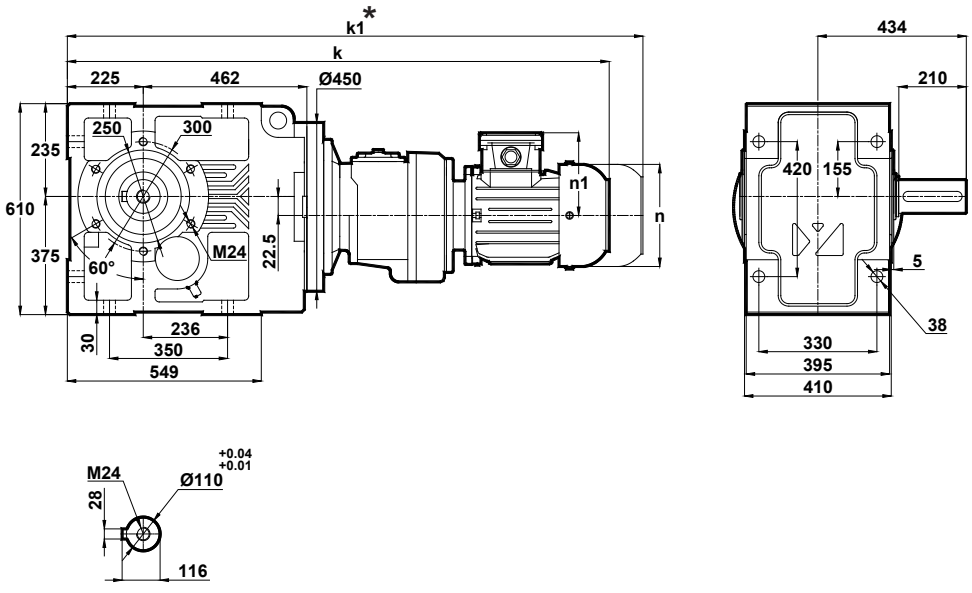


80-90
Tip / *Type* / Typ



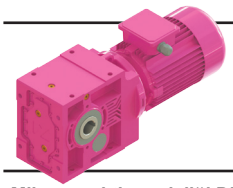
71-100-112-132
Tip / *Type* / Typ

KR875.01
KR876.01



	71	80	90S	90L	100L	112M
k	1133	1161	1190	1215	1255	1278
k1	1253	1281	1315	1340	1390	1413
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

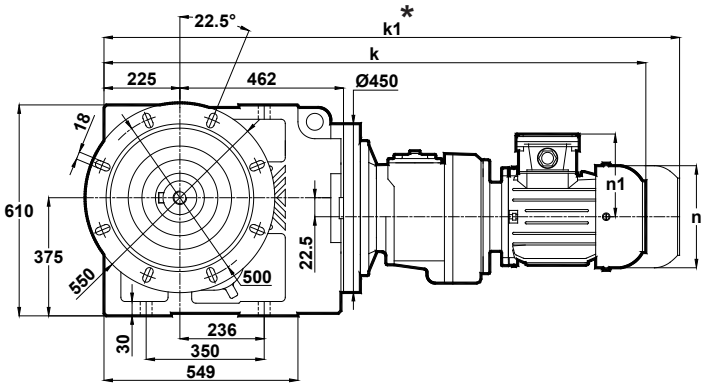
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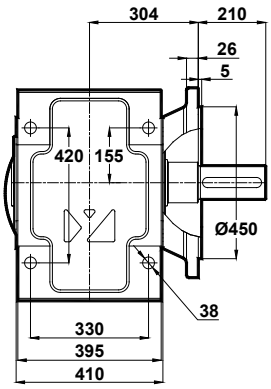


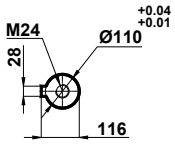
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-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

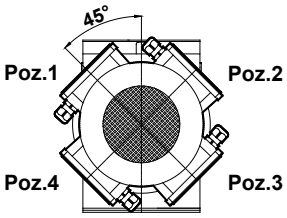




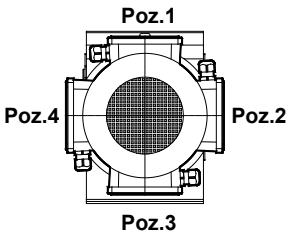


	71	80	90S	90L	100L	112M
k	1133	1161	1190	1215	1255	1278
k1	1253	1281	1315	1340	1390	1413
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

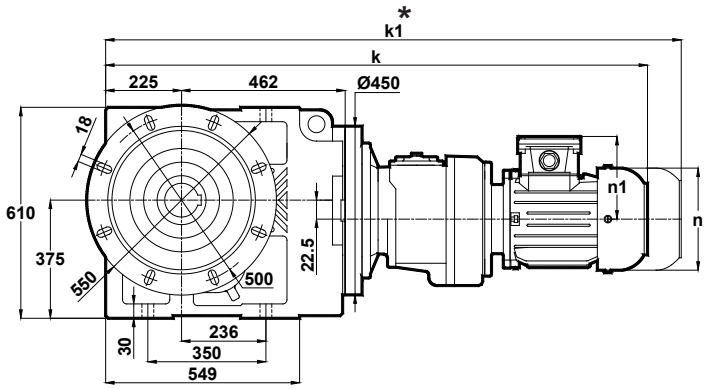


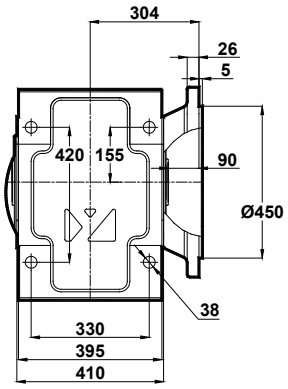
80-90
Tip / *Type* / Typ

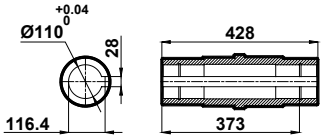


71-100-112-132
Tip / *Type* / Typ

KR875.03
KR876.03

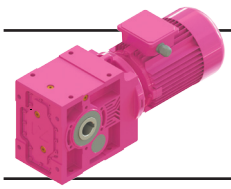






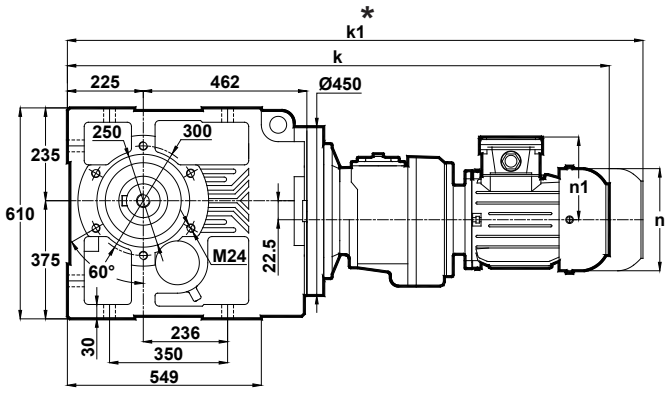
	71	80	90S	90L	100L	112M
k	1133	1161	1190	1215	1255	1278
k1	1253	1281	1315	1340	1390	1413
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

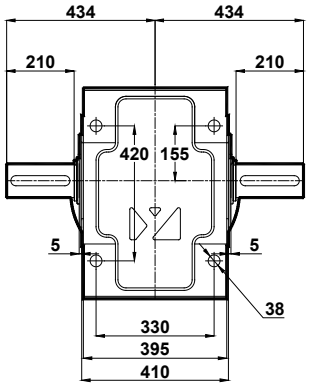
* **" k1 " Ölçüsü frenli redüktörlere aittir. 63, 71 tip elektrik motorlu redüktörler soğutmasız, diğerleri soğutmalıdır.**
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooloed, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

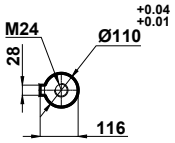


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR875.04
KR876.04

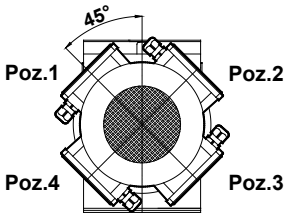




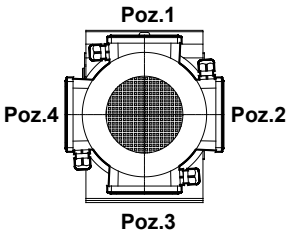


	71	80	90S	90L	100L	112M
k	1133	1161	1190	1215	1255	1278
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Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

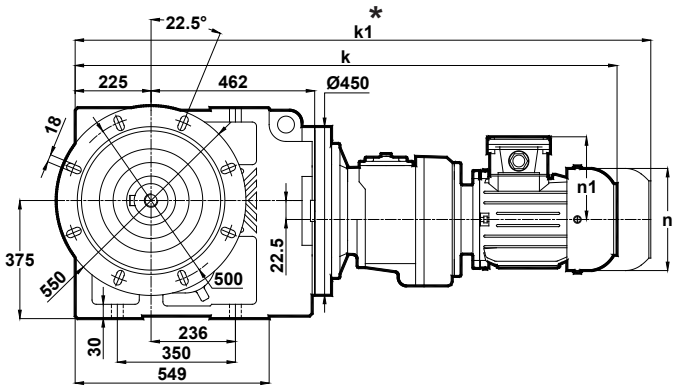


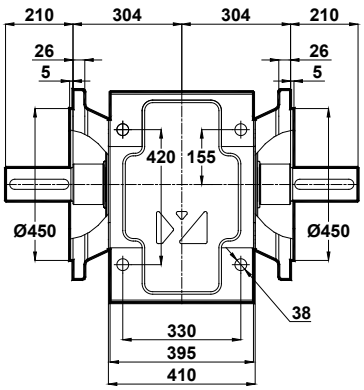
80-90
Tip / *Type* / Typ

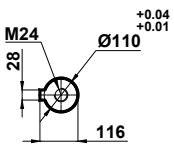


71-100-112-132
Tip / *Type* / Typ

KR875.05
KR876.05

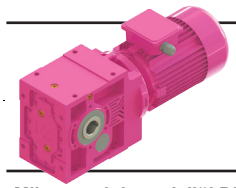






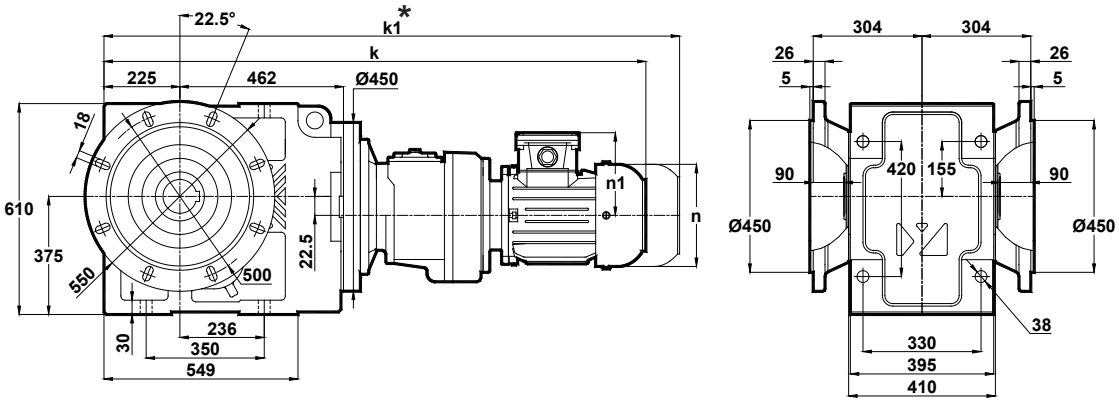
	71	80	90S	90L	100L	112M
k	1133	1161	1190	1215	1255	1278
k1	1253	1281	1315	1340	1390	1413
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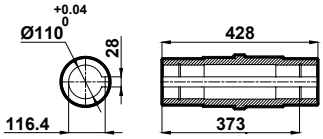
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

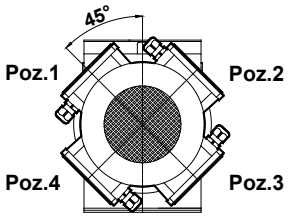
KR875.08
KR876.08



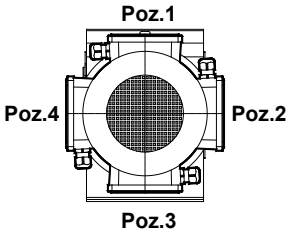


	71	80	90S	90L	100L	112M
k	1133	1161	1190	1215	1255	1278
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Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

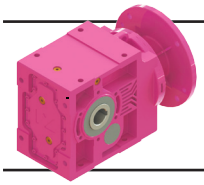


80-90
Tip / *Type* / Typ



71-100-112-132
Tip / *Type* / Typ

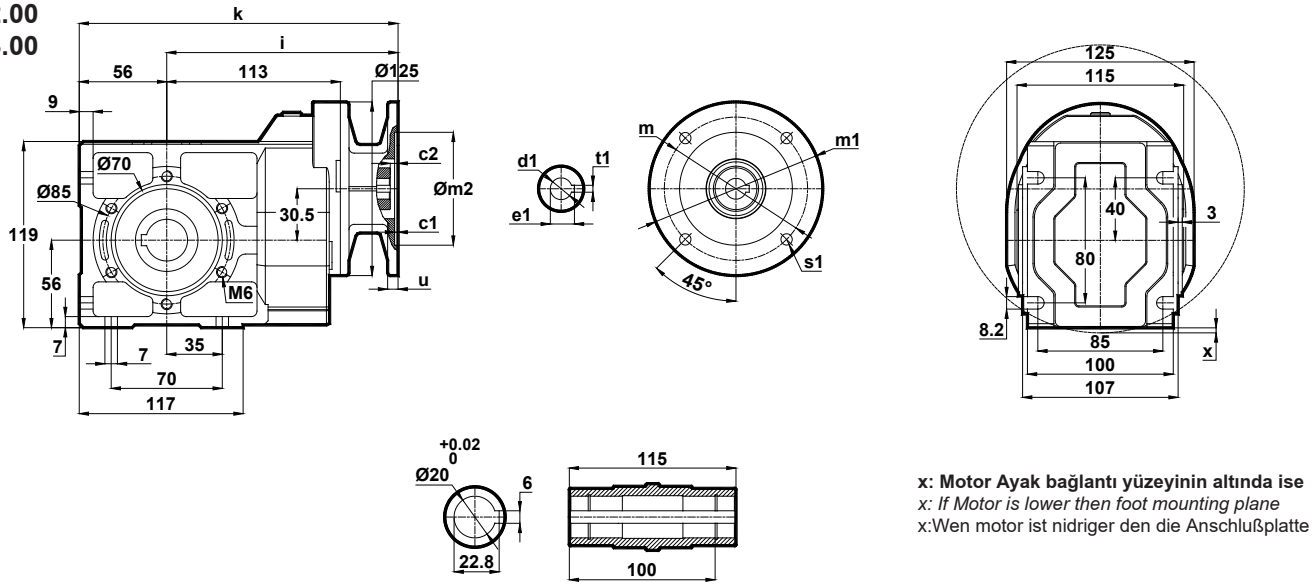
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Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

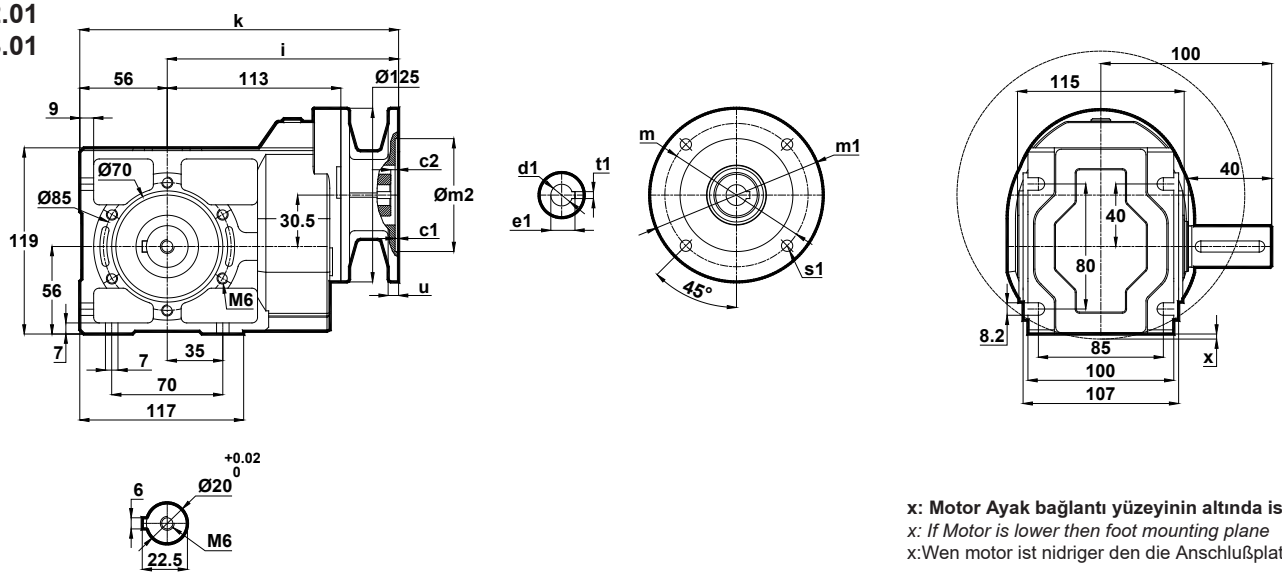
KN002.00
KN003.00



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	156	10	212	11	4	12.8	-
71/B5	4	4.5	11	130	160	110	157.5	12	213.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	172.5	12	228.5	19	6	21.8	13.5
90/B5	4	5	13	165	200	130	172.5	12	228.5	24	8	27.3	13.5

KN002.01
KN003.01

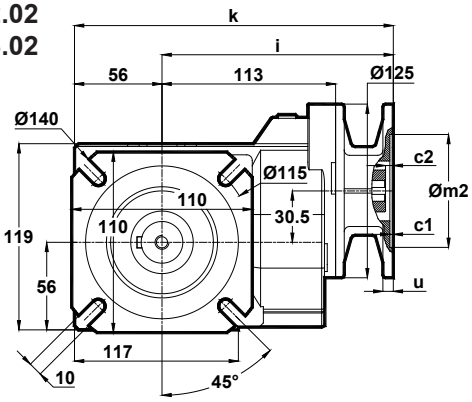


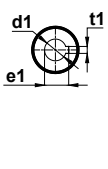
x: Motor Ayak bağlantı yüzeyinin altında ise
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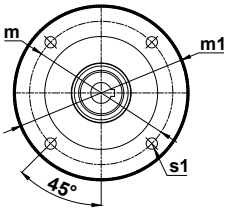
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	156	10	212	11	4	12.8	-
71/B5	4	4.5	11	130	160	110	157.5	12	213.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	172.5	12	228.5	19	6	21.8	13.5
90/B5	4	5	13	165	200	130	172.5	12	228.5	24	8	27.3	13.5

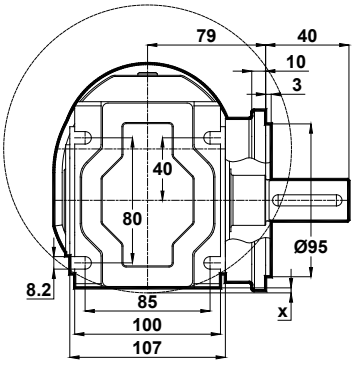
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

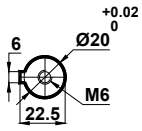
KN002.02
KN003.02







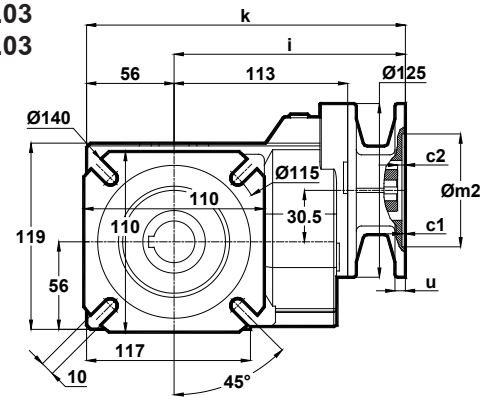


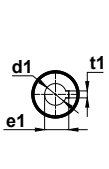


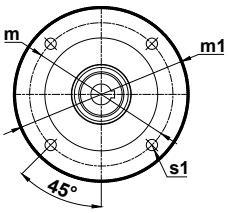
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

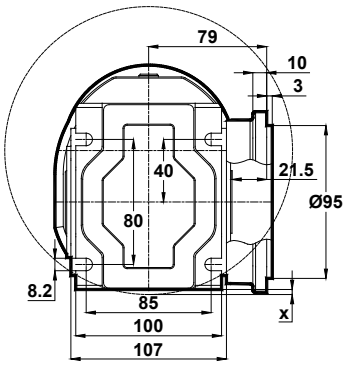
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	156	10	212	11	4	12.8	-
71/B5	4	4.5	11	130	160	110	157.5	12	213.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	172.5	12	228.5	19	6	21.8	13.5
90/B5	4	5	13	165	200	130	172.5	12	228.5	24	8	27.3	13.5

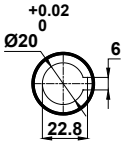
KN002.03
KN003.03

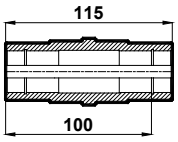










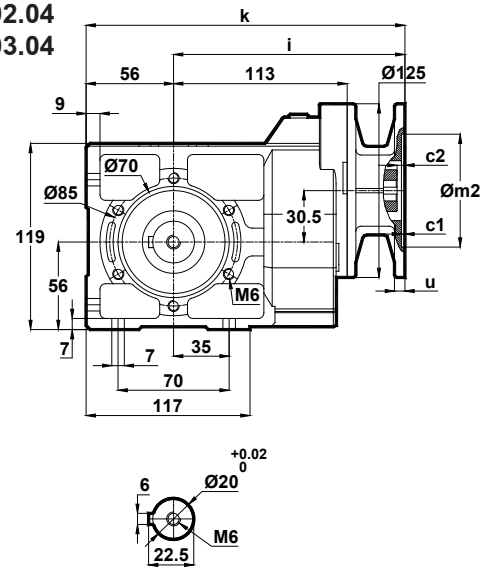


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	156	10	212	11	4	12.8	-
71/B5	4	4.5	11	130	160	110	157.5	12	213.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	172.5	12	228.5	19	6	21.8	13.5
90/B5	4	5	13	165	200	130	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

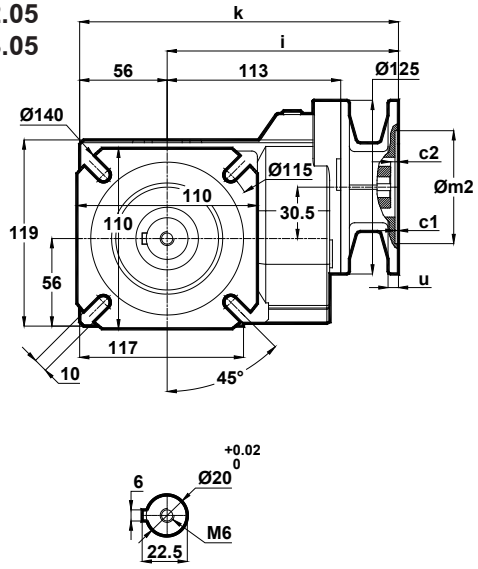
KN002.04
KN003.04



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	156	10	212	11	4	12.8	-
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KN002.05
KN003.05

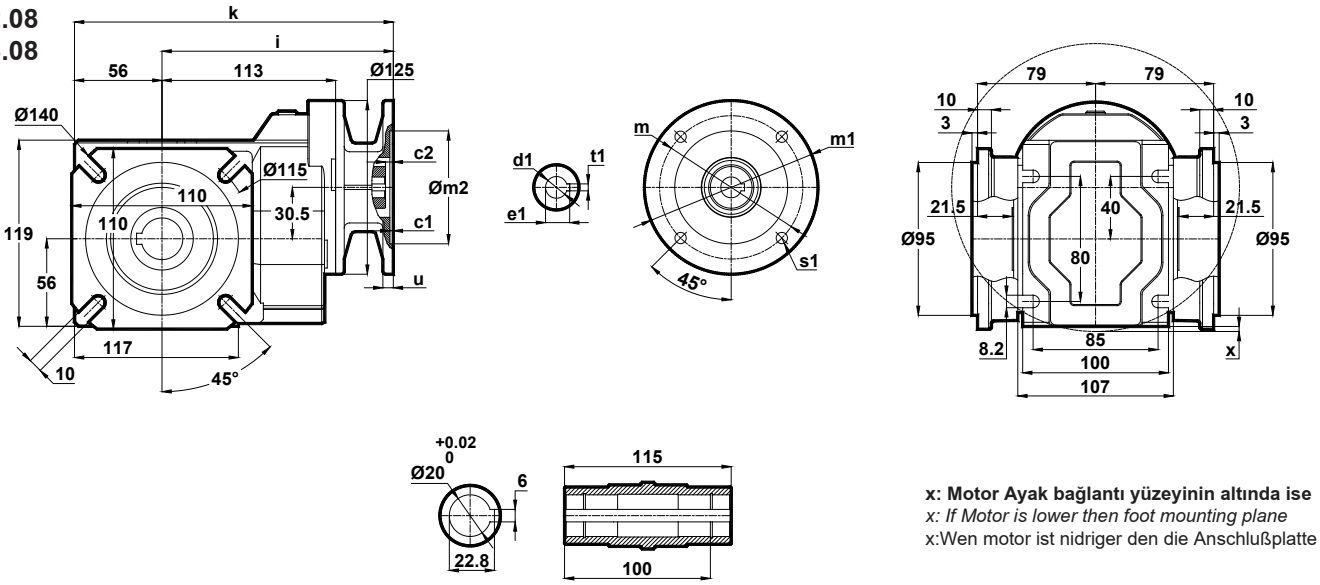


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	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	156	10	212	11	4	12.8	-
71/B5	4	4.5	11	130	160	110	157.5	12	213.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	172.5	12	228.5	19	6	21.8	13.5
90/B5	4	5	13	165	200	130	172.5	12	228.5	24	8	27.3	13.5

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KN002.08
KN003.08

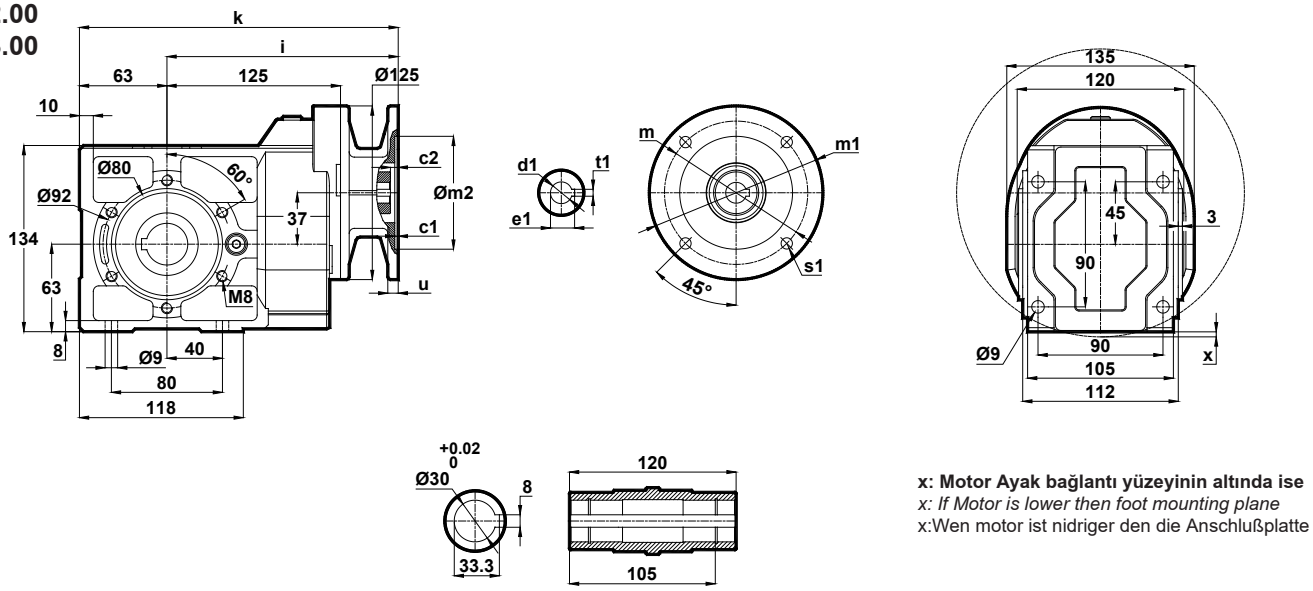


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	156	10	212	11	4	12.8	-
71/B5	4	4.5	11	130	160	110	157.5	12	213.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	172.5	12	228.5	19	6	21.8	13.5
90/B5	4	5	13	165	200	130	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

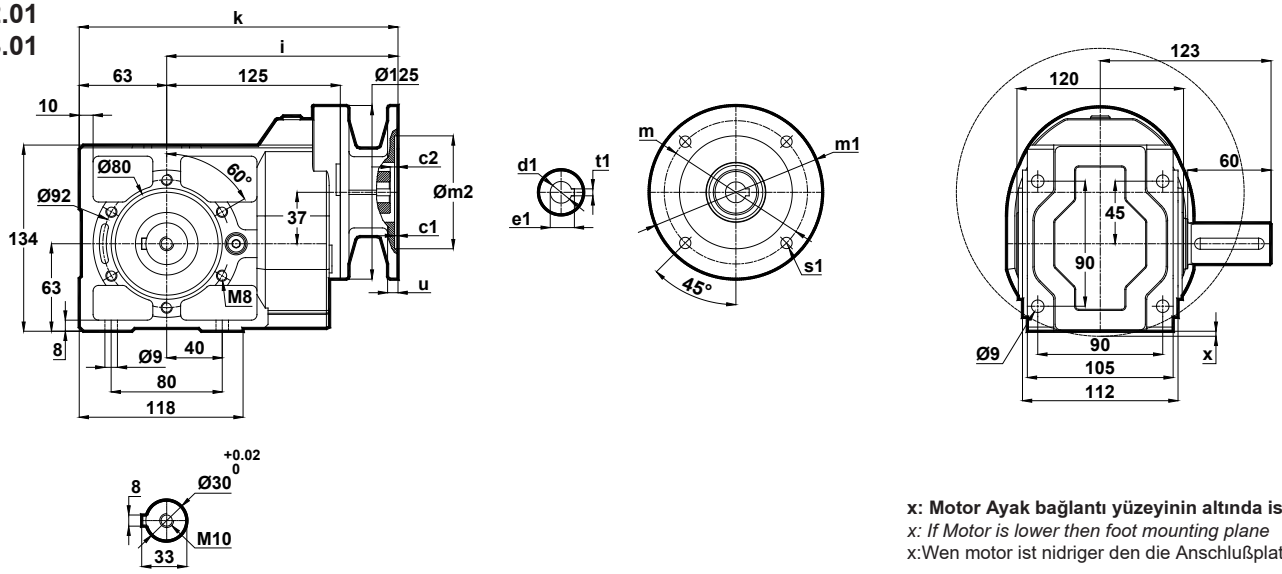
KN102.00
KN103.00



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

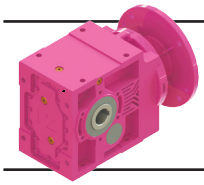
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	168	10	231	11	4	12.8	-
71/B5	4	4.5	11	130	160	110	169.5	12	232.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	184.5	12	247.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	184.5	12	247.5	24	8	27.3	-

KN102.01
KN103.01



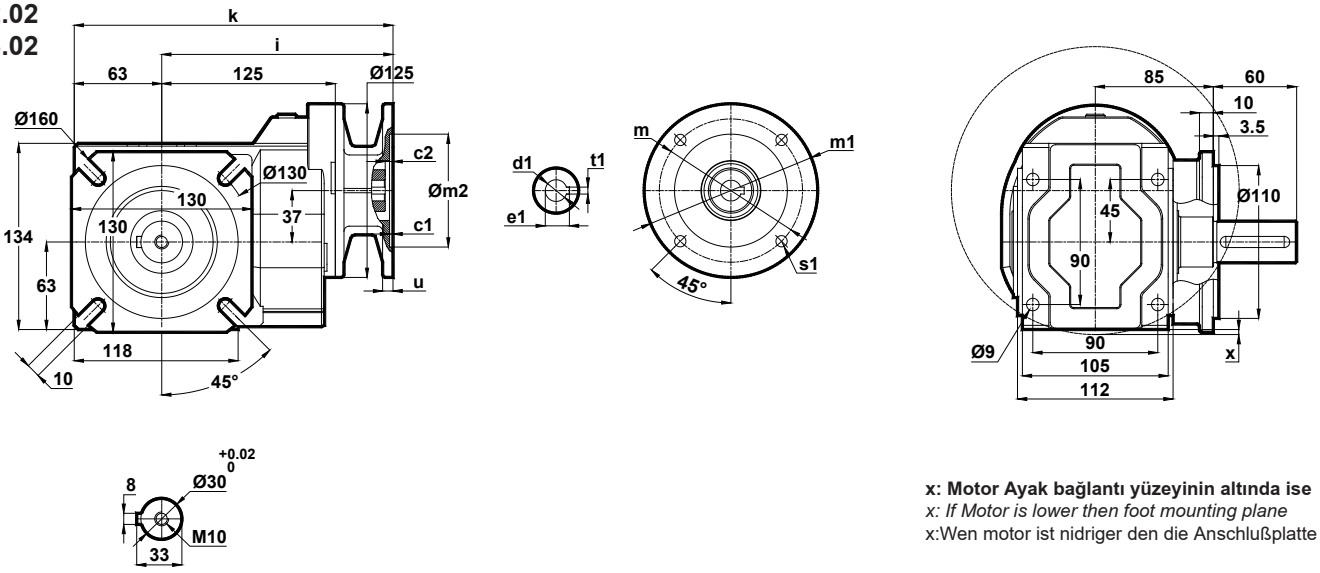
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	168	10	231	11	4	12.8	-
71/B5	4	4.5	11	130	160	110	169.5	12	232.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	184.5	12	247.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	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

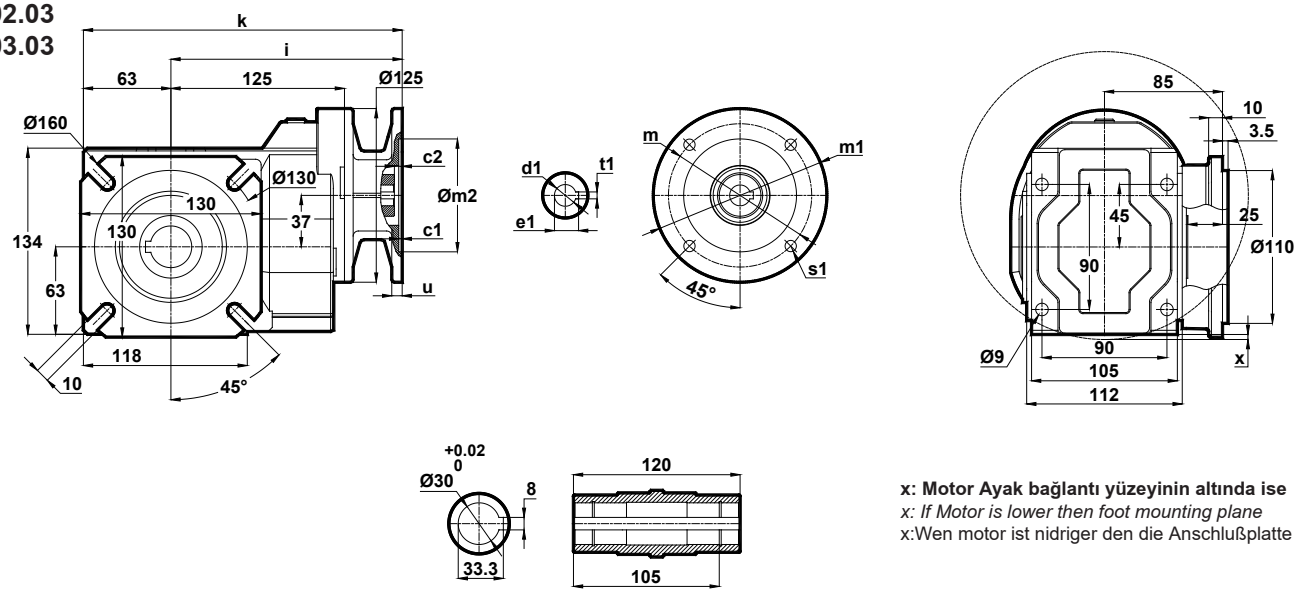
KN102.02
KN103.02



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

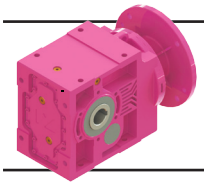
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	168	10	231	11	4	12.8	-
71/B5	4	4.5	11	130	160	110	169.5	12	232.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	184.5	12	247.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	184.5	12	247.5	24	8	27.3	-

KN102.03
KN103.03



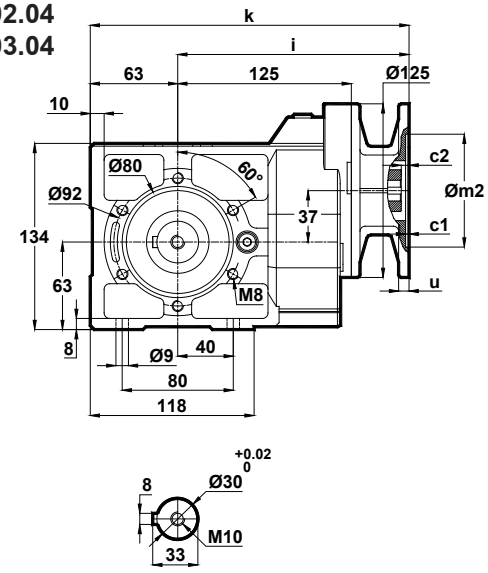
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

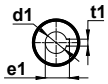
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	168	10	231	11	4	12.8	-
71/B5	4	4.5	11	130	160	110	169.5	12	232.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	184.5	12	247.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	184.5	12	247.5	24	8	27.3	-

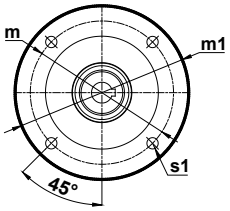


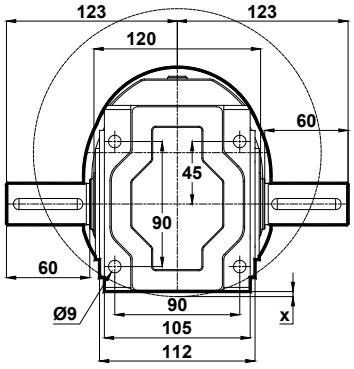
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN102.04
KN103.04





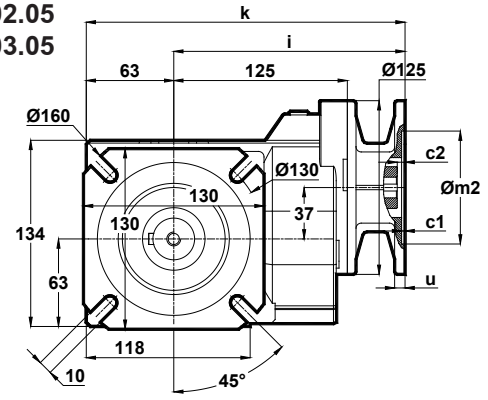


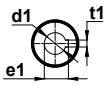


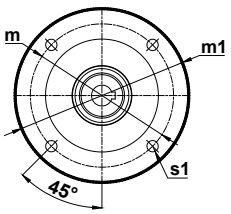
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

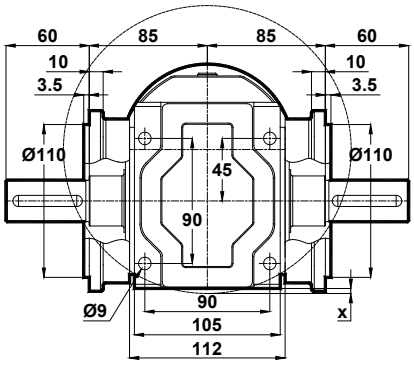
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	168	10	231	11	4	12.8	-
71/B5	4	4.5	11	130	160	110	169.5	12	232.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	184.5	12	247.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	184.5	12	247.5	24	8	27.3	-

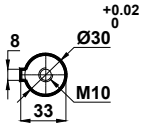
KN102.05
KN103.05





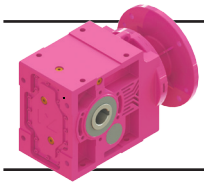






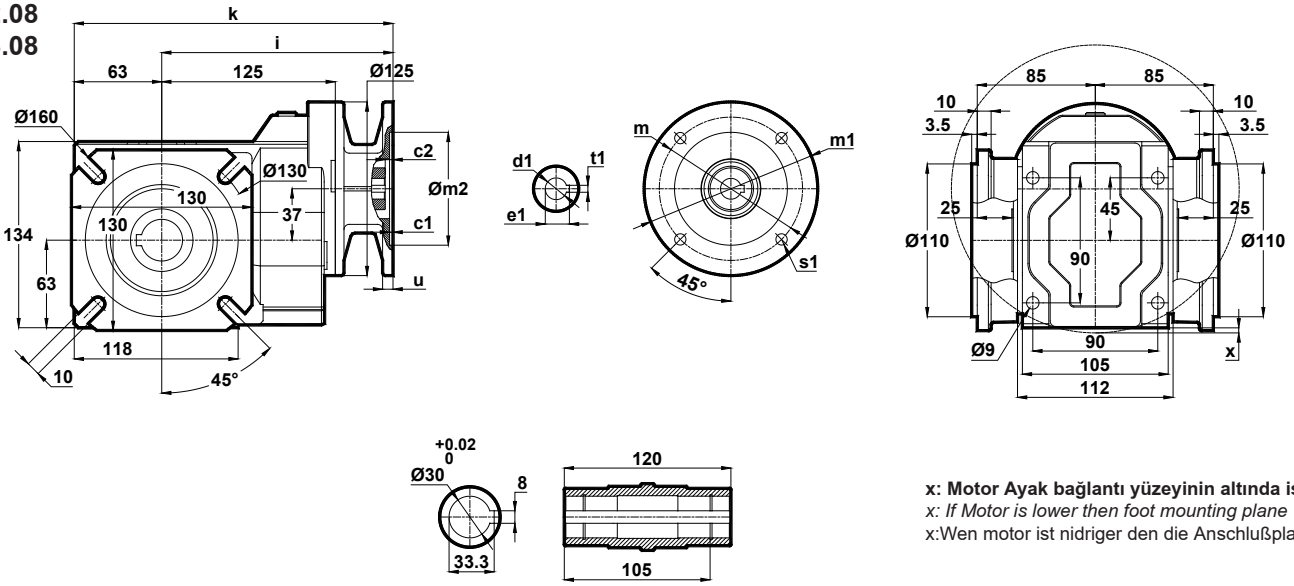
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	168	10	231	11	4	12.8	-
71/B5	4	4.5	11	130	160	110	169.5	12	232.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	184.5	12	247.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	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

KN102.08
KN103.08

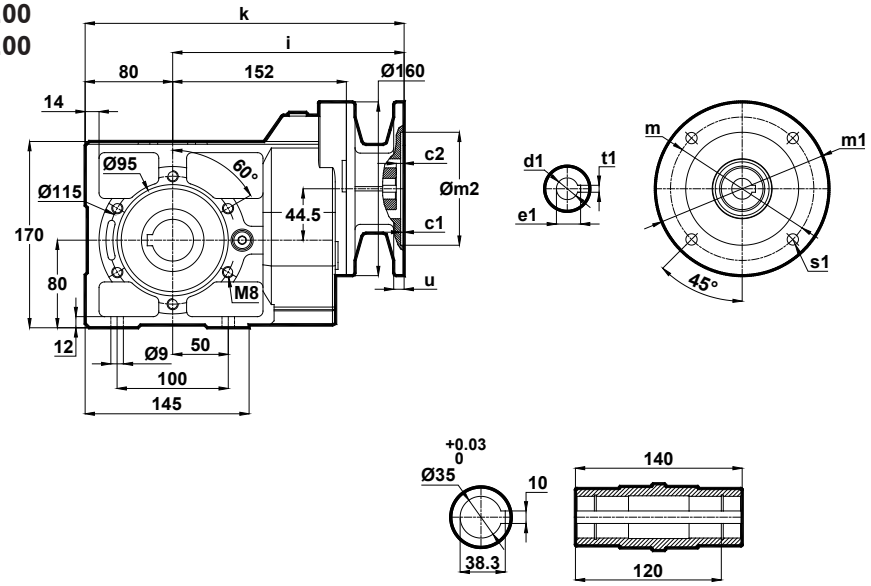


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	3.5	5	10	115	140	95	168	10	231	11	4	12.8	-
71/B5	4	4.5	11	130	160	110	169.5	12	232.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	184.5	12	247.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	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

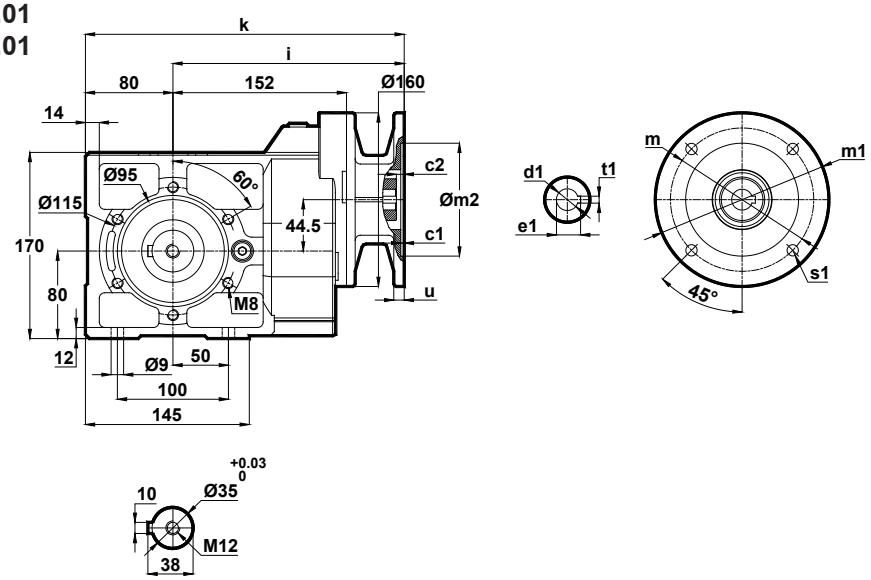
KN202.00
KN203.00



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

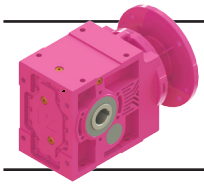
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	196.5	12	276.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	225.5	12	305.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	225.5	12	305.5	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	218.5	12	298.5	28	8	31.3	0.5
112/B5	4	5.5	15	215	250	180	218.5	12	298.5	28	8	31.3	0.5

KN202.01
KN203.01



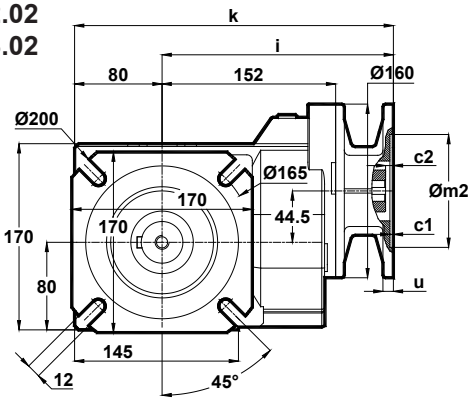
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

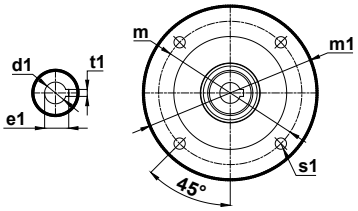
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	196.5	12	276.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	225.5	12	305.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	225.5	12	305.5	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	218.5	12	298.5	28	8	31.3	0.5
112/B5	4	5.5	15	215	250	180	218.5	12	298.5	28	8	31.3	0.5

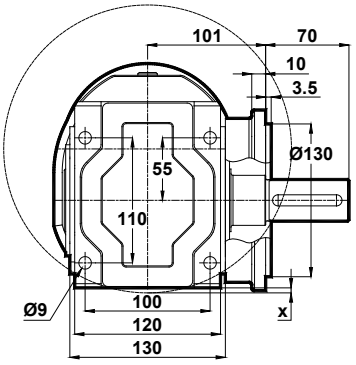


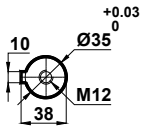
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN202.02
KN203.02





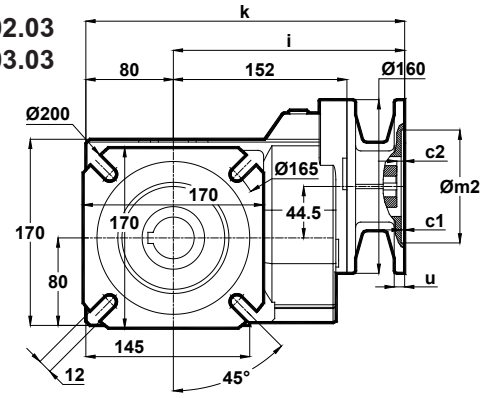


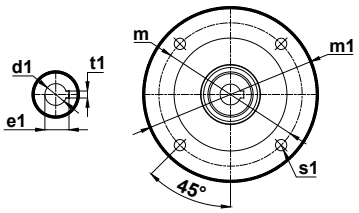


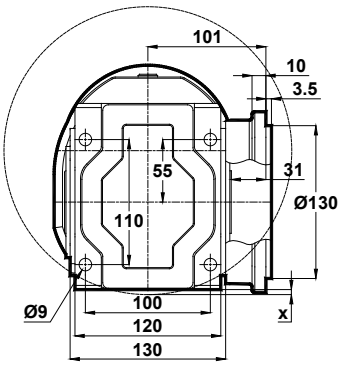
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

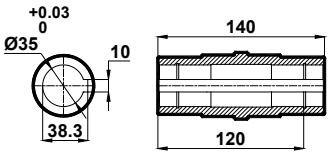
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	196.5	12	276.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	225.5	12	305.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	225.5	12	305.5	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	218.5	12	298.5	28	8	31.3	0.5
112/B5	4	5.5	15	215	250	180	218.5	12	298.5	28	8	31.3	0.5

KN202.03
KN203.03





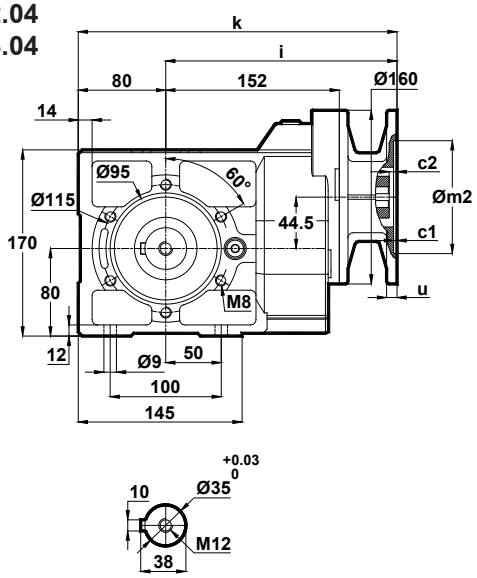




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	196.5	12	276.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	225.5	12	305.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	225.5	12	305.5	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	218.5	12	298.5	28	8	31.3	0.5
112/B5	4	5.5	15	215	250	180	218.5	12	298.5	28	8	31.3	0.5

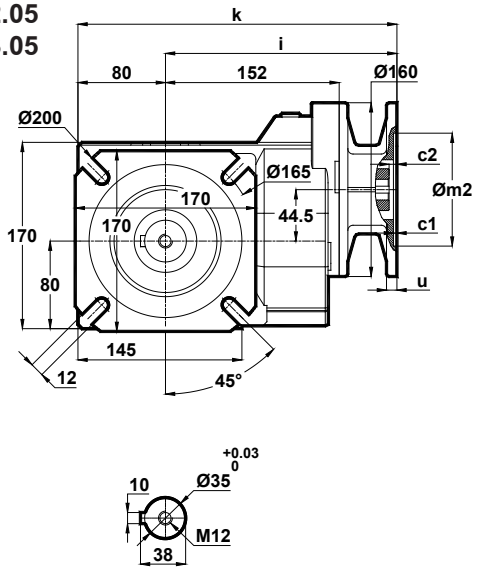
KN202.04
KN203.04



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

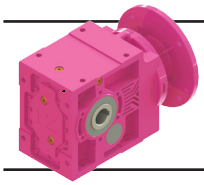
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	196.5	12	276.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	225.5	12	305.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	225.5	12	305.5	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	218.5	12	298.5	28	8	31.3	0.5
112/B5	4	5.5	15	215	250	180	218.5	12	298.5	28	8	31.3	0.5

KN202.05
KN203.05



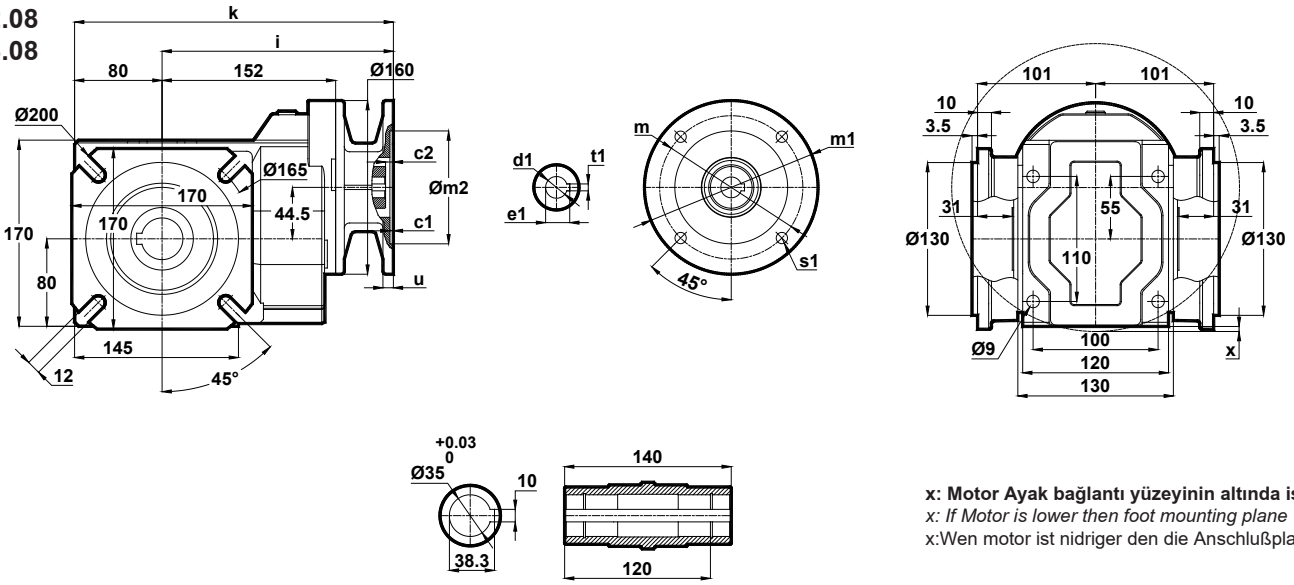
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	196.5	12	276.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	225.5	12	305.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	225.5	12	305.5	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	218.5	12	298.5	28	8	31.3	0.5
112/B5	4	5.5	15	215	250	180	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

KN202.08
KN203.08

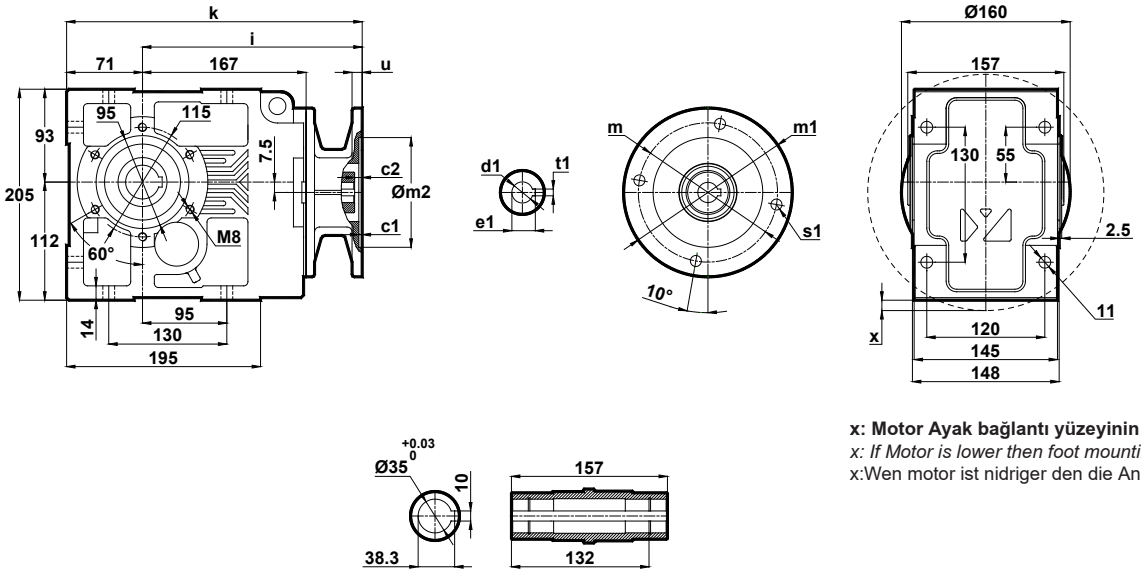


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	225.5	12	305.5	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	196.5	12	276.5	14	5	16.3	-
80/B5	4	5	13	165	200	130	225.5	12	305.5	19	6	21.8	-
90/B5	4	5	13	165	200	130	225.5	12	305.5	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	218.5	12	298.5	28	8	31.3	0.5
112/B5	4	5.5	15	215	250	180	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

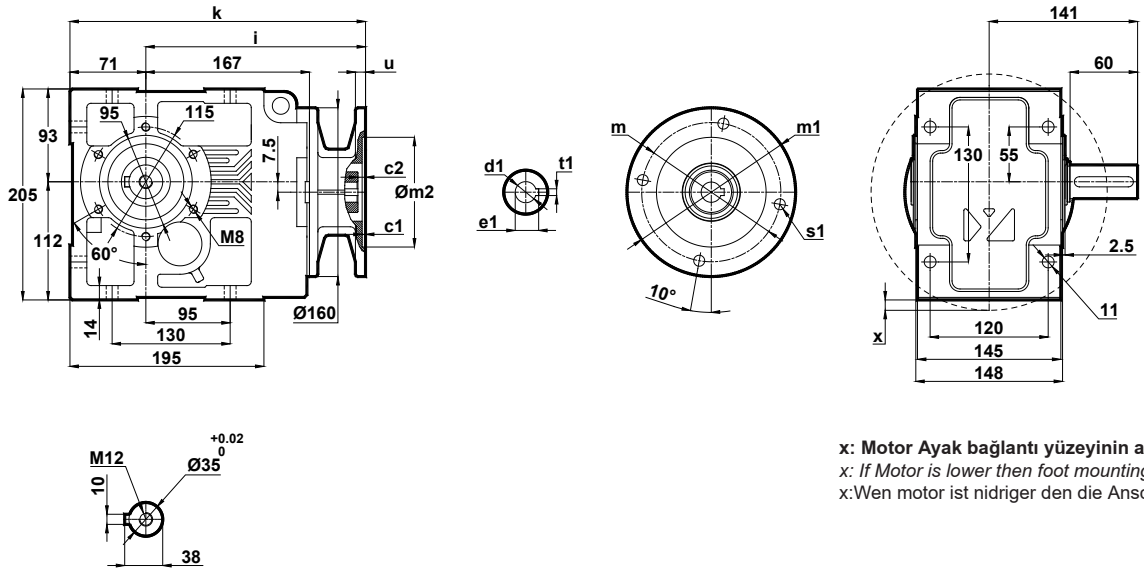
KN273.00



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	241	12	312	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	212	12	283	14	5	16.3	-
80/B5	4	5	13	165	200	130	241	12	312	19	6	21.8	-
90/B5	4	5	13	165	200	130	241	12	312	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5
112/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5

KN273.01

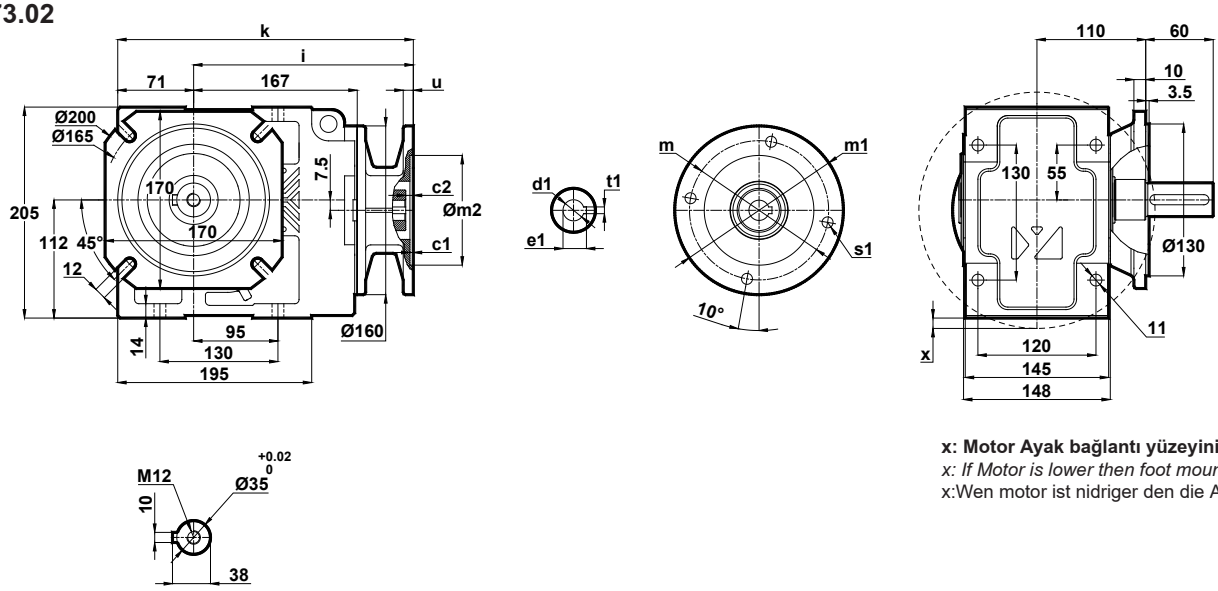


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	241	12	312	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	212	12	283	14	5	16.3	-
80/B5	4	5	13	165	200	130	241	12	312	19	6	21.8	-
90/B5	4	5	13	165	200	130	241	12	312	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5
112/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5

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

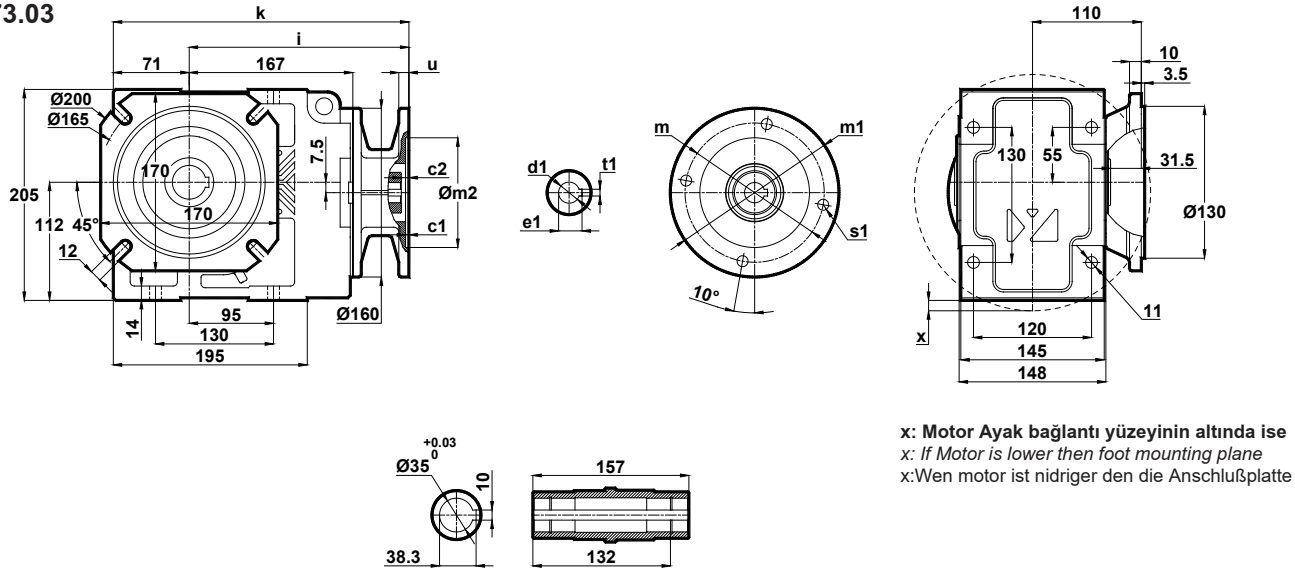
KN273.02



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	241	12	312	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	212	12	283	14	5	16.3	-
80/B5	4	5	13	165	200	130	241	12	312	19	6	21.8	-
90/B5	4	5	13	165	200	130	241	12	312	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5
112/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5

KN273.03

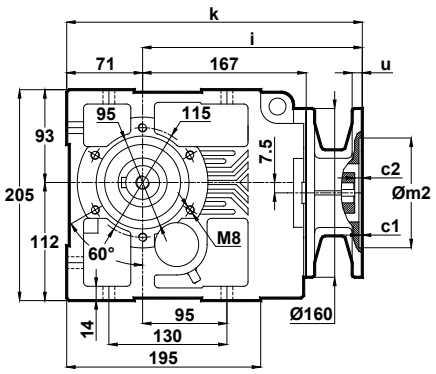


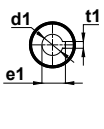
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

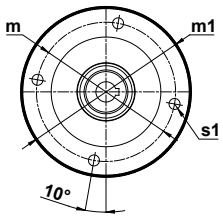
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	241	12	312	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	212	12	283	14	5	16.3	-
80/B5	4	5	13	165	200	130	241	12	312	19	6	21.8	-
90/B5	4	5	13	165	200	130	241	12	312	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5
112/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5

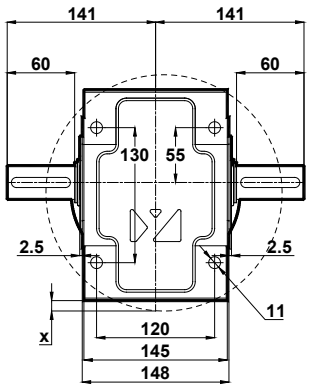
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

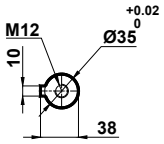
KN273.04







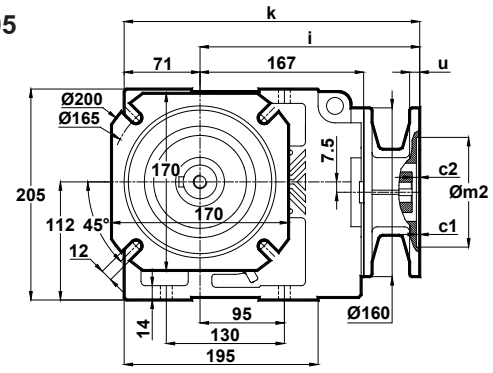


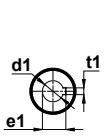


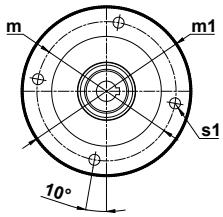
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

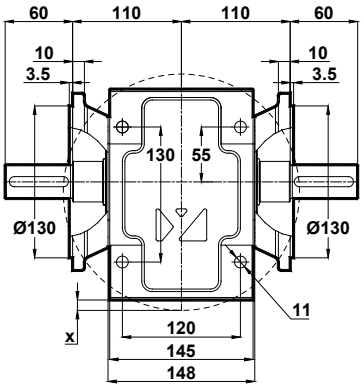
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	241	12	312	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	212	12	283	14	5	16.3	-
80/B5	4	5	13	165	200	130	241	12	312	19	6	21.8	-
90/B5	4	5	13	165	200	130	241	12	312	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5
112/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5

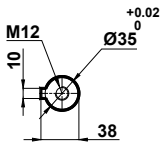
KN273.05









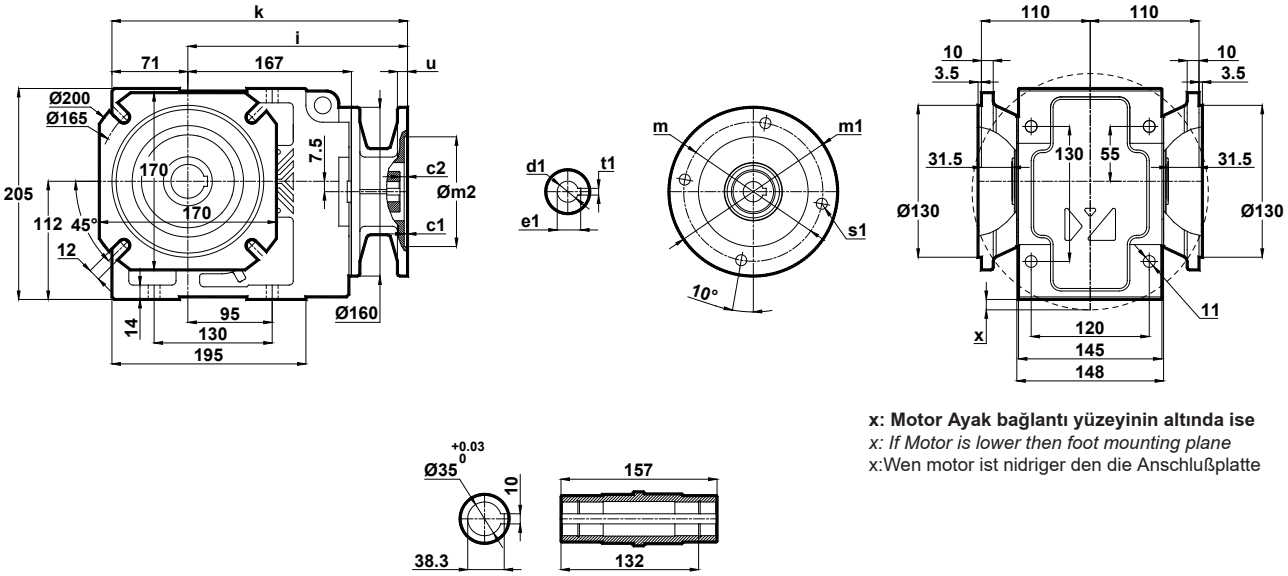


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	241	12	312	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	212	12	283	14	5	16.3	-
80/B5	4	5	13	165	200	130	241	12	312	19	6	21.8	-
90/B5	4	5	13	165	200	130	241	12	312	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5
112/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5

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

KN273.08

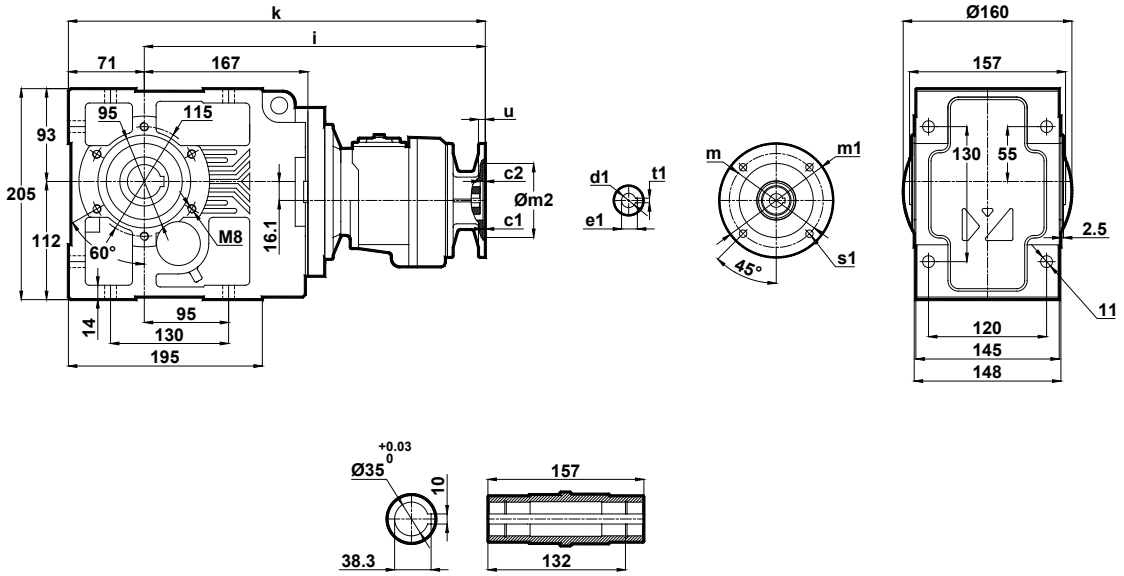


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	241	12	312	11	4	12.8	-
71/B5	4	8.5	11	130	160	110	212	12	283	14	5	16.3	-
80/B5	4	5	13	165	200	130	241	12	312	19	6	21.8	-
90/B5	4	5	13	165	200	130	241	12	312	24	8	27.3	-
100/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5
112/B5	4	5.5	15	215	250	180	234	12	305	28	8	31.3	20.5

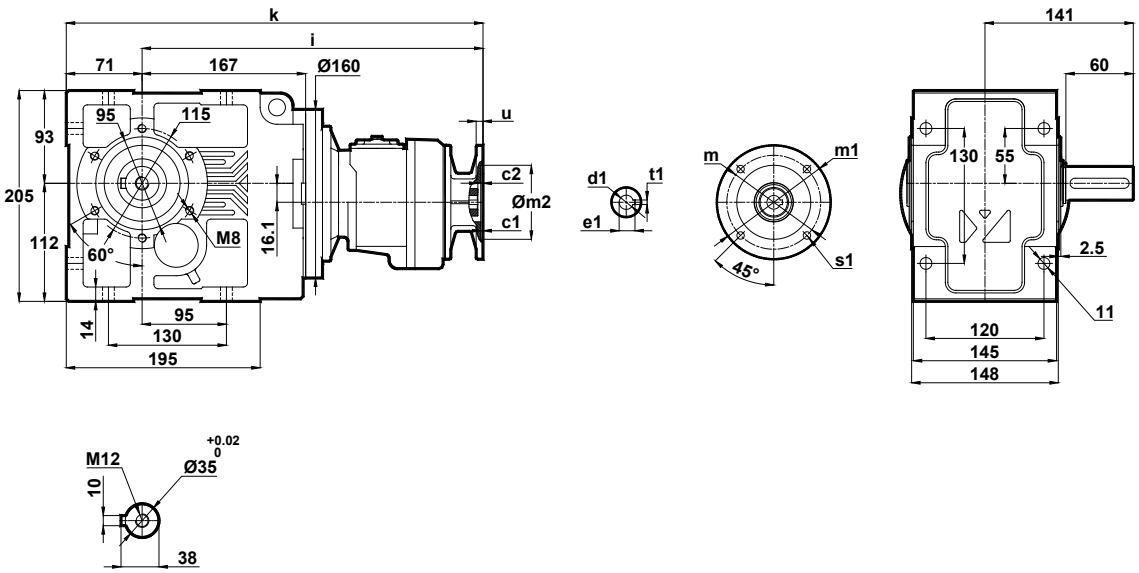
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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
71/B5	4	4.5	11	130	160	110	358	12	429	14	5	16.3
80/B5	4	5	13	165	200	130	373	12	444	19	6	21.8

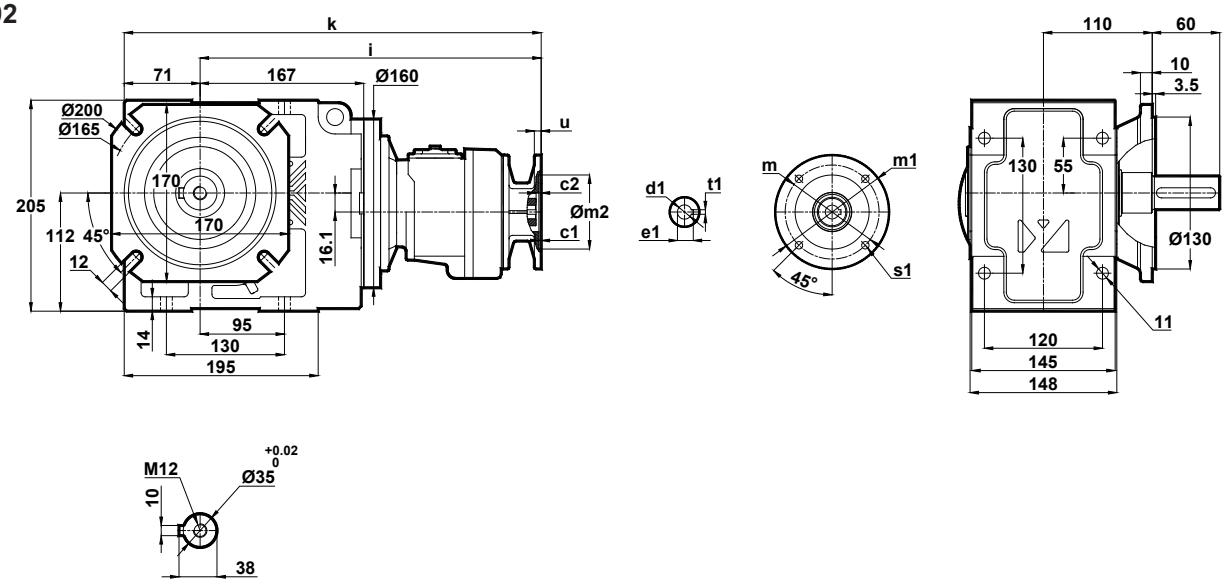
KN275.01
KN276.01



	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
71/B5	4	4.5	11	130	160	110	358	12	429	14	5	16.3
80/B5	4	5	13	165	200	130	373	12	444	19	6	21.8

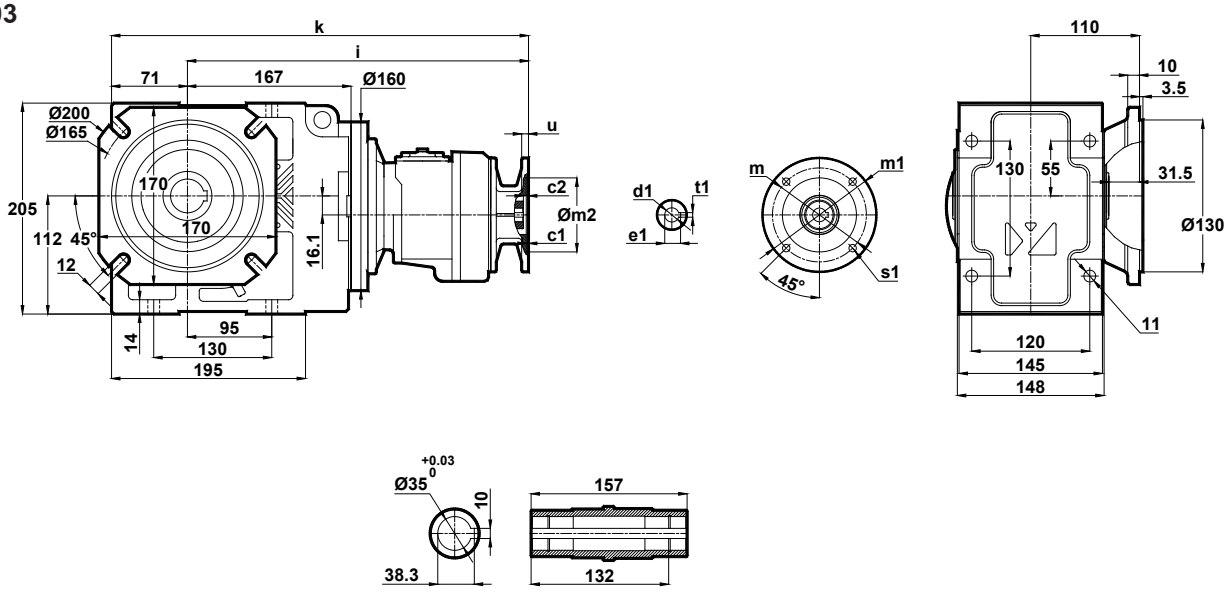
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN275.02
KN276.02



	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
71/B5	4	4.5	11	130	160	110	358	12	429	14	5	16.3
80/B5	4	5	13	165	200	130	373	12	444	19	6	21.8

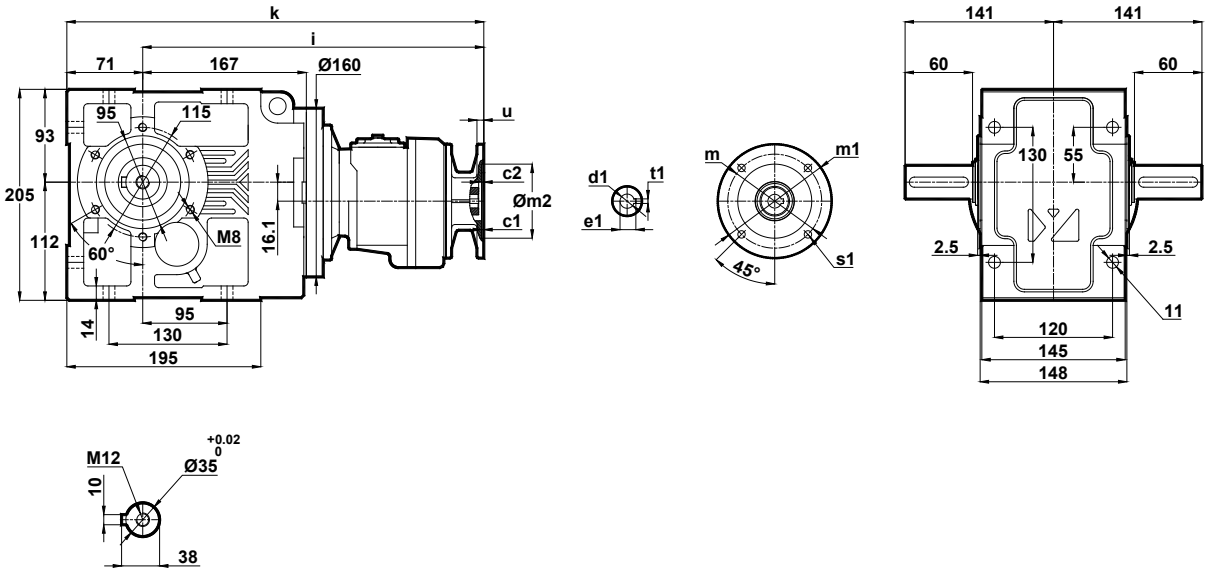
KN275.03
KN276.03



	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
71/B5	4	4.5	11	130	160	110	358	12	429	14	5	16.3
80/B5	4	5	13	165	200	130	373	12	444	19	6	21.8

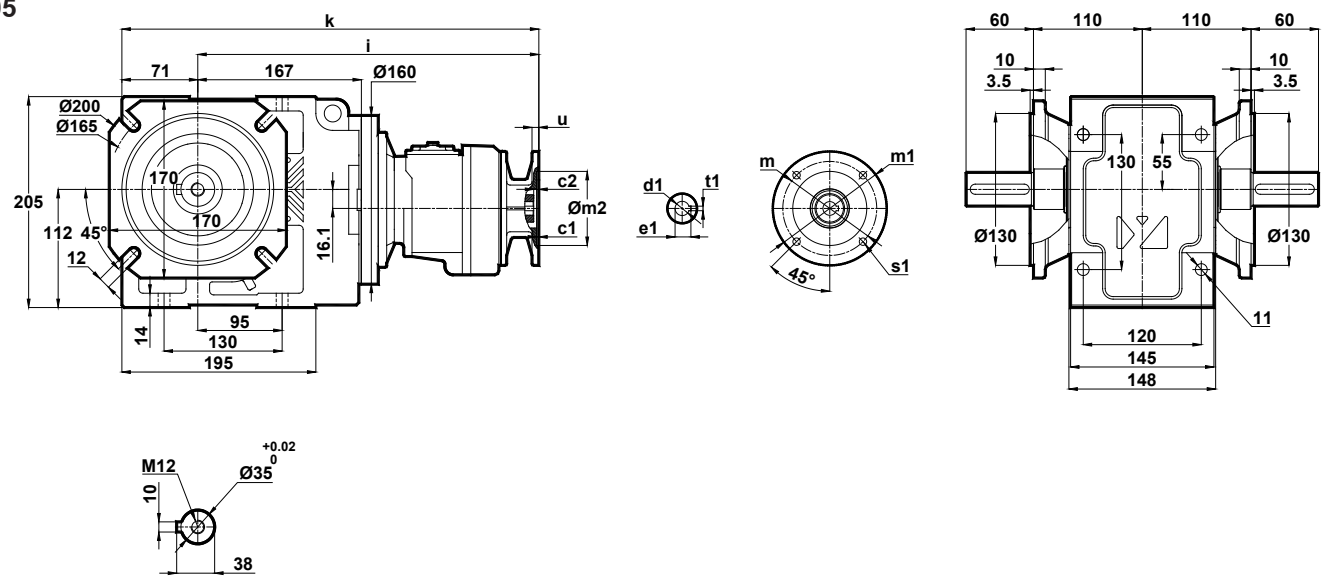
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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
71/B5	4	4.5	11	130	160	110	358	12	429	14	5	16.3
80/B5	4	5	13	165	200	130	373	12	444	19	6	21.8

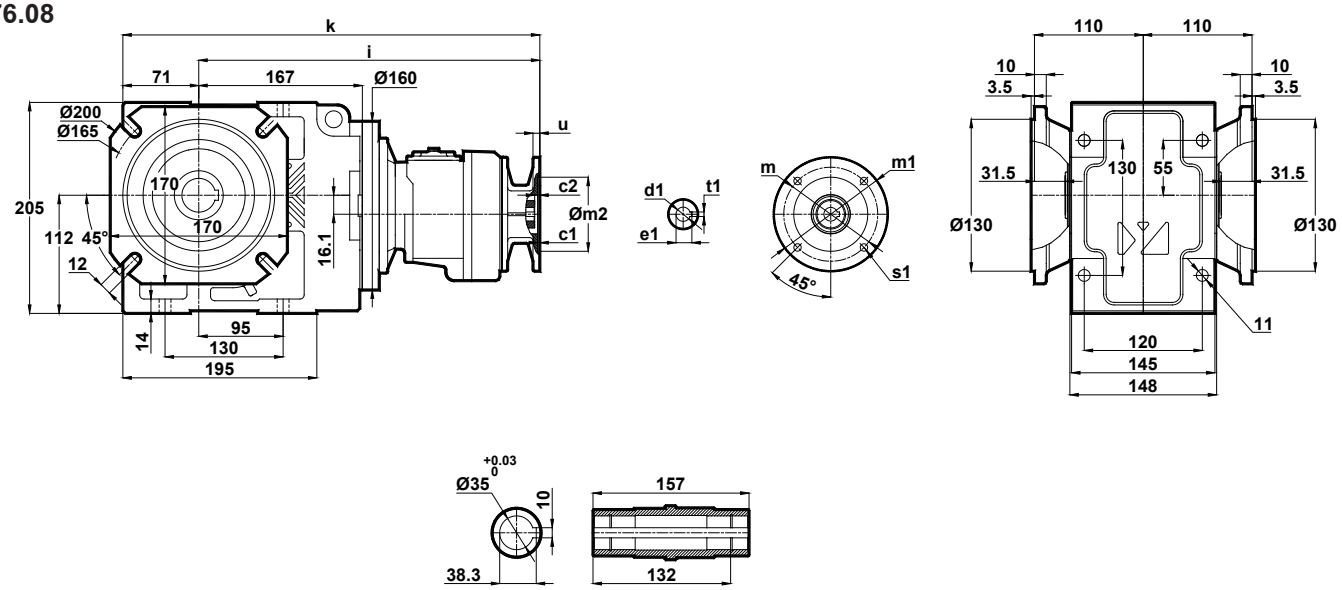
KN275.05
KN276.05



	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
71/B5	4	4.5	11	130	160	110	358	12	429	14	5	16.3
80/B5	4	5	13	165	200	130	373	12	444	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

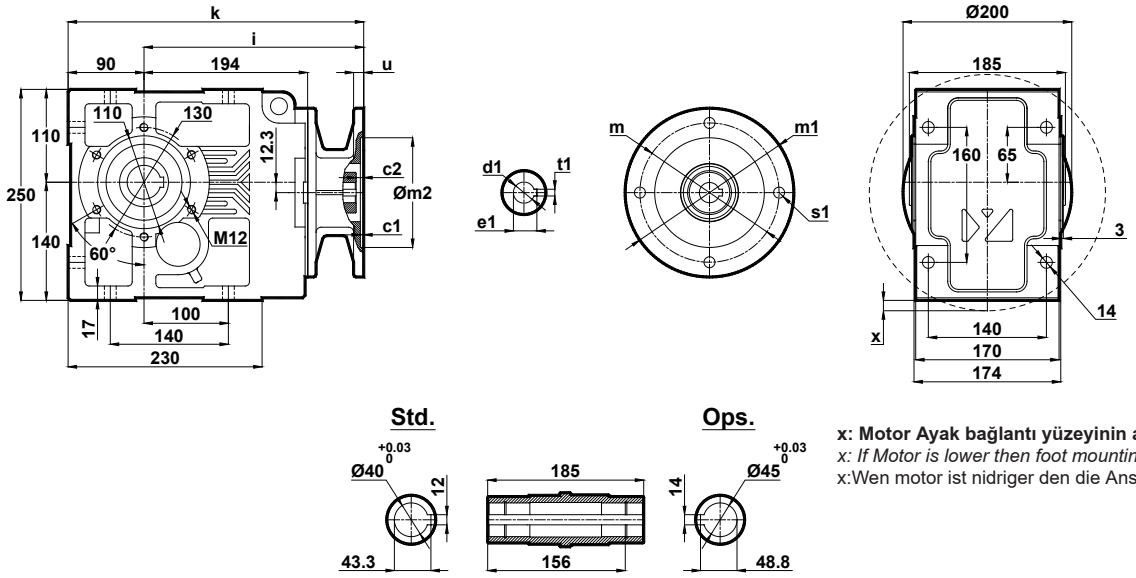
KN275.08
KN276.08



	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
71/B5	4	4.5	11	130	160	110	358	12	429	14	5	16.3
80/B5	4	5	13	165	200	130	373	12	444	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

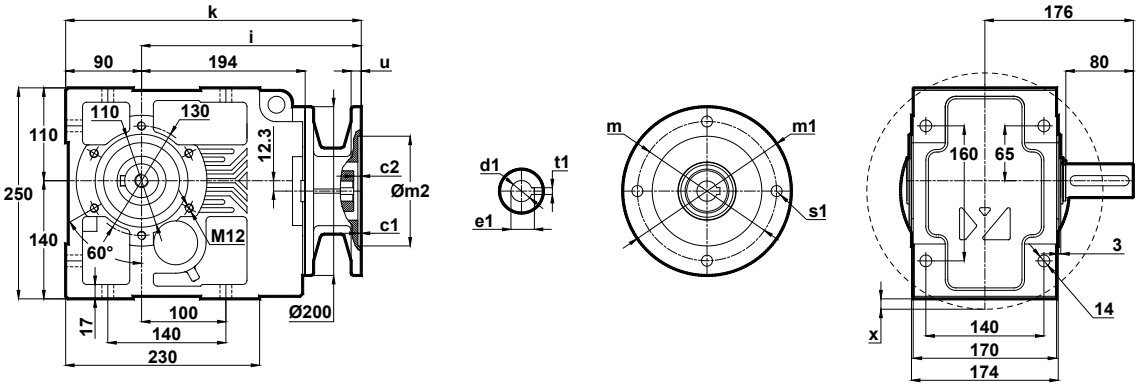
KN373.00

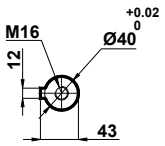


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	261	12	351	14	5	16.3	-
80/B5	4	9	13	165	200	130	261	12	351	19	6	21.8	-
90/B5	4	9	13	165	200	130	261	12	351	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
132/B5	4.5	7	15	265	300	230	298	15	388	38	10	41.3	22.3

KN373.01



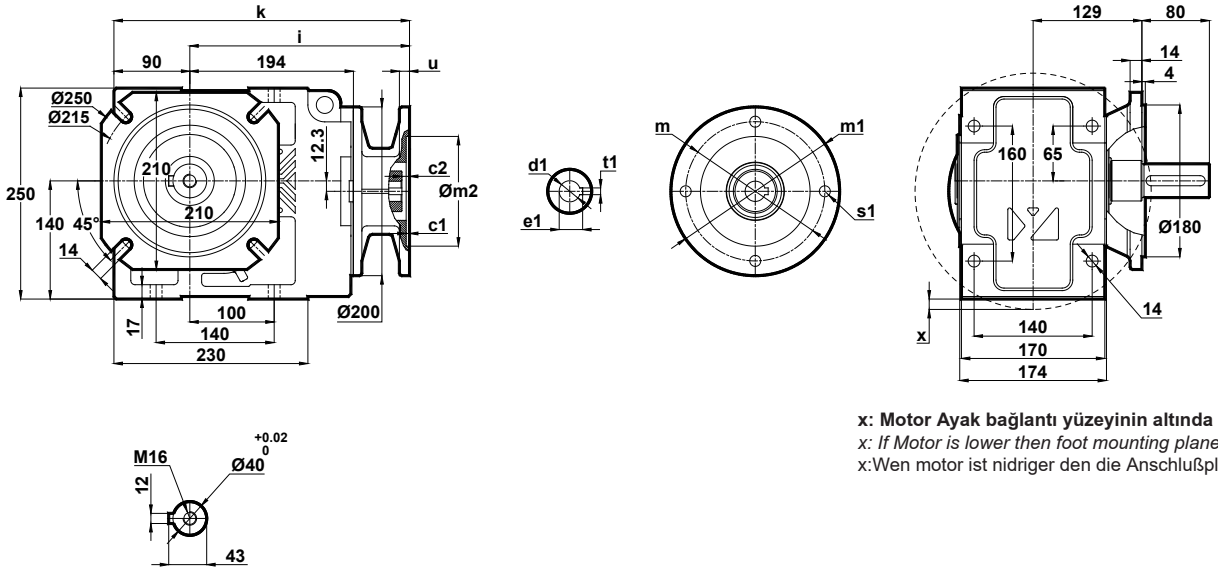


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	261	12	351	14	5	16.3	-
80/B5	4	9	13	165	200	130	261	12	351	19	6	21.8	-
90/B5	4	9	13	165	200	130	261	12	351	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
132/B5	4.5	7	15	265	300	230	298	15	388	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

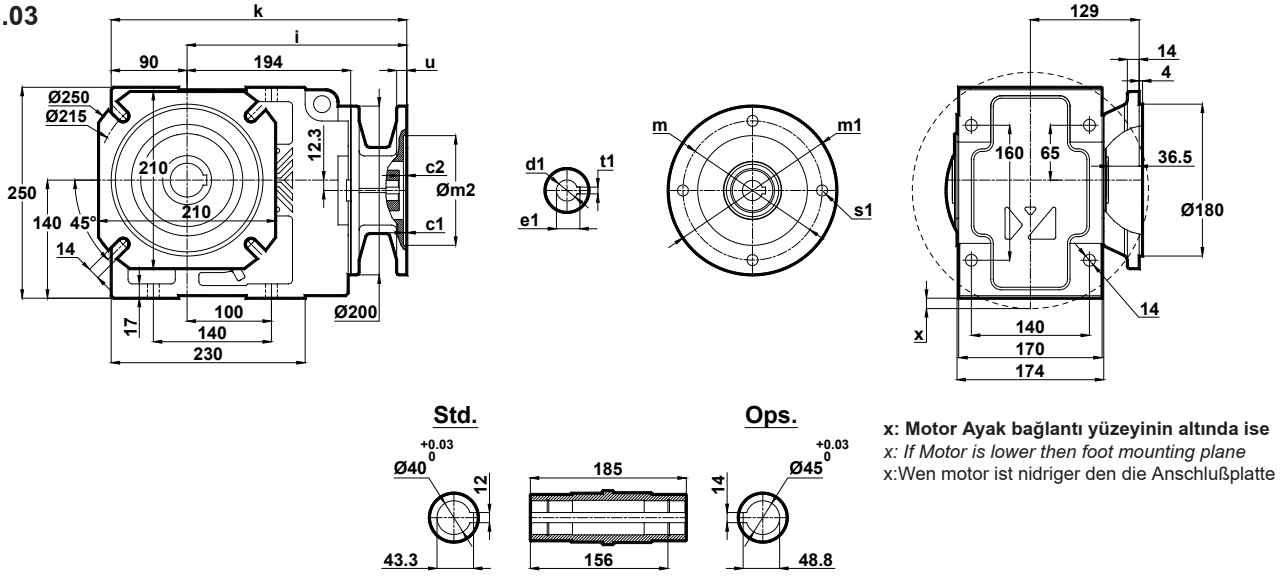
KN373.02



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	261	12	351	14	5	16.3	-
80/B5	4	9	13	165	200	130	261	12	351	19	6	21.8	-
90/B5	4	9	13	165	200	130	261	12	351	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
132/B5	4.5	7	15	265	300	230	298	15	388	38	10	41.3	22.3

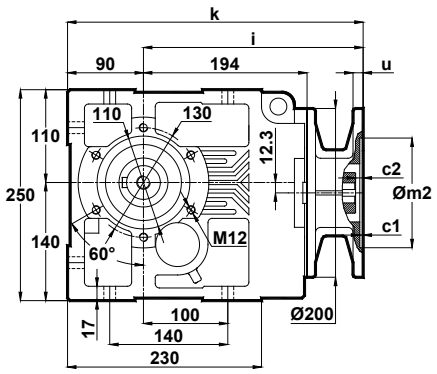
KN373.03

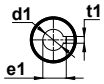


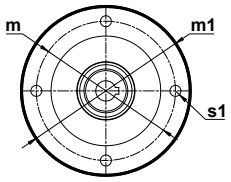
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

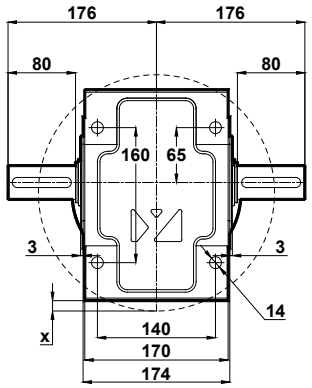
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	261	12	351	14	5	16.3	-
80/B5	4	9	13	165	200	130	261	12	351	19	6	21.8	-
90/B5	4	9	13	165	200	130	261	12	351	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
132/B5	4.5	7	15	265	300	230	298	15	388	38	10	41.3	22.3

KN373.04

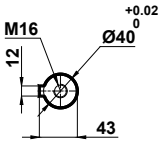






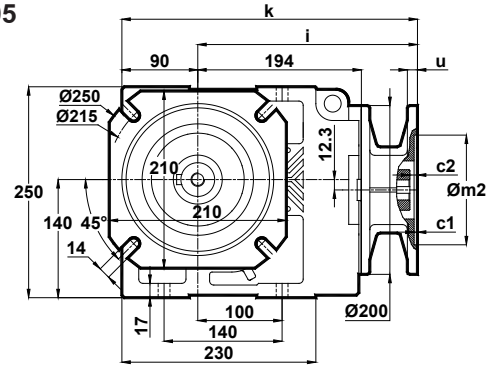


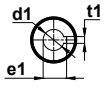
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

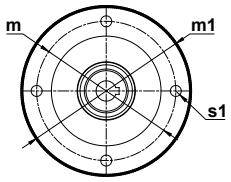


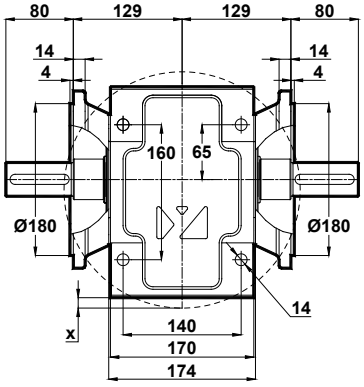
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	261	12	351	14	5	16.3	-
80/B5	4	9	13	165	200	130	261	12	351	19	6	21.8	-
90/B5	4	9	13	165	200	130	261	12	351	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
132/B5	4.5	7	15	265	300	230	298	15	388	38	10	41.3	22.3

KN373.05

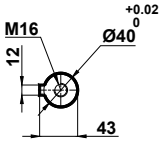








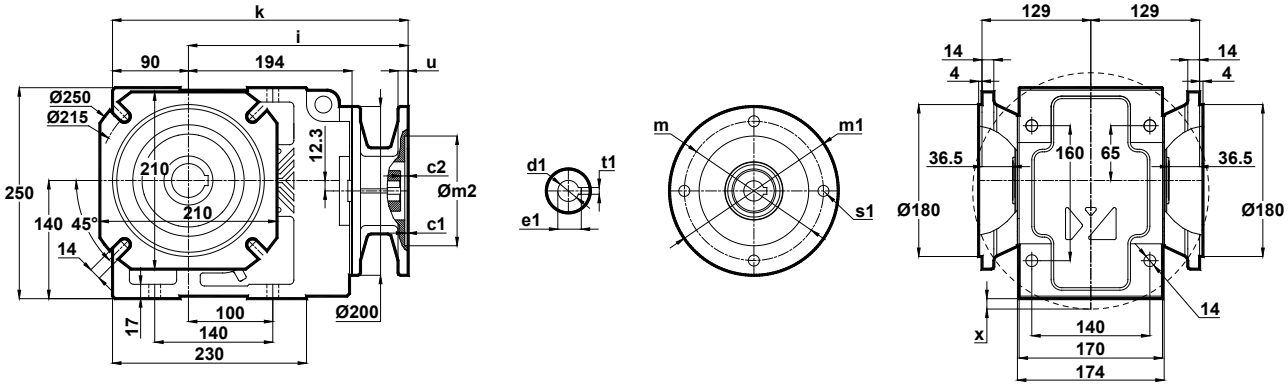
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

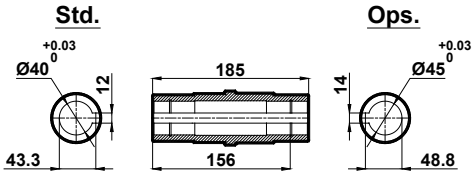


	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	261	12	351	14	5	16.3	-
80/B5	4	9	13	165	200	130	261	12	351	19	6	21.8	-
90/B5	4	9	13	165	200	130	261	12	351	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
132/B5	4.5	7	15	265	300	230	298	15	388	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



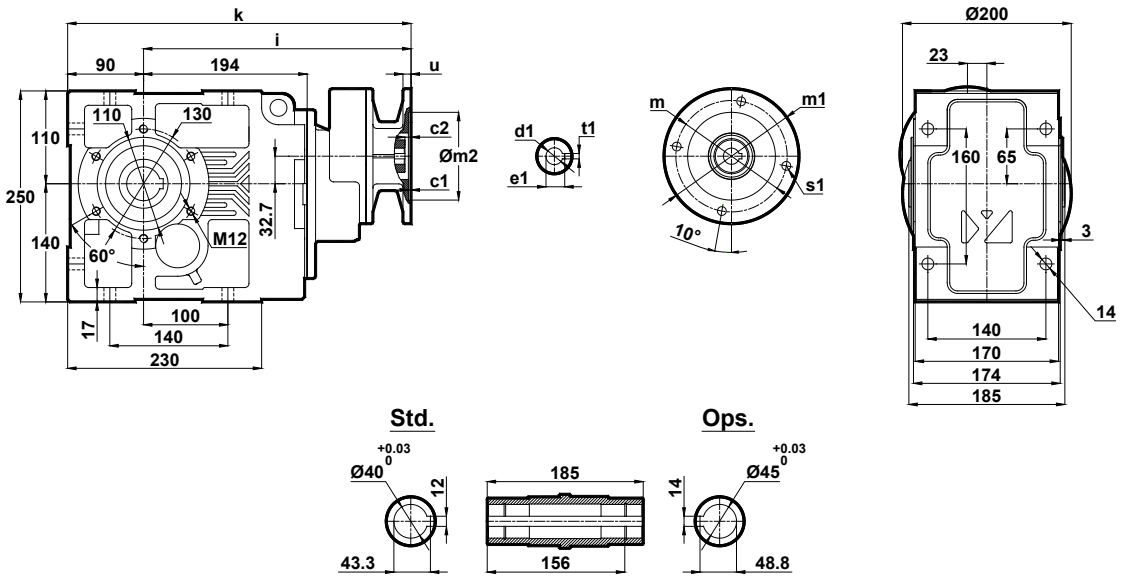


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	261	12	351	14	5	16.3	-
80/B5	4	9	13	165	200	130	261	12	351	19	6	21.8	-
90/B5	4	9	13	165	200	130	261	12	351	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	278	15	368	28	8	31.3	-
132/B5	4.5	7	15	265	300	230	298	15	388	38	10	41.3	22.3

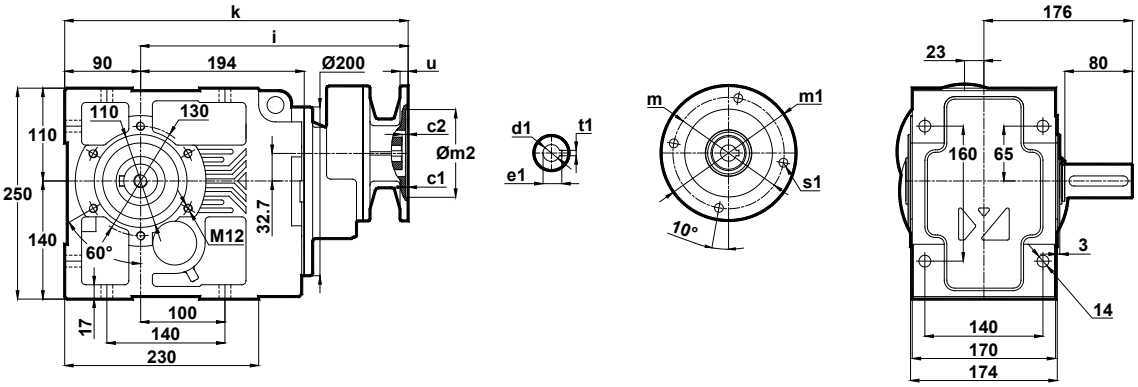
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

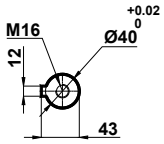
KN374.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	338	12	428	11	4	12.8
71/B5	4	8.5	11	130	160	110	309	12	399	14	5	16.3
80/B5	4	5	13	165	200	130	338	12	428	19	6	21.8

KN374.01

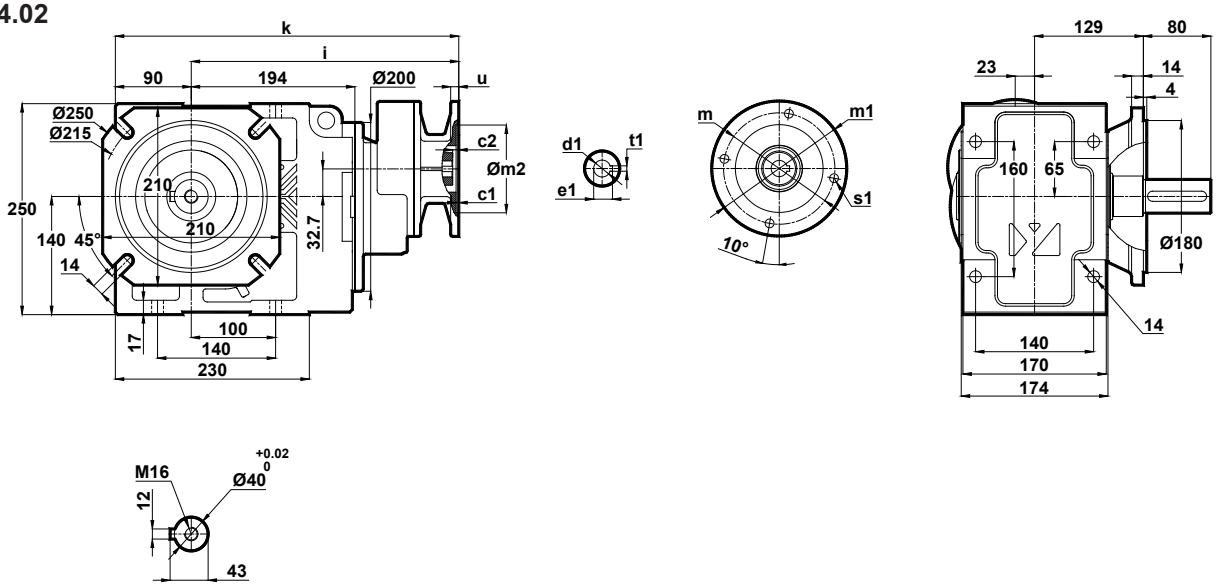




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	338	12	428	11	4	12.8
71/B5	4	8.5	11	130	160	110	309	12	399	14	5	16.3
80/B5	4	5	13	165	200	130	338	12	428	19	6	21.8

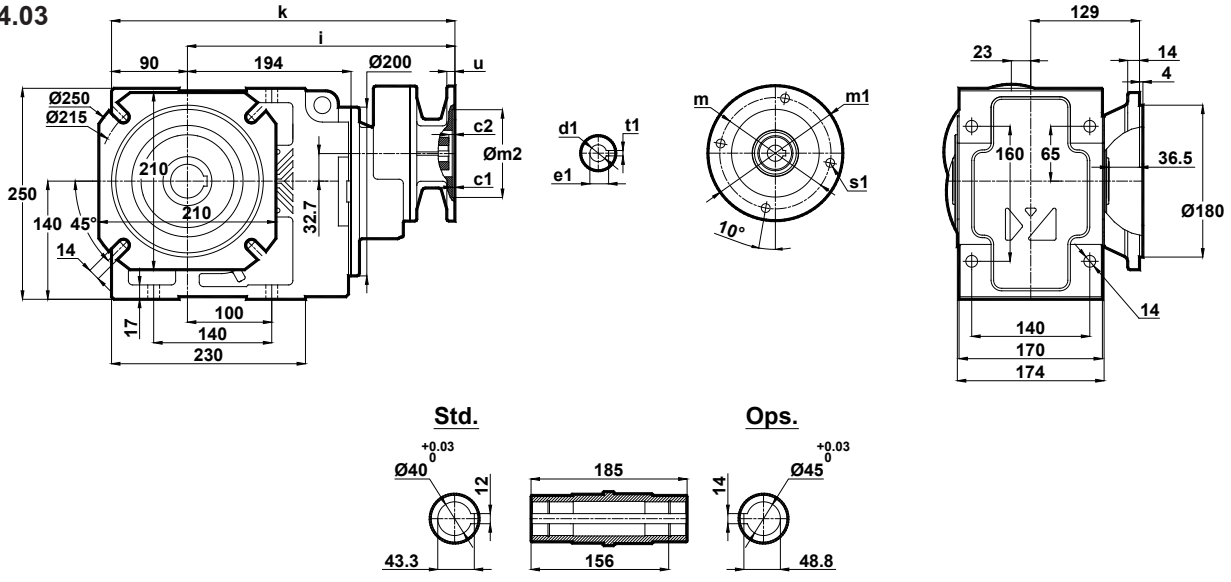
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN374.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	338	12	428	11	4	12.8
71/B5	4	8.5	11	130	160	110	309	12	399	14	5	16.3
80/B5	4	5	13	165	200	130	338	12	428	19	6	21.8

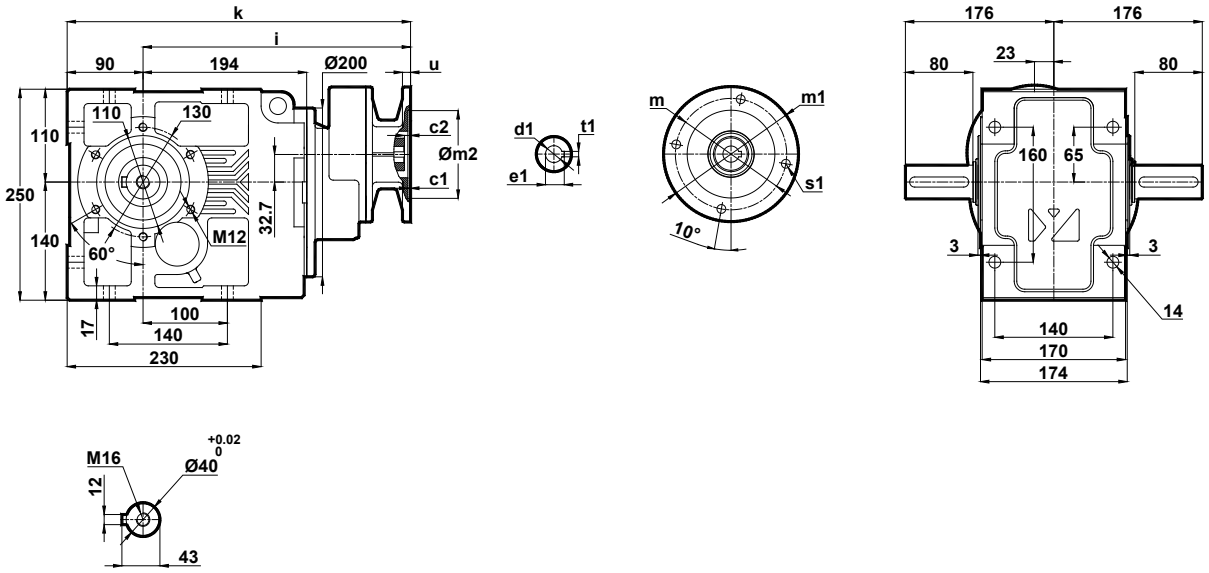
KN374.03



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	338	12	428	11	4	12.8
71/B5	4	8.5	11	130	160	110	309	12	399	14	5	16.3
80/B5	4	5	13	165	200	130	338	12	428	19	6	21.8

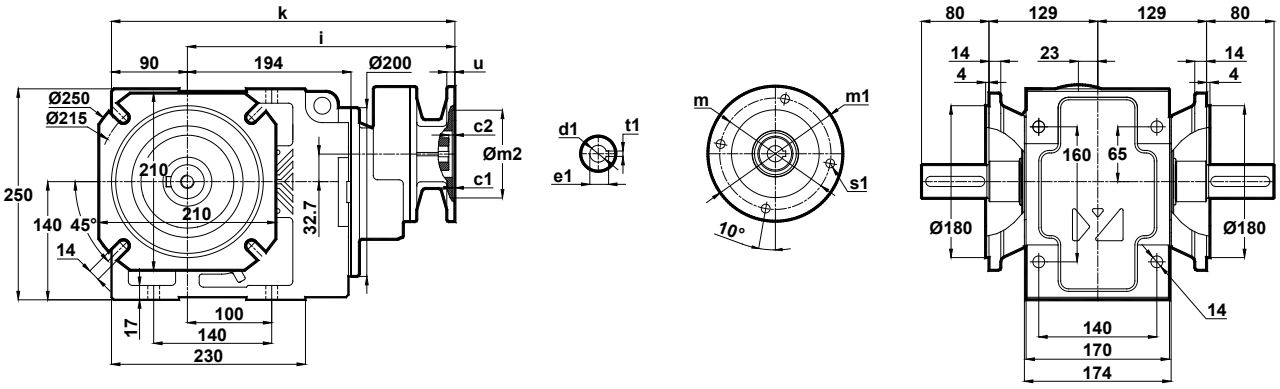
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

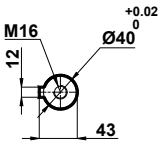
KN374.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	338	12	428	11	4	12.8
71/B5	4	8.5	11	130	160	110	309	12	399	14	5	16.3
80/B5	4	5	13	165	200	130	338	12	428	19	6	21.8

KN374.05

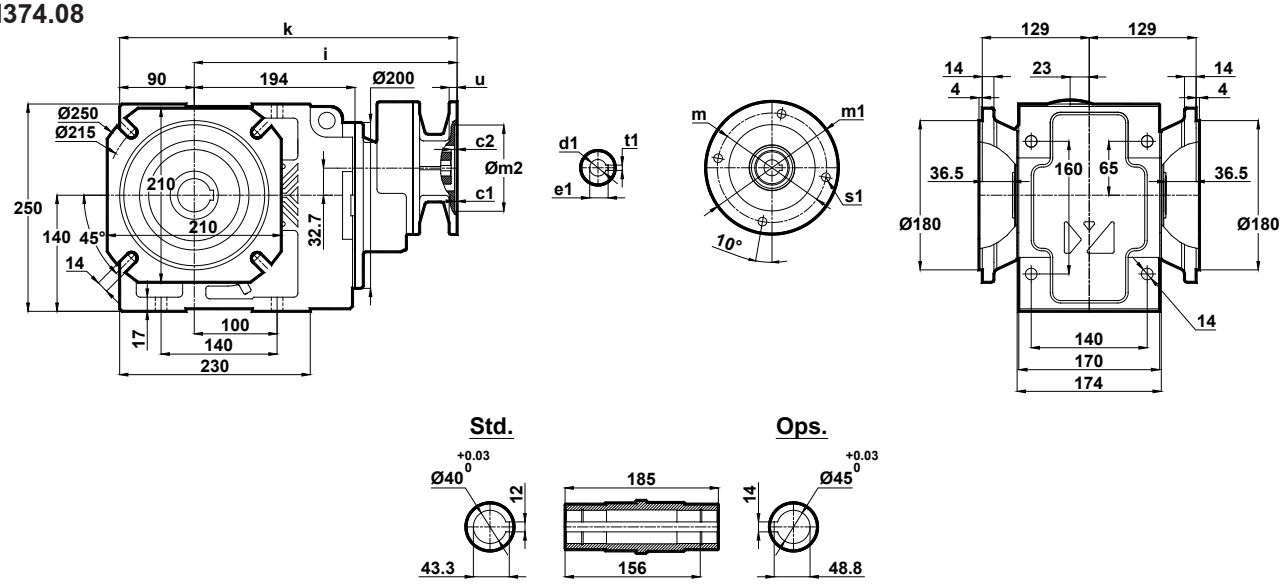




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	338	12	428	11	4	12.8
71/B5	4	8.5	11	130	160	110	309	12	399	14	5	16.3
80/B5	4	5	13	165	200	130	338	12	428	19	6	21.8

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

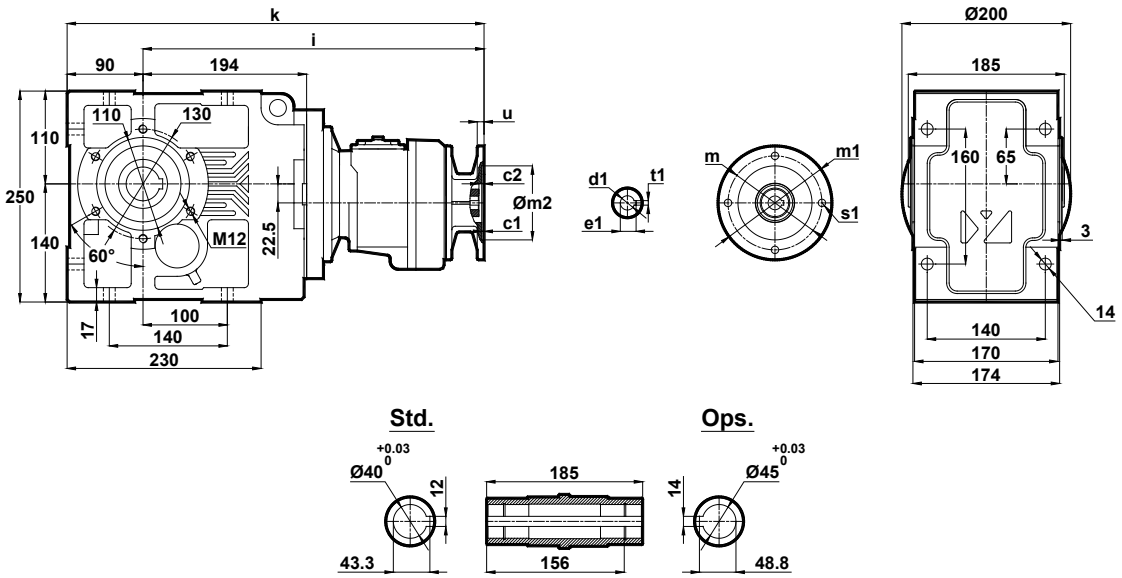
KN374.08



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	338	12	428	11	4	12.8
71/B5	4	8.5	11	130	160	110	309	12	399	14	5	16.3
80/B5	4	5	13	165	200	130	338	12	428	19	6	21.8

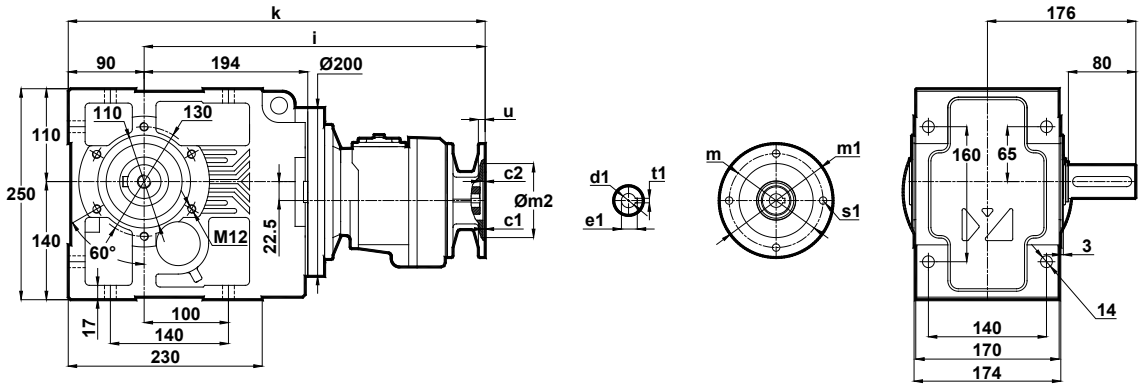
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

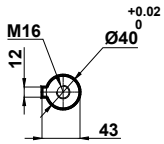
KN375.00
KN376.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	405	10	495	11	4	12.8
71/B5	4	4.5	11	130	160	110	405	12	495	14	5	16.3

KN375.01
KN376.01

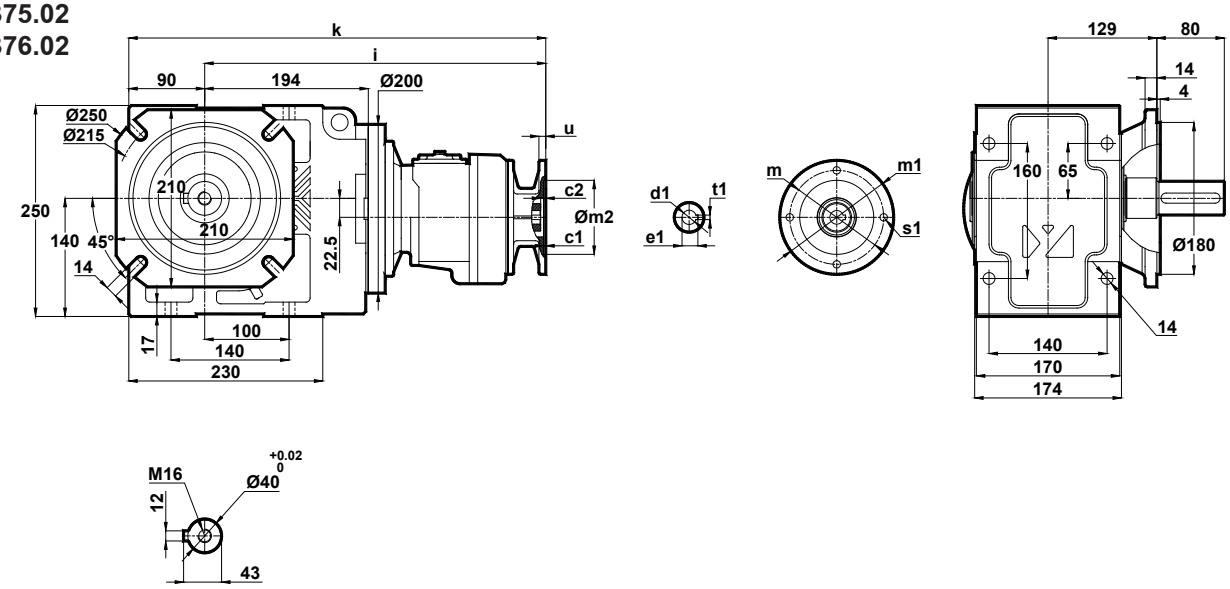




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	405	10	495	11	4	12.8
71/B5	4	4.5	11	130	160	110	405	12	495	14	5	16.3

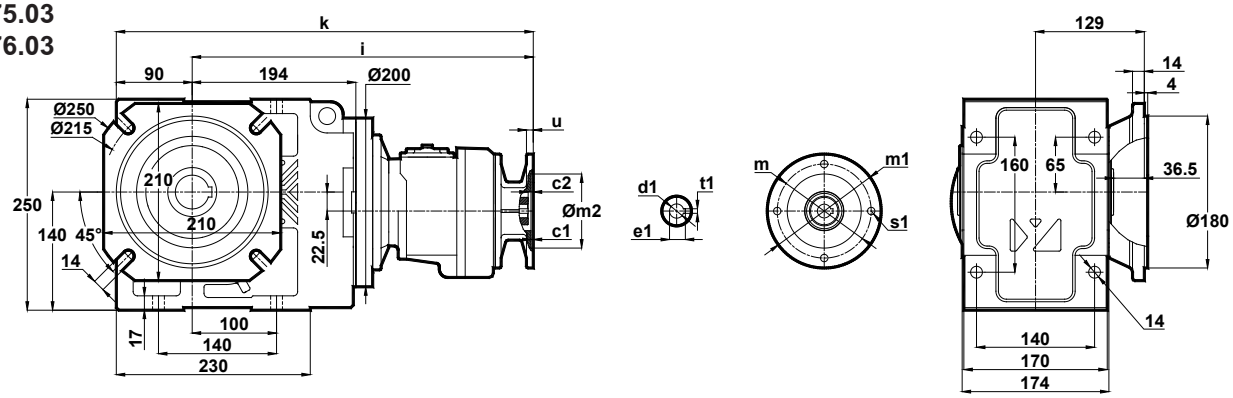
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN375.02
KN376.02

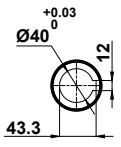


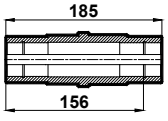
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	405	10	495	11	4	12.8
71/B5	4	4.5	11	130	160	110	405	12	495	14	5	16.3

KN375.03
KN376.03

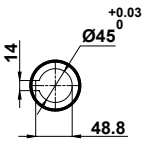


Std.



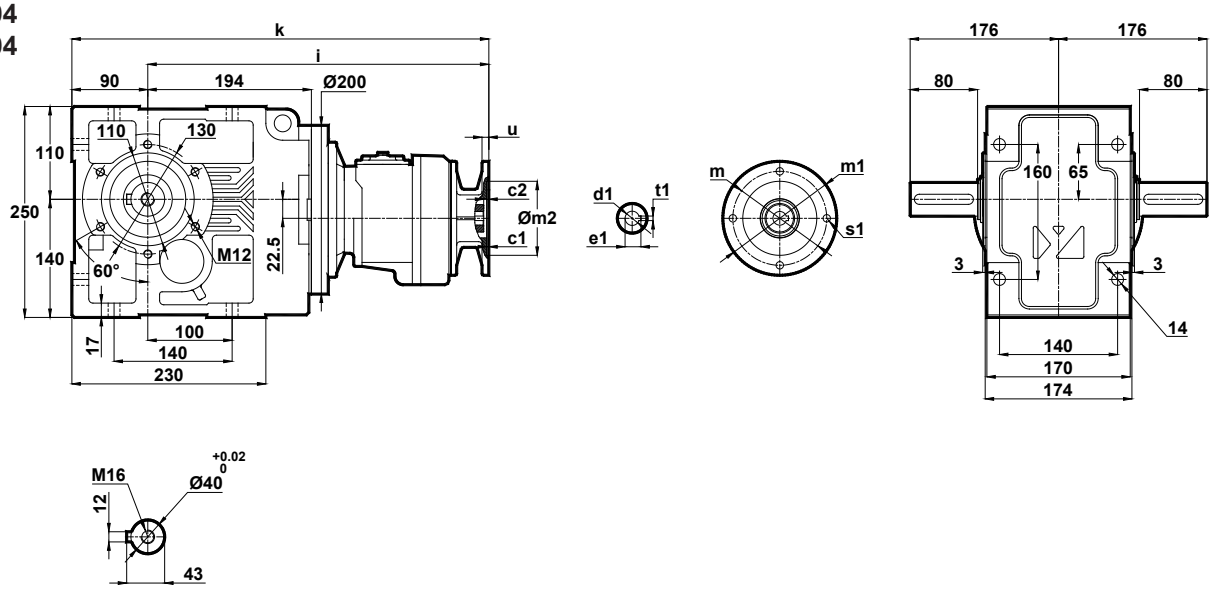


Ops.



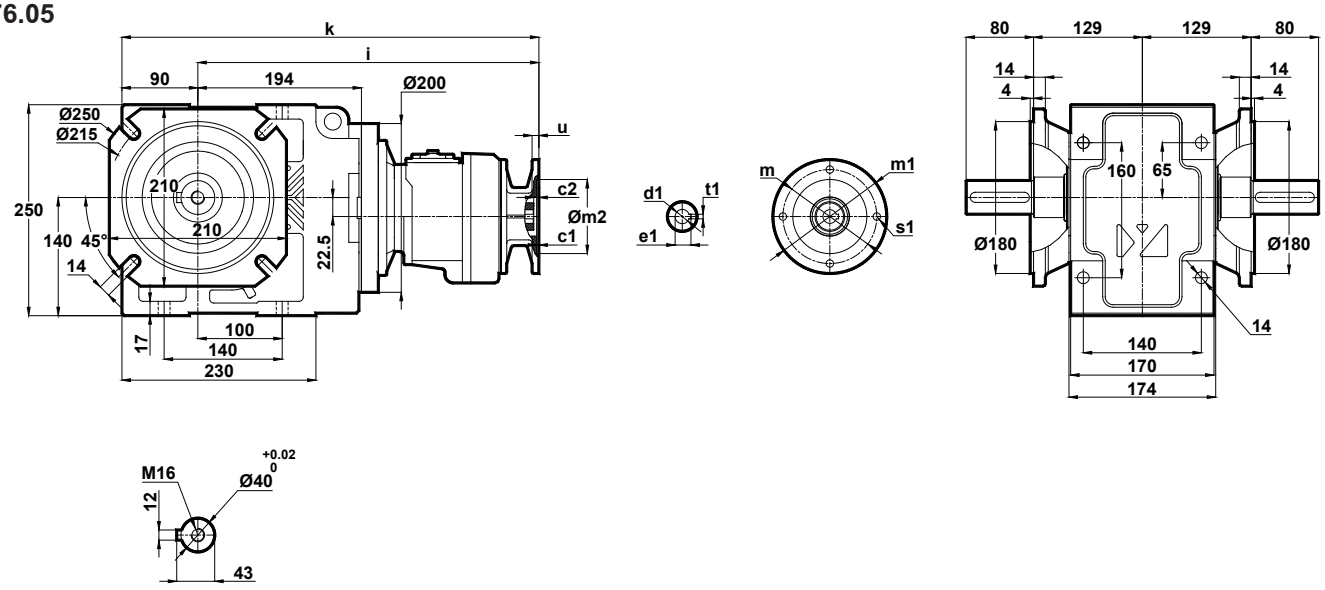
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	405	10	495	11	4	12.8
71/B5	4	4.5	11	130	160	110	405	12	495	14	5	16.3

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	405	10	495	11	4	12.8
71/B5	4	4.5	11	130	160	110	405	12	495	14	5	16.3

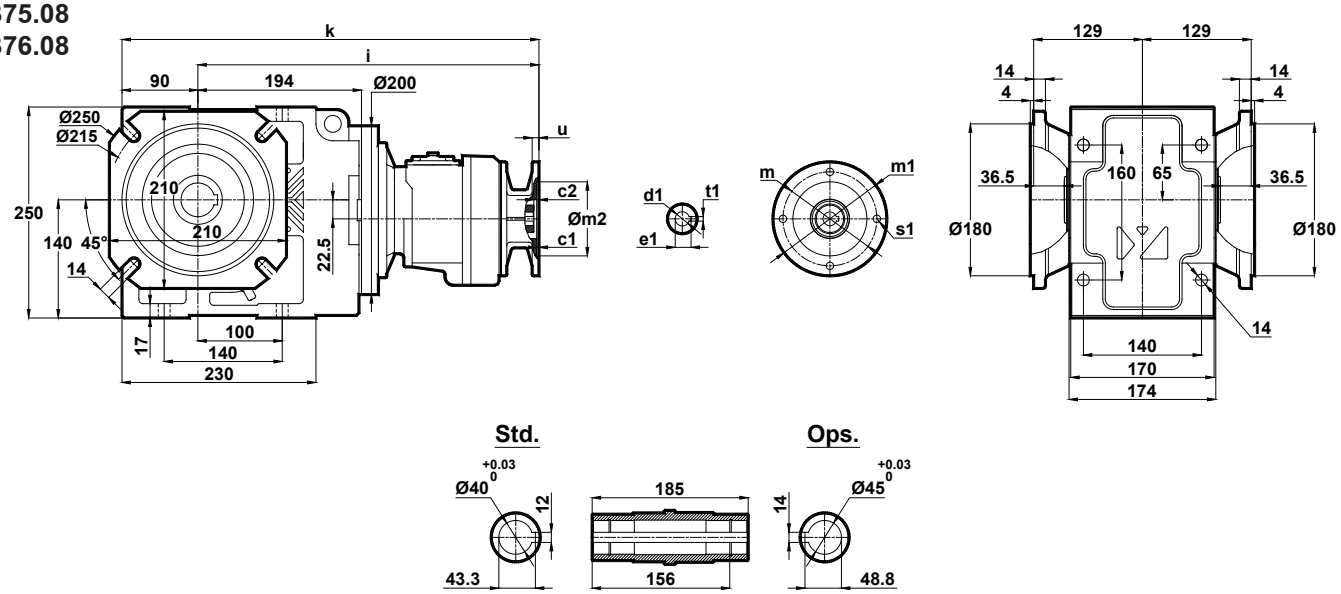
KN375.05
KN376.05



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	405	10	495	11	4	12.8
71/B5	4	4.5	11	130	160	110	405	12	495	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

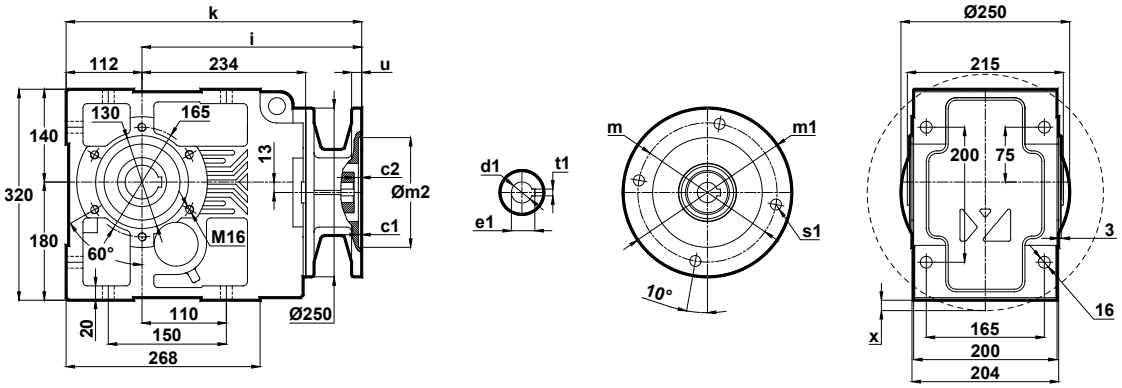
KN375.08
KN376.08



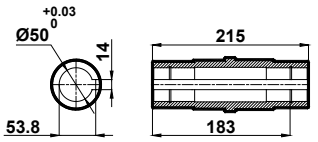
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	3.5	5	10	115	140	95	405	10	495	11	4	12.8
71/B5	4	4.5	11	130	160	110	405	12	495	14	5	16.3

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

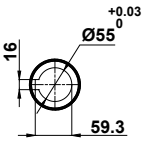
KN473.00



Std.



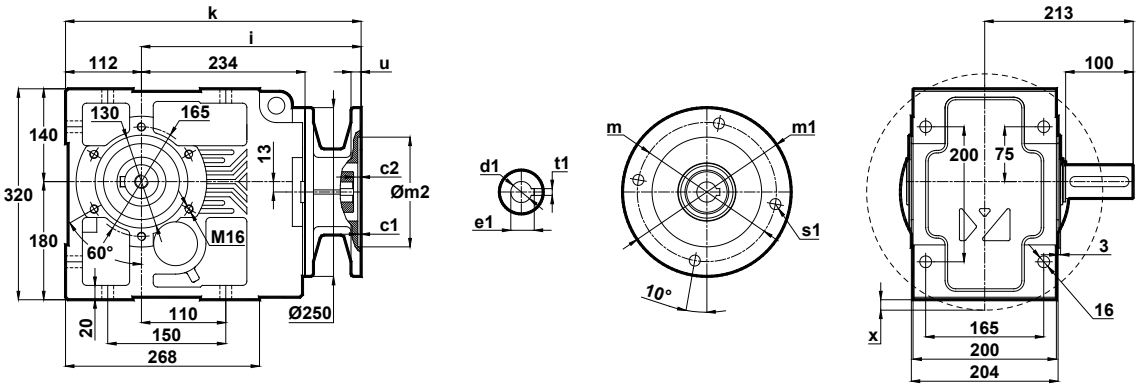
Ops.

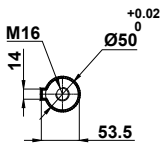


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	165	200	130	291	12	403	19	6	21.8	-
90/B5	4	5	13	165	200	130	291	12	403	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
132/B5	4.5	6	15	265	300	230	328	15	440	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



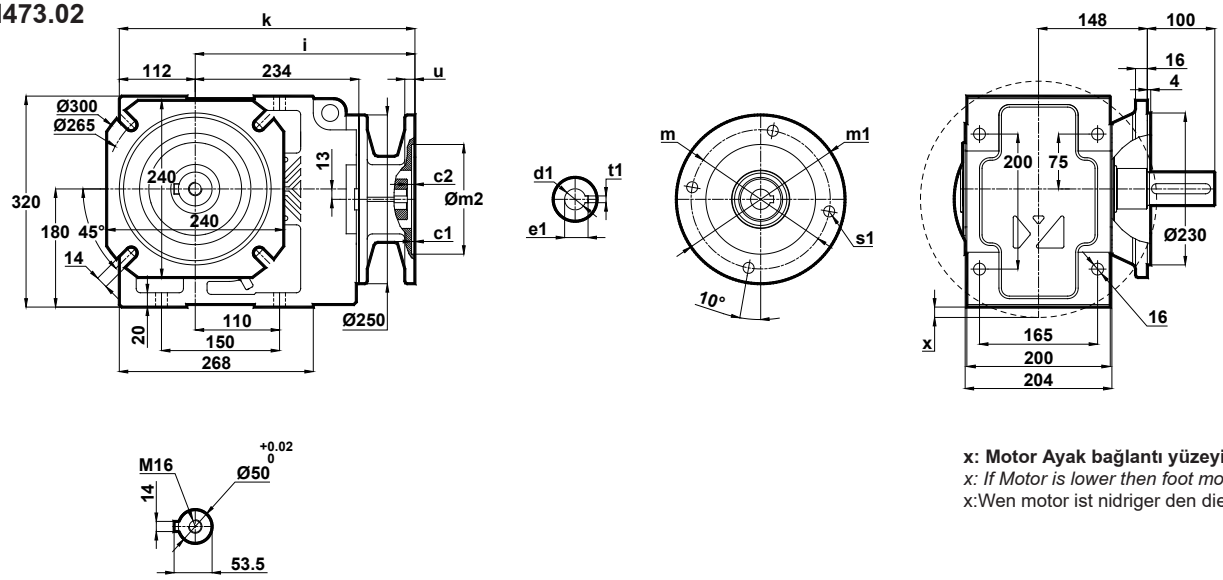


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	165	200	130	291	12	403	19	6	21.8	-
90/B5	4	5	13	165	200	130	291	12	403	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
132/B5	4.5	6	15	265	300	230	328	15	440	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

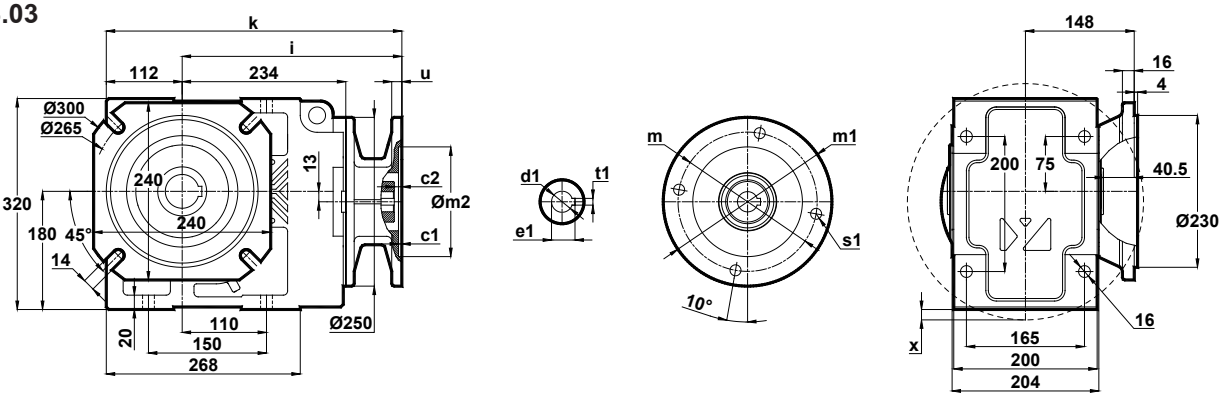
KN473.02



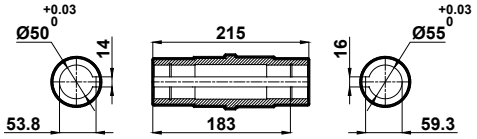
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	165	200	130	291	12	403	19	6	21.8	-
90/B5	4	5	13	165	200	130	291	12	403	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
132/B5	4.5	6	15	265	300	230	328	15	440	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.**

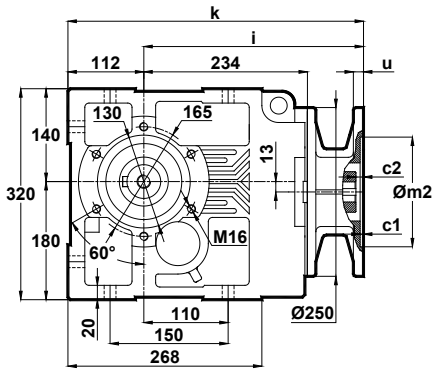


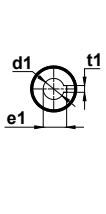
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

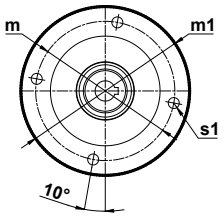
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	165	200	130	291	12	403	19	6	21.8	-
90/B5	4	5	13	165	200	130	291	12	403	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
132/B5	4.5	6	15	265	300	230	328	15	440	38	10	41.3	-
160/B5	5.5	10	19	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

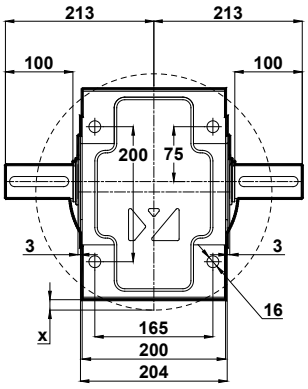
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

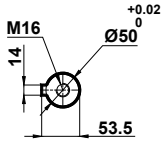
KN473.04







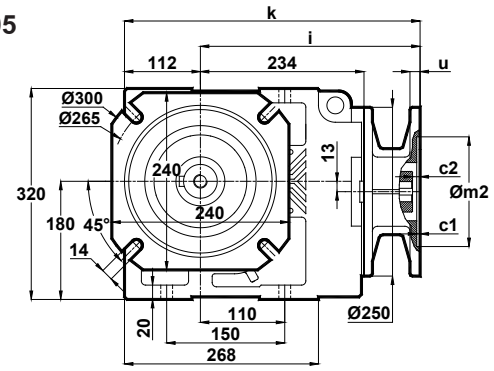


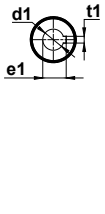


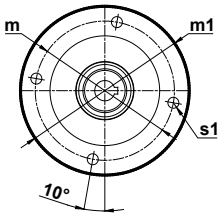
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

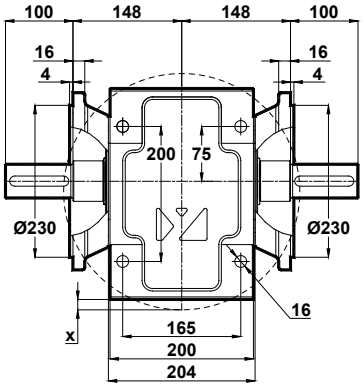
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	162	200	130	291	12	403	19	6	21.8	-
90/B5	4	5	13	165	200	130	291	12	403	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
132/B5	4.5	6	15	265	300	230	328	15	440	38	10	41.3	-
160/B5	5.5	10	19	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

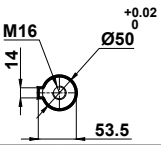
KN473.05









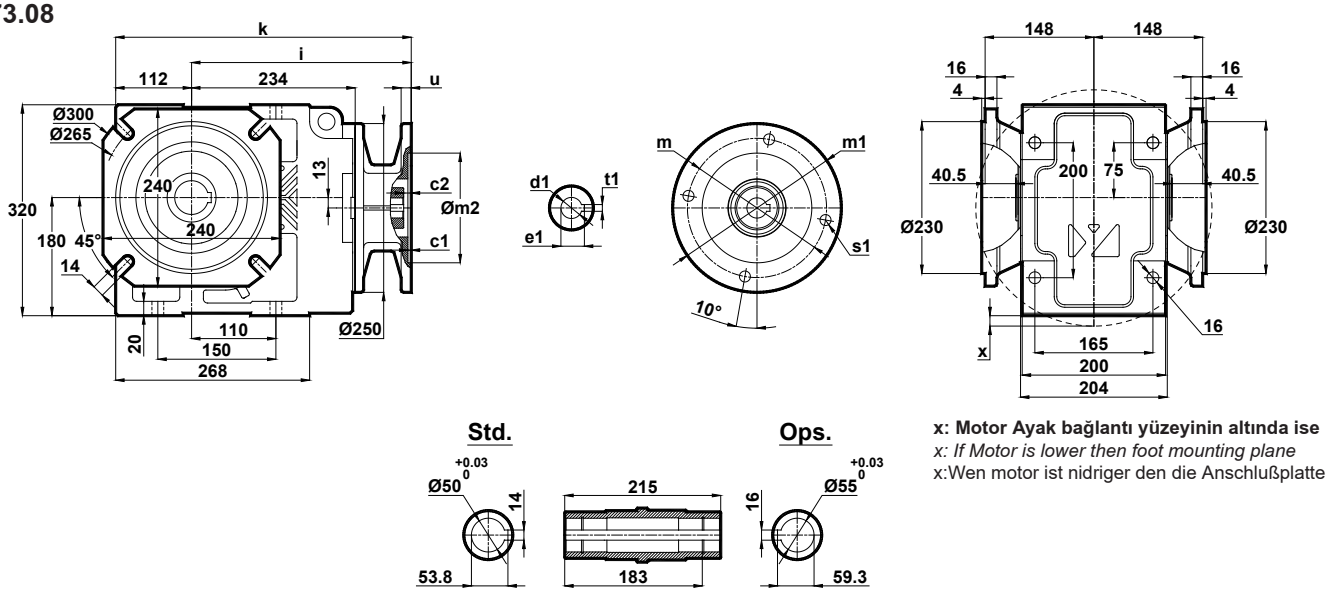


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	162	200	130	291	12	403	19	6	21.8	-
90/B5	4	5	13	165	200	130	291	12	403	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
132/B5	4.5	6	15	265	300	230	328	15	440	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

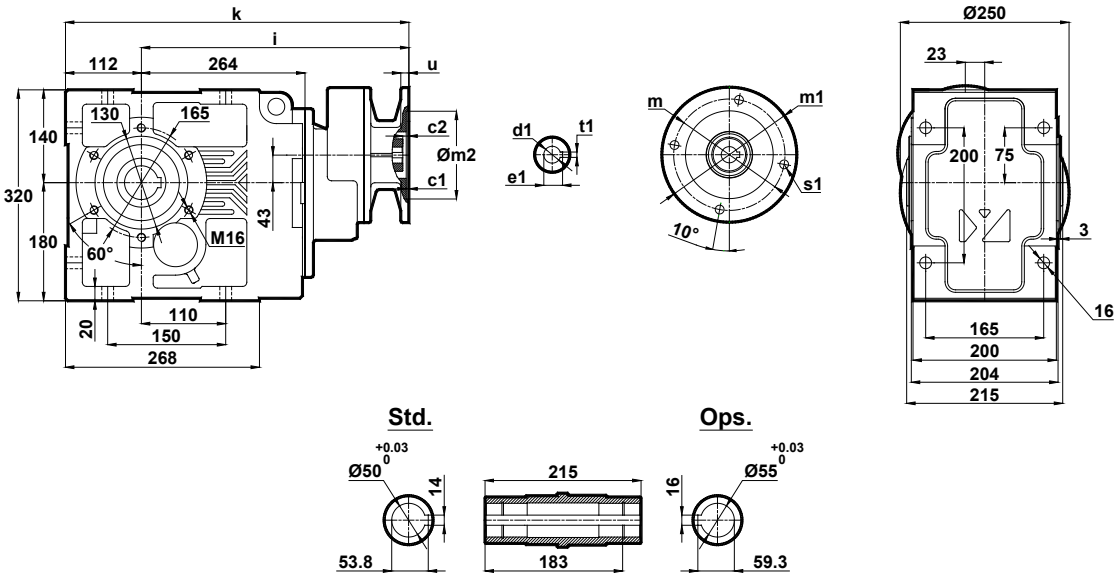


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	162	200	130	291	12	403	19	6	21.8	-
90/B5	4	5	13	165	200	130	291	12	403	24	8	27.3	-
100/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
112/B5	4.5	9	15	215	250	180	309	15	421	28	8	31.3	-
132/B5	4.5	6	15	265	300	230	328	15	440	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

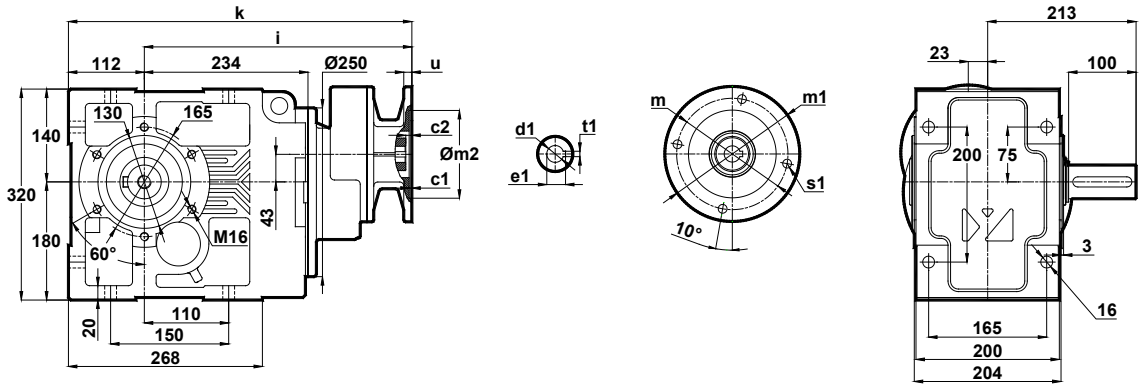
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

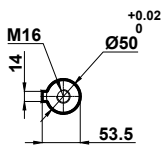
KN474.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	389	12	501	14	5	16.3
80/B5	4	9	13	165	200	130	389	12	501	19	6	21.8

KN474.01

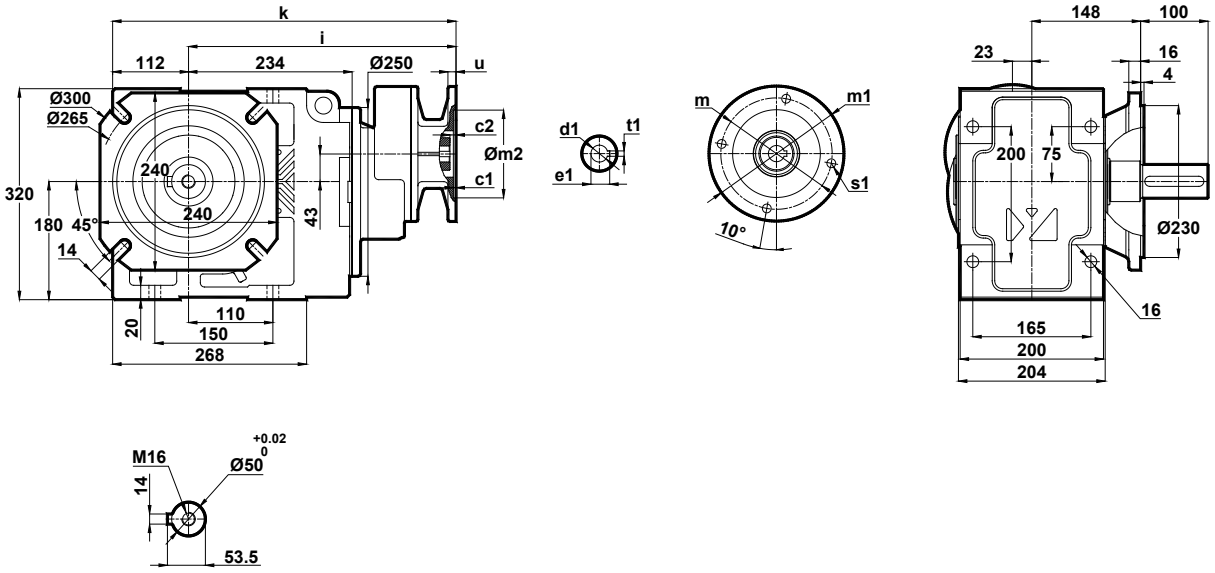




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	389	12	501	14	5	16.3
80/B5	4	9	13	165	200	130	389	12	501	19	6	21.8

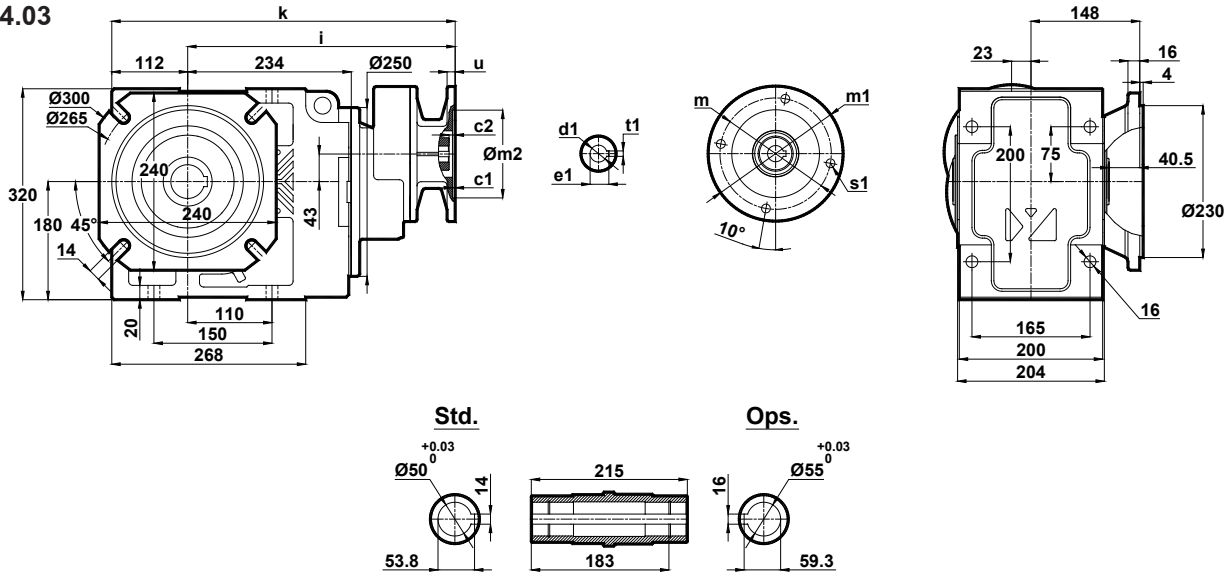
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN474.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	389	12	501	14	5	16.3
80/B5	4	9	13	165	200	130	389	12	501	19	6	21.8

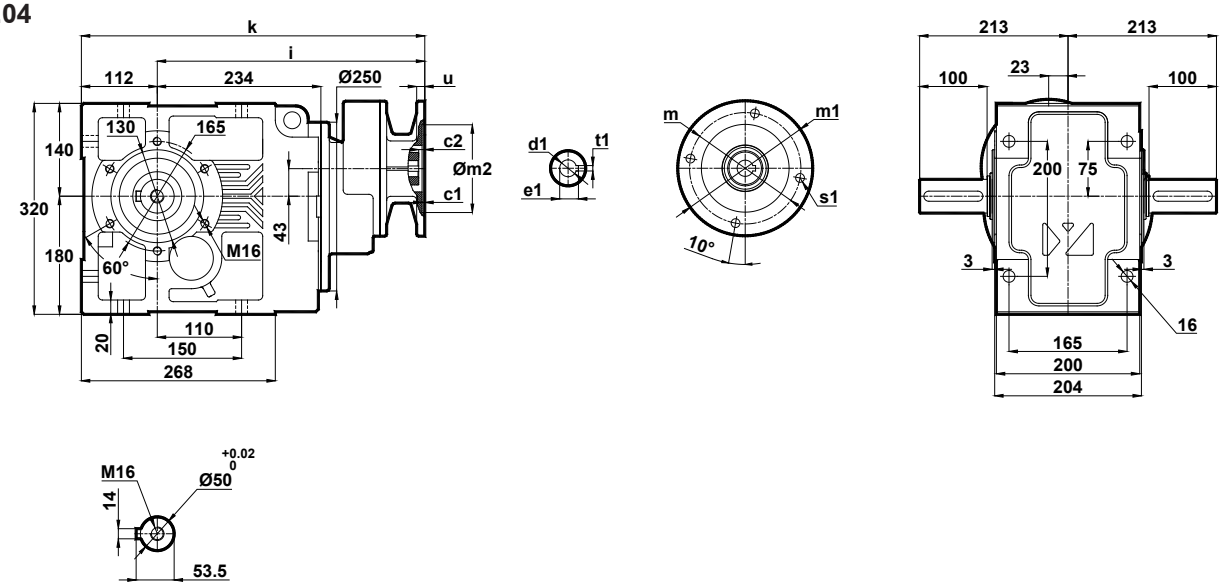
KN474.03



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	389	12	501	14	5	16.3
80/B5	4	9	13	165	200	130	389	12	501	19	6	21.8

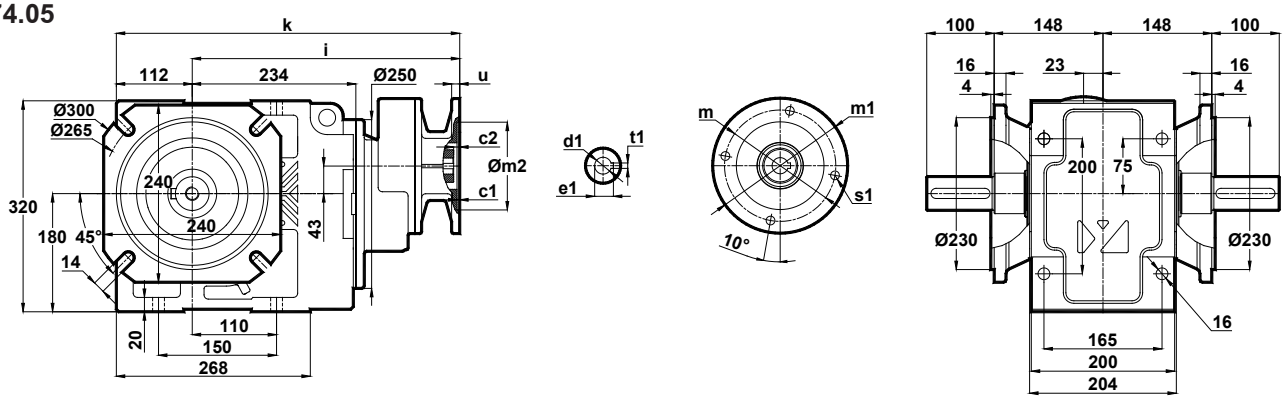
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

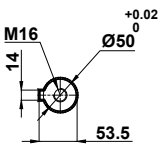
KN474.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	389	12	501	14	5	16.3
80/B5	4	9	13	165	200	130	389	12	501	19	6	21.8

KN474.05

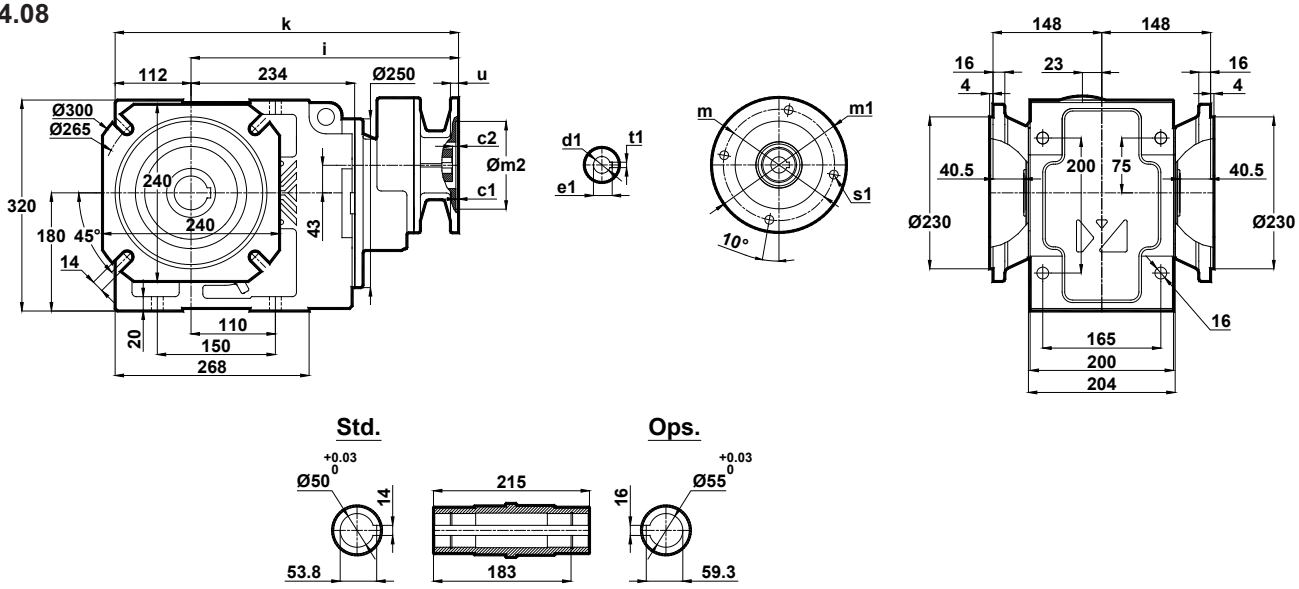




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	389	12	501	14	5	16.3
80/B5	4	9	13	165	200	130	389	12	501	19	6	21.8

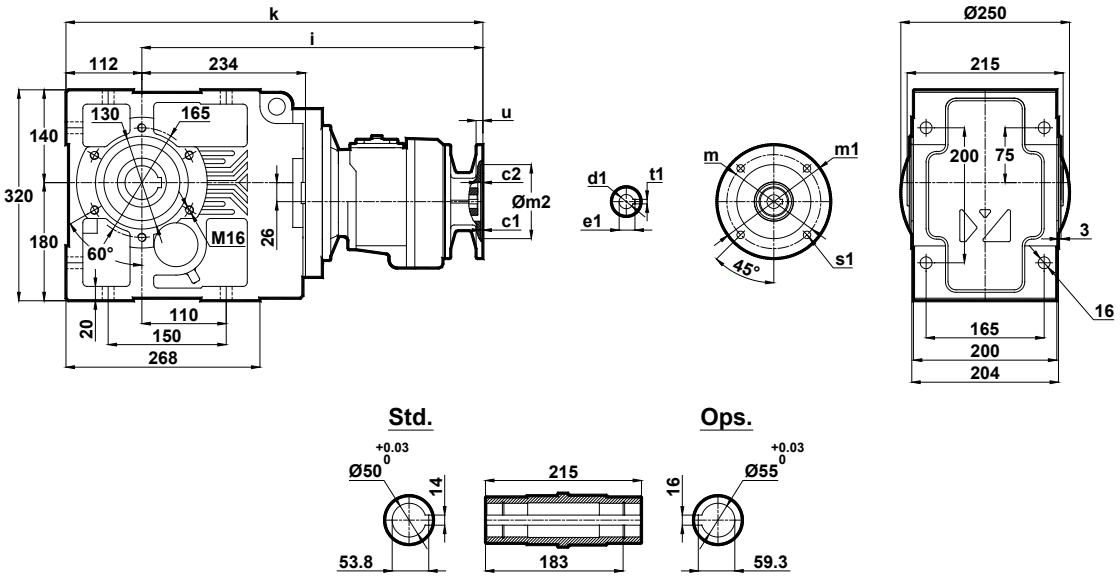
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN474.08



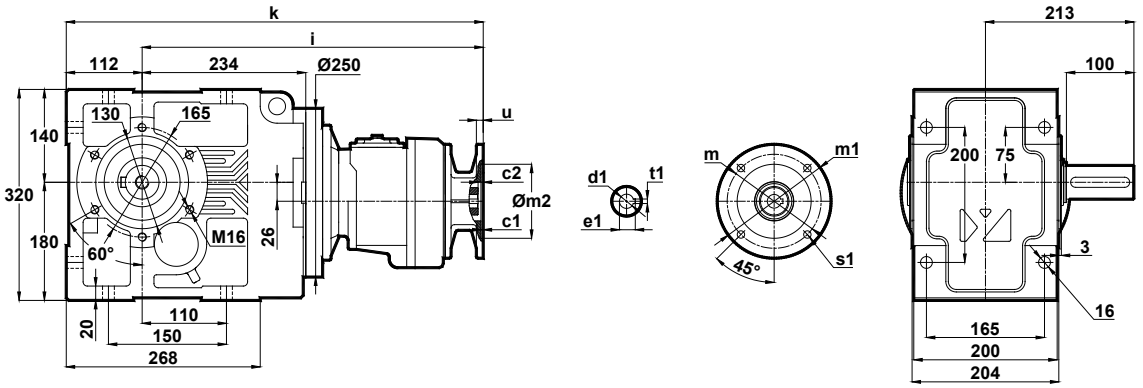
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	389	12	501	14	5	16.3
80/B5	4	9	13	165	200	130	389	12	501	19	6	21.8

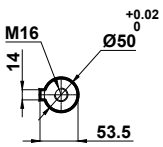
KN475.00
KN476.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	517	12	629	11	4	12.8
71/B5	4	8.5	11	130	160	110	488	12	600	14	5	16.3

KN475.01
KN476.01

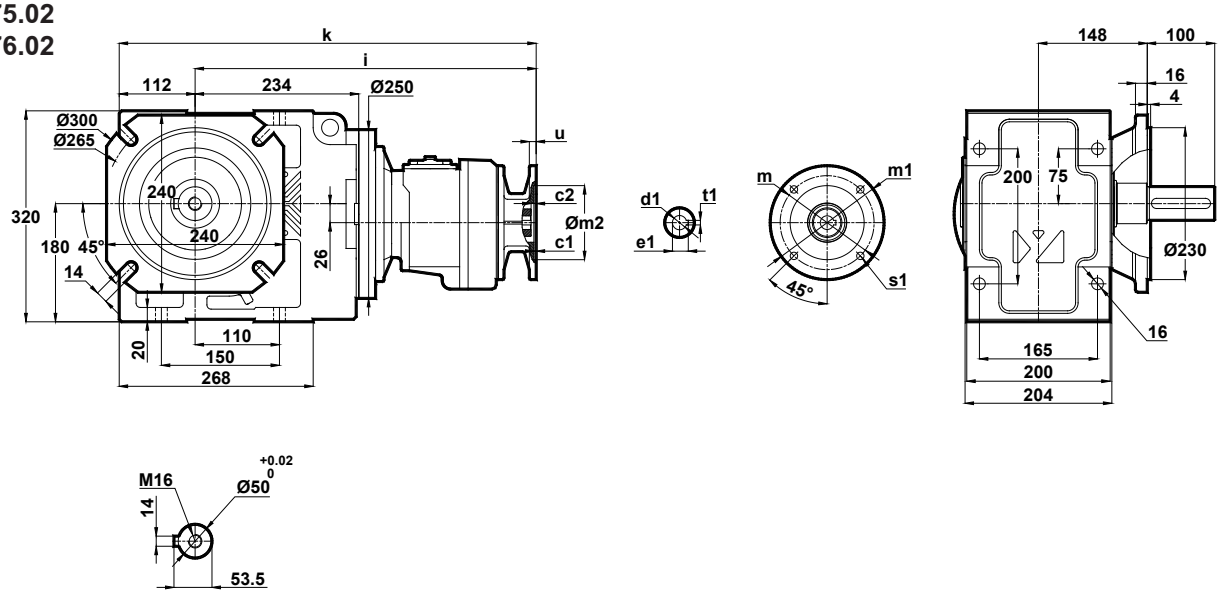




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	517	12	629	11	4	12.8
71/B5	4	8.5	11	130	160	110	488	12	600	14	5	16.3

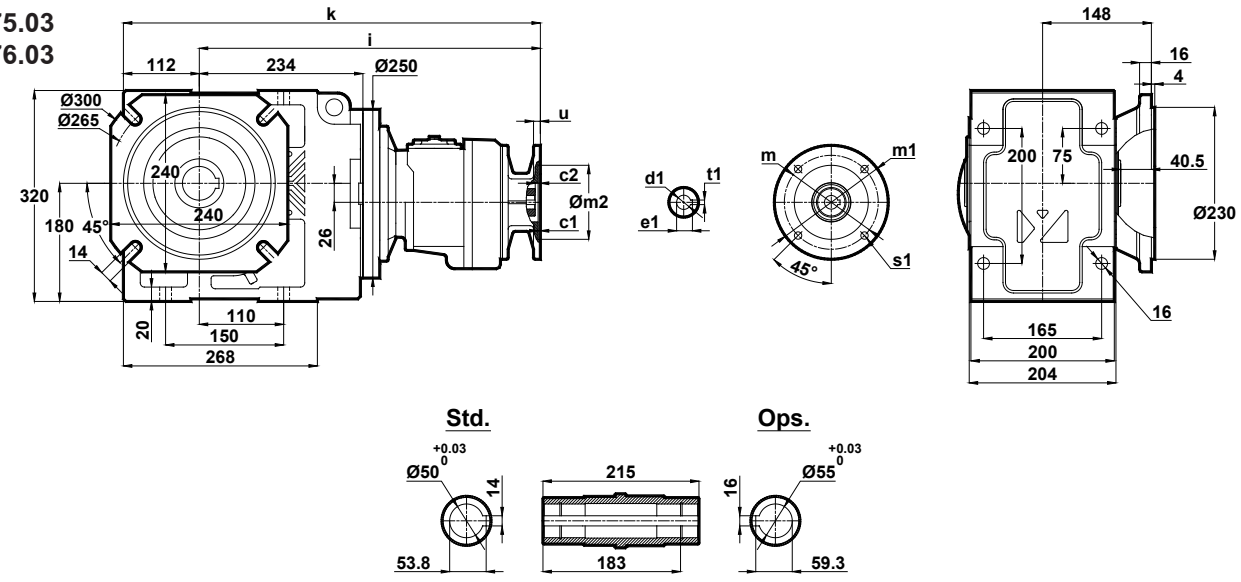
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN475.02
KN476.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	517	12	629	11	4	12.8
71/B5	4	8.5	11	130	160	110	488	12	600	14	5	16.3

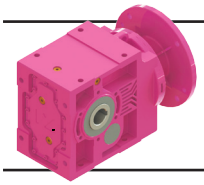
KN475.03
KN476.03



Std.

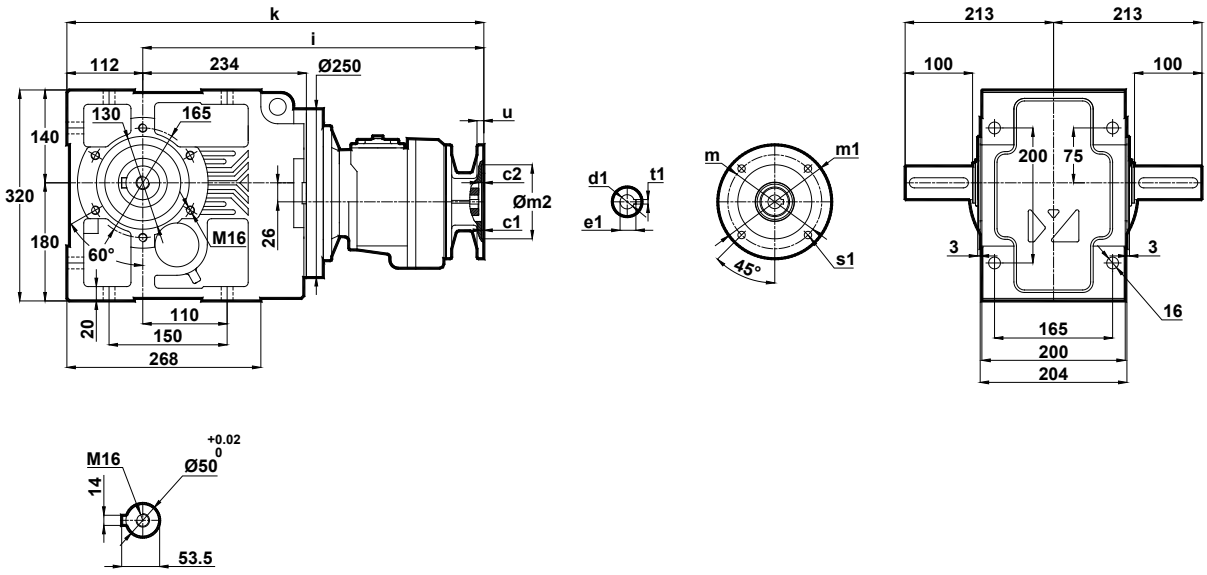
Ops.

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	517	12	629	11	4	12.8
71/B5	4	8.5	11	130	160	110	488	12	600	14	5	16.3



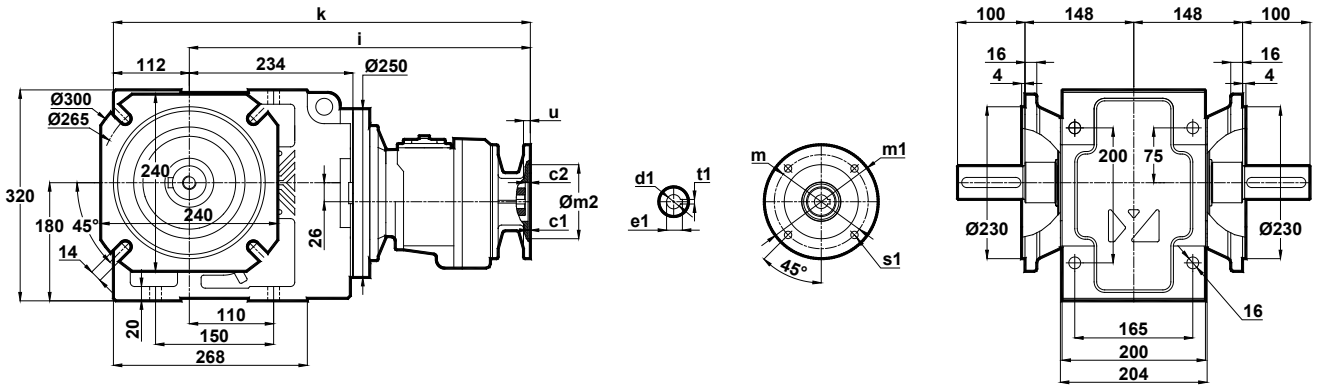
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

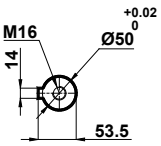
KN475.04
KN476.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	517	12	629	11	4	12.8
71/B5	4	8.5	11	130	160	110	488	12	600	14	5	16.3

KN475.05
KN476.05

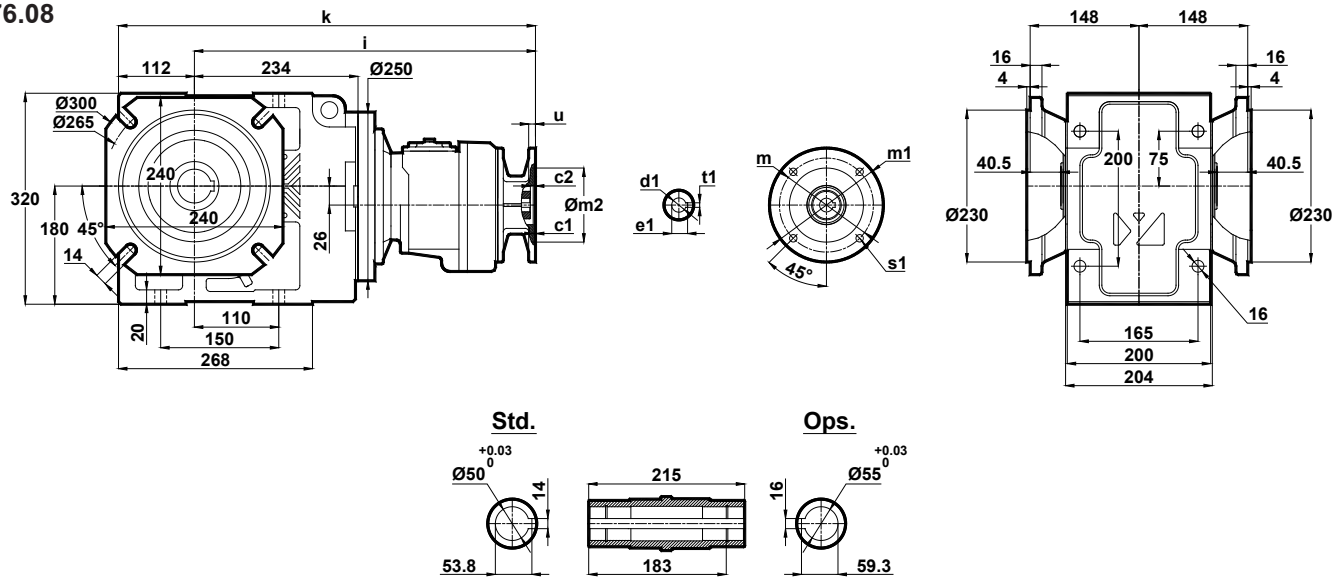




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	517	12	629	11	4	12.8
71/B5	4	8.5	11	130	160	110	488	12	600	14	5	16.3

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

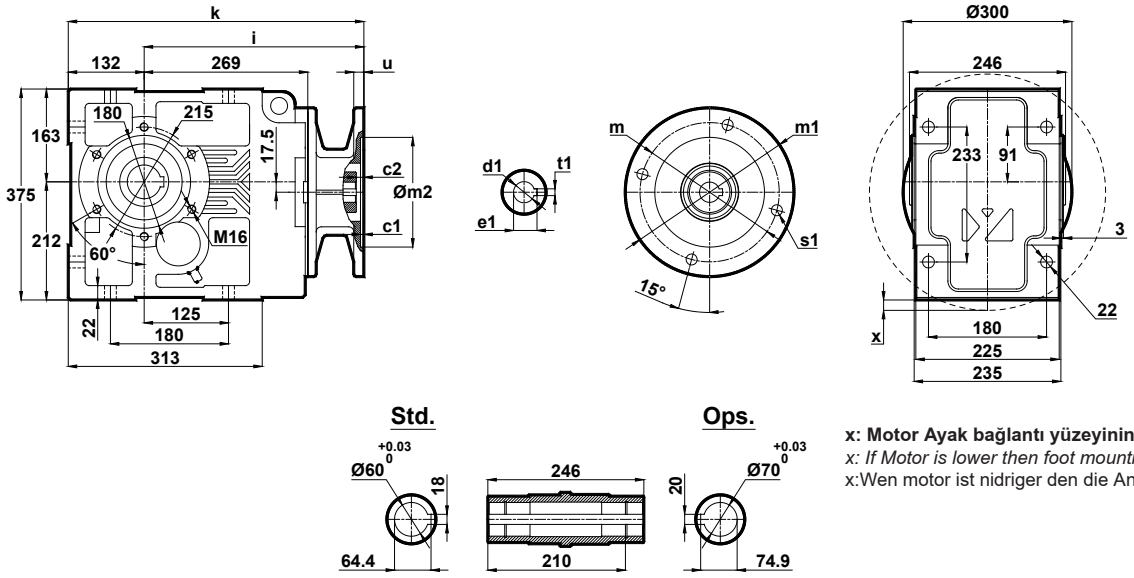
KN475.08
KN476.08



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	517	12	629	11	4	12.8
71/B5	4	8.5	11	130	160	110	488	12	600	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

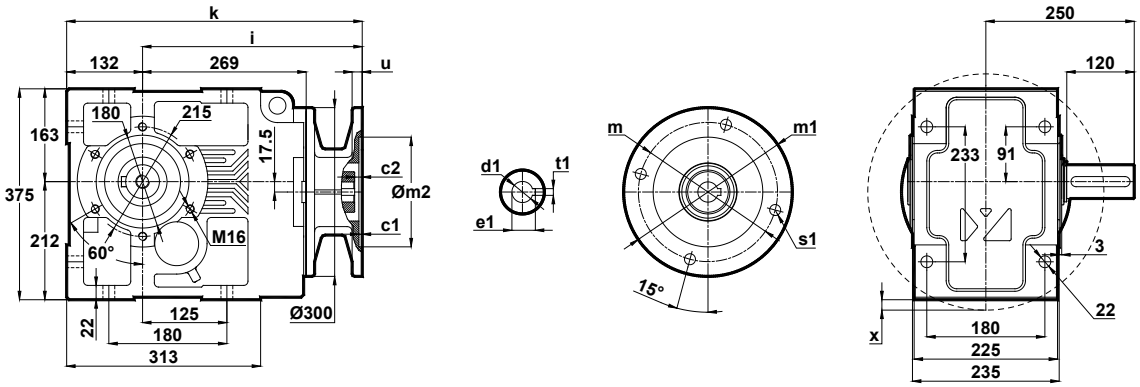
KN573.00

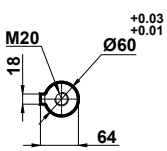


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
112/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
132/B5	4.5	9	15	265	300	230	363	15	495	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



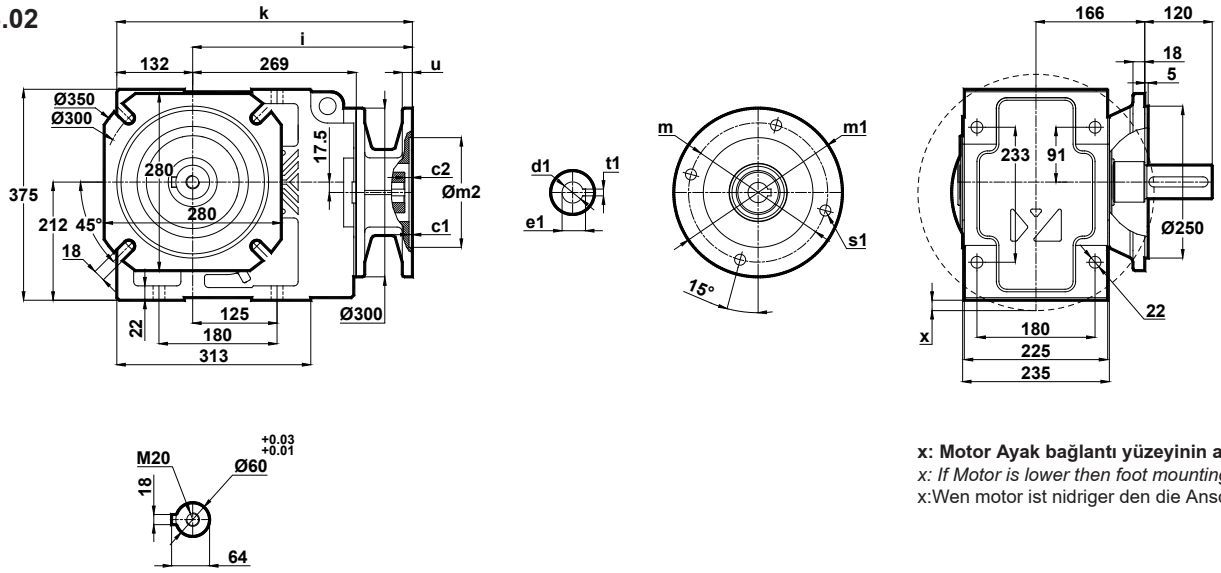


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
112/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
132/B5	4.5	9	15	265	300	230	363	15	495	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

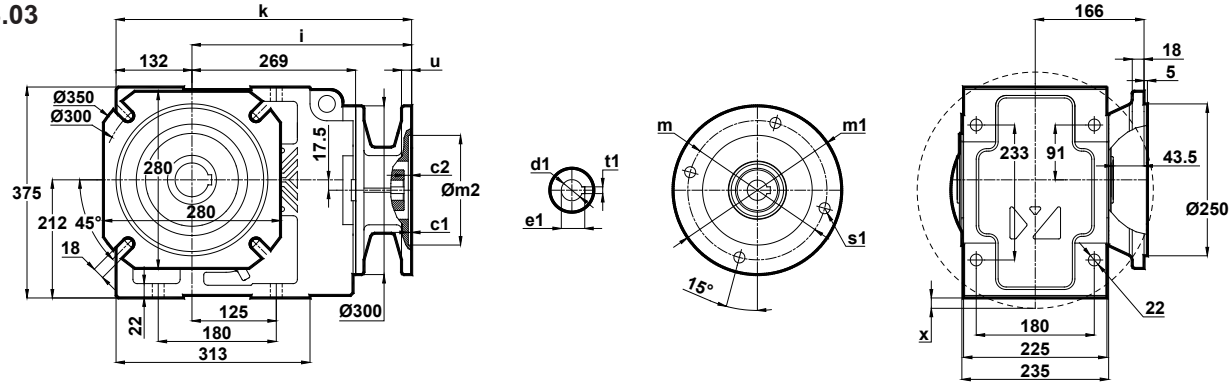
KN573.02



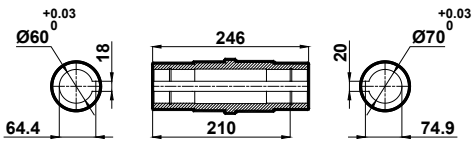
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
112/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
132/B5	4.5	9	15	265	300	230	363	15	495	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



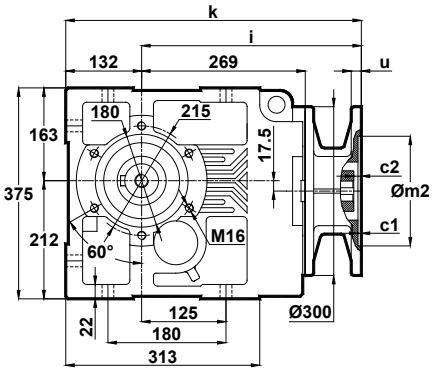
Std. **Ops.**

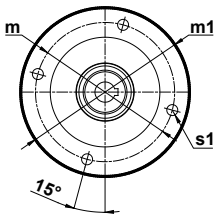


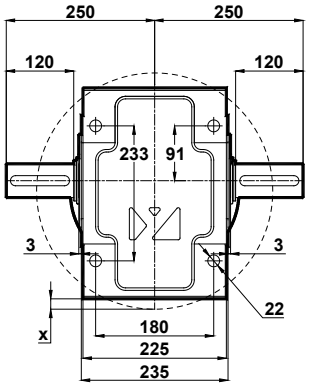
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

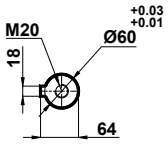
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
112/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
132/B5	4.5	9	15	265	300	230	363	15	495	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	438	18	570	42	12	45.3	-
180/B5	5.5	10	19	300	350	250	438	18	570	48	14	51.8	-

KN573.04





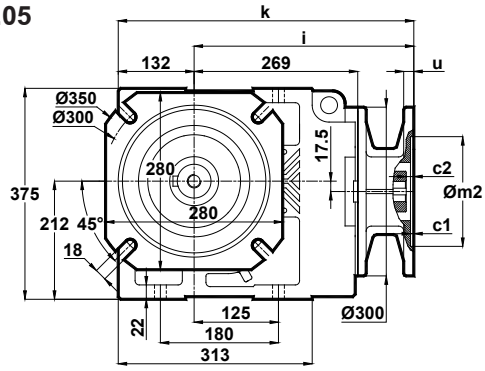


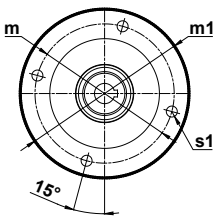


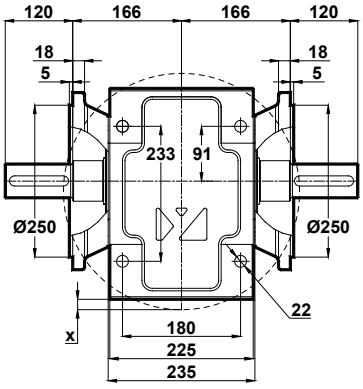
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

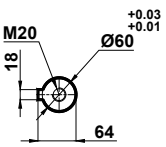
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
112/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
132/B5	4.5	9	15	265	300	230	363	15	495	38	10	41.3	-
160/B5	5.5	10	19	300	350	250	438	18	570	42	12	45.3	-
180/B5	5.5	10	19	300	350	250	438	18	570	48	14	51.8	-

KN573.05







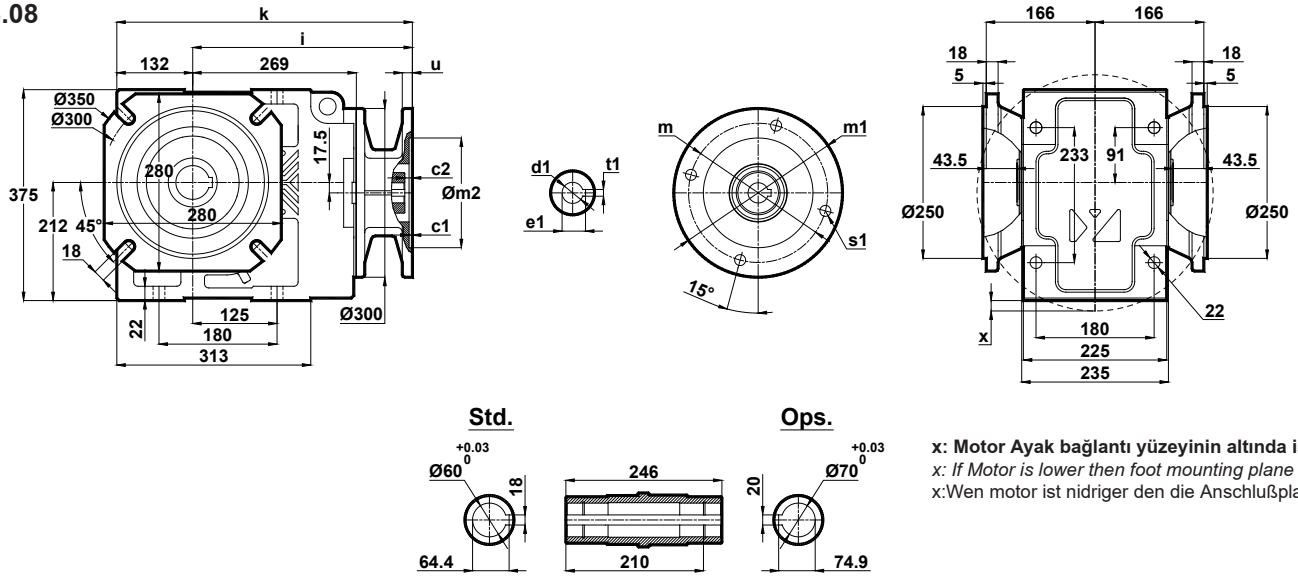


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
112/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
132/B5	4.5	9	15	265	300	230	363	15	495	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

KN573.08

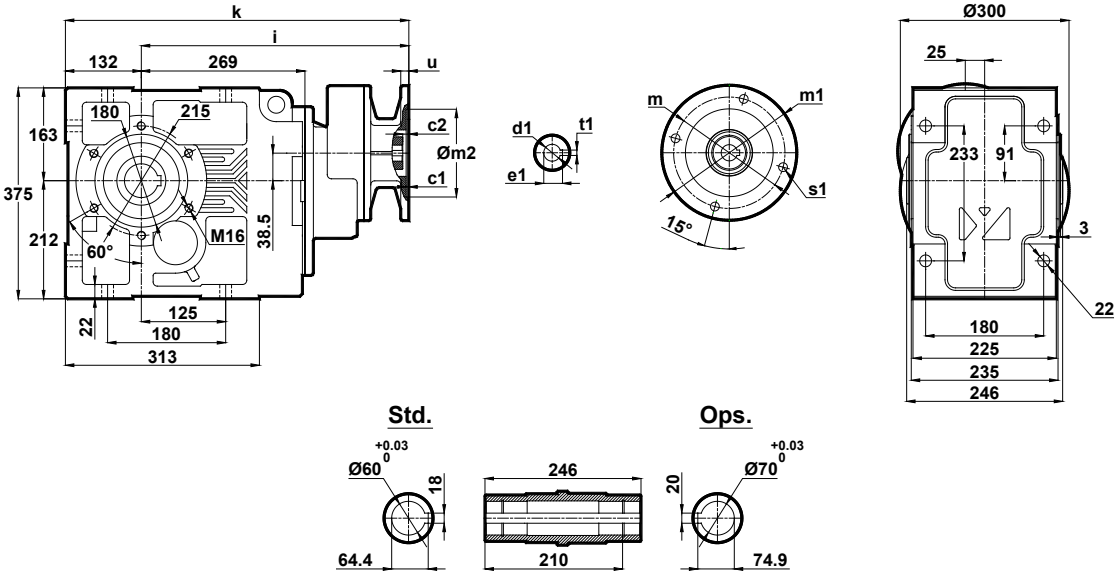


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1	x
100/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
112/B5	4.5	20	15	215	250	180	342	15	474	28	8	31.3	-
132/B5	4.5	9	15	265	300	230	363	15	495	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	-

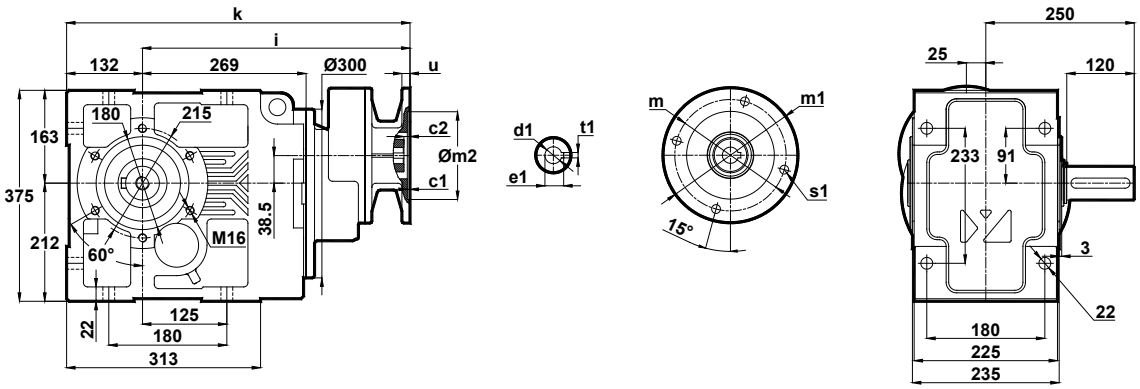
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

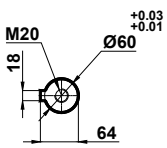
KN574.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	422	12	554	14	5	16.3
80/B5	4	9	13	165	200	130	422	12	554	19	6	21.8
90/B5	4	9	13	165	200	130	422	12	554	24	8	27.3
100/B5	4.5	9	15	215	250	180	439	15	571	28	8	31.3

KN574.01

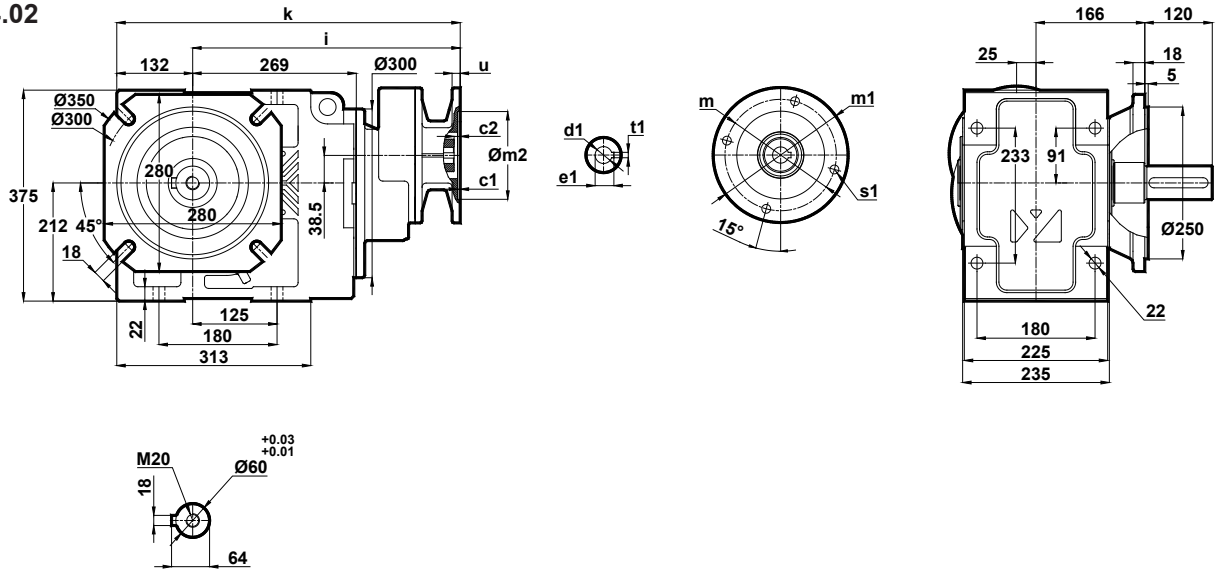




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	422	12	554	14	5	16.3
80/B5	4	9	13	165	200	130	422	12	554	19	6	21.8
90/B5	4	9	13	165	200	130	422	12	554	24	8	27.3
100/B5	4.5	9	15	215	250	180	439	15	571	28	8	31.3

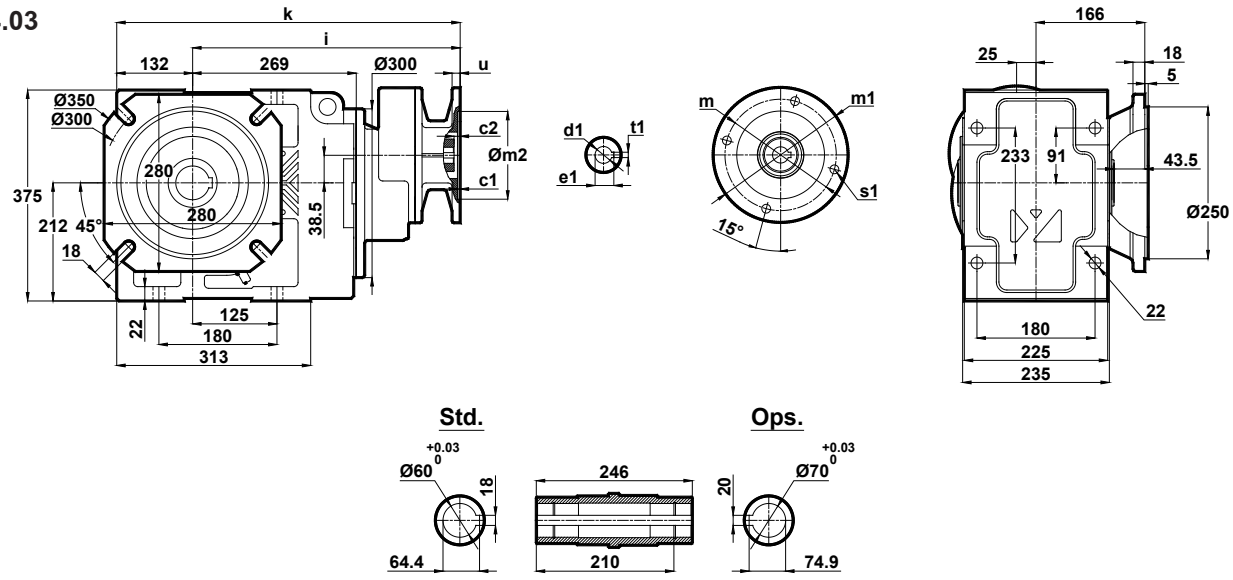
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN574.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	422	12	554	14	5	16.3
80/B5	4	9	13	165	200	130	422	12	554	19	6	21.8
90/B5	4	9	13	165	200	130	422	12	554	24	8	27.3
100/B5	4.5	9	15	215	250	180	439	15	571	28	8	31.3

KN574.03



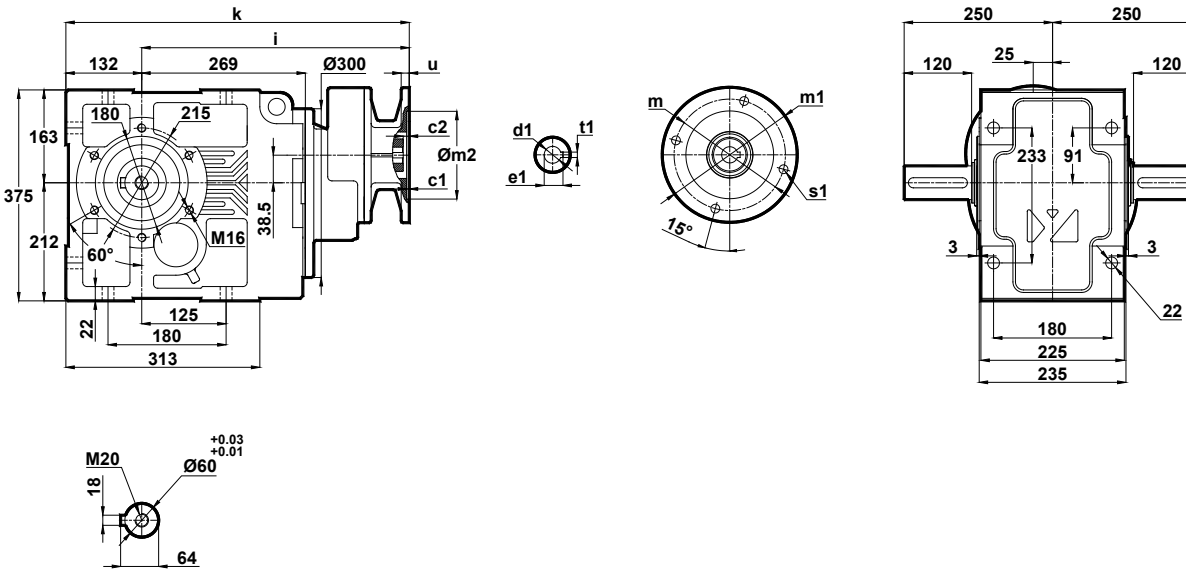
Std.

Ops.

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	422	12	554	14	5	16.3
80/B5	4	9	13	165	200	130	422	12	554	19	6	21.8
90/B5	4	9	13	165	200	130	422	12	554	24	8	27.3
100/B5	4.5	9	15	215	250	180	439	15	571	28	8	31.3

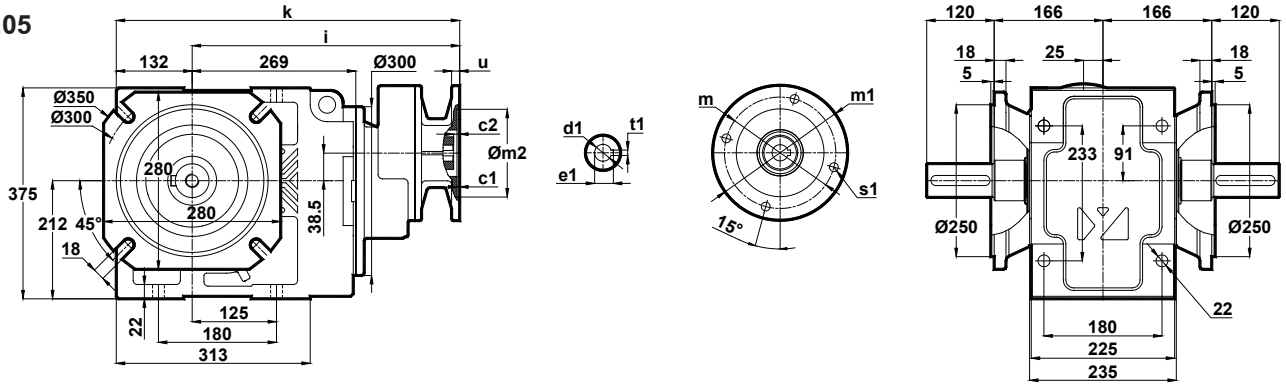
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

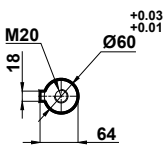
KN574.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	422	12	554	14	5	16.3
80/B5	4	9	13	165	200	130	422	12	554	19	6	21.8
90/B5	4	9	13	165	200	130	422	12	554	24	8	27.3
100/B5	4.5	9	15	215	250	180	439	15	571	28	8	31.3

KN574.05

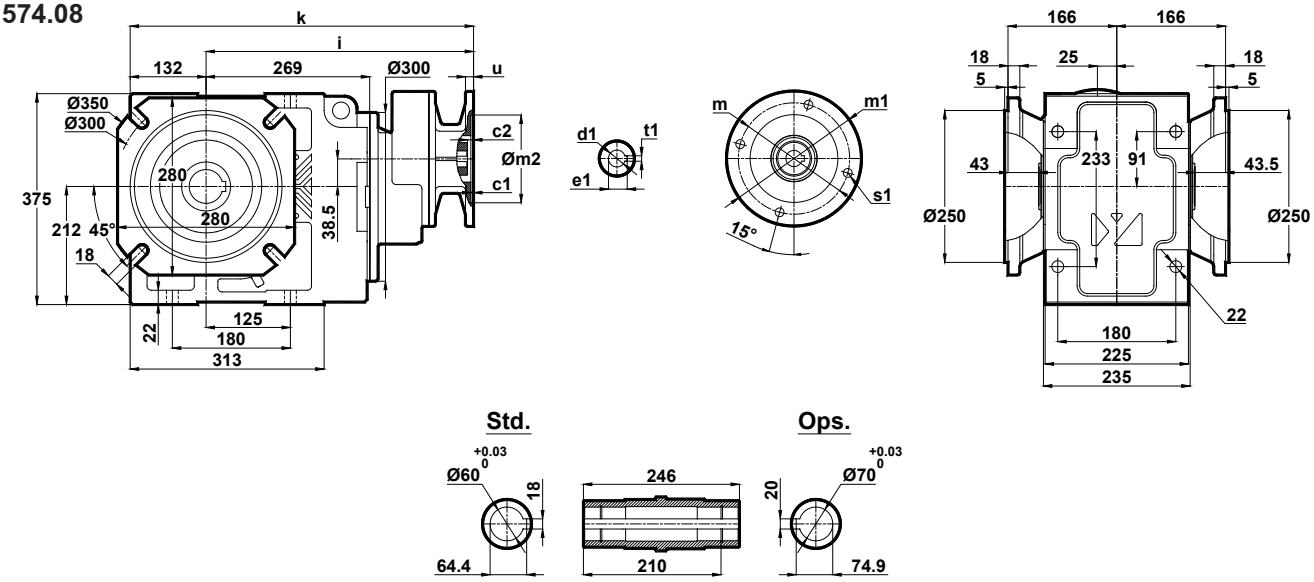




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	422	12	554	14	5	16.3
80/B5	4	9	13	165	200	130	422	12	554	19	6	21.8
90/B5	4	9	13	165	200	130	422	12	554	24	8	27.3
100/B5	4.5	9	15	215	250	180	439	15	571	28	8	31.3

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

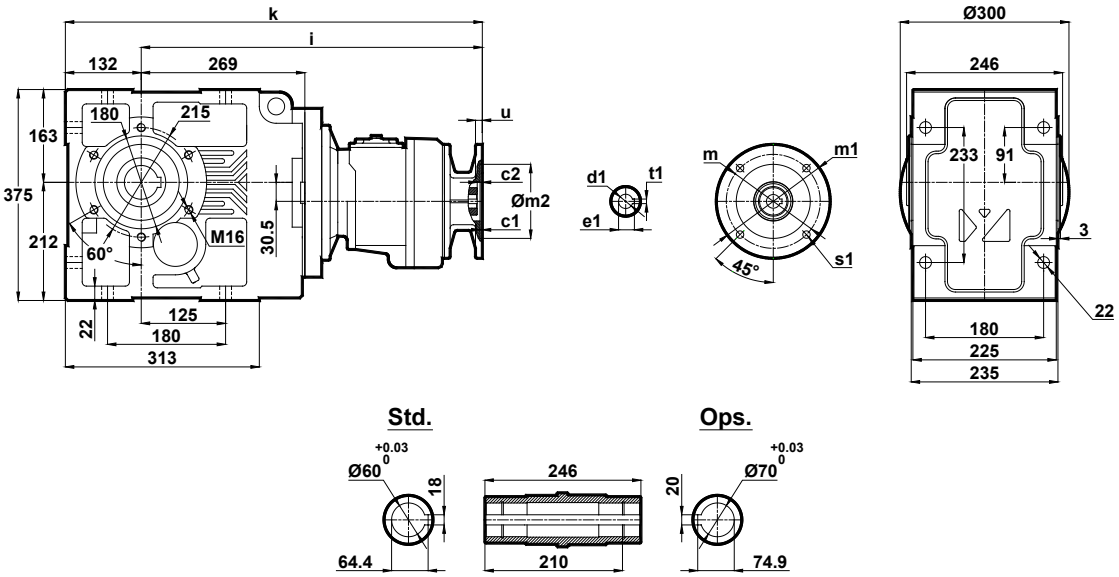
KN574.08



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	422	12	554	14	5	16.3
80/B5	4	9	13	165	200	130	422	12	554	19	6	21.8
90/B5	4	9	13	165	200	130	422	12	554	24	8	27.3
100/B5	4.5	9	15	215	250	180	439	15	571	28	8	31.3

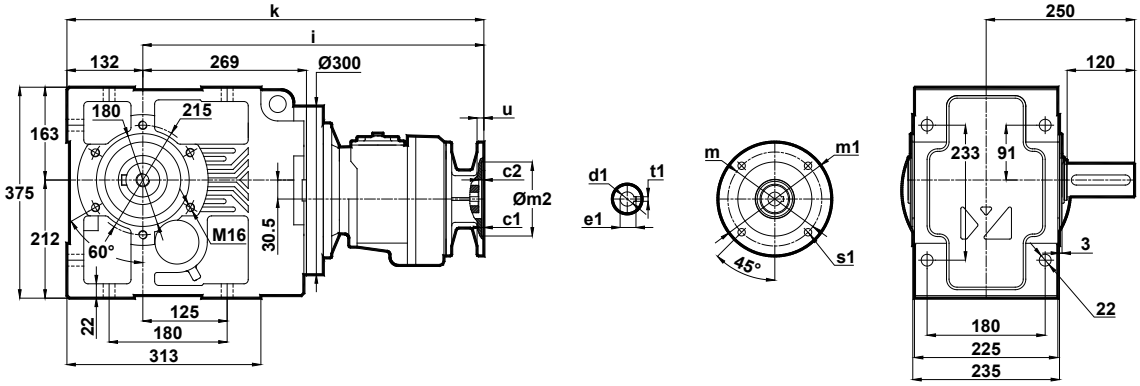
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

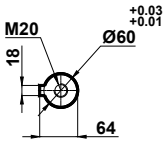
KN575.00
KN576.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	552	12	684	11	4	12.8
71/B5	4	8.5	11	130	160	110	523	12	655	14	5	16.3
80/B5	4	5	13	165	200	130	552	12	684	19	6	21.8

KN575.01
KN576.01

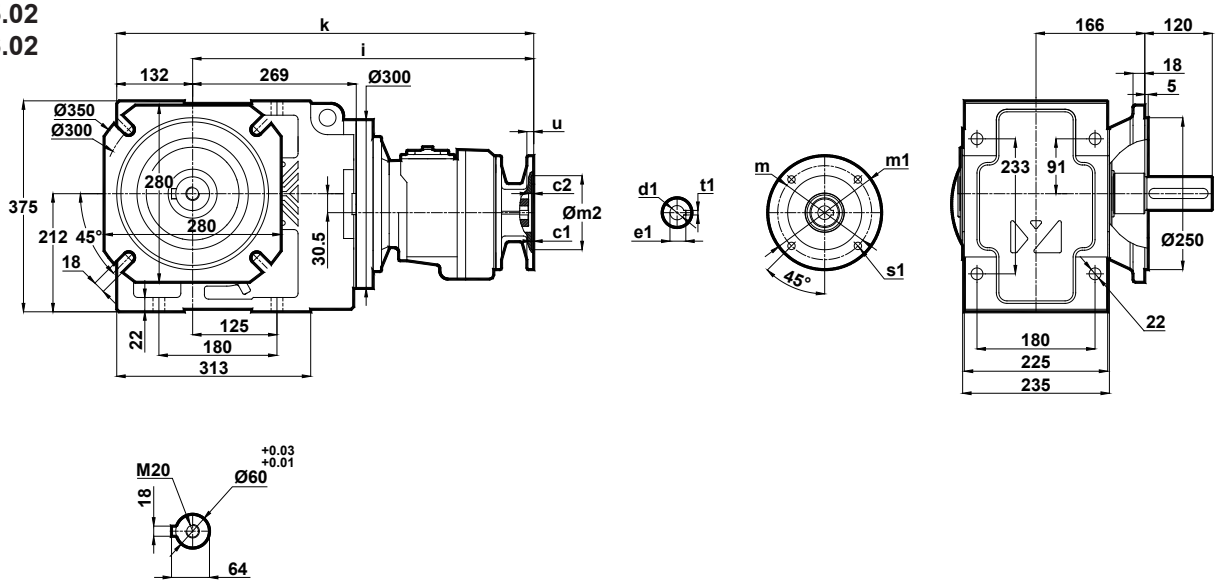




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	552	12	684	11	4	12.8
71/B5	4	8.5	11	130	160	110	523	12	655	14	5	16.3
80/B5	4	5	13	165	200	130	552	12	684	19	6	21.8

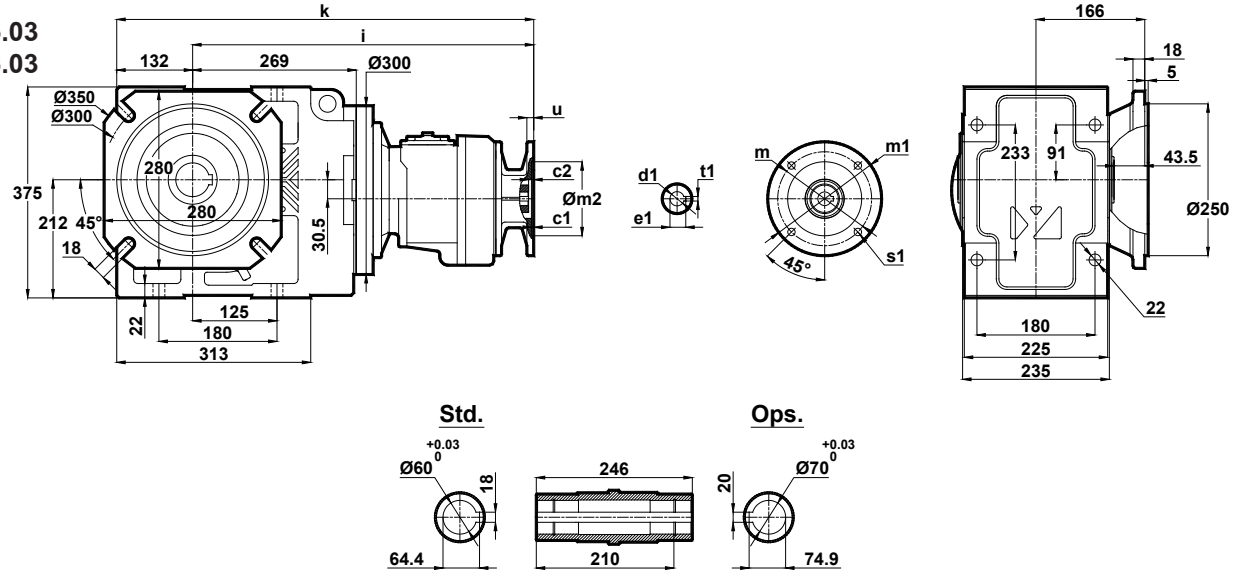
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN575.02
KN576.02



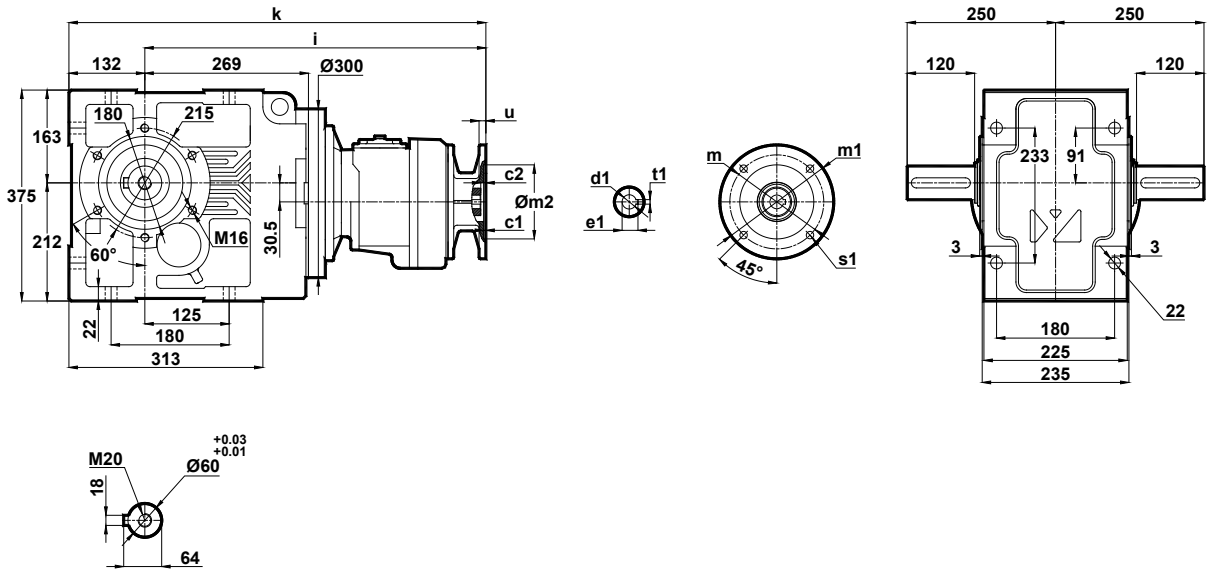
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	552	12	684	11	4	12.8
71/B5	4	8.5	11	130	160	110	523	12	655	14	5	16.3
80/B5	4	5	13	165	200	130	552	12	684	19	6	21.8

KN575.03
KN576.03



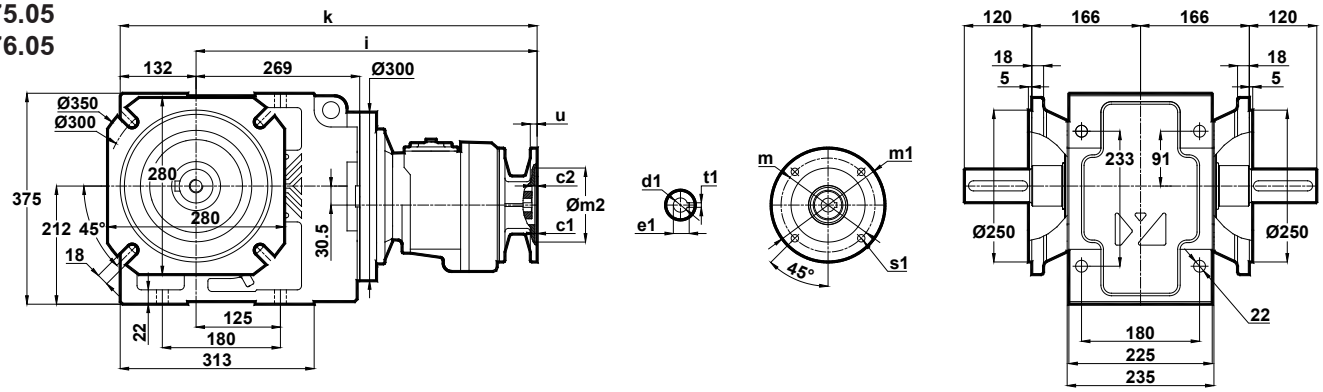
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	552	12	684	11	4	12.8
71/B5	4	8.5	11	130	160	110	523	12	655	14	5	16.3
80/B5	4	5	13	165	200	130	552	12	684	19	6	21.8

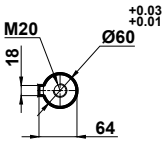
KN575.04
KN576.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	552	12	684	11	4	12.8
71/B5	4	8.5	11	130	160	110	523	12	655	14	5	16.3
80/B5	4	5	13	165	200	130	552	12	684	19	6	21.8

KN575.05
KN576.05

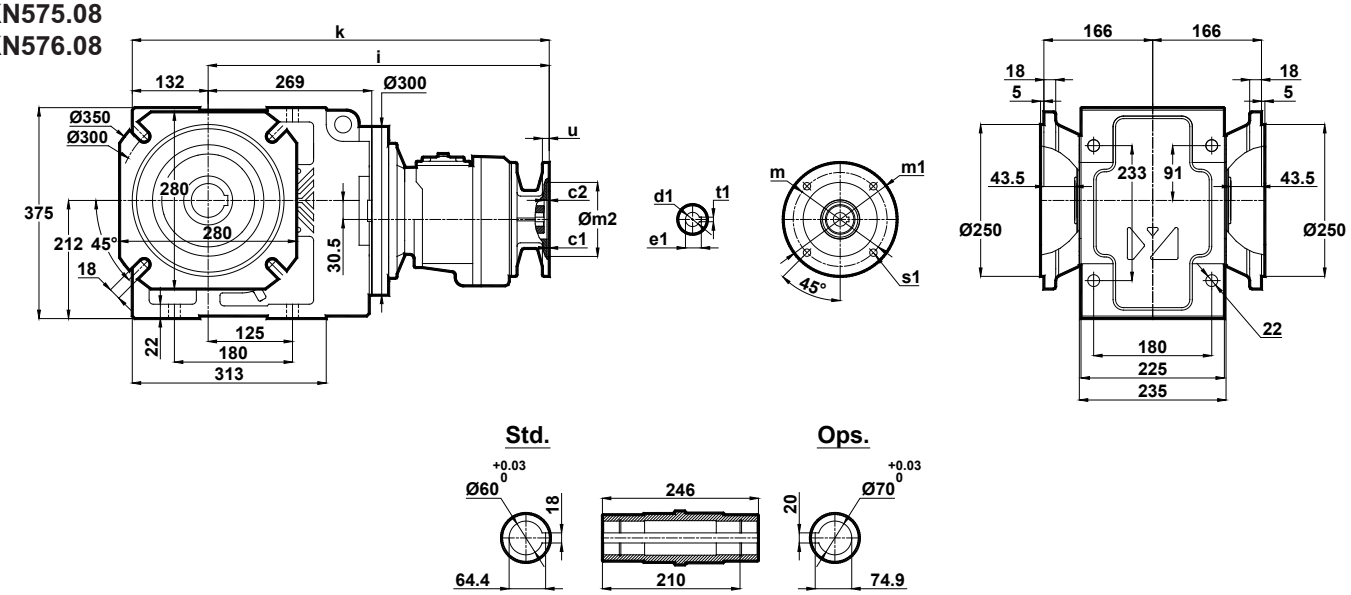




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	552	12	684	11	4	12.8
71/B5	4	8.5	11	130	160	110	523	12	655	14	5	16.3
80/B5	4	5	13	165	200	130	552	12	684	19	6	21.8

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

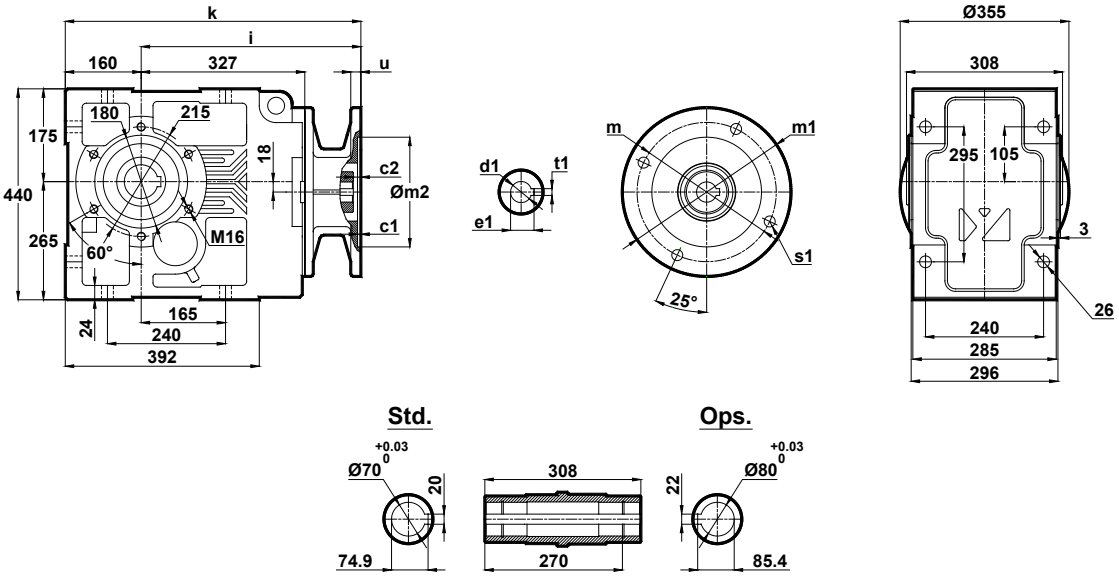
KN575.08
KN576.08



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	552	12	684	11	4	12.8
71/B5	4	8.5	11	130	160	110	523	12	655	14	5	16.3
80/B5	4	5	13	165	200	130	552	12	684	19	6	21.8

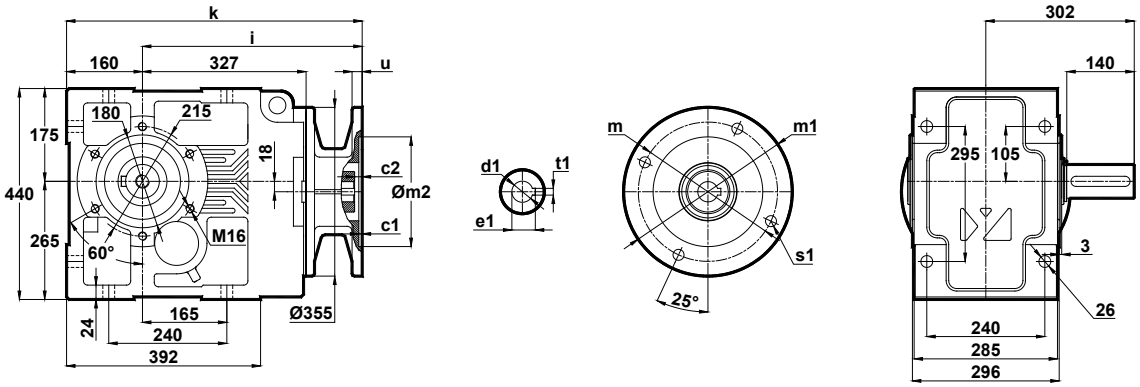
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

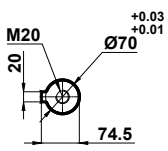
KN673.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
112/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
132/B5	4.5	9	15	265	300	230	411	15	571	38	10	41.3
160/B5	5.5	10	19	300	350	250	486	20	646	42	12	45.3
180/B5	5.5	10	19	300	350	250	486	20	646	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	743	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	796	60	18	64.4

KN673.01

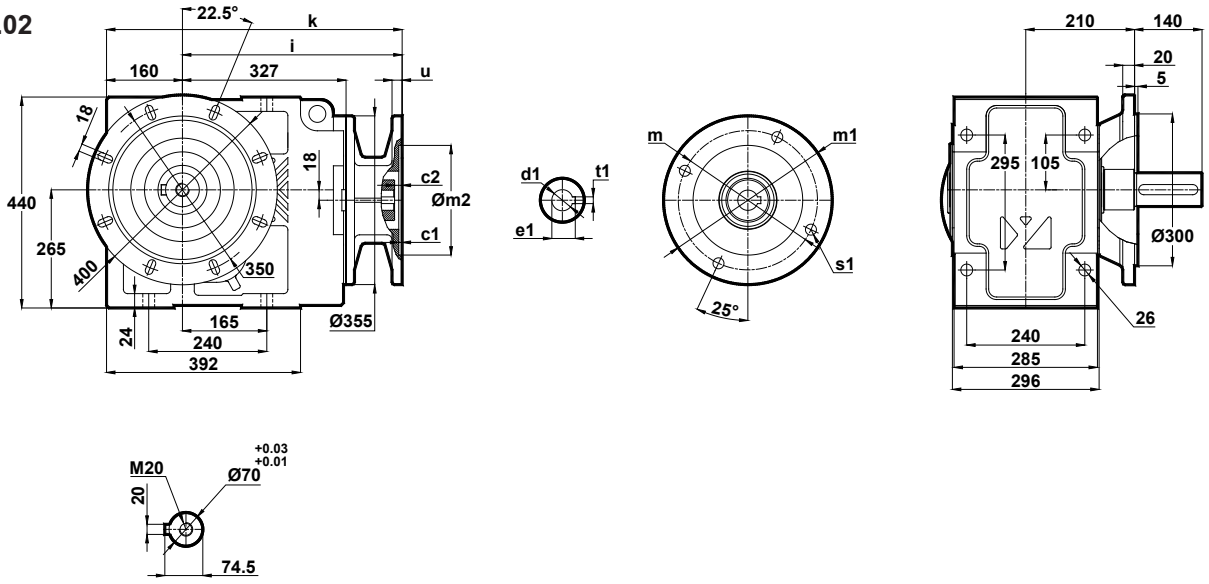




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
112/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
132/B5	4.5	9	15	265	300	230	411	15	571	38	10	41.3
160/B5	5.5	10	19	300	350	250	486	20	646	42	12	45.3
180/B5	5.5	10	19	300	350	250	486	20	646	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	743	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	796	60	18	64.4

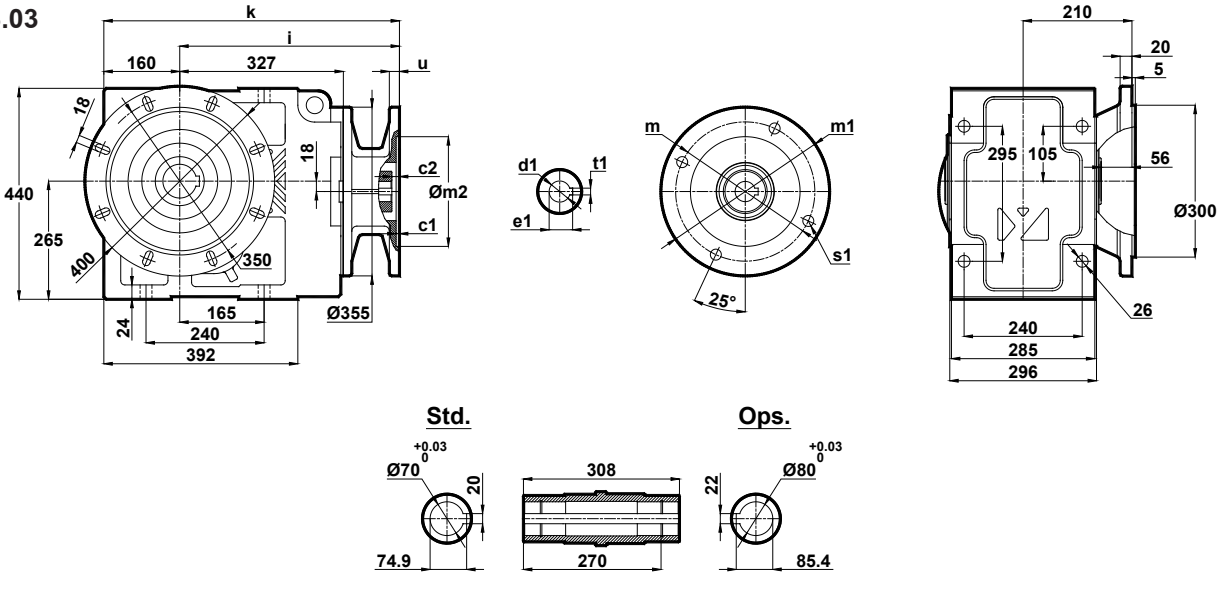
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN673.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
112/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
132/B5	4.5	9	15	265	300	230	411	15	571	38	10	41.3
160/B5	5.5	10	19	300	350	250	486	20	646	42	12	45.3
180/B5	5.5	10	19	300	350	250	486	20	646	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	743	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	796	60	18	64.4

KN673.03

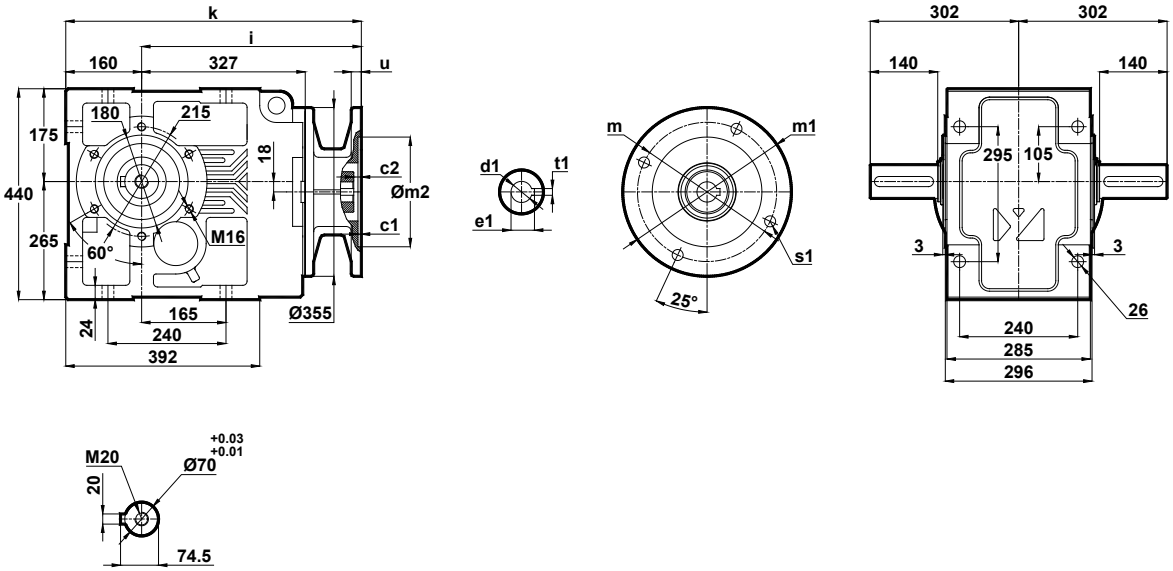


Std. **Ops.**

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
112/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
132/B5	4.5	9	15	265	300	230	411	15	571	38	10	41.3
160/B5	5.5	10	19	300	350	250	486	20	646	42	12	45.3
180/B5	5.5	10	19	300	350	250	486	20	646	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	743	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	796	60	18	64.4

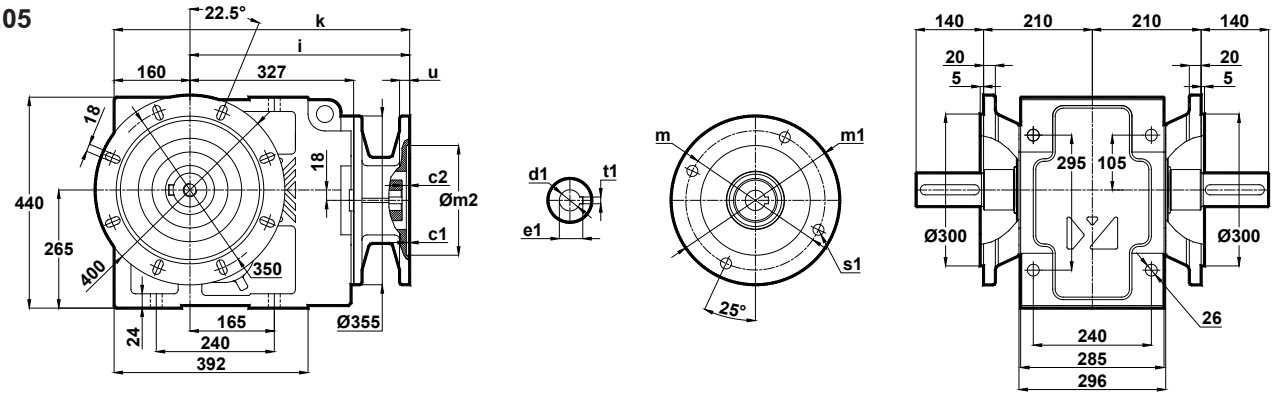
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

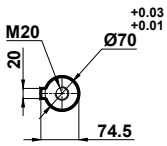
KN673.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
112/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
132/B5	4.5	9	15	265	300	230	411	15	571	38	10	41.3
160/B5	5.5	10	19	300	350	250	486	20	646	42	12	45.3
180/B5	5.5	10	19	300	350	250	486	20	646	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	743	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	796	60	18	64.4

KN673.05

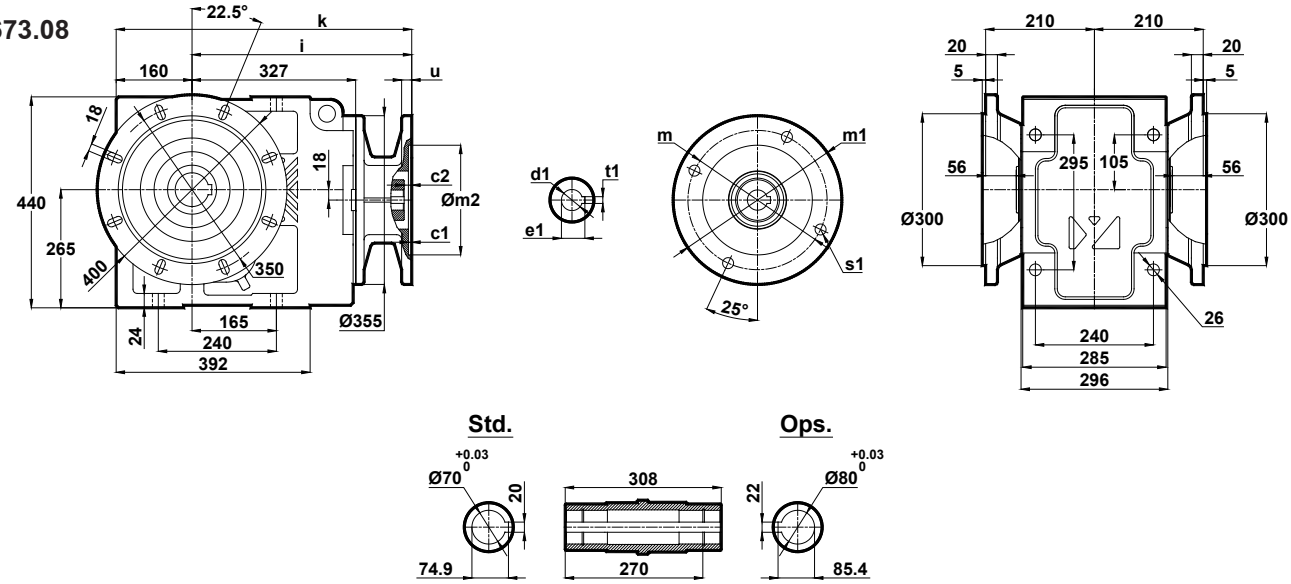




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
112/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
132/B5	4.5	9	15	265	300	230	411	15	571	38	10	41.3
160/B5	5.5	10	19	300	350	250	486	20	646	42	12	45.3
180/B5	5.5	10	19	300	350	250	486	20	646	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	743	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	796	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

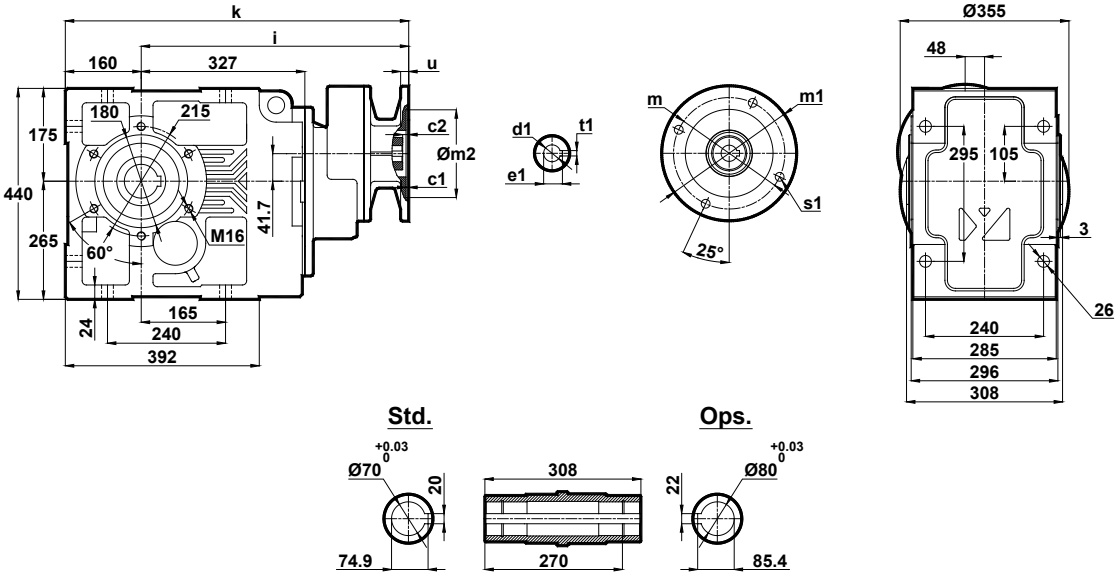
KN673.08



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
112/B5	4.5	14.5	15	215	250	180	396	15	556	28	8	31.3
132/B5	4.5	9	15	265	300	230	411	15	571	38	10	41.3
160/B5	5.5	10	19	300	350	250	486	20	646	42	12	45.3
180/B5	5.5	10	19	300	350	250	486	20	646	48	14	51.8
200/B5	5.5	10	19	350	400	300	506	22	743	55	16	59.3
225/B5	5.5	10	19	400	450	350	559	24	796	60	18	64.4

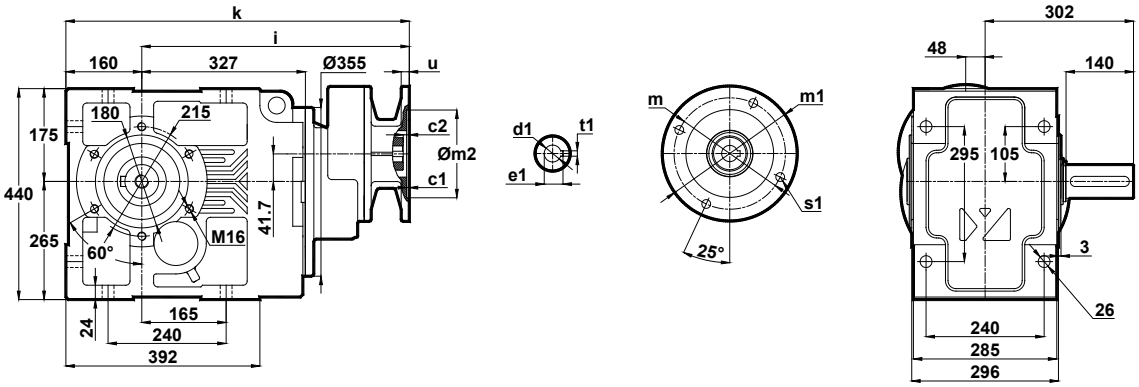
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

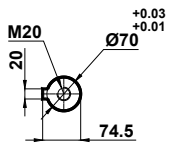
KN674.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	162	200	130	486	12	646	19	6	21.8
90/B5	4	5	13	165	200	130	486	12	646	24	8	27.3
100/B5	4.5	9	15	215	250	180	504	15	664	28	8	31.3

KN674.01

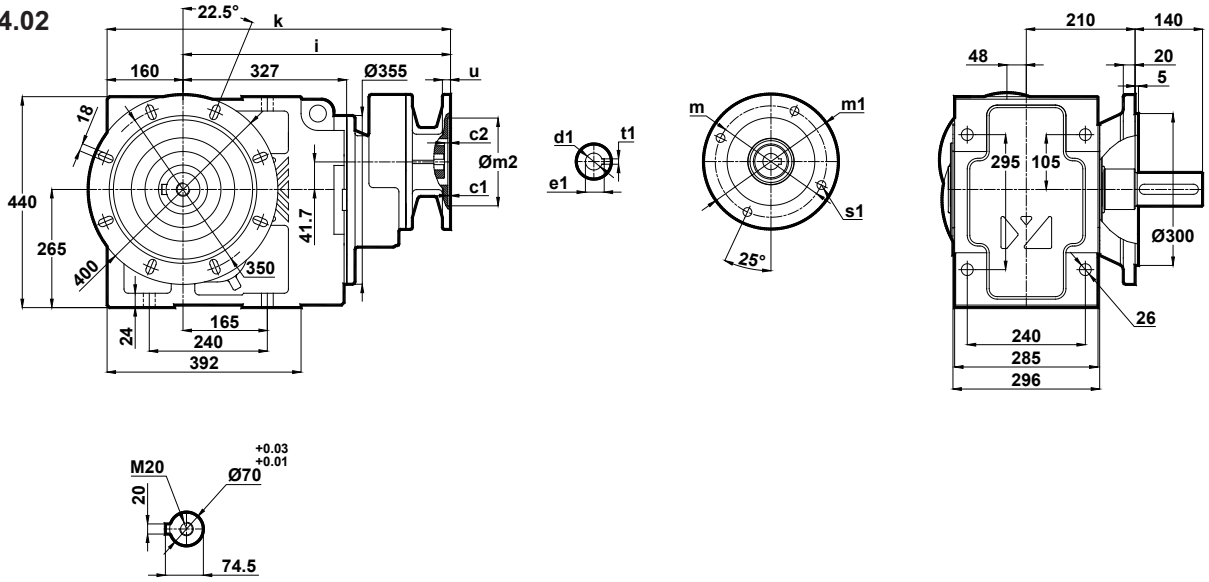




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	162	200	130	486	12	646	19	6	21.8
90/B5	4	5	13	165	200	130	486	12	646	24	8	27.3
100/B5	4.5	9	15	215	250	180	504	15	664	28	8	31.3

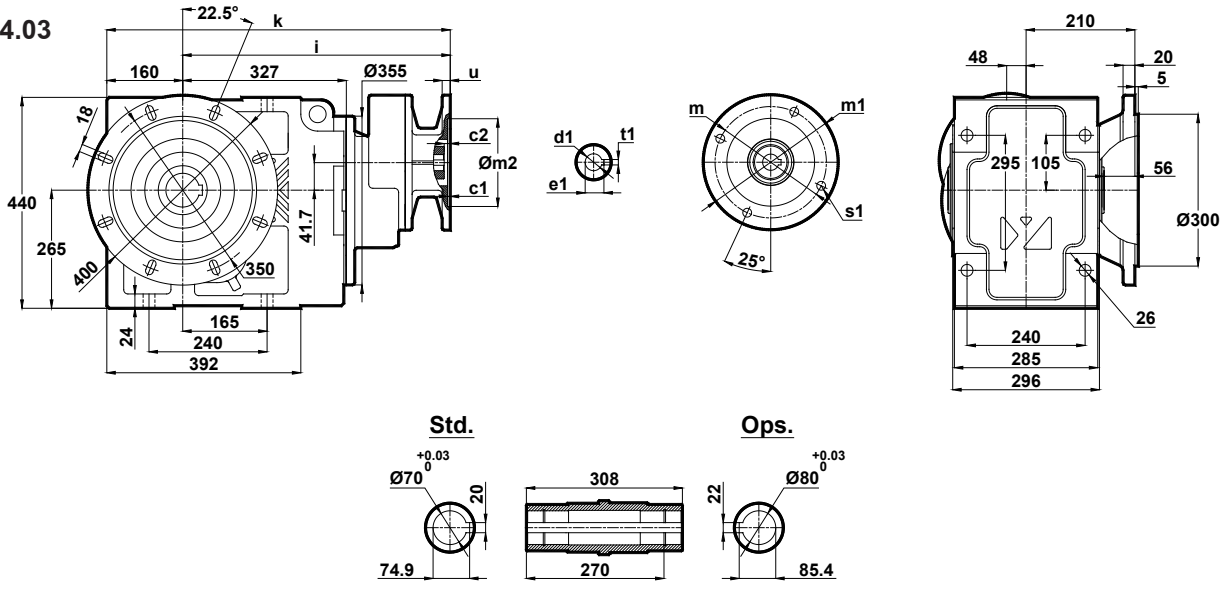
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN674.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	162	200	130	486	12	646	19	6	21.8
90/B5	4	5	13	165	200	130	486	12	646	24	8	27.3
100/B5	4.5	9	15	215	250	180	504	15	664	28	8	31.3

KN674.03

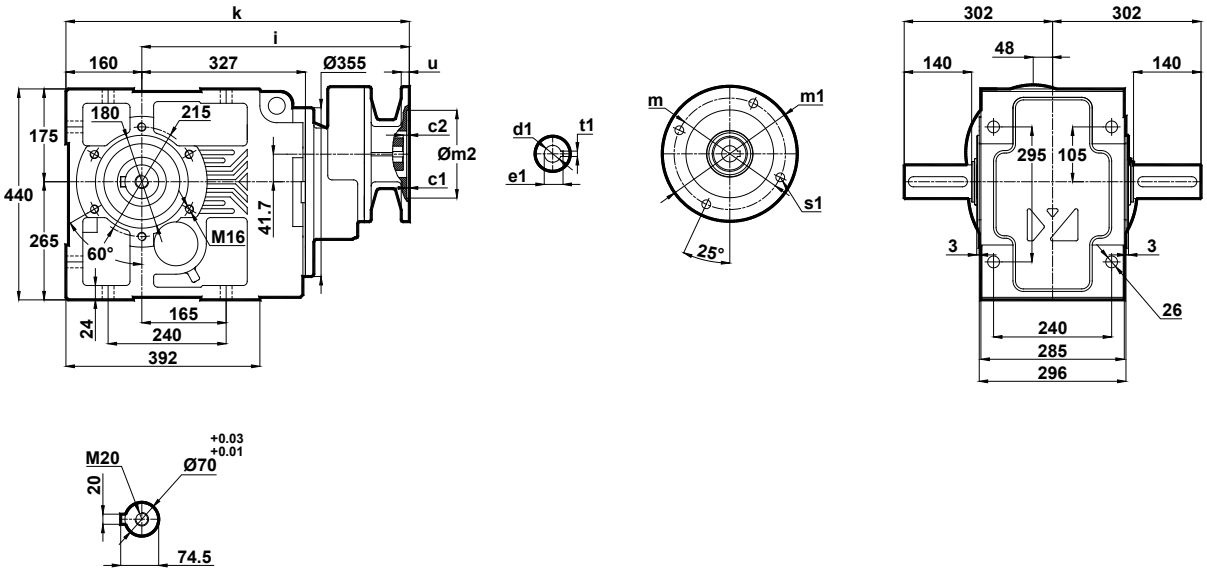


Std. **Ops.**

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	162	200	130	486	12	646	19	6	21.8
90/B5	4	5	13	165	200	130	486	12	646	24	8	27.3
100/B5	4.5	9	15	215	250	180	504	15	664	28	8	31.3

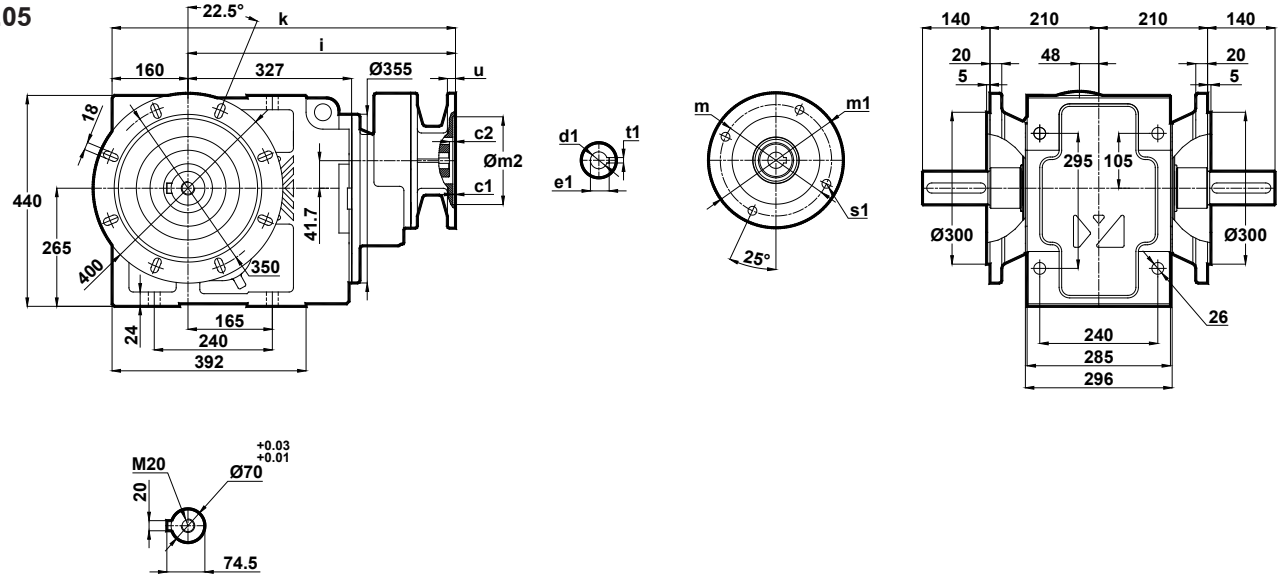
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN674.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	162	200	130	486	12	646	19	6	21.8
90/B5	4	5	13	165	200	130	486	12	646	24	8	27.3
100/B5	4.5	9	15	215	250	180	504	15	664	28	8	31.3

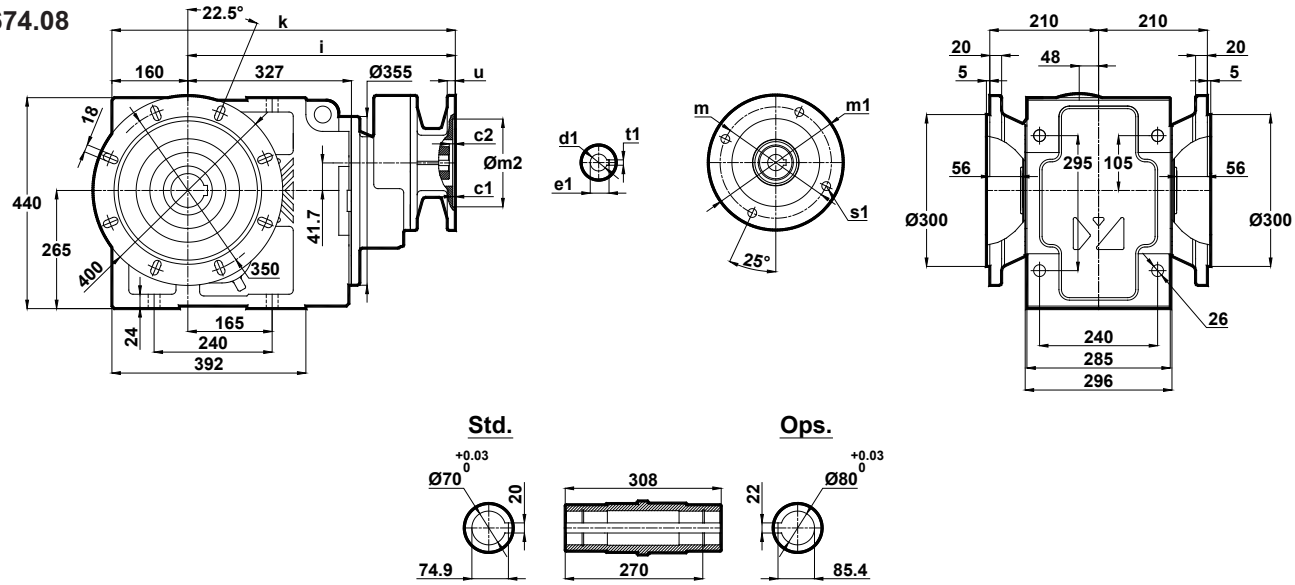
KN674.05



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	162	200	130	486	12	646	19	6	21.8
90/B5	4	5	13	165	200	130	486	12	646	24	8	27.3
100/B5	4.5	9	15	215	250	180	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

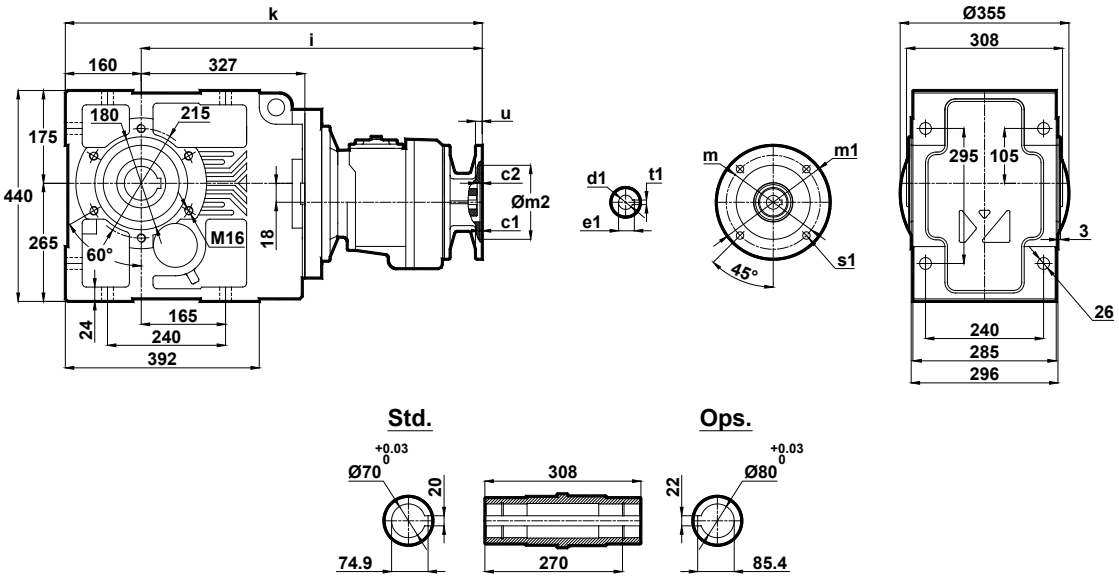
KN674.08



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	162	200	130	486	12	646	19	6	21.8
90/B5	4	5	13	165	200	130	486	12	646	24	8	27.3
100/B5	4.5	9	15	215	250	180	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

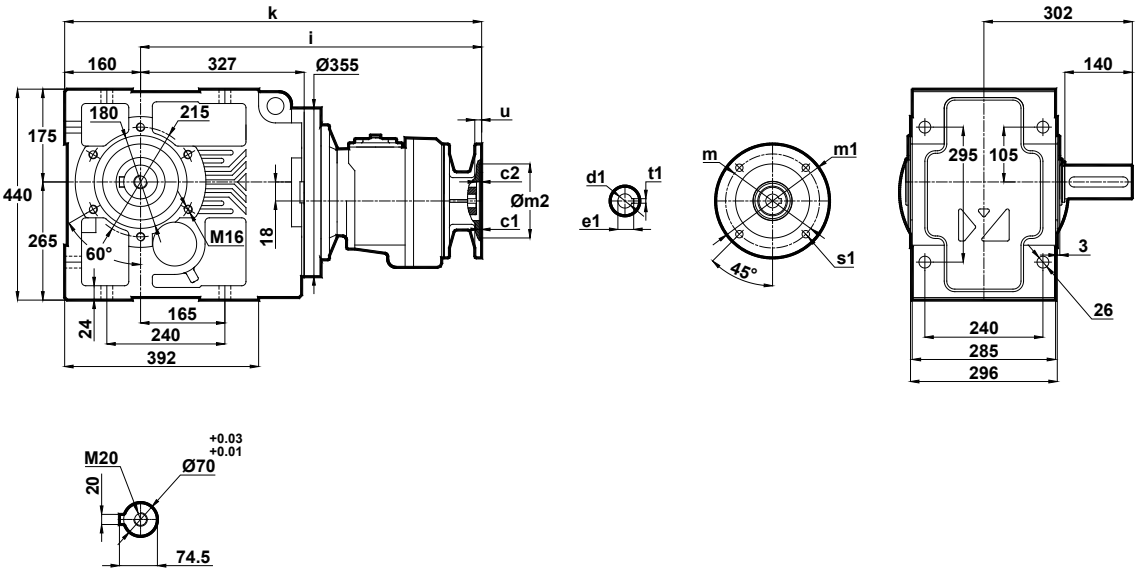


Std.

Ops.

	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	637	12	797	14	5	16.3
80/B5	4	9	13	165	200	130	637	12	797	19	6	21.8
90/B5	4	9	13	165	200	130	637	12	797	24	8	27.3

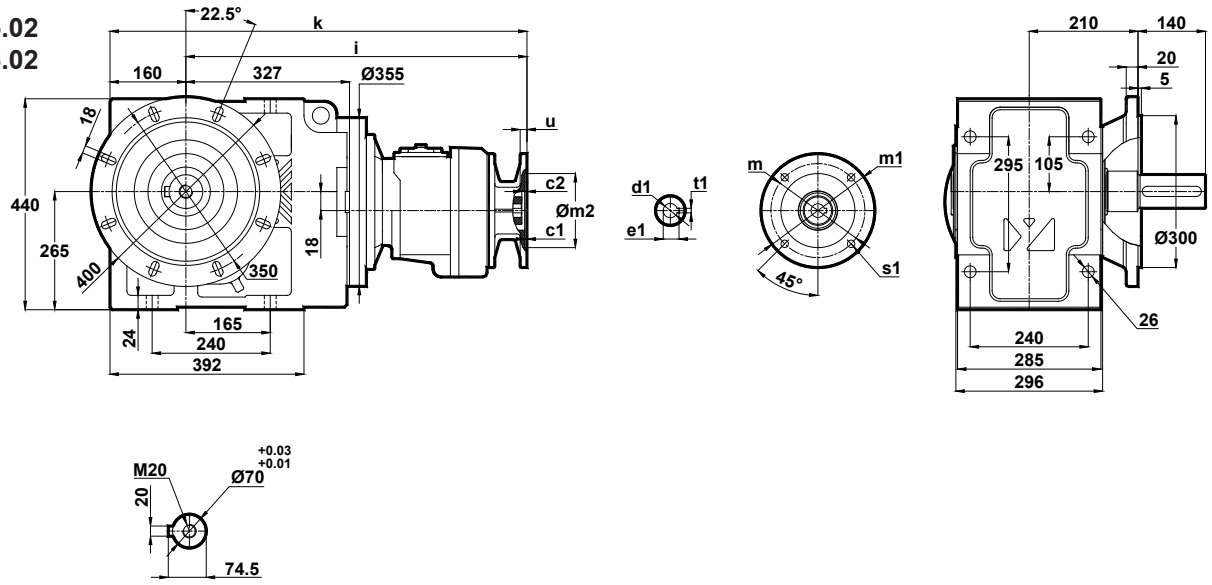
KN675.01
KN676.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	637	12	797	14	5	16.3
80/B5	4	9	13	165	200	130	637	12	797	19	6	21.8
90/B5	4	9	13	165	200	130	637	12	797	24	8	27.3

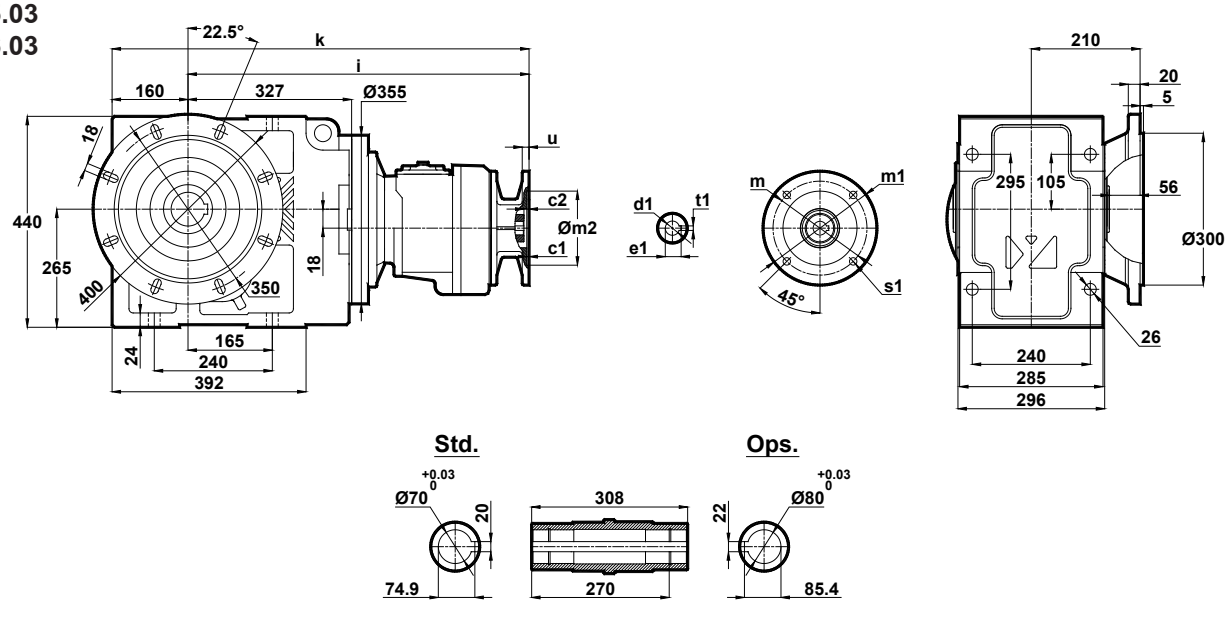
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN675.02
KN676.02



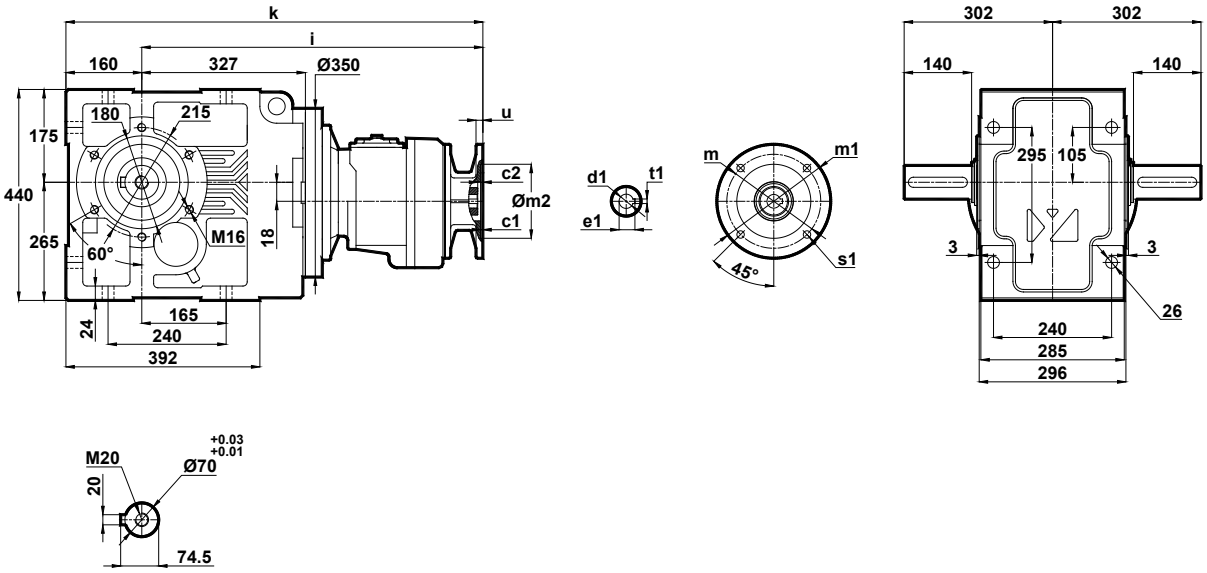
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	637	12	797	14	5	16.3
80/B5	4	9	13	165	200	130	637	12	797	19	6	21.8
90/B5	4	9	13	165	200	130	637	12	797	24	8	27.3

KN675.03
KN676.03



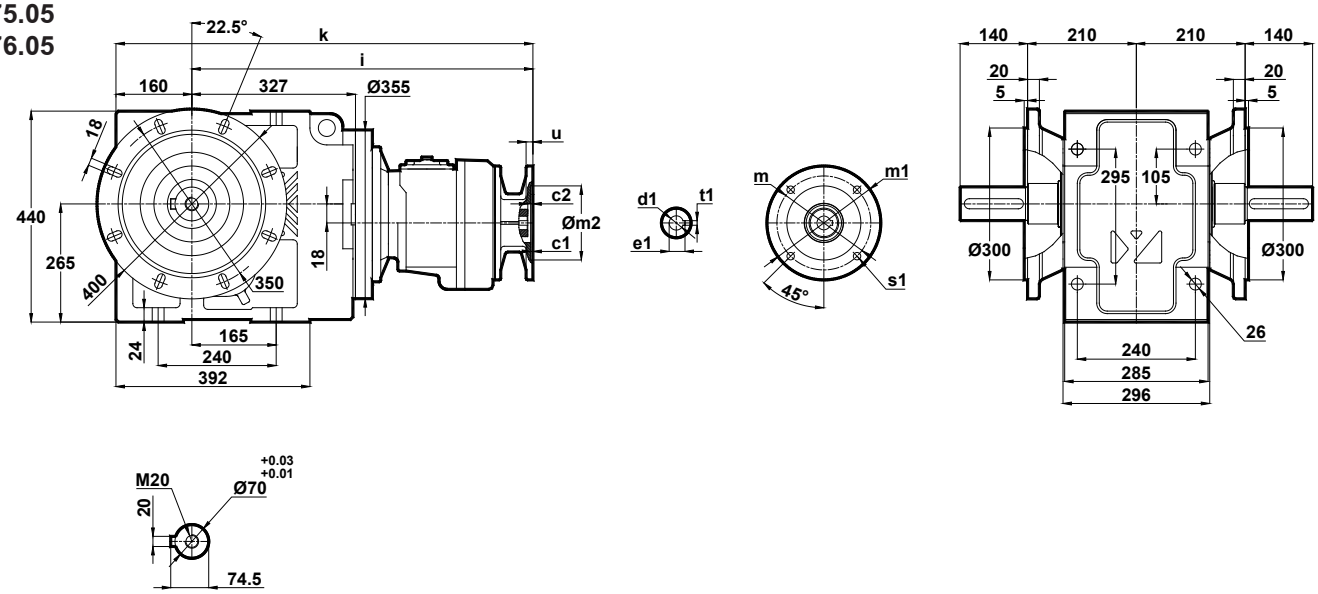
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	637	12	797	14	5	16.3
80/B5	4	9	13	165	200	130	637	12	797	19	6	21.8
90/B5	4	9	13	165	200	130	637	12	797	24	8	27.3

KN675.04
KN676.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	637	12	797	14	5	16.3
80/B5	4	9	13	165	200	130	637	12	797	19	6	21.8
90/B5	4	9	13	165	200	130	637	12	797	24	8	27.3

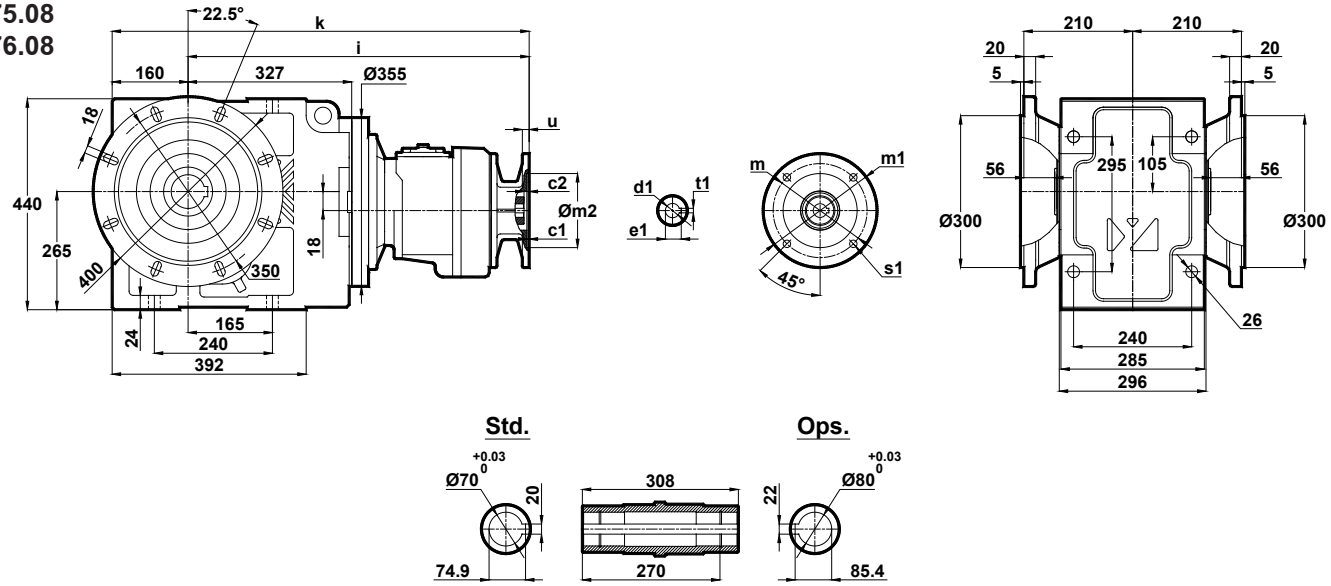
KN675.05
KN676.05



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	637	12	797	14	5	16.3
80/B5	4	9	13	165	200	130	637	12	797	19	6	21.8
90/B5	4	9	13	165	200	130	637	12	797	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

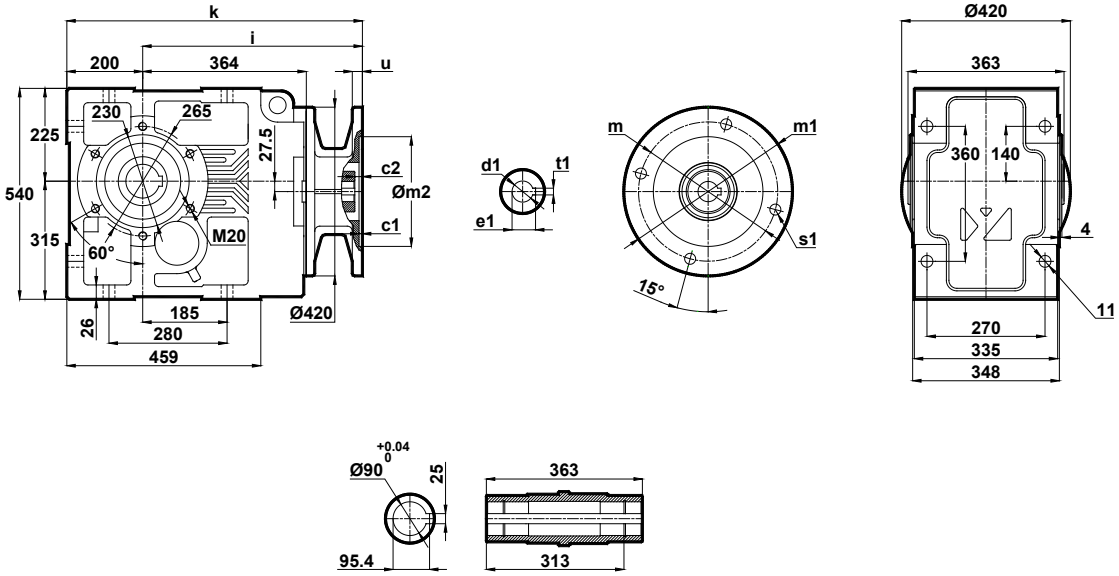
KN675.08
KN676.08



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	637	12	797	14	5	16.3
80/B5	4	9	13	165	200	130	637	12	797	19	6	21.8
90/B5	4	9	13	165	200	130	637	12	797	24	8	27.3

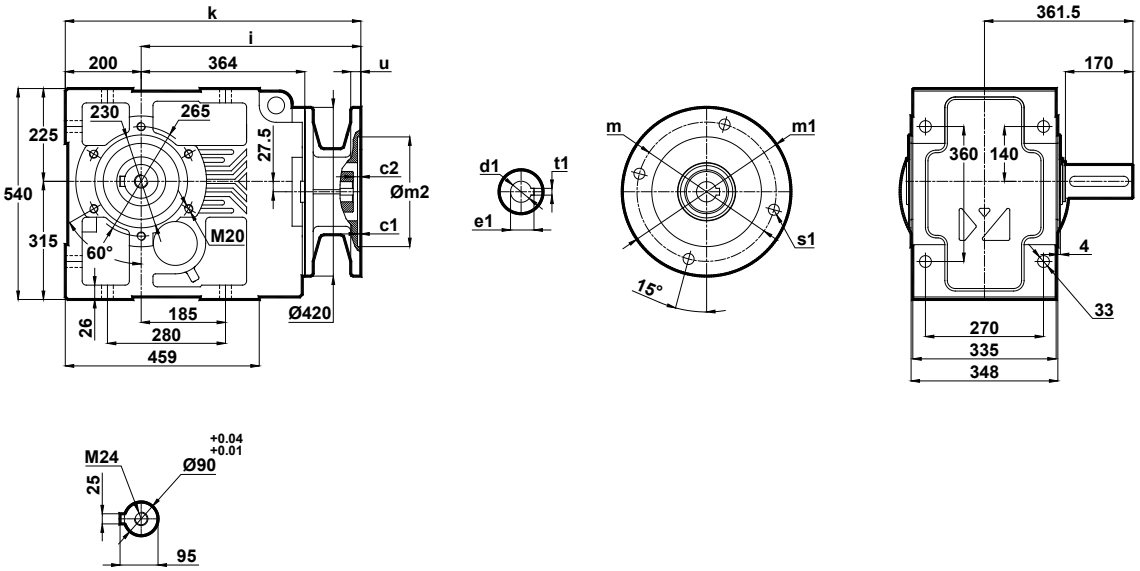
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN773.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	448	15	648	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

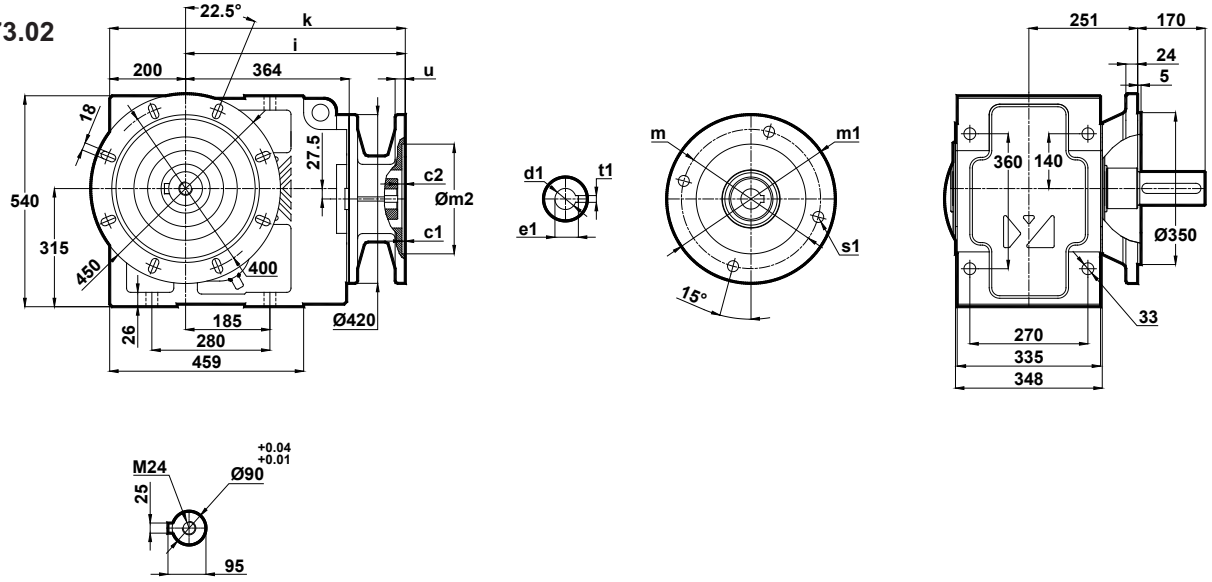
KN773.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	448	15	648	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

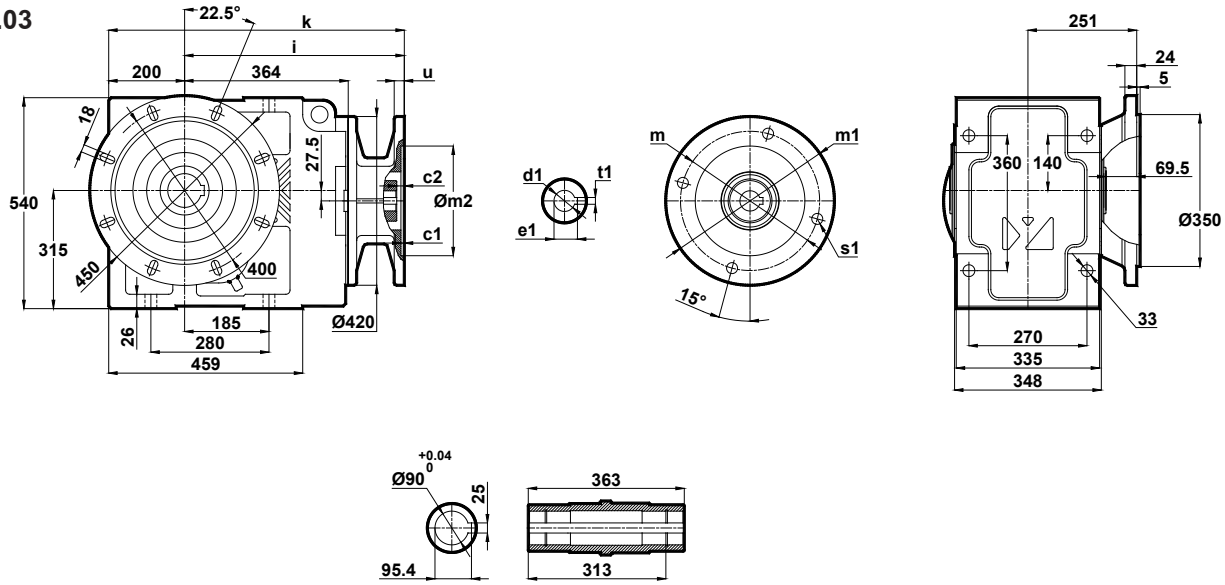
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN773.02



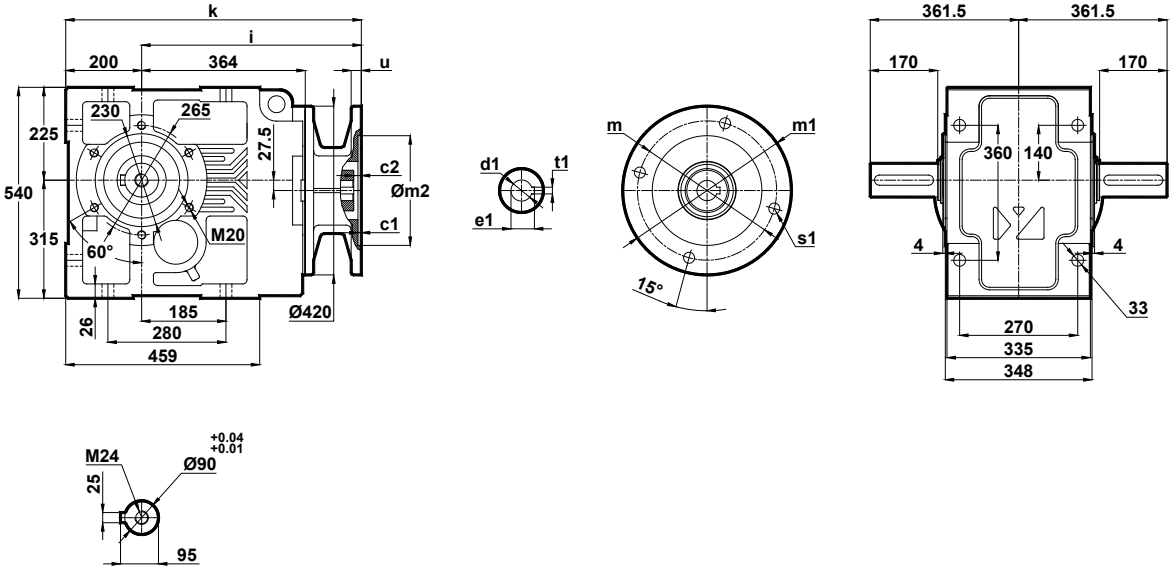
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	448	15	648	38	10	41.3
160/B5	5.5	10	19	300	350	250	517	20	717	42	12	45.3
180/B5	5.5	10	19	300	350	250	517	20	717	48	14	51.8
200/B5	5.5	10	19	350	400	300	539	20	739	55	16	59.3
225/B5	5.5	10	19	400	450	350	592	24	792	60	18	64.4
250/B5	5.5	10	19	500	550	450	592	24	792	65	18	69.4

KN773.03



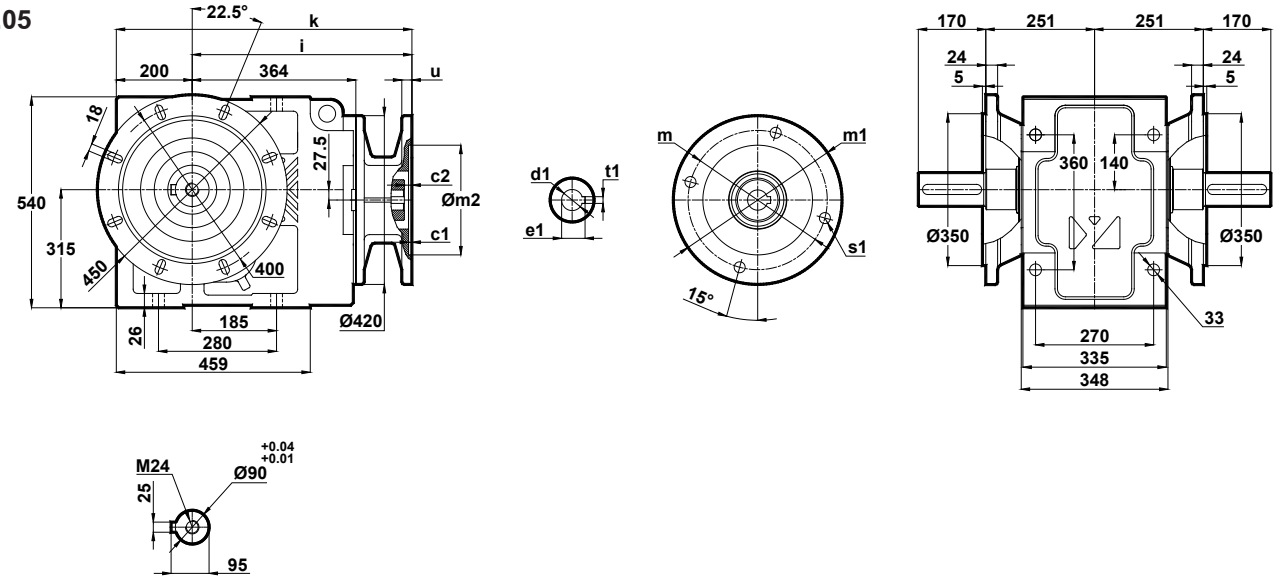
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	448	15	648	38	10	41.3
160/B5	5.5	10	19	300	350	250	517	20	717	42	12	45.3
180/B5	5.5	10	19	300	350	250	517	20	717	48	14	51.8
200/B5	5.5	10	19	350	400	300	539	20	739	55	16	59.3
225/B5	5.5	10	19	400	450	350	592	24	792	60	18	64.4
250/B5	5.5	10	19	500	550	450	592	24	792	65	18	69.4

KN773.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	448	15	648	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

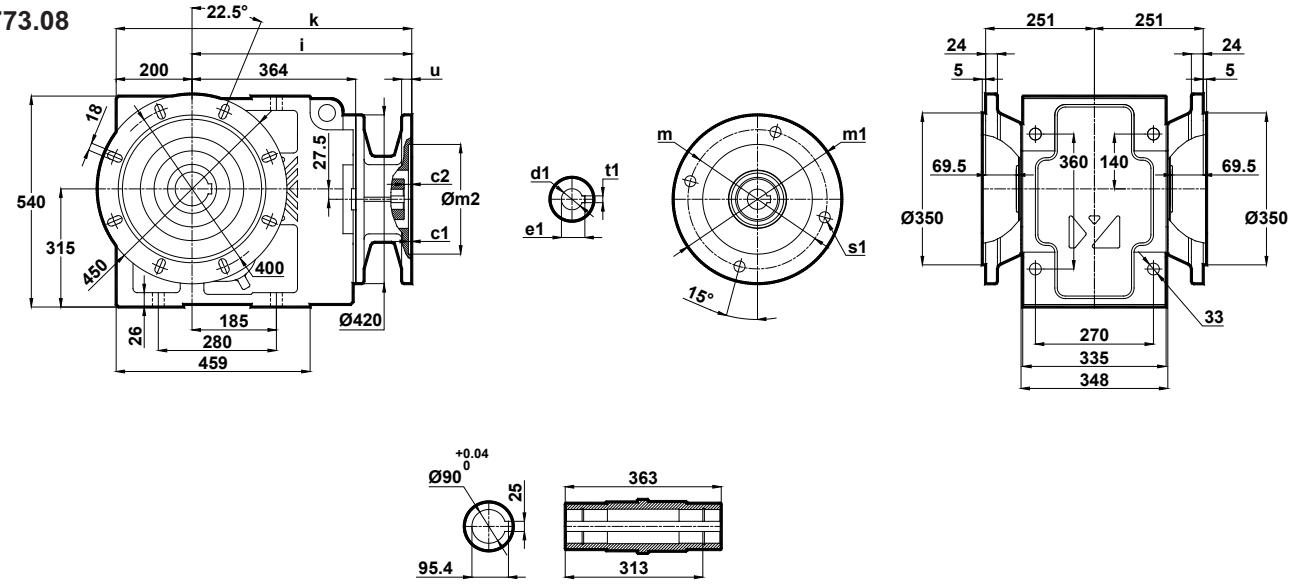
KN773.05



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	448	15	648	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

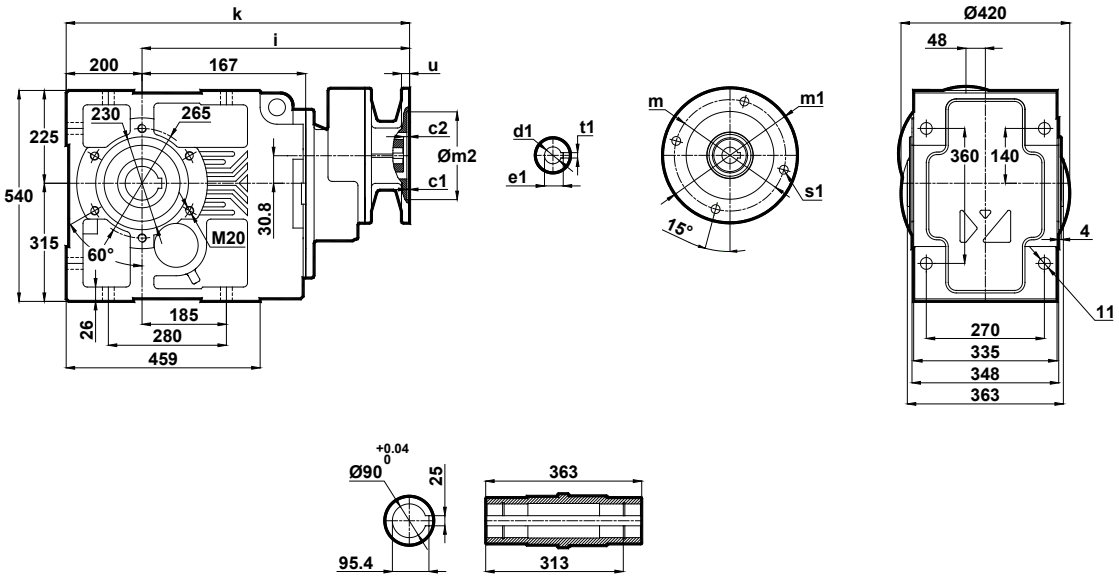
KN773.08



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
132/B5	4.5	15	15	265	300	230	448	15	648	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

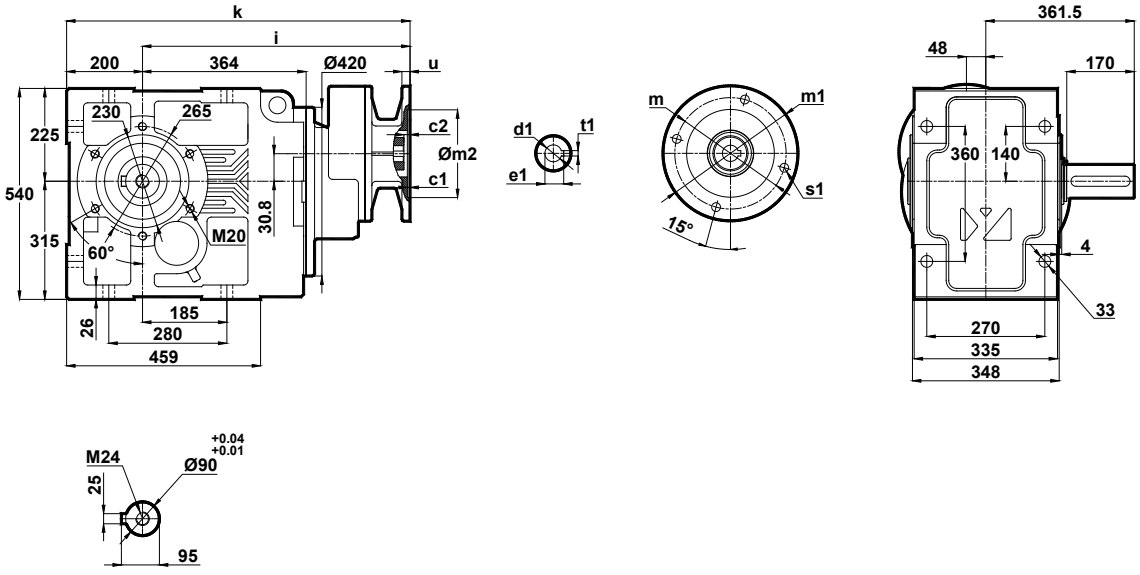
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN774.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5	4	5	13	165	200	130	523	12	723	24	8	27.3
100/B5	4.5	9	15	215	250	180	541	15	741	28	8	31.3
112/B5	4.5	9	15	215	250	180	560	15	741	28	8	31.3
132/B5	4.5	6	15	265	300	230	639	15	760	38	10	41.3

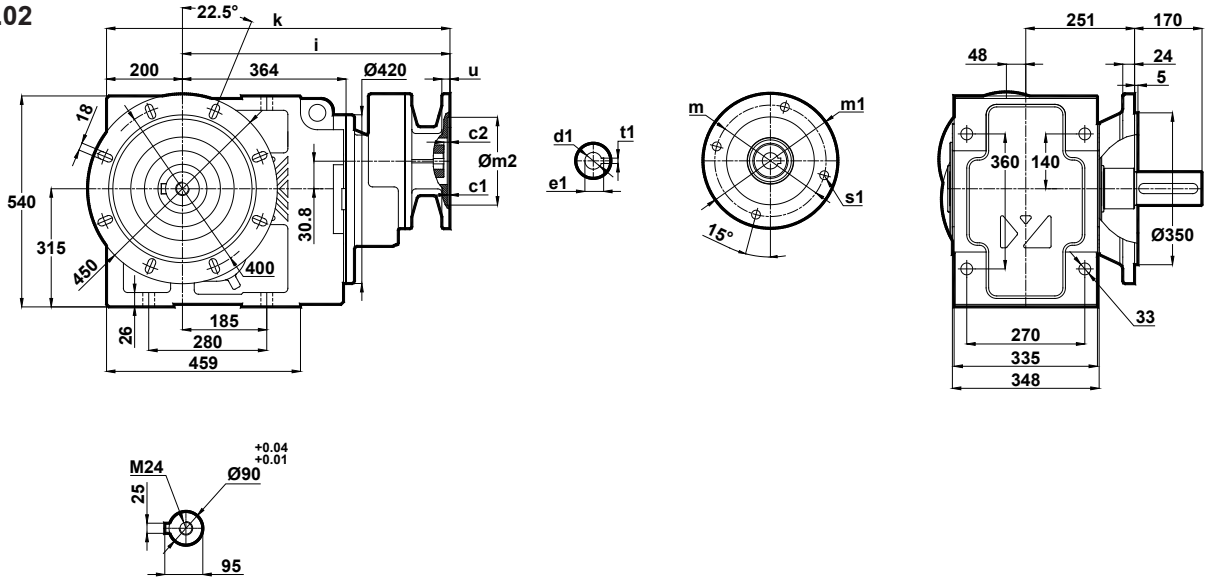
KN774.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5	4	5	13	165	200	130	523	12	723	24	8	27.3
100/B5	4.5	9	15	215	250	180	541	15	741	28	8	31.3
112/B5	4.5	9	15	215	250	180	560	15	741	28	8	31.3
132/B5	4.5	6	15	265	300	230	639	15	760	38	10	41.3

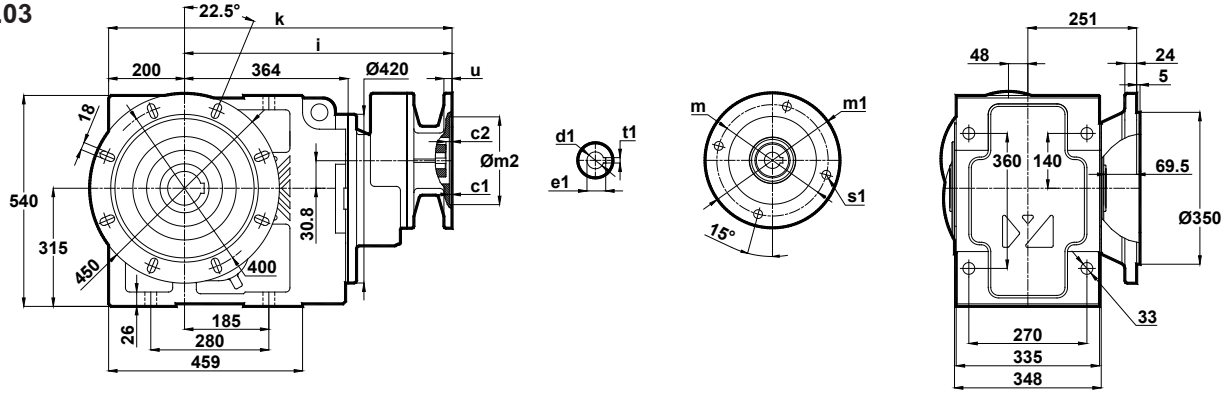
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

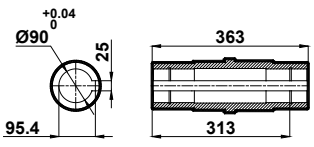
KN774.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5	4	5	13	165	200	130	523	12	723	24	8	27.3
100/B5	4.5	9	15	215	250	180	541	15	741	28	8	31.3
112/B5	4.5	9	15	215	250	180	560	15	741	28	8	31.3
132/B5	4.5	6	15	265	300	230	639	15	760	38	10	41.3

KN774.03

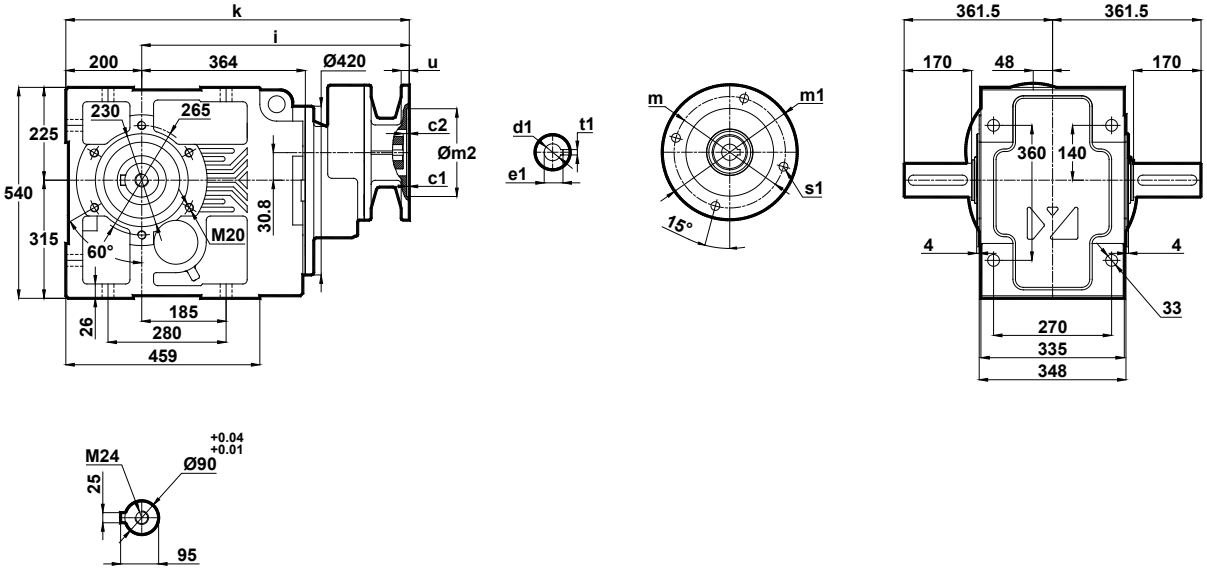




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5	4	5	13	165	200	130	523	12	723	24	8	27.3
100/B5	4.5	9	15	215	250	180	541	15	741	28	8	31.3
112/B5	4.5	9	15	215	250	180	560	15	741	28	8	31.3
132/B5	4.5	6	15	265	300	230	639	15	760	38	10	41.3

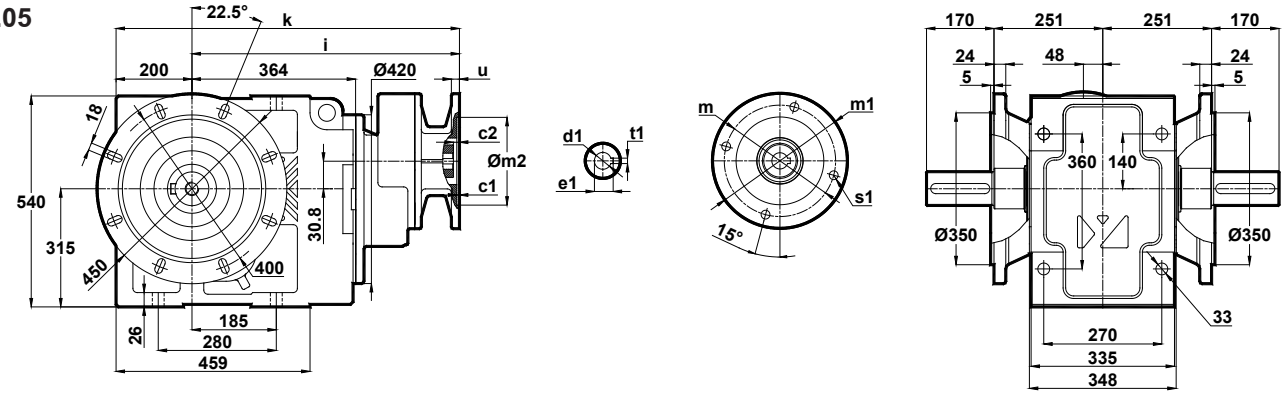
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

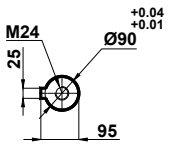
KN774.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5	4	5	13	165	200	130	523	12	723	24	8	27.3
100/B5	4.5	9	15	215	250	180	541	15	741	28	8	31.3
112/B5	4.5	9	15	215	250	180	560	15	741	28	8	31.3
132/B5	4.5	6	15	265	300	230	639	15	760	38	10	41.3

KN774.05

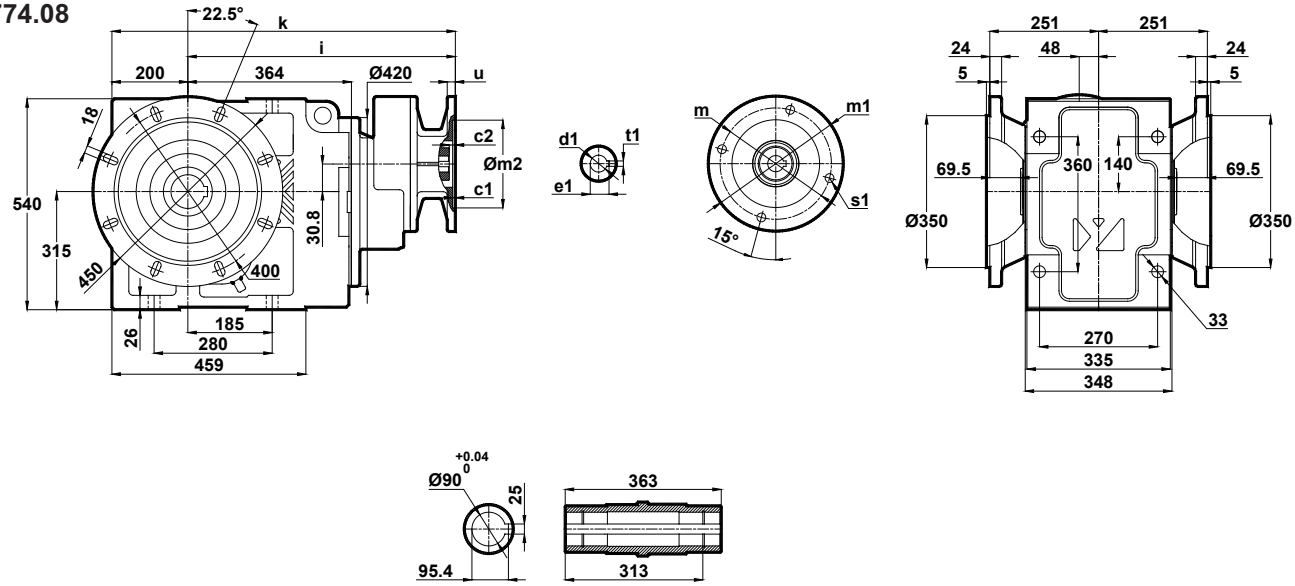




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5	4	5	13	165	200	130	523	12	723	24	8	27.3
100/B5	4.5	9	15	215	250	180	541	15	741	28	8	31.3
112/B5	4.5	9	15	215	250	180	560	15	741	28	8	31.3
132/B5	4.5	6	15	265	300	230	639	15	760	38	10	41.3

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

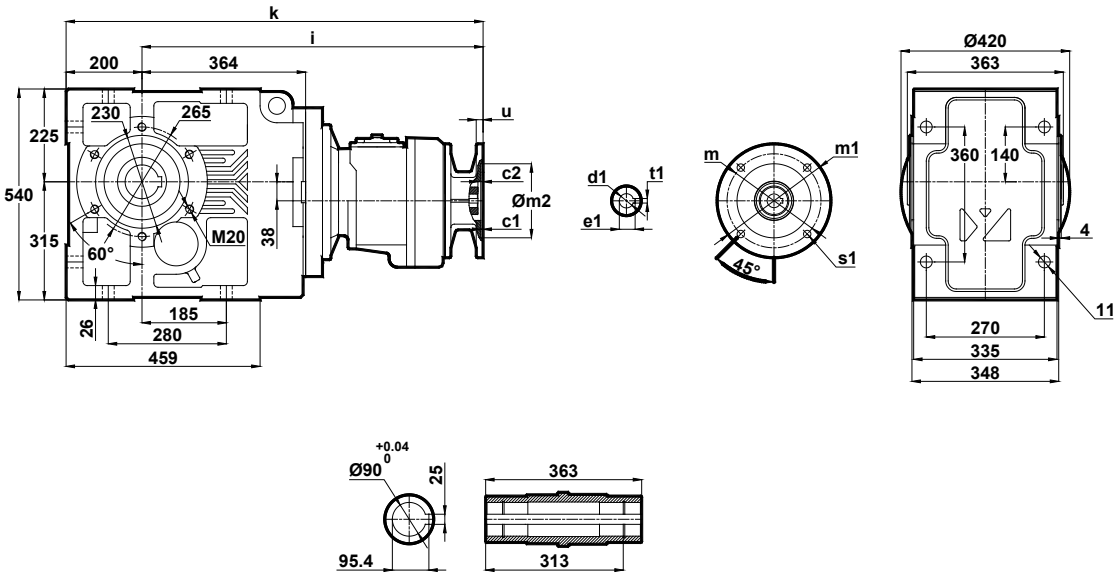
KN774.08



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
90/B5	4	5	13	165	200	130	523	12	723	24	8	27.3
100/B5	4.5	9	15	215	250	180	541	15	741	28	8	31.3
112/B5	4.5	9	15	215	250	180	560	15	741	28	8	31.3
132/B5	4.5	6	15	265	300	230	639	15	760	38	10	41.3

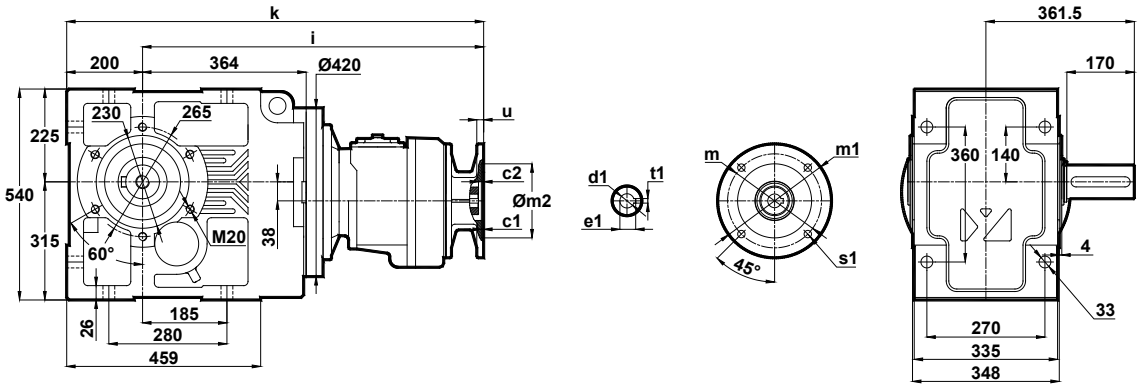
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

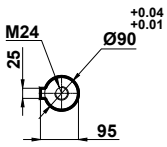
KN775.00
KN776.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	674	12	874	14	5	16.3
80/B5	4	9	13	165	200	130	674	12	874	19	6	21.8
90/B5	4	9	13	165	200	130	674	12	874	24	8	27.3
100/B5	4.5	9	15	215	250	180	691	15	891	28	8	31.3

KN775.01
KN776.01

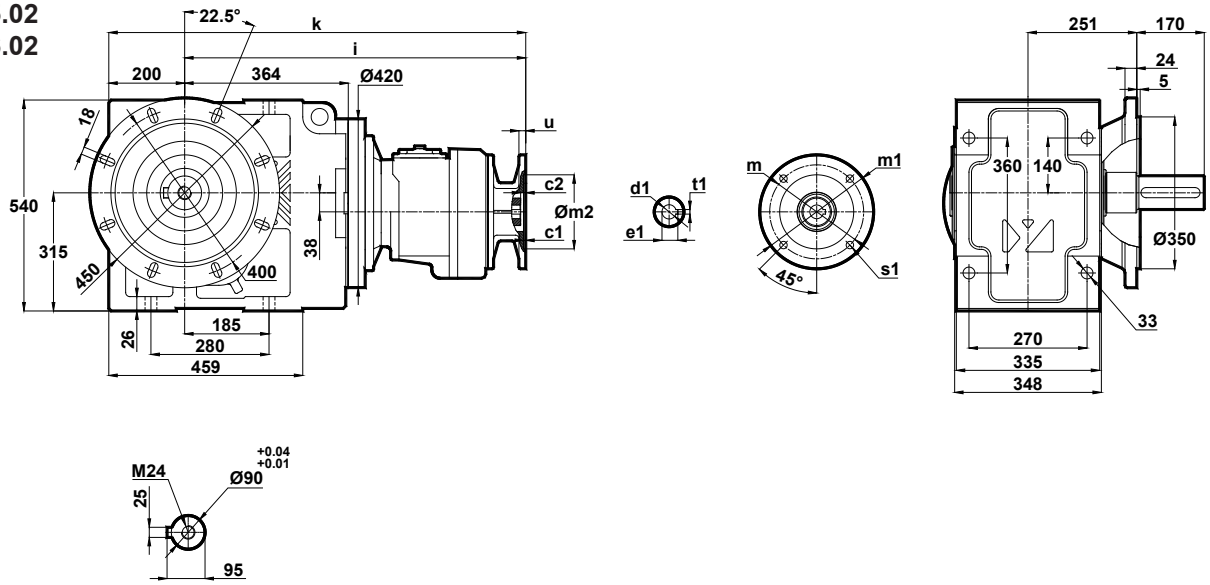




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	674	12	874	14	5	16.3
80/B5	4	9	13	165	200	130	674	12	874	19	6	21.8
90/B5	4	9	13	165	200	130	674	12	874	24	8	27.3
100/B5	4.5	9	15	215	250	180	691	15	891	28	8	31.3

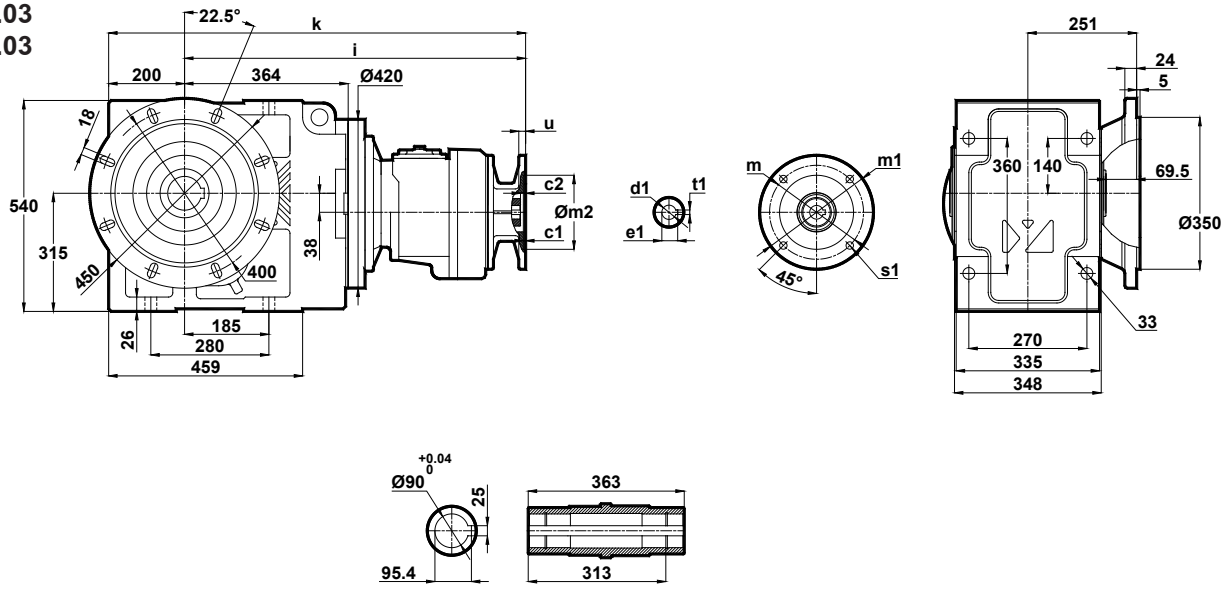
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN775.02
KN776.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	674	12	874	14	5	16.3
80/B5	4	9	13	165	200	130	674	12	874	19	6	21.8
90/B5	4	9	13	165	200	130	674	12	874	24	8	27.3
100/B5	4.5	9	15	215	250	180	691	15	891	28	8	31.3

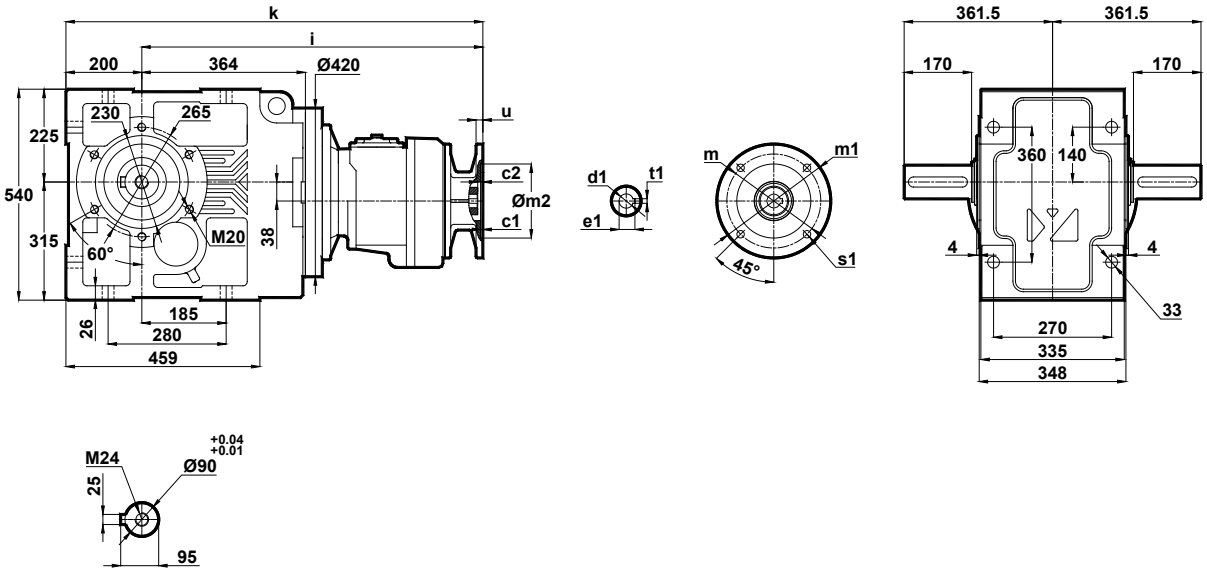
KN775.03
KN776.03



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	674	12	874	14	5	16.3
80/B5	4	9	13	165	200	130	674	12	874	19	6	21.8
90/B5	4	9	13	165	200	130	674	12	874	24	8	27.3
100/B5	4.5	9	15	215	250	180	691	15	891	28	8	31.3

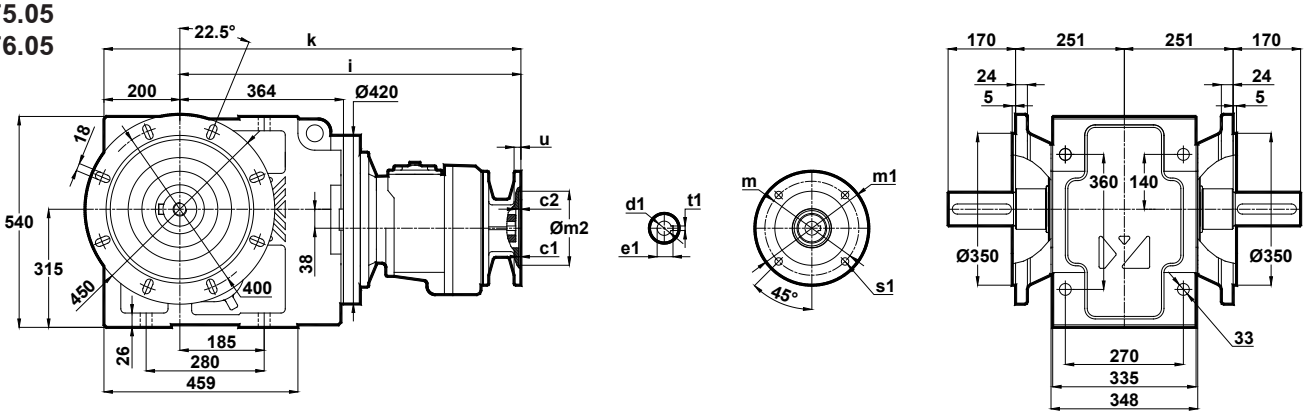
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

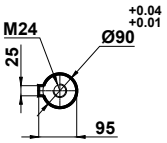
KN775.04
KN776.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	674	12	874	14	5	16.3
80/B5	4	9	13	165	200	130	674	12	874	19	6	21.8
90/B5	4	9	13	165	200	130	674	12	874	24	8	27.3
100/B5	4.5	9	15	215	250	180	691	15	891	28	8	31.3

KN775.05
KN776.05

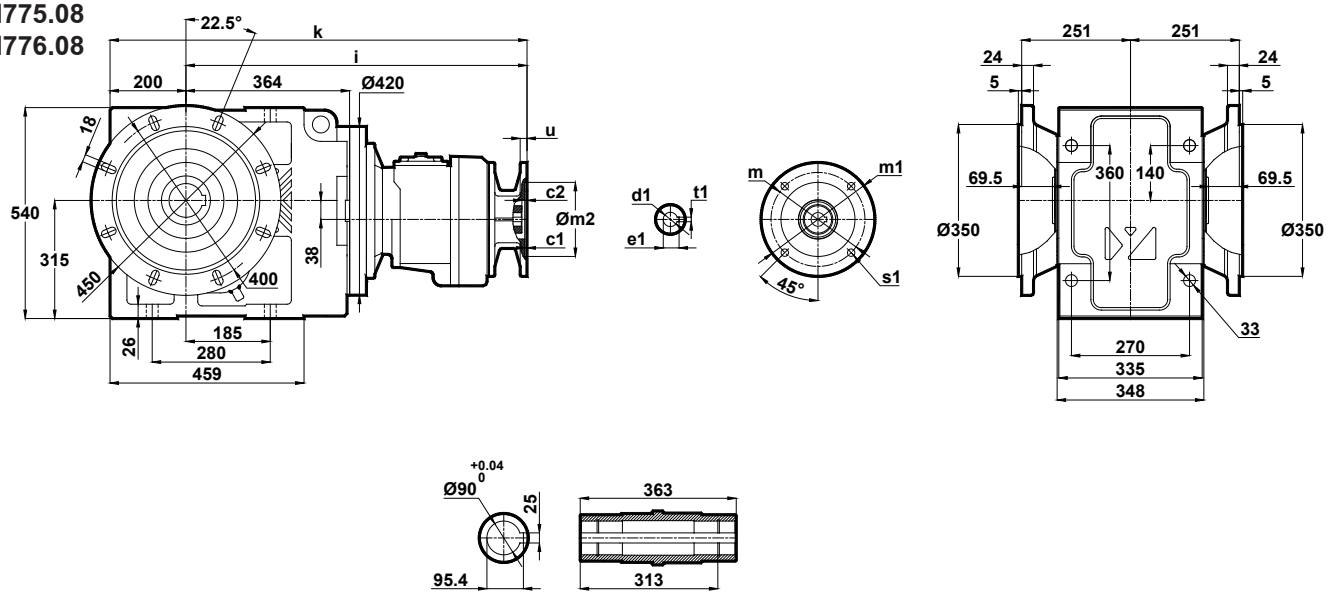




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	674	12	874	14	5	16.3
80/B5	4	9	13	165	200	130	674	12	874	19	6	21.8
90/B5	4	9	13	165	200	130	674	12	874	24	8	27.3
100/B5	4.5	9	15	215	250	180	691	15	891	28	8	31.3

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

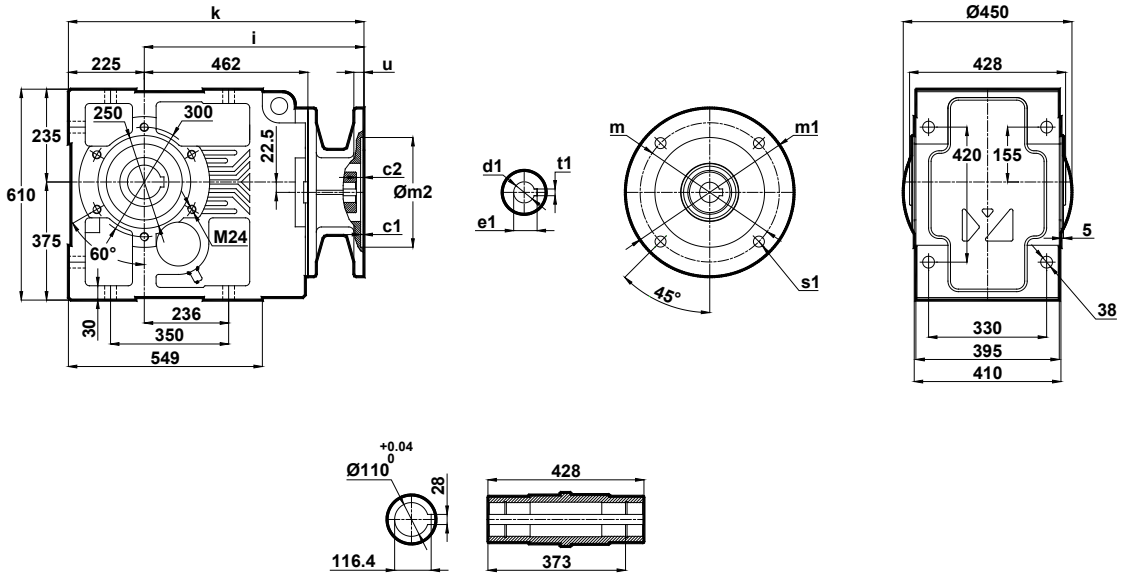
KN775.08
KN776.08



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	674	12	874	14	5	16.3
80/B5	4	9	13	165	200	130	674	12	874	19	6	21.8
90/B5	4	9	13	165	200	130	674	12	874	24	8	27.3
100/B5	4.5	9	15	215	250	180	691	15	891	28	8	31.3

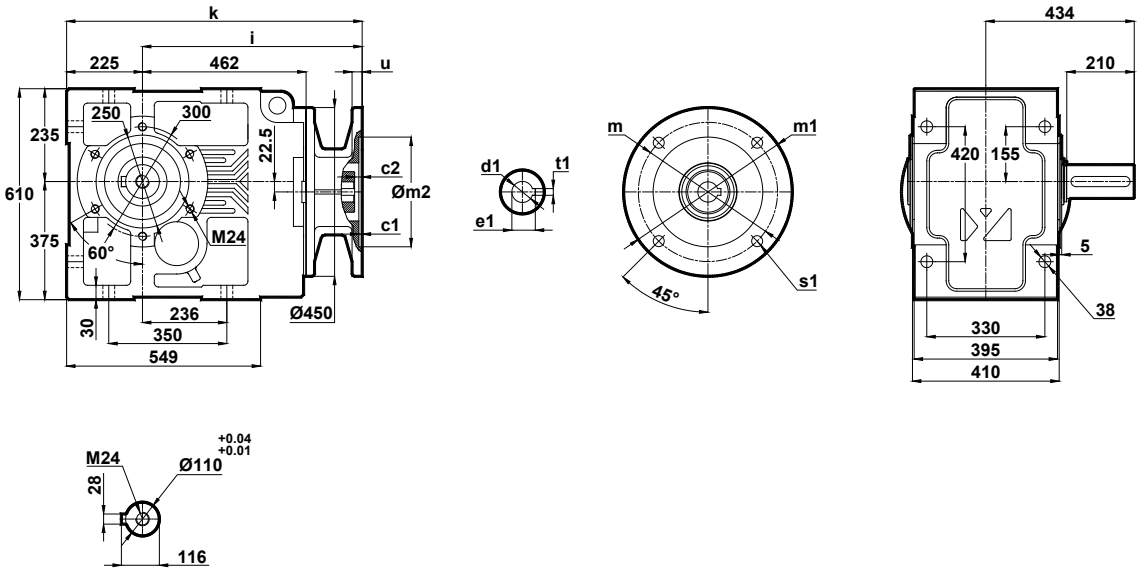
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN873.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
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/B4	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

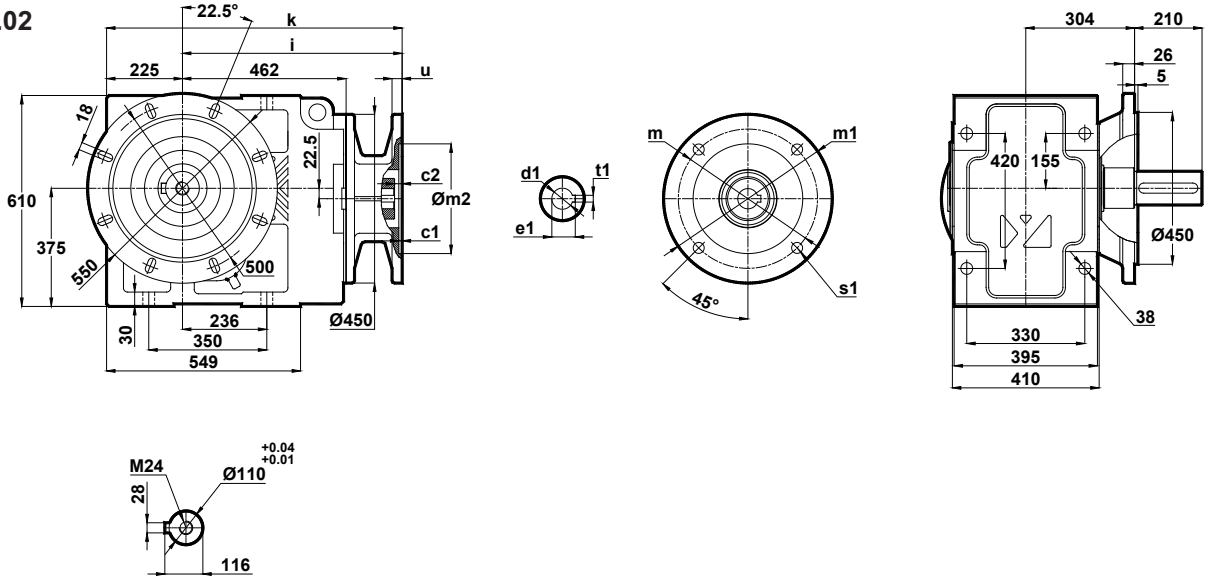
KN873.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
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/B4	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

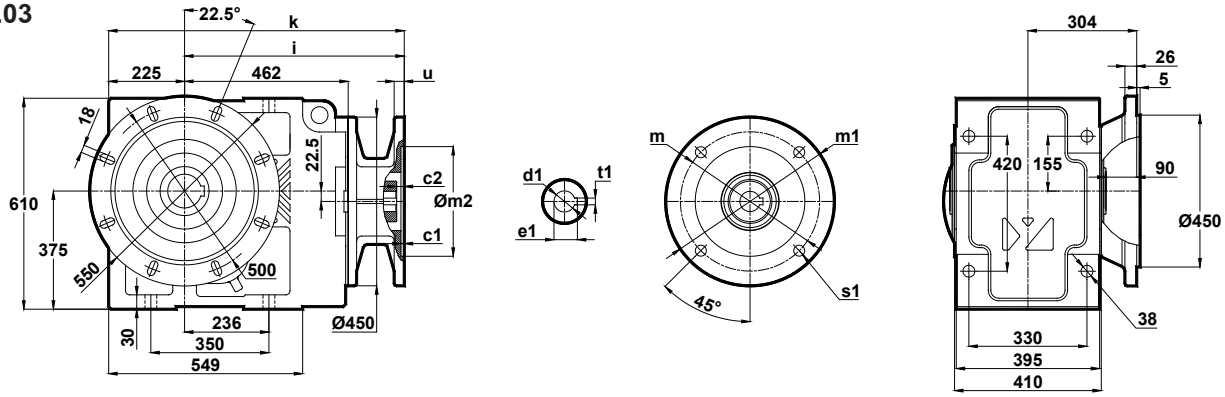
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

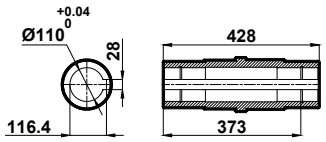
KN873.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
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/B4	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

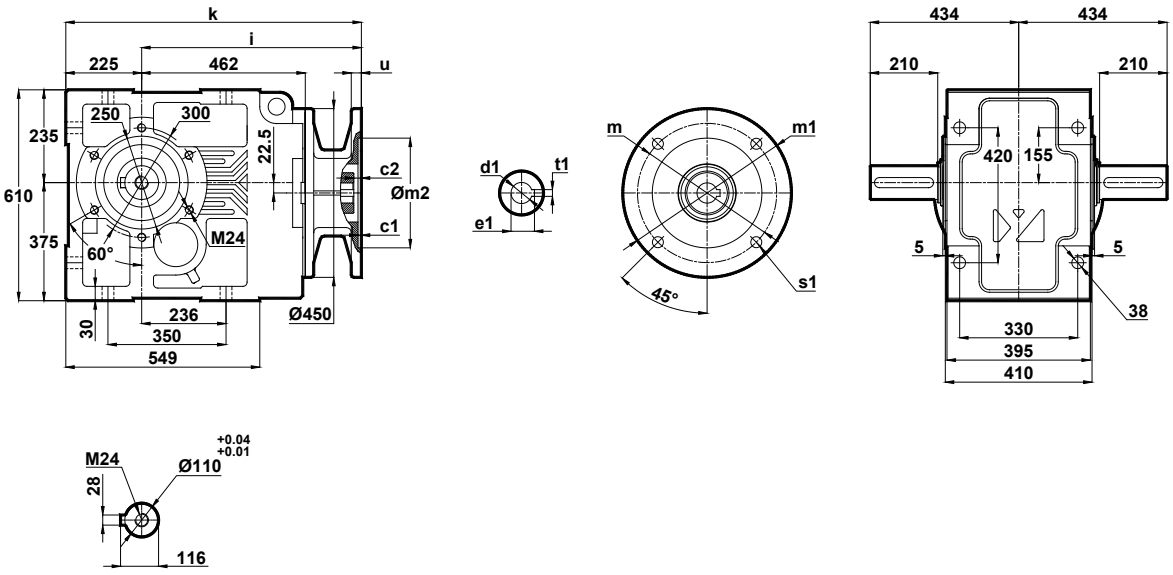




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
160/B5	5.5	10	19	300	350	250	680	20	905	42	12	45.3
180/B5	5.5	10	19	300	350	250	680	20	905	48	14	51.8
200/B4	5.5	10	19	350	400	300	680	22	905	55	16	59.3
225/B5	5.5	10	19	400	450	350	680	24	905	60	18	64.4
250/B5	5.5	10	19	500	550	450	680	24	905	65	18	69.4
280/B5	5.5	10	19	500	550	450	680	24	905	75	20	79.9

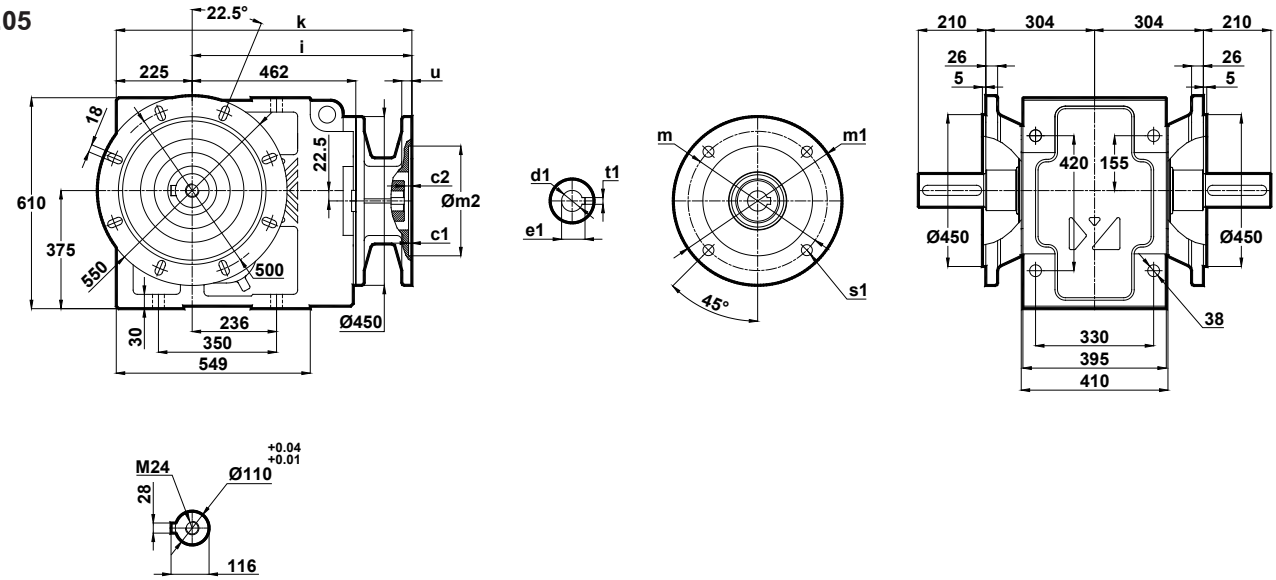
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN873.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
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/B4	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

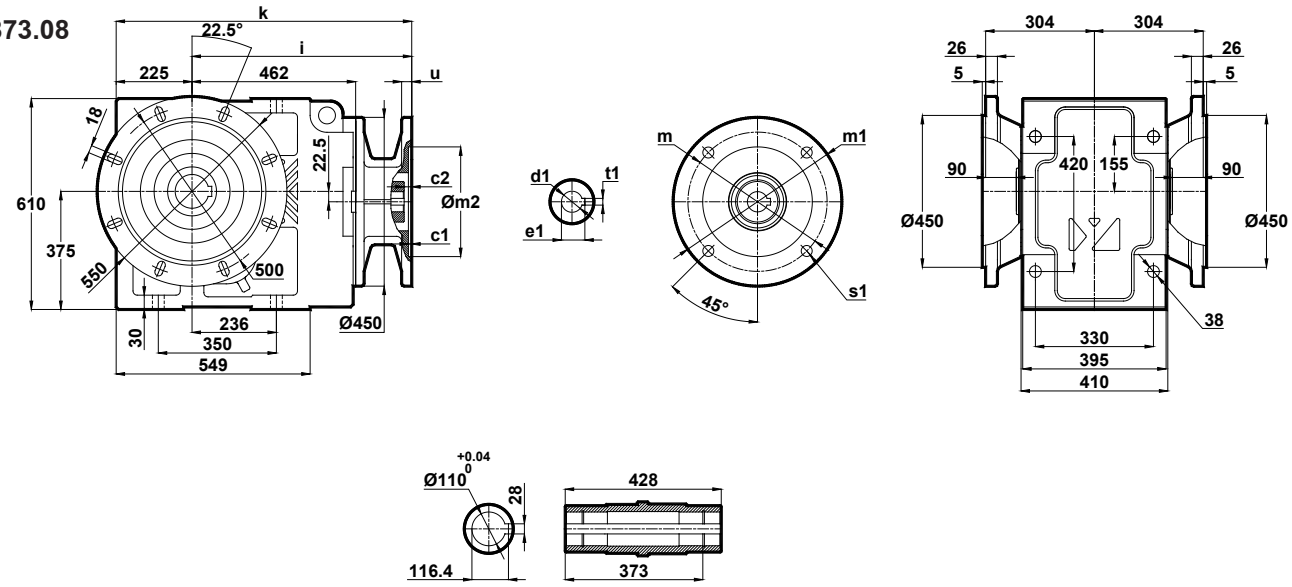
KN873.05



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
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/B4	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

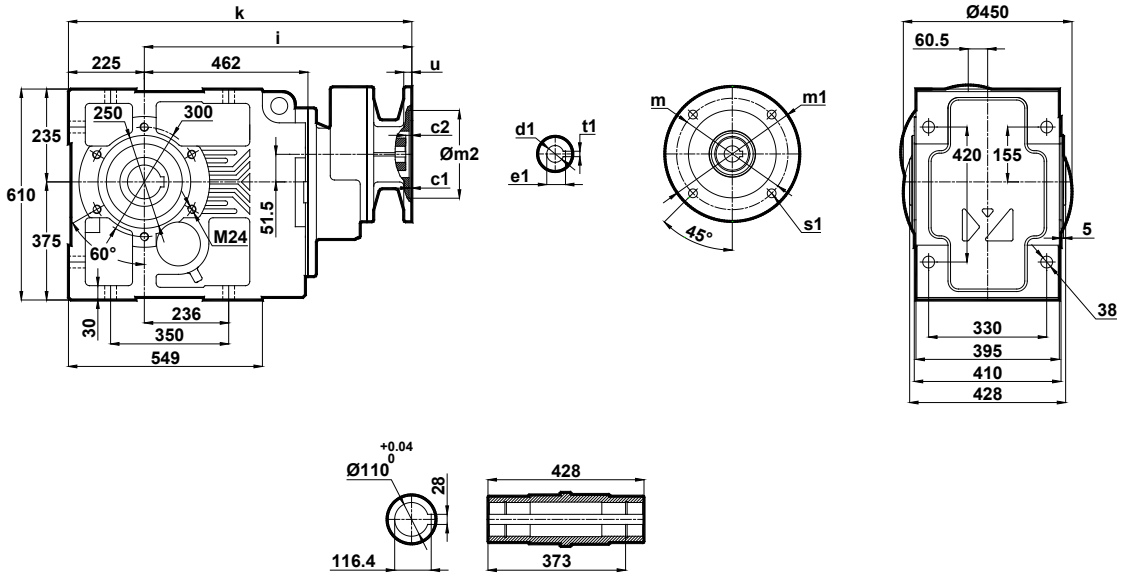
KN873.08



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
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/B4	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

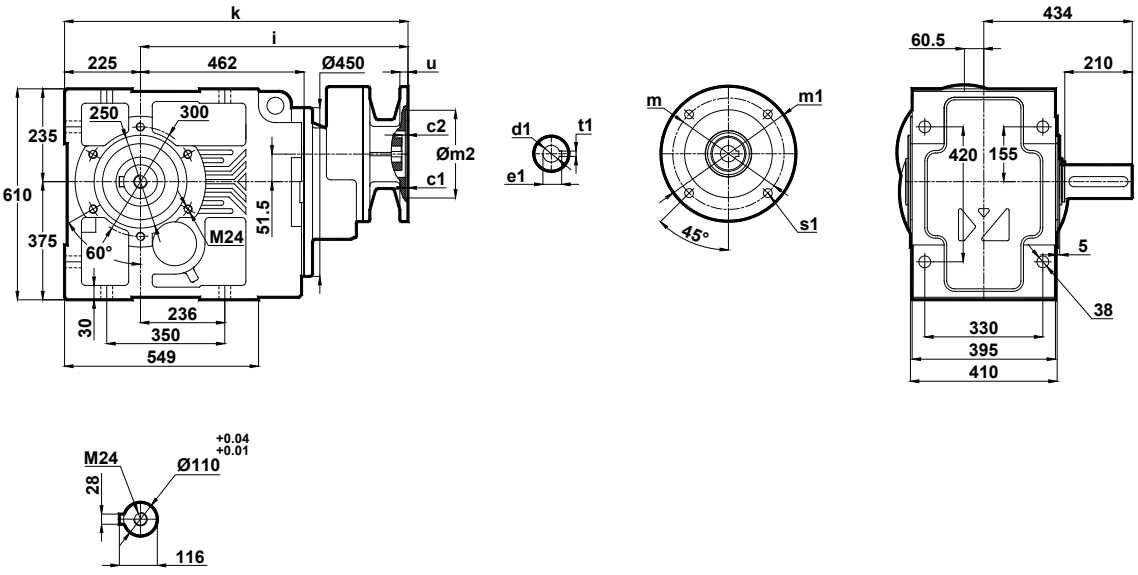
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN874.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
112/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
132/B5	4.5	9	15	265	300	230	674	15	899	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

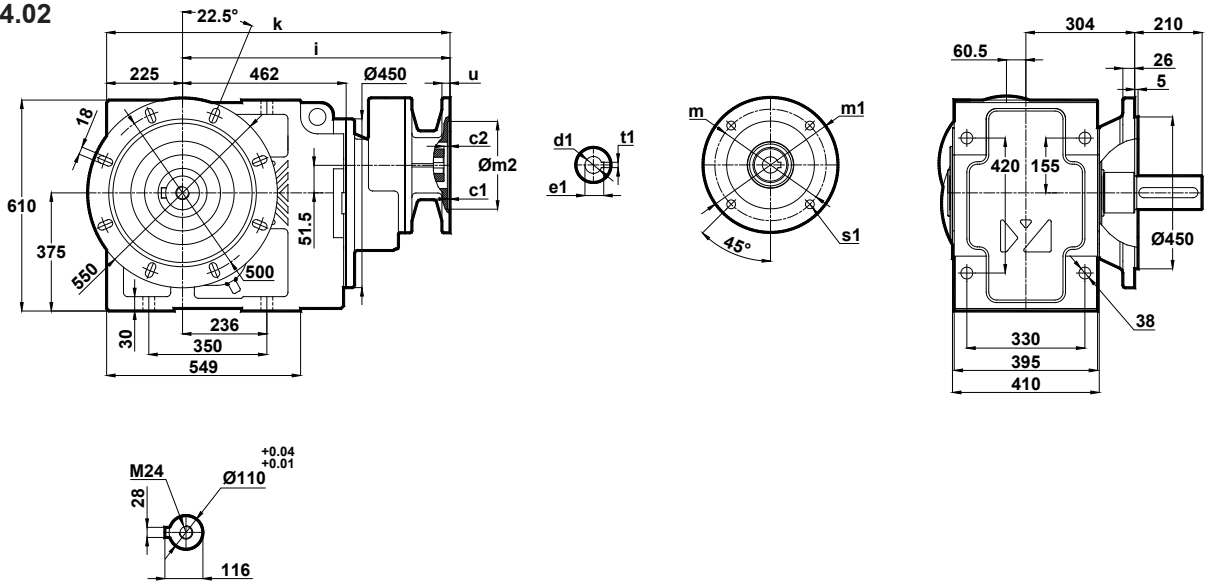
KN874.01



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
112/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
132/B5	4.5	9	15	265	300	230	674	15	899	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

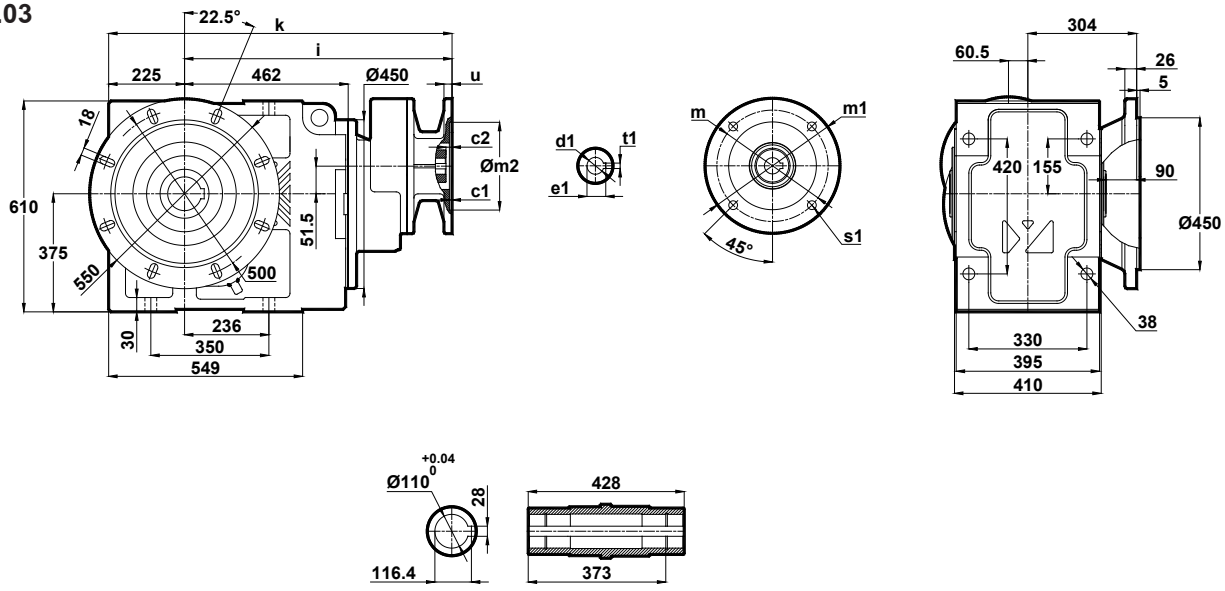
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN874.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
112/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
132/B5	4.5	9	15	265	300	230	674	15	899	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

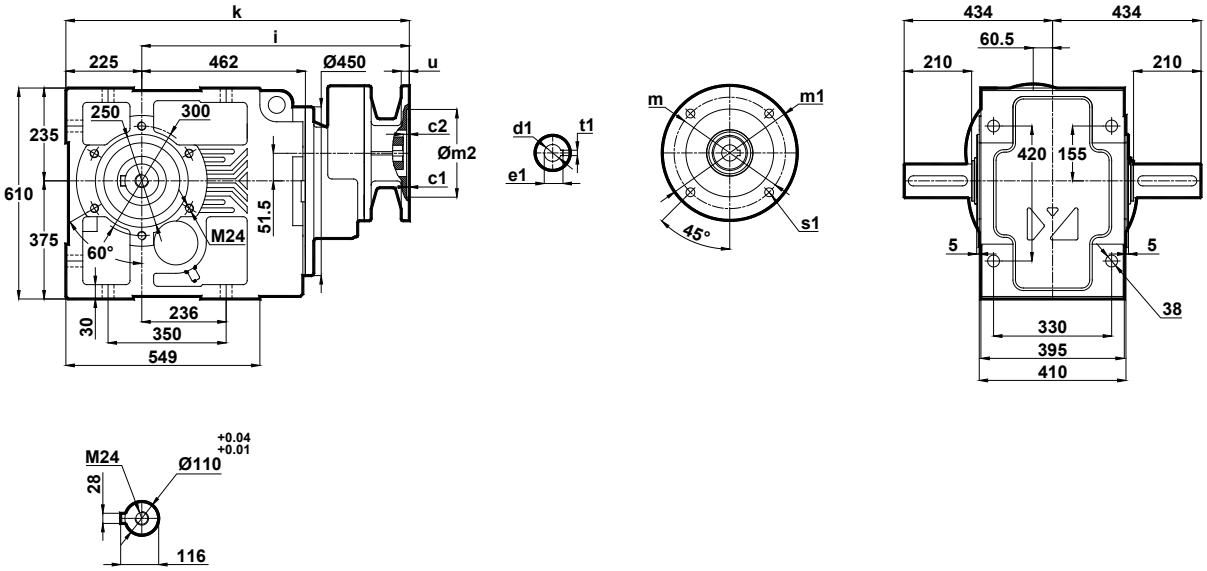
KN874.03



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
112/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
132/B5	4.5	9	15	265	300	230	674	15	899	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

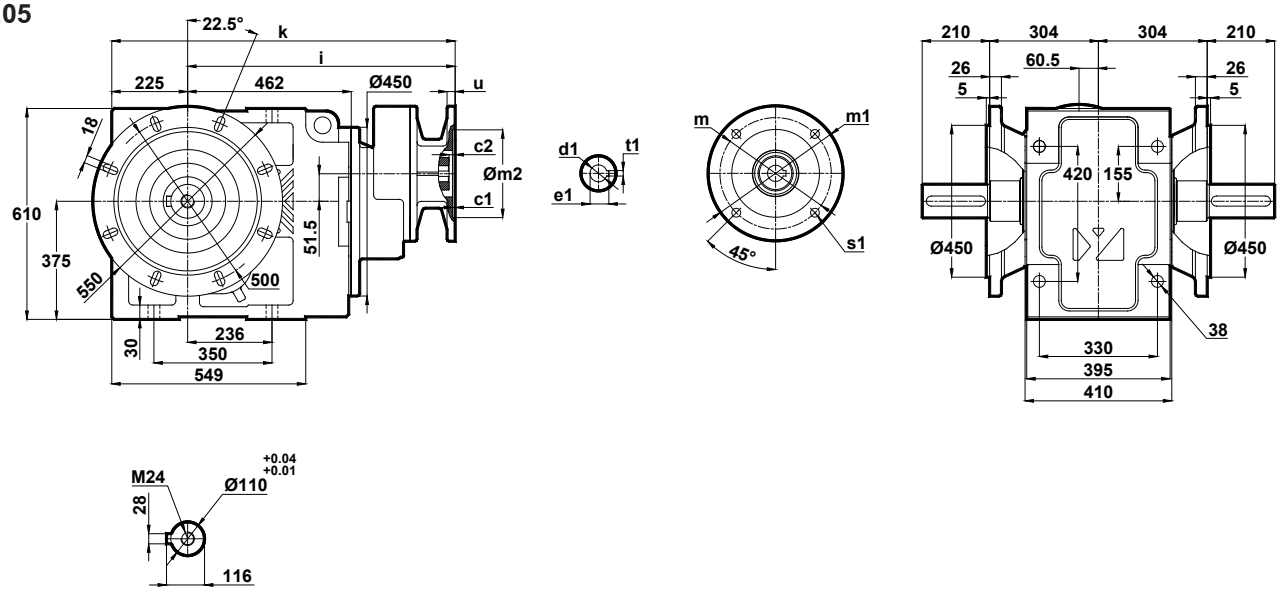
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN874.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
112/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
132/B5	4.5	9	15	265	300	230	674	15	899	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

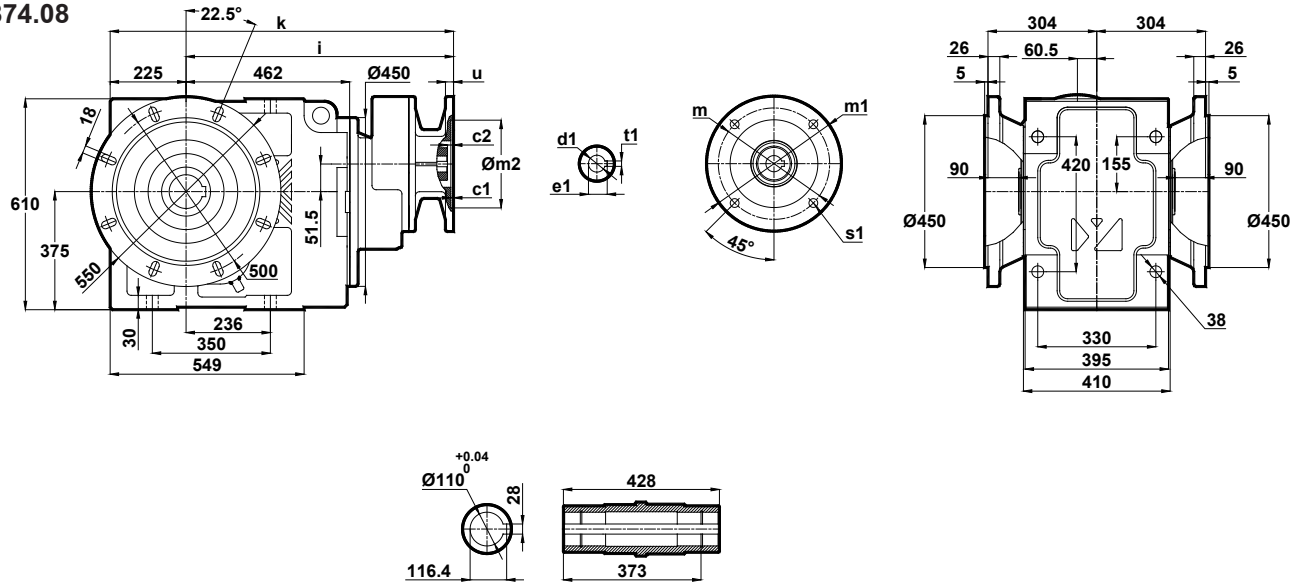
KN874.05



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
112/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
132/B5	4.5	9	15	265	300	230	674	15	899	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

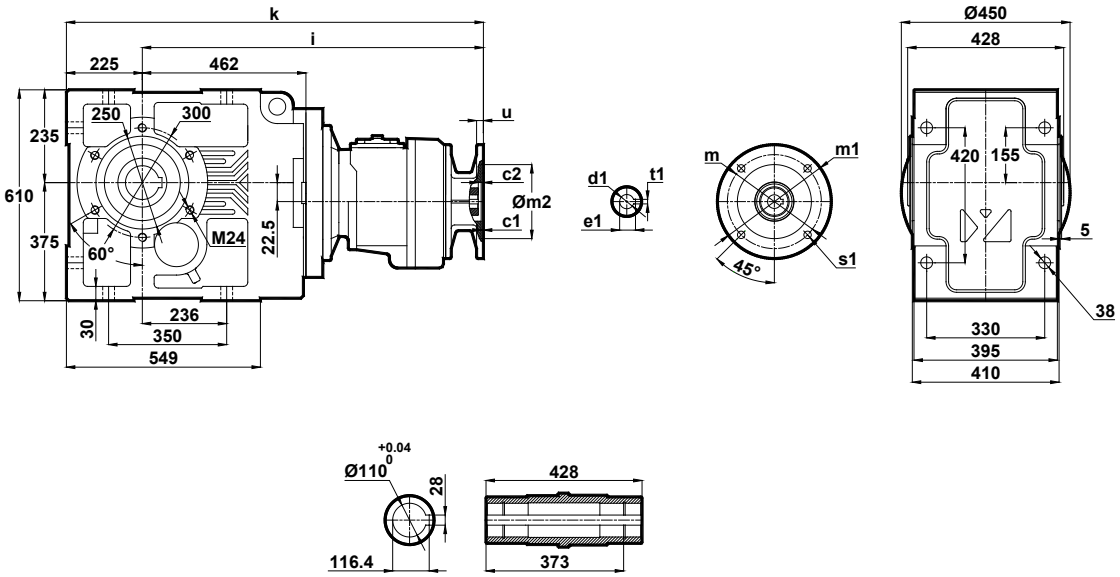
KN874.08



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
100/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
112/B5	4.5	20	15	215	250	180	653	15	878	28	8	31.3
132/B5	4.5	9	15	265	300	230	674	15	899	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

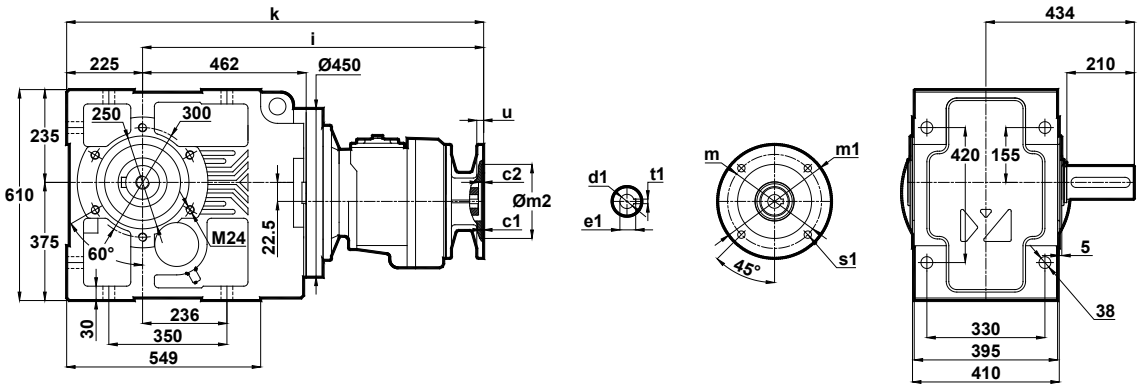
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

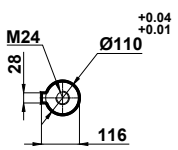
KN875.00
KN876.00



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	772	12	997	14	5	16.3
80/B5	4	9	13	165	200	130	772	12	997	19	6	21.8
90/B5	4	9	13	165	200	130	772	12	997	24	8	27.3
100/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3
112/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3

KN875.01
KN876.01

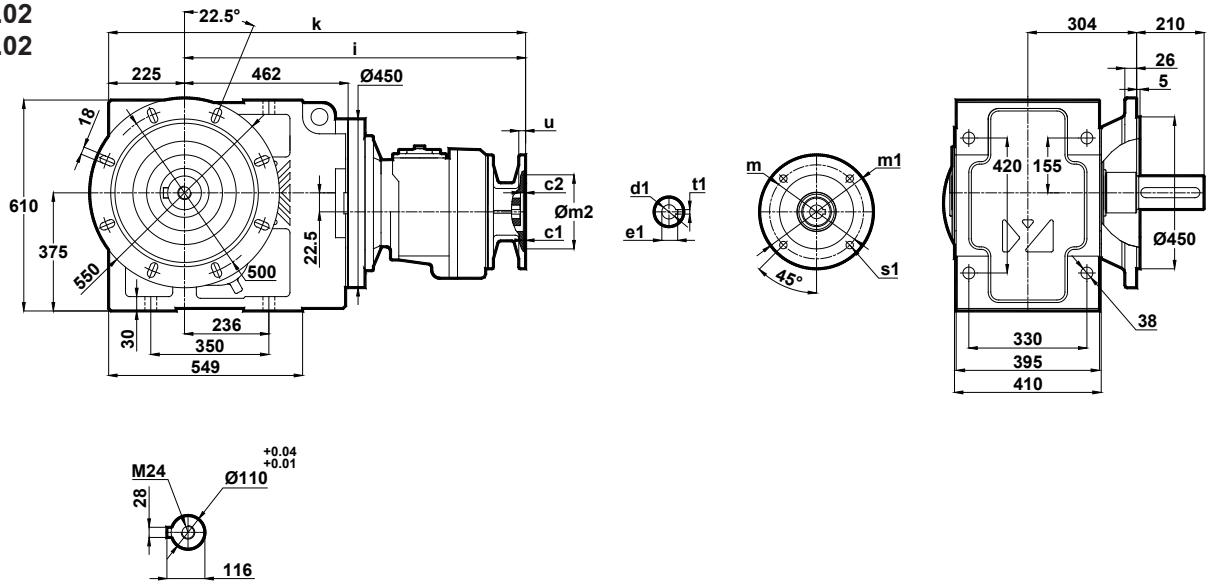




	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	772	12	997	14	5	16.3
80/B5	4	9	13	165	200	130	772	12	997	19	6	21.8
90/B5	4	9	13	165	200	130	772	12	997	24	8	27.3
100/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3
112/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3

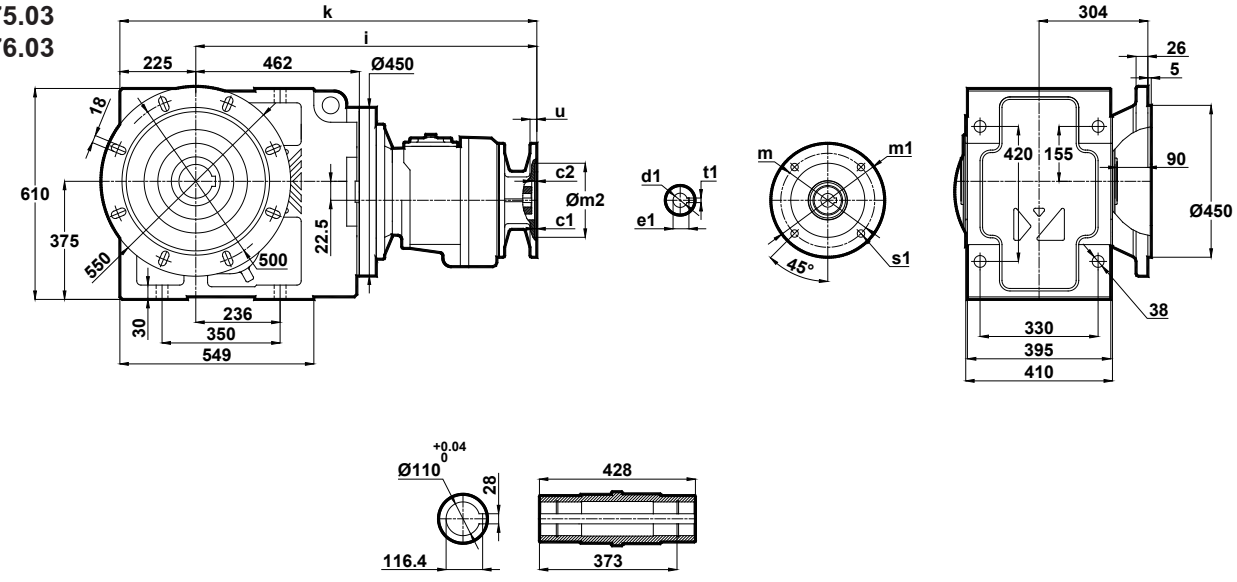
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN875.02
KN876.02



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	772	12	997	14	5	16.3
80/B5	4	9	13	165	200	130	772	12	997	19	6	21.8
90/B5	4	9	13	165	200	130	772	12	997	24	8	27.3
100/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3
112/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3

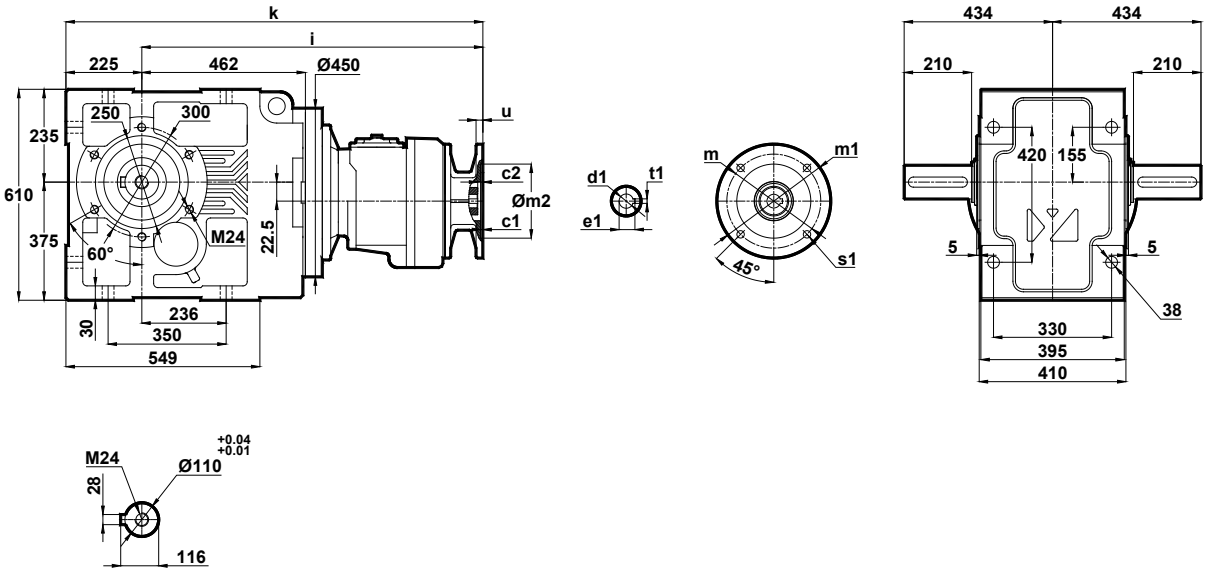
KN875.03
KN876.03



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	772	12	997	14	5	16.3
80/B5	4	9	13	165	200	130	772	12	997	19	6	21.8
90/B5	4	9	13	165	200	130	772	12	997	24	8	27.3
100/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3
112/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3

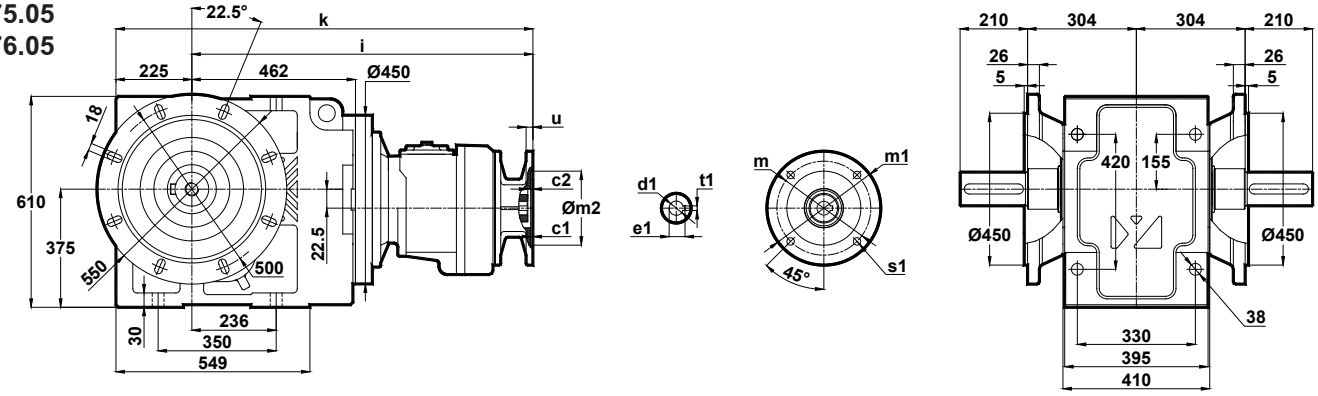
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

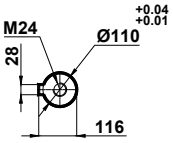
KN875.04
KN876.04



	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	772	12	997	14	5	16.3
80/B5	4	9	13	165	200	130	772	12	997	19	6	21.8
90/B5	4	9	13	165	200	130	772	12	997	24	8	27.3
100/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3
112/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3

KN875.05
KN876.05

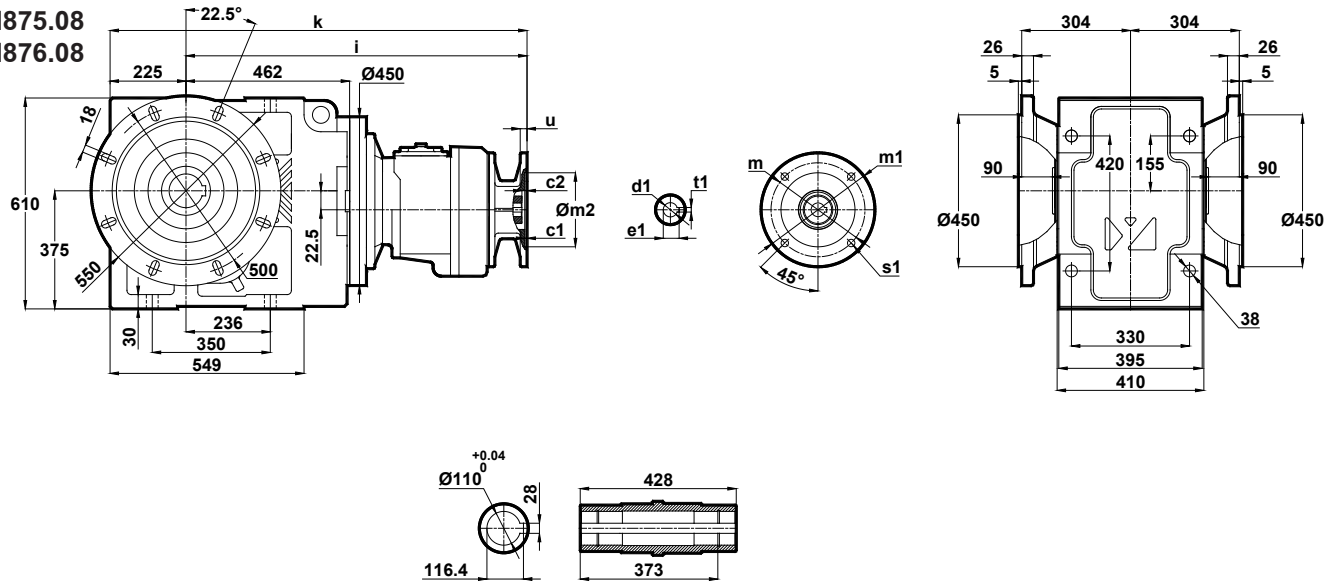




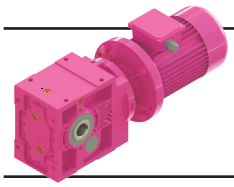
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	772	12	997	14	5	16.3
80/B5	4	9	13	165	200	130	772	12	997	19	6	21.8
90/B5	4	9	13	165	200	130	772	12	997	24	8	27.3
100/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3
112/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3

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

KN875.08
KN876.08

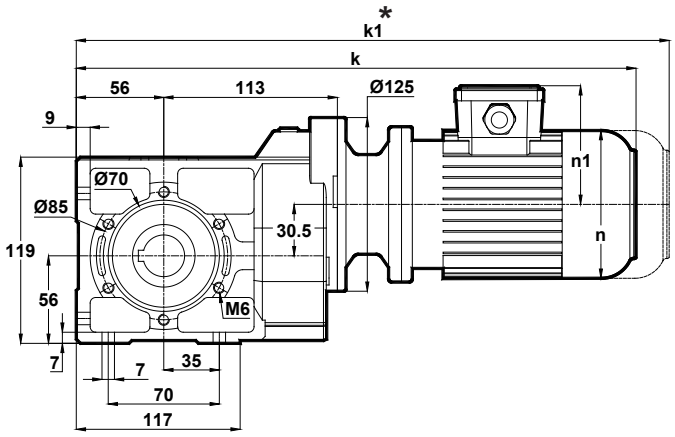


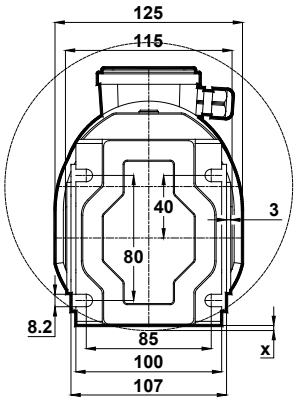
	c1	c2	s1	m	m1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	772	12	997	14	5	16.3
80/B5	4	9	13	165	200	130	772	12	997	19	6	21.8
90/B5	4	9	13	165	200	130	772	12	997	24	8	27.3
100/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3
112/B5	4.5	9	15	215	250	180	789	15	1014	28	8	31.3

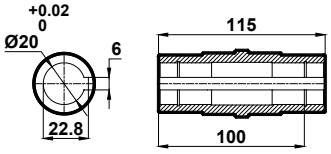


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV002.00
KV003.00



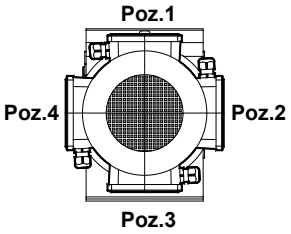




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

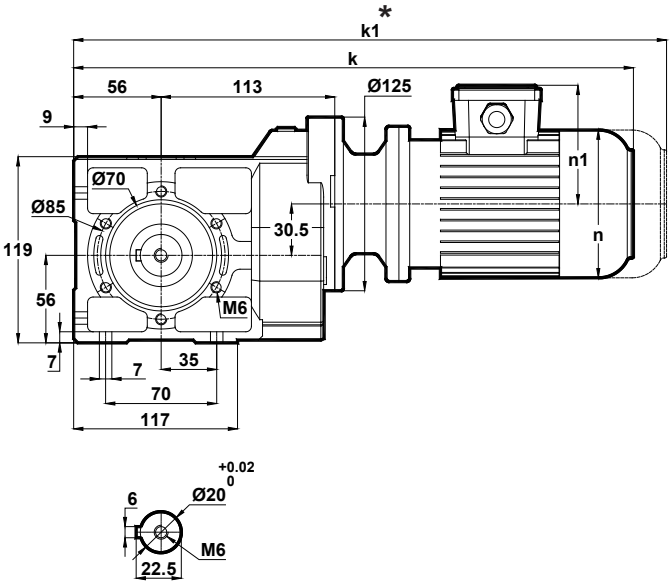
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	375	432.5	467.5	487.5	512.5
k1	428	552.5	587.5	612.5	637.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	1.5	1.5

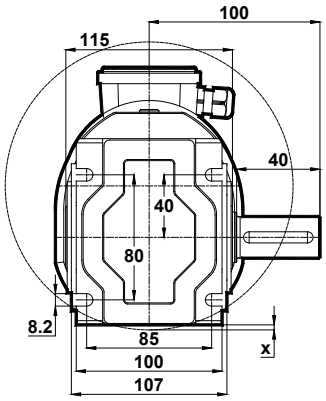
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



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

KV002.01
KV003.01

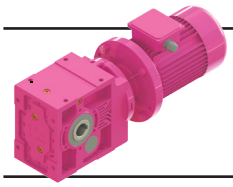




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	375	432.5	467.5	487.5	512.5
k1	428	552.5	587.5	612.5	637.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	1.5	1.5

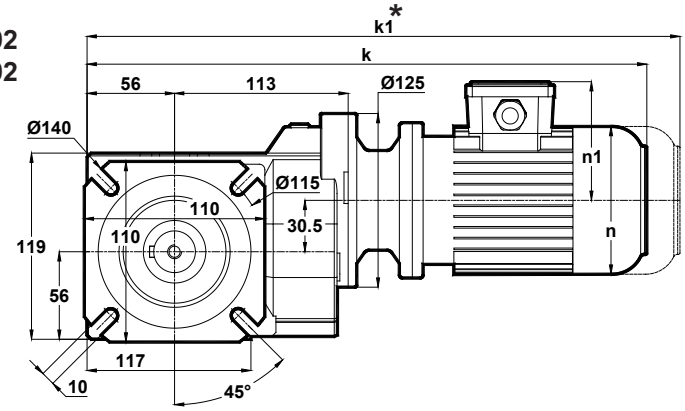
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

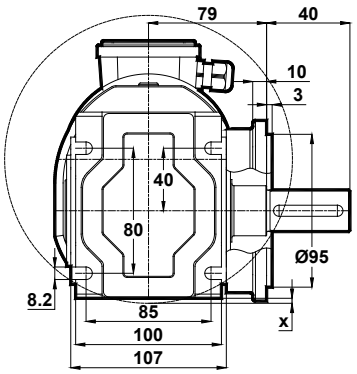


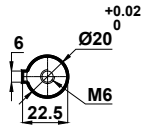
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-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



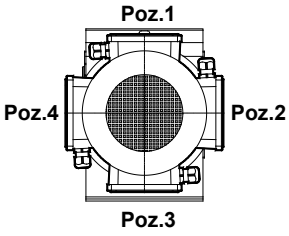




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

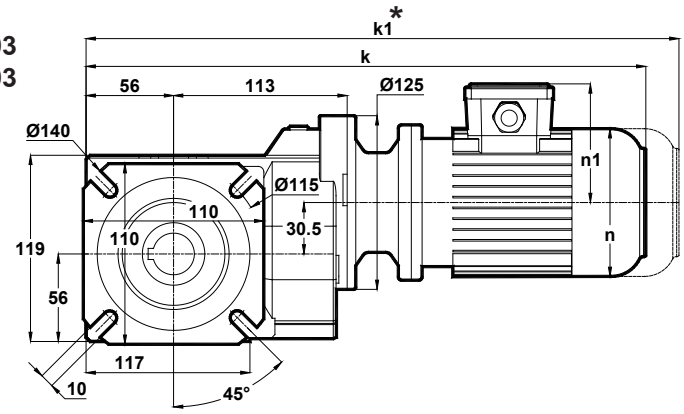
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	375	432.5	467.5	487.5	512.5
k1	428	552.5	587.5	612.5	637.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	1.5	1.5

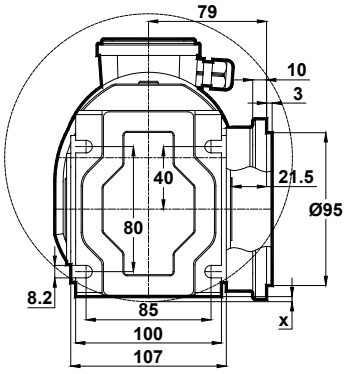
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

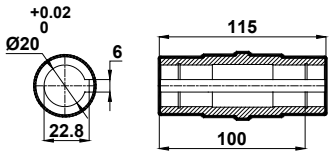


63-71-80-90
Tip / *Type* / Typ

KV002.03
KV003.03



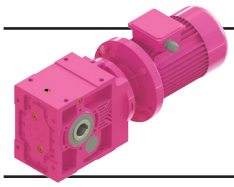




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

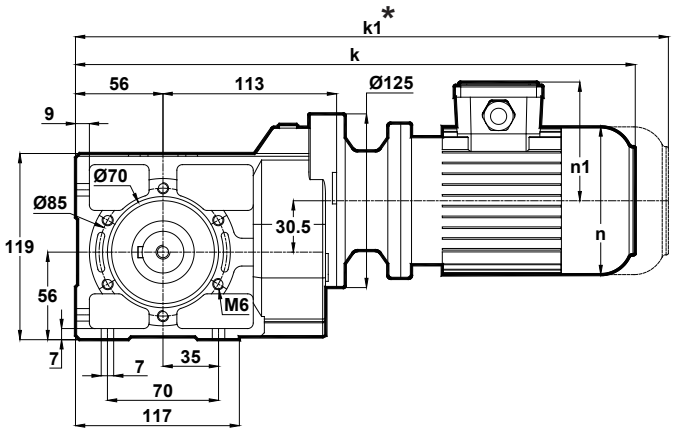
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	375	432.5	467.5	487.5	512.5
k1	428	552.5	587.5	612.5	637.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	1.5	1.5

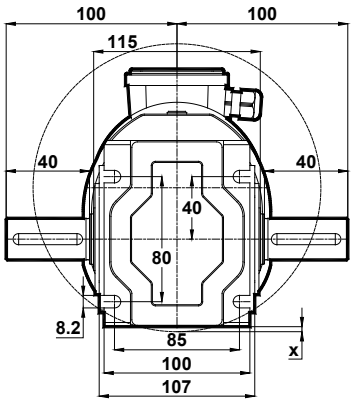
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

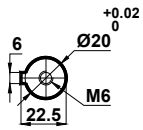


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV002.04
KV003.04



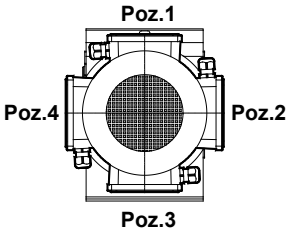




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

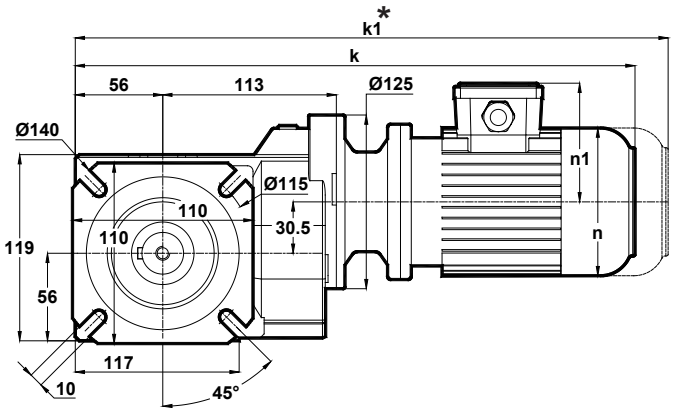
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	375	432.5	467.5	487.5	512.5
k1	428	552.5	587.5	612.5	637.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	1.5	1.5

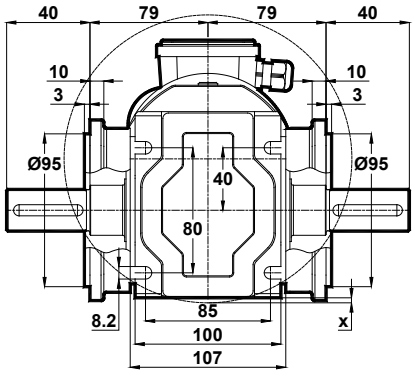
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

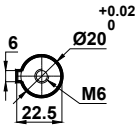


63-71-80-90
Tip / *Type* / Typ

KV002.05
KV003.05



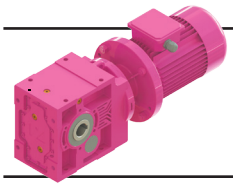




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

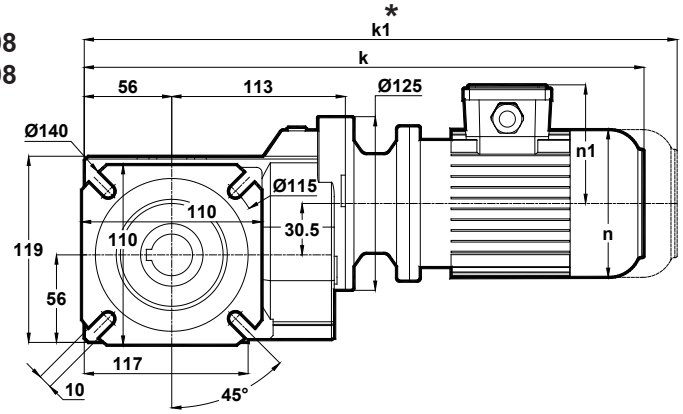
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	375	432.5	467.5	487.5	512.5
k1	428	552.5	587.5	612.5	637.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	1.5	1.5

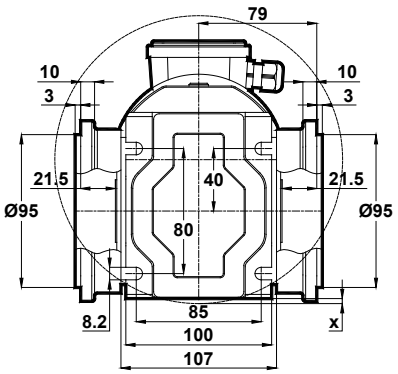
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

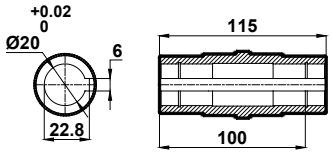


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV002.08
KV003.08



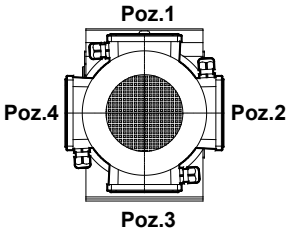




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

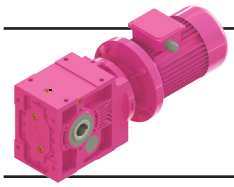
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	375	432.5	467.5	487.5	512.5
k1	428	552.5	587.5	612.5	637.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	1.5	1.5

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



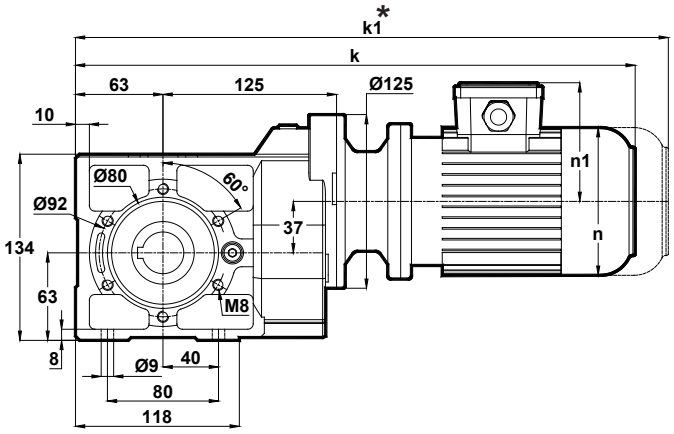
63-71-80-90
Tip / *Type* / Typ

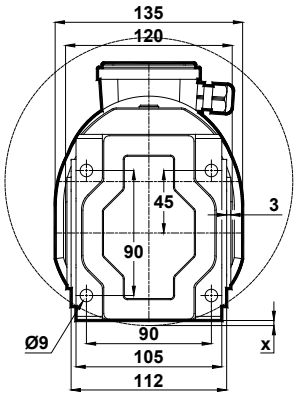
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

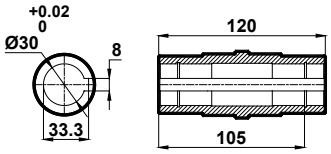


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV102.00
KV103.00



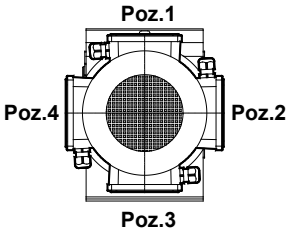




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

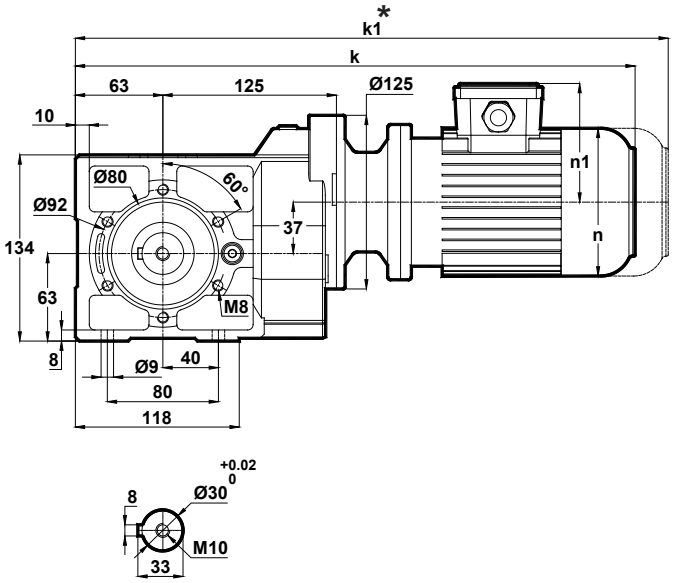
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	394	451.5	486.5	506.5	531.5
k1	447	571.5	606.5	631.5	656.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	-	-

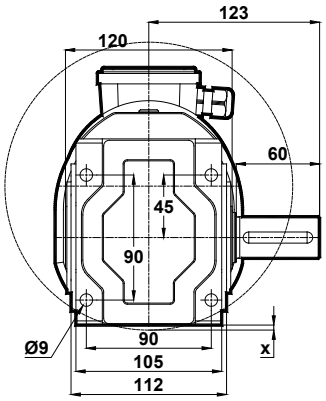
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



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

KV102.01
KV103.01

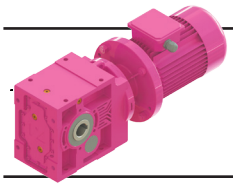




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

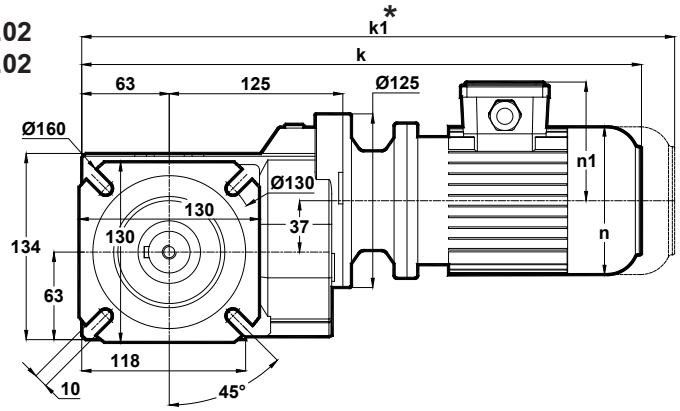
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	394	451.5	486.5	506.5	531.5
k1	447	571.5	606.5	631.5	656.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	-	-

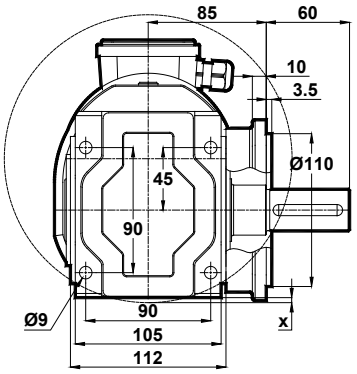
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

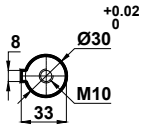


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV102.02
KV103.02



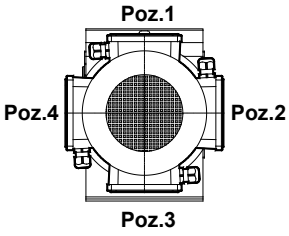




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

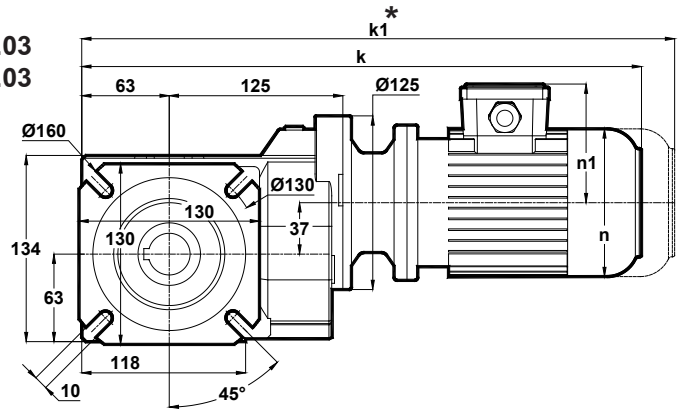
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	394	451.5	486.5	506.5	531.5
k1	447	571.5	606.5	631.5	656.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	-	-

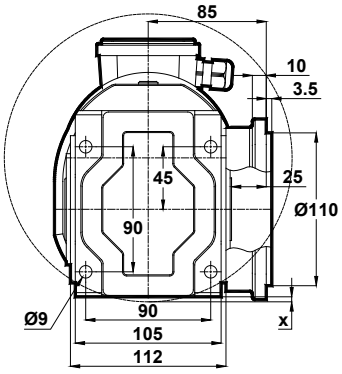
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

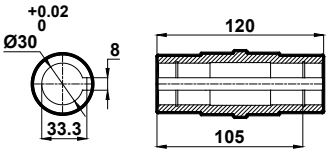


63-71-80-90
Tip / *Type* / Typ

KV102.03
KV103.03



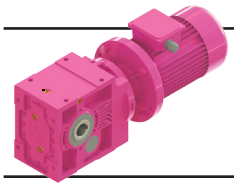




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

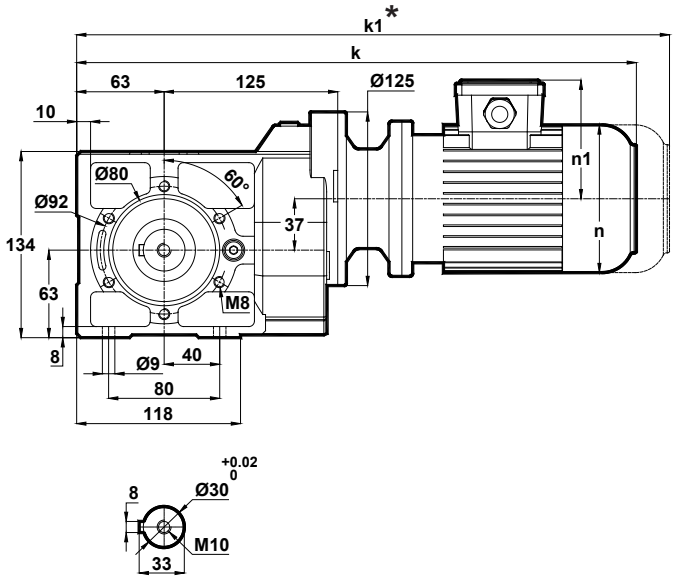
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	394	451.5	486.5	506.5	531.5
k1	447	571.5	606.5	631.5	656.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	-	-

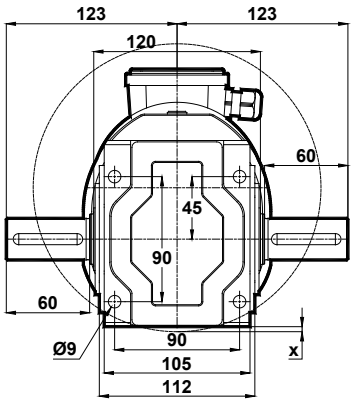
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



-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

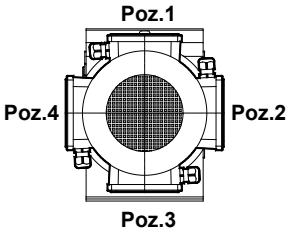




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

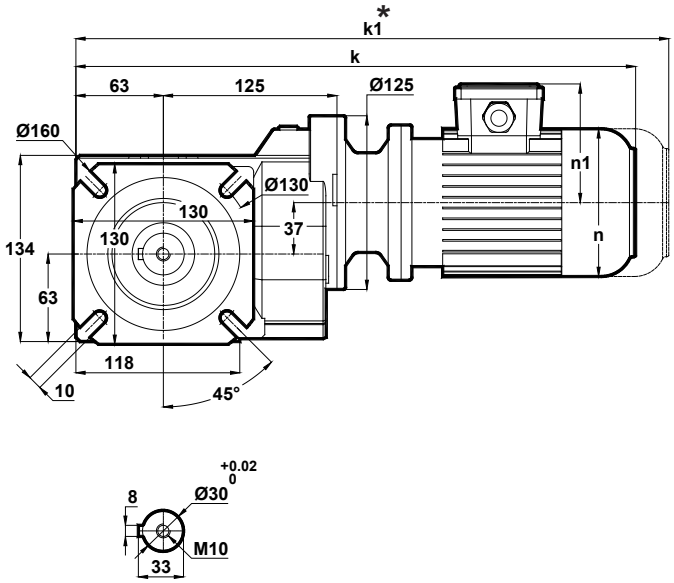
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	394	451.5	486.5	506.5	531.5
k1	447	571.5	606.5	631.5	656.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	-	-

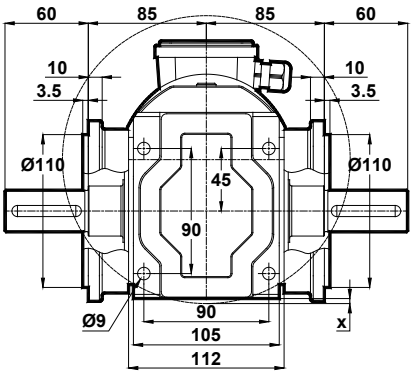
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



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

KV102.05
KV103.05

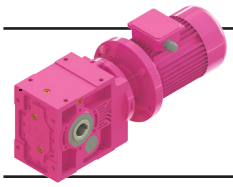




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	394	451.5	486.5	506.5	531.5
k1	447	571.5	606.5	631.5	656.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	-	-

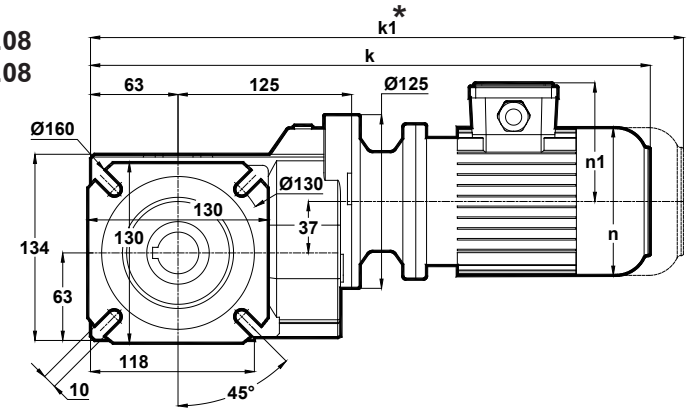
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

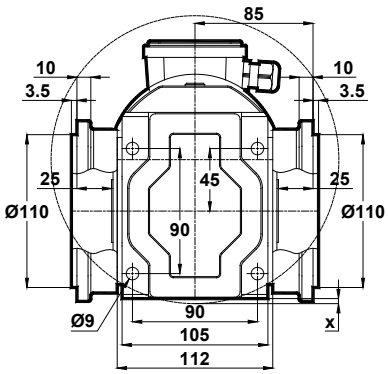


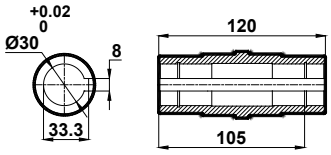
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

KV102.08
KV103.08



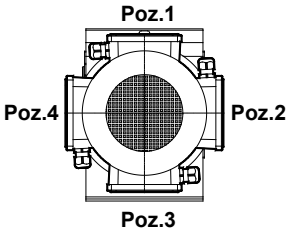




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

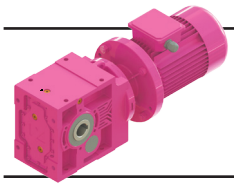
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	394	451.5	486.5	506.5	531.5
k1	447	571.5	606.5	631.5	656.5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	-	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



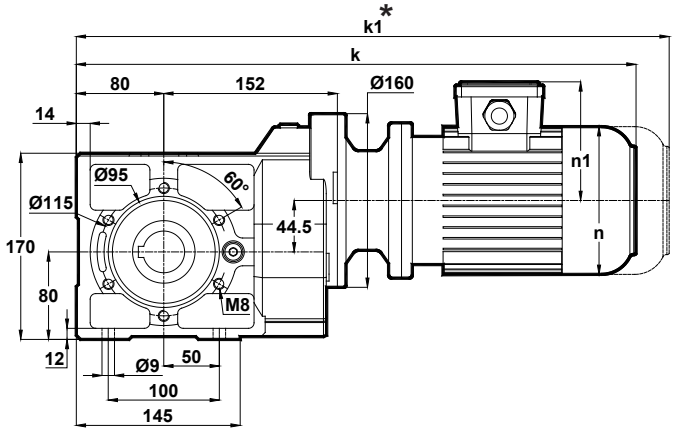
63-71-80-90
Tip / *Type* / Typ

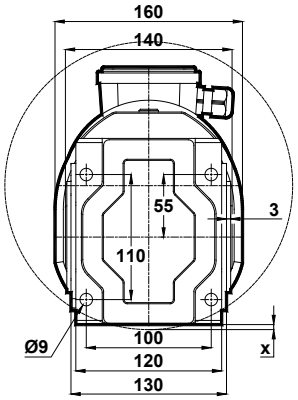
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

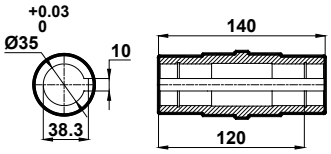


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV202.00
KV203.00



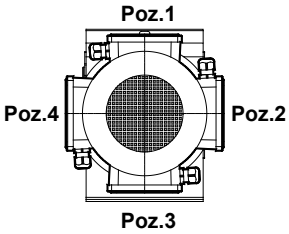




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

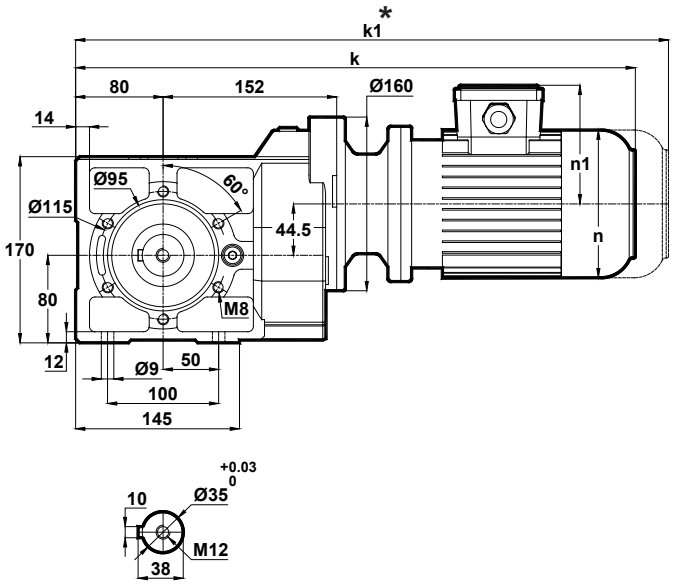
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	468.5	495.5	544.5	564.5	589.5	614.5	634.5
k1	521.5	615.5	664.5	689.5	714.5	749.5	769.5
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	-

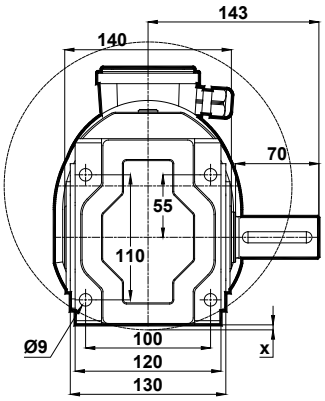
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



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

KV202.01
KV203.01

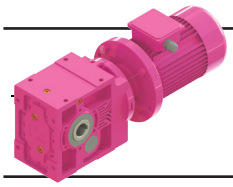




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	468.5	495.5	544.5	564.5	589.5	614.5	634.5
k1	521.5	615.5	664.5	689.5	714.5	749.5	769.5
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	-

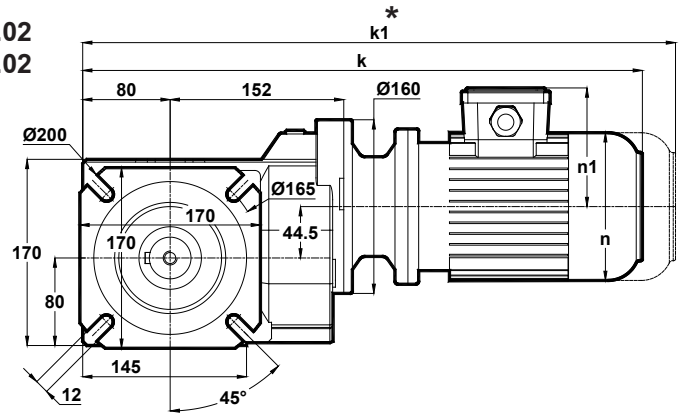
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

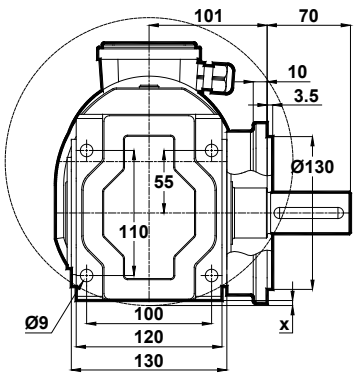


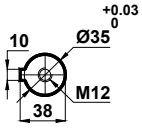
Ölçü Sayfaları
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV202.02
KV203.02



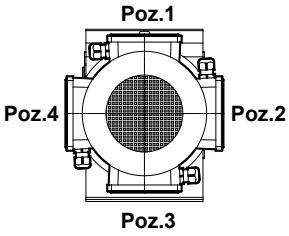




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

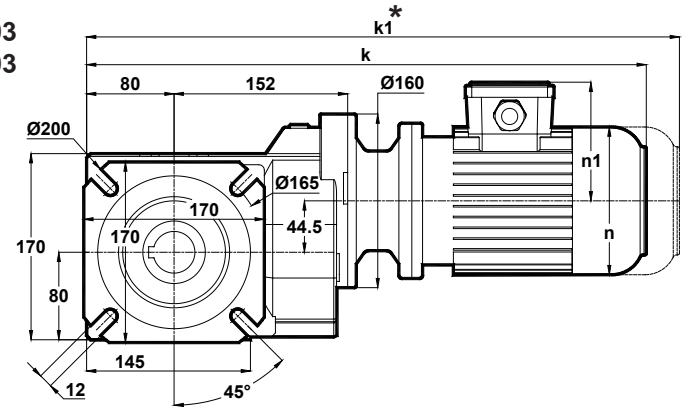
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	468.5	495.5	544.5	564.5	589.5	614.5	634.5
k1	521.5	615.5	664.5	689.5	714.5	749.5	769.5
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	-

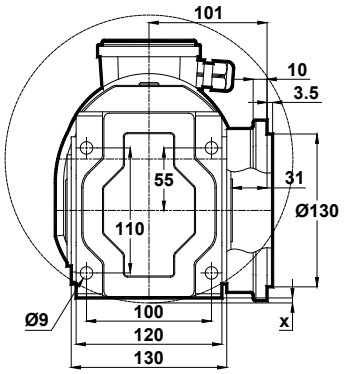
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

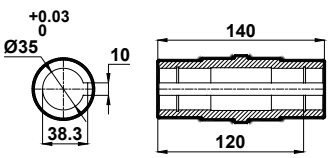


63-71-80-90-100-112
Tip / *Type* / Typ

KV202.03
KV203.03



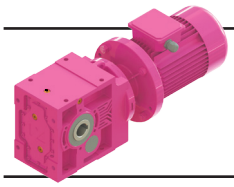




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

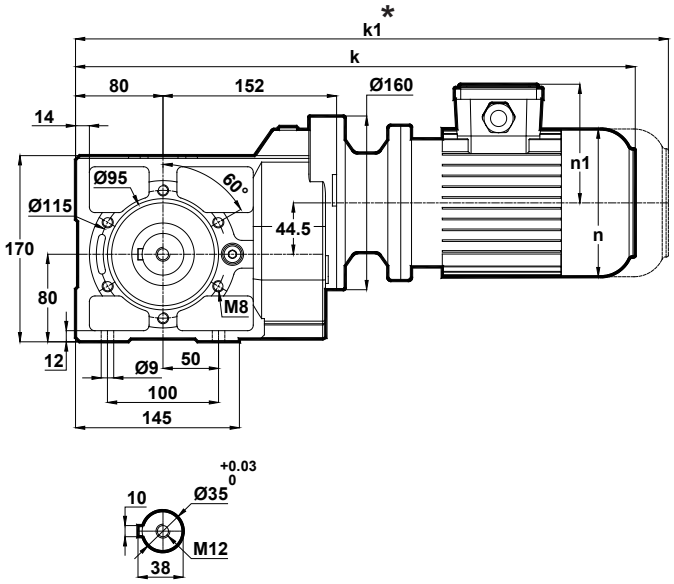
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	468.5	495.5	544.5	564.5	589.5	614.5	634.5
k1	521.5	615.5	664.5	689.5	714.5	749.5	769.5
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	-

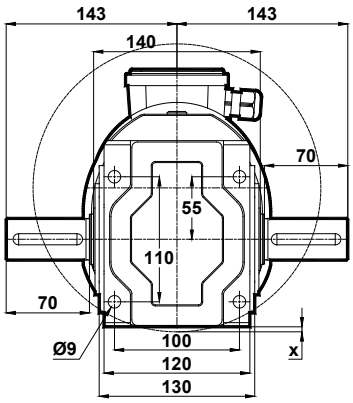
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



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

KV202.04
KV203.04

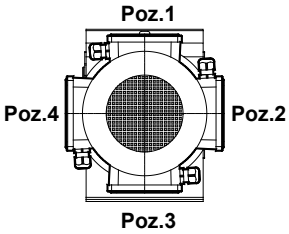




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

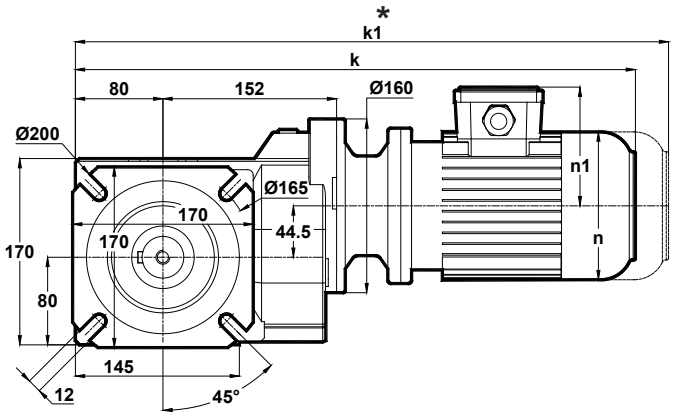
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	468.5	495.5	544.5	564.5	589.5	614.5	634.5
k1	521.5	615.5	664.5	689.5	714.5	749.5	769.5
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	-

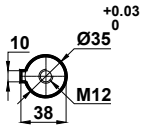
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

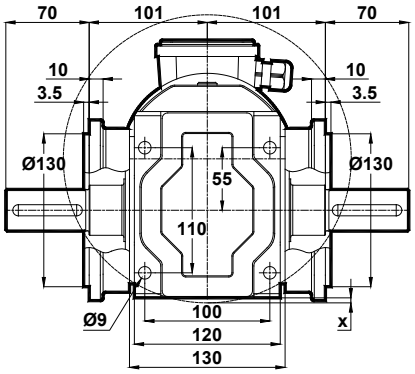


63-71-80-90-100-112
Tip / *Type* / Typ

KV202.05
KV203.05



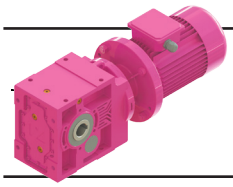




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	468.5	495.5	544.5	564.5	589.5	614.5	634.5
k1	521.5	615.5	664.5	689.5	714.5	749.5	769.5
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	-

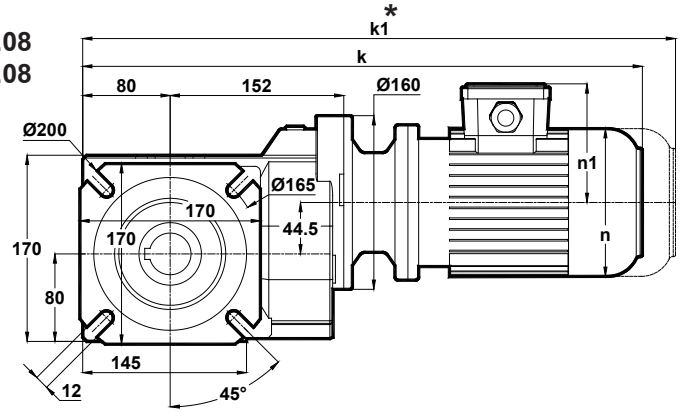
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

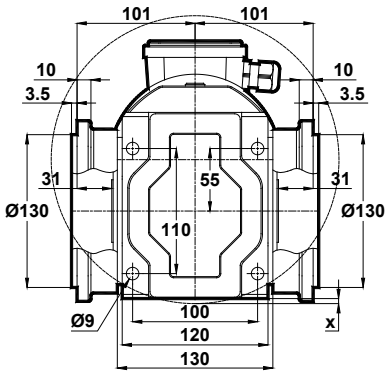


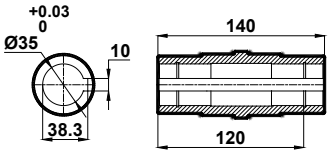
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV202.08
KV203.08



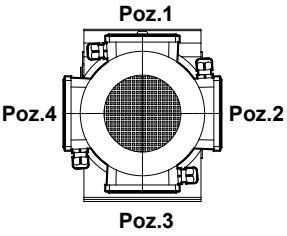




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

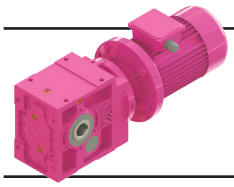
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	468.5	495.5	544.5	564.5	589.5	614.5	634.5
k1	521.5	615.5	664.5	689.5	714.5	749.5	769.5
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



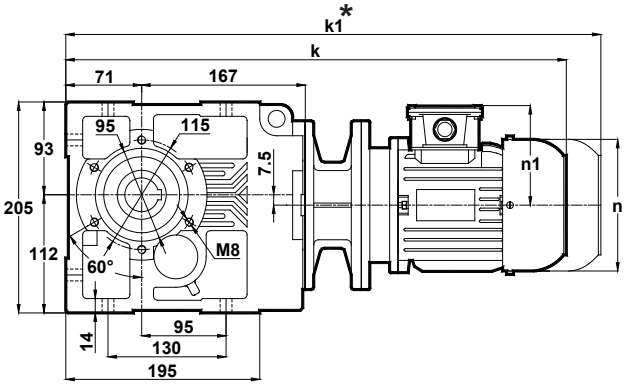
63-71-80-90-100-112
Tip / *Type* / Typ

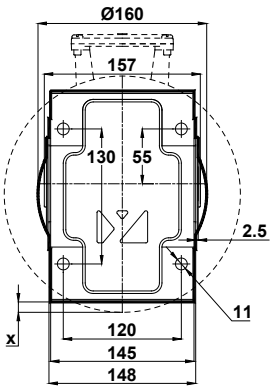
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



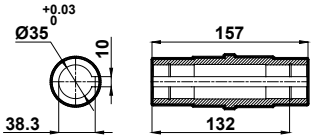
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV273.00

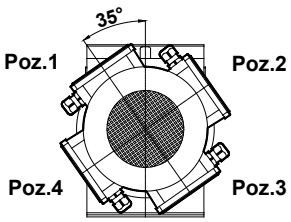




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte



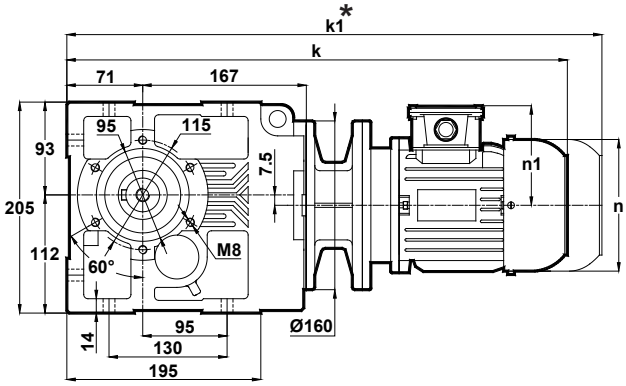
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

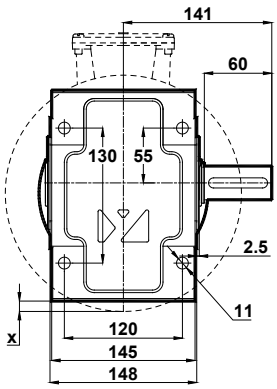


63-71-80-90-100-112
Tip / *Type* / Typ

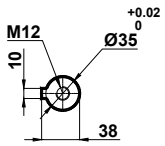
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	505	502	551	571	596	621	641
k1	-	622	671	696	721	756	776
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4.5

KV273.01



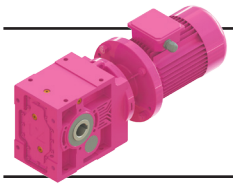


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte



	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	505	502	551	571	596	621	641
k1	-	622	671	696	721	756	776
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4.5

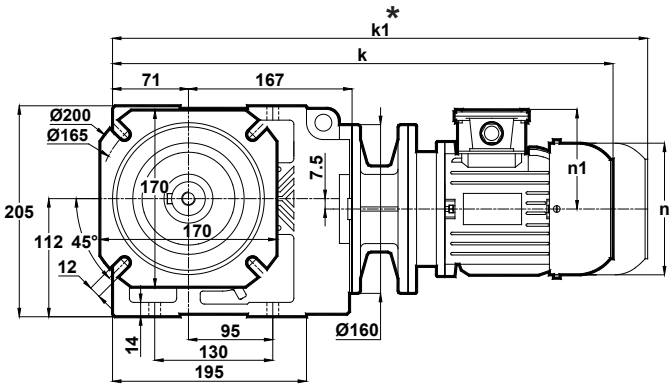
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

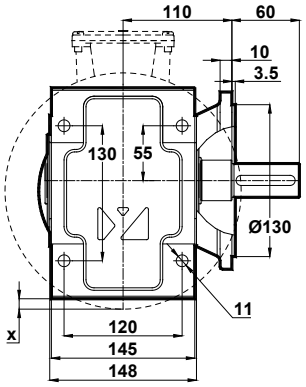


Ölçü Sayfaları
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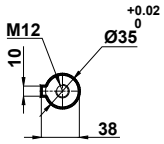
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV273.02

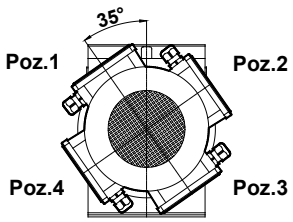




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte



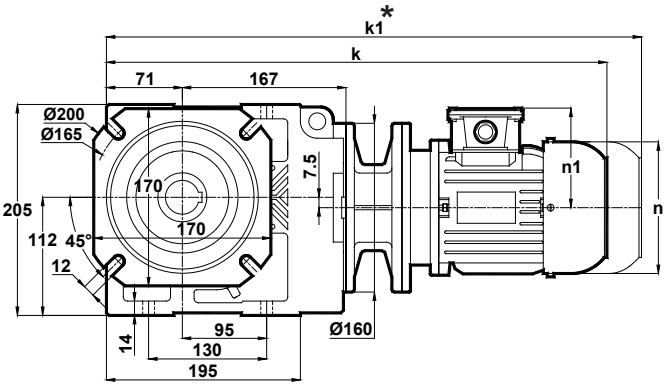
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

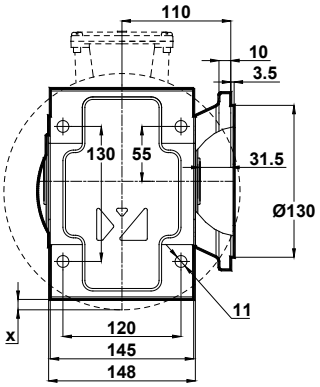


63-71-80-90-100-112
Tip / *Type* / Typ

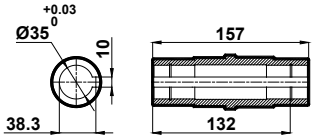
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	505	502	551	571	596	621	641
k1	-	622	671	696	721	756	776
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4.5

KV273.03



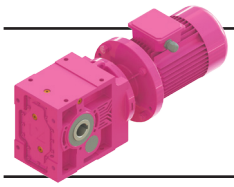


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte



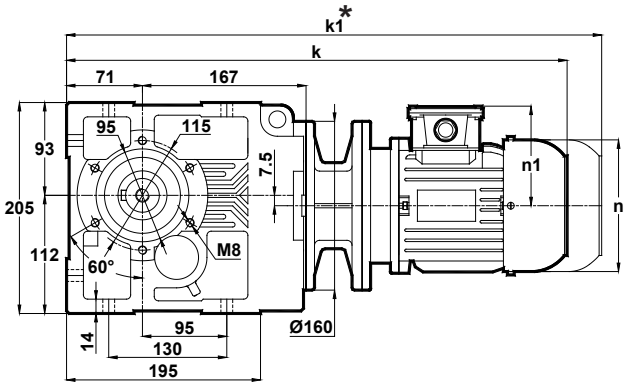
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	505	502	551	571	596	621	641
k1	-	622	671	696	721	756	776
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4.5

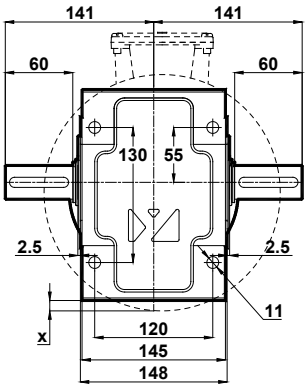
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

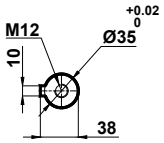


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV273.04



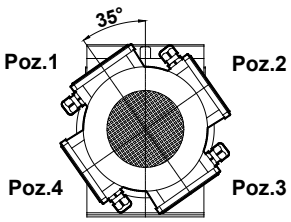




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

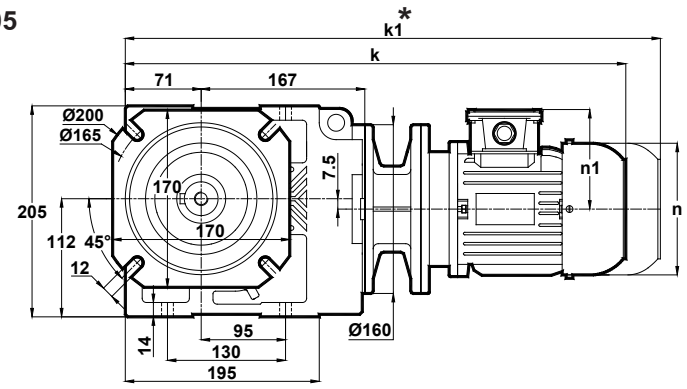
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	505	502	551	571	596	621	641
k1	-	622	671	696	721	756	776
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4.5

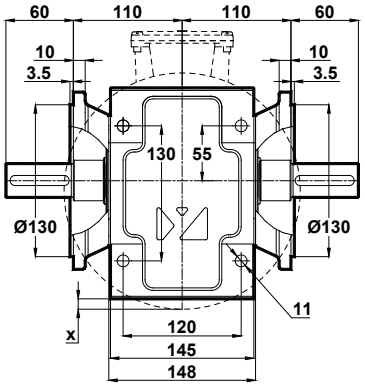
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

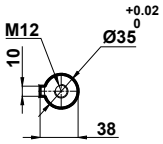


63-71-80-90-100-112
Tip / *Type* / Typ

KV273.05



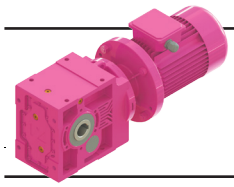




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	505	502	551	571	596	621	641
k1	-	622	671	696	721	756	776
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4.5

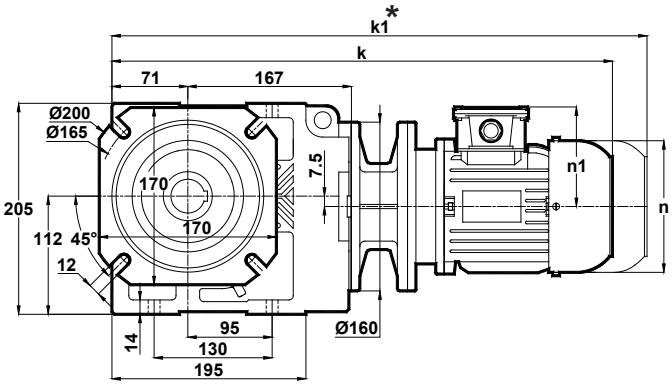
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

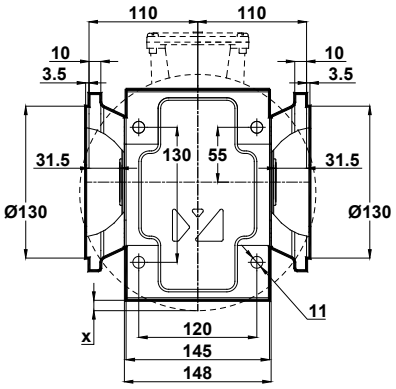


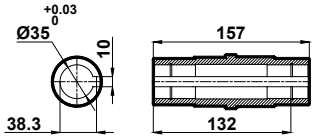
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

KV273.08



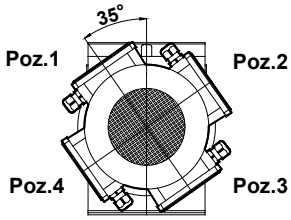




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

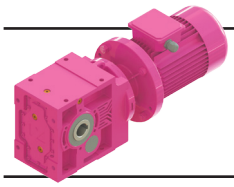
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	505	502	551	571	596	621	641
k1	-	622	671	696	721	756	776
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4.5

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



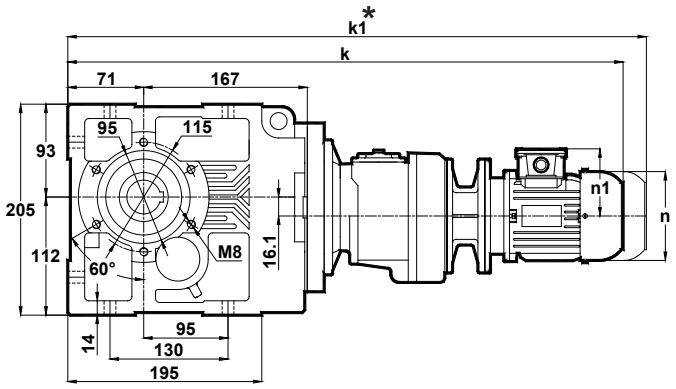
63-71-80-90-100-112
Tip / *Type* / Typ

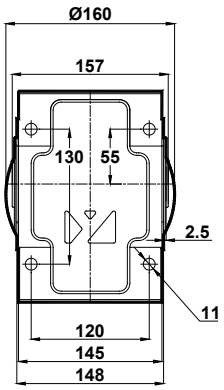
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

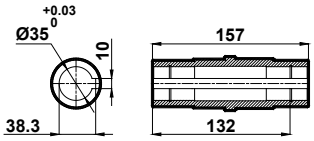


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV275.00
KV276.00

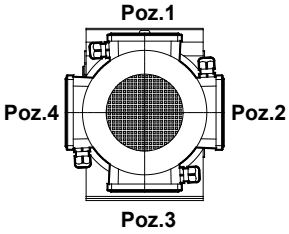






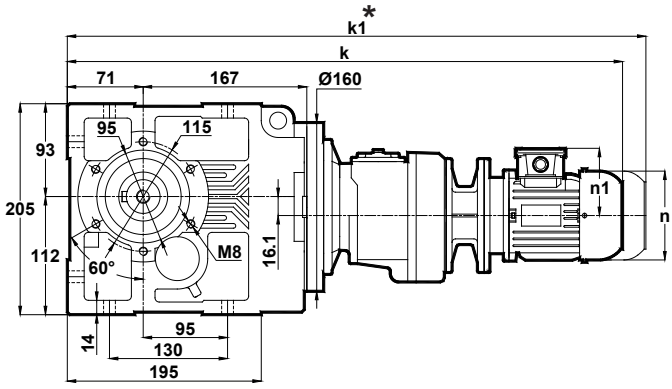
	63/B5	71/B5	80/B5
k	620	648	683
k1	-	768	803
n	116	138	156
n1	97	110	118

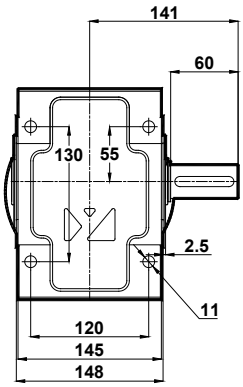
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

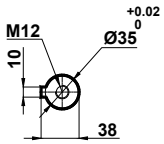


63-71-80
Tip / *Type* / Typ

KV275.01
KV276.01

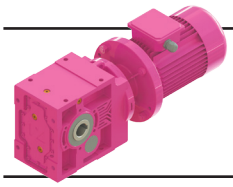






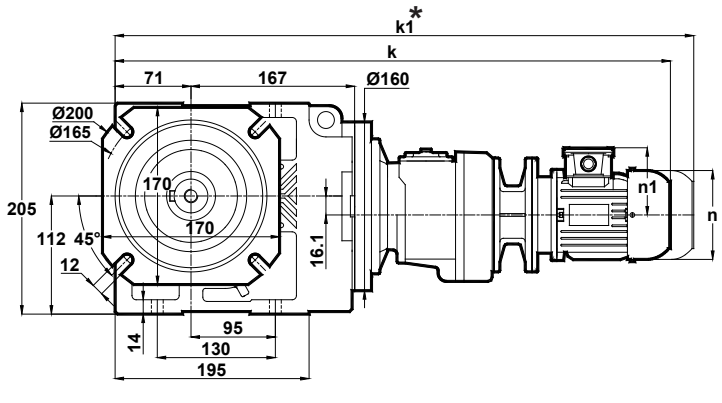
	63/B5	71/B5	80/B5
k	620	648	683
k1	-	768	803
n	116	138	156
n1	97	110	118

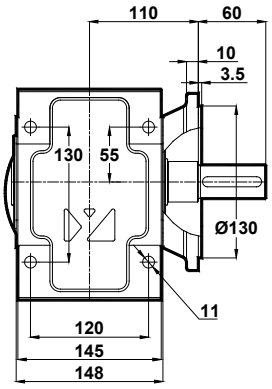
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

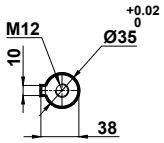


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV275.02
KV276.02

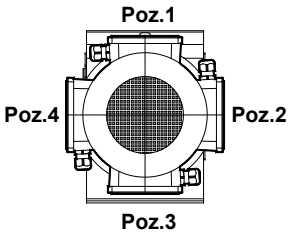






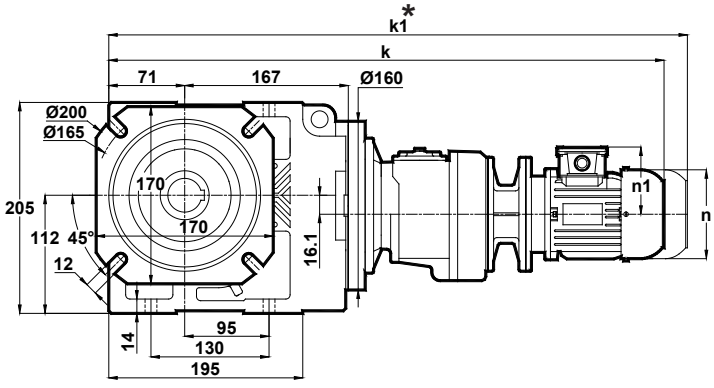
	63/B5	71/B5	80/B5
k	620	648	683
k1	-	768	803
n	116	138	156
n1	97	110	118

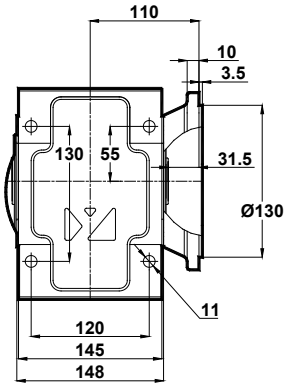
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

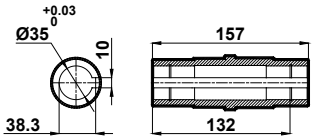


63-71-80
Tip / *Type* / Typ

KV275.03
KV276.03

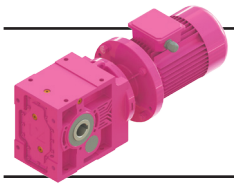






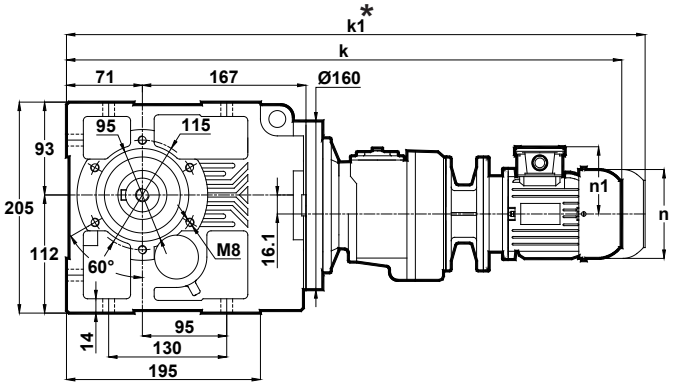
	63/B5	71/B5	80/B5
k	620	648	683
k1	-	768	803
n	116	138	156
n1	97	110	118

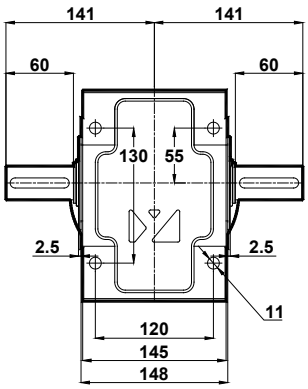
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

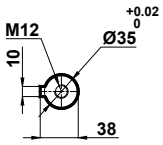


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV275.04
KV276.04

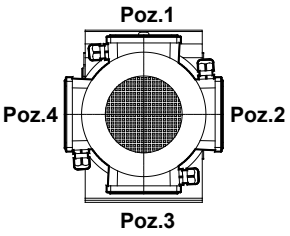






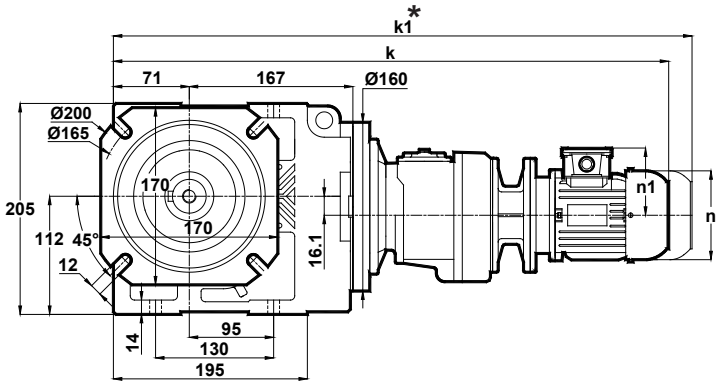
	63/B5	71/B5	80/B5
k	620	648	683
k1	-	768	803
n	116	138	156
n1	97	110	118

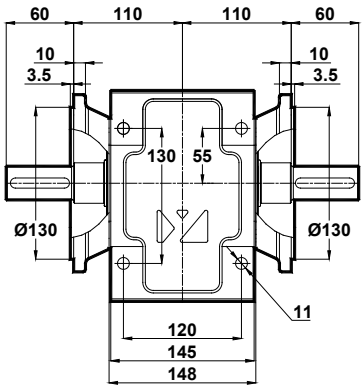
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

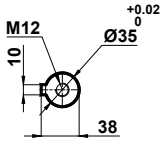


63-71-80
Tip / *Type* / Typ

KV275.05
KV276.05

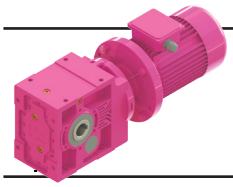






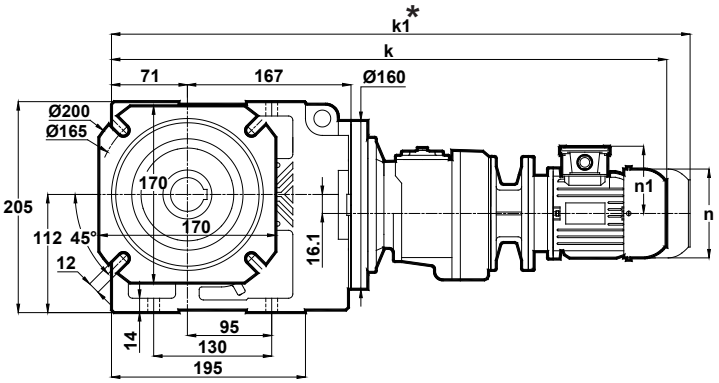
	63/B5	71/B5	80/B5
k	620	648	683
k1	-	768	803
n	116	138	156
n1	97	110	118

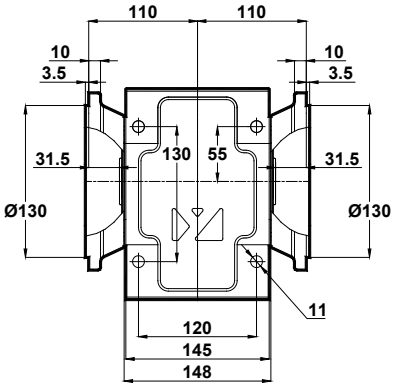
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

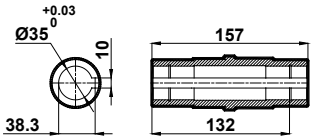


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV275.08
KV276.08

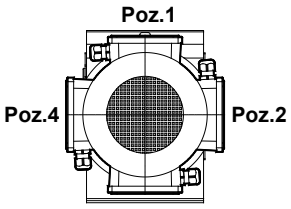






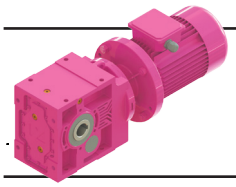
	63/B5	71/B5	80/B5
k	620	648	683
k1	-	768	803
n	116	138	156
n1	97	110	118

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



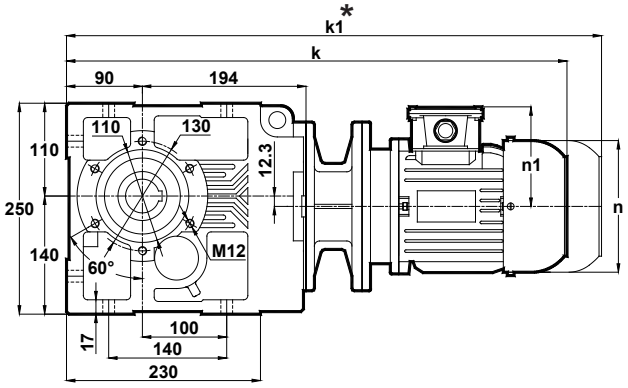
63-71-80
Tip / *Type* / Typ

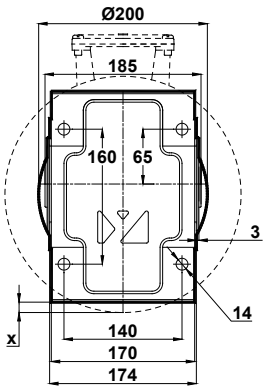
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



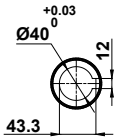
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

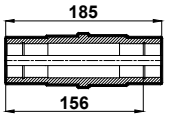
KV373.00



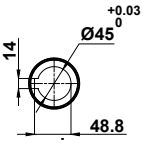


Std.





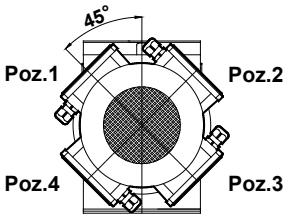
Ops.



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

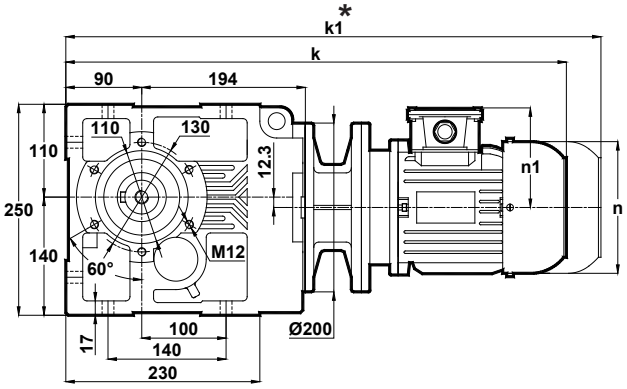
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	570	590	610	635	684	704	768	806
k1	690	710	735	760	819	839	913	951
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1.3	1.3

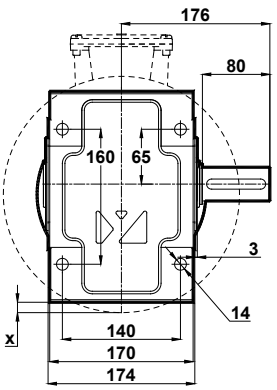
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

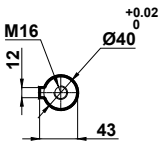


71-80-90-100-112-132
Tip / *Type* / Typ

KV373.01



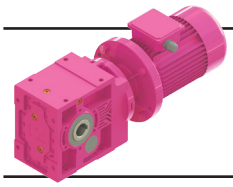




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	570	590	610	635	684	704	768	806
k1	690	710	735	760	819	839	913	951
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1.3	1.3

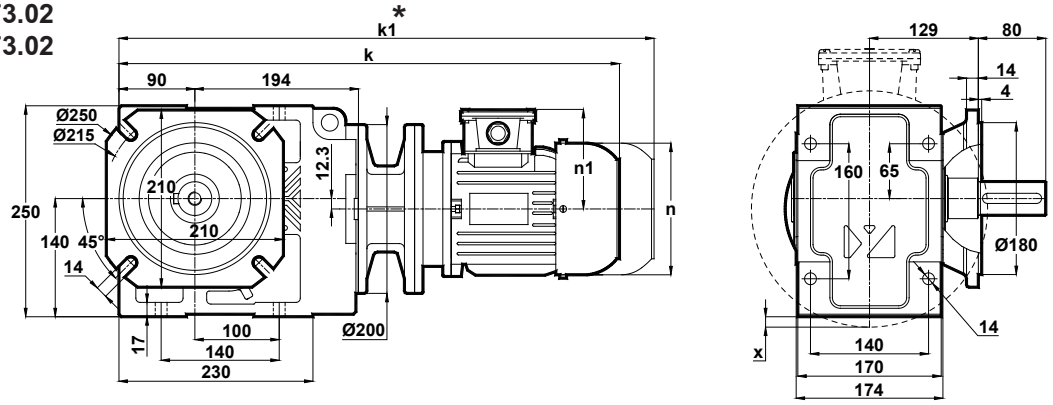
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

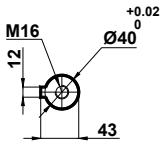


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-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

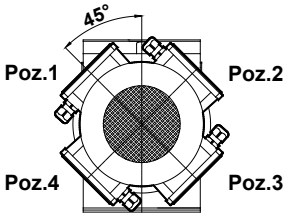




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

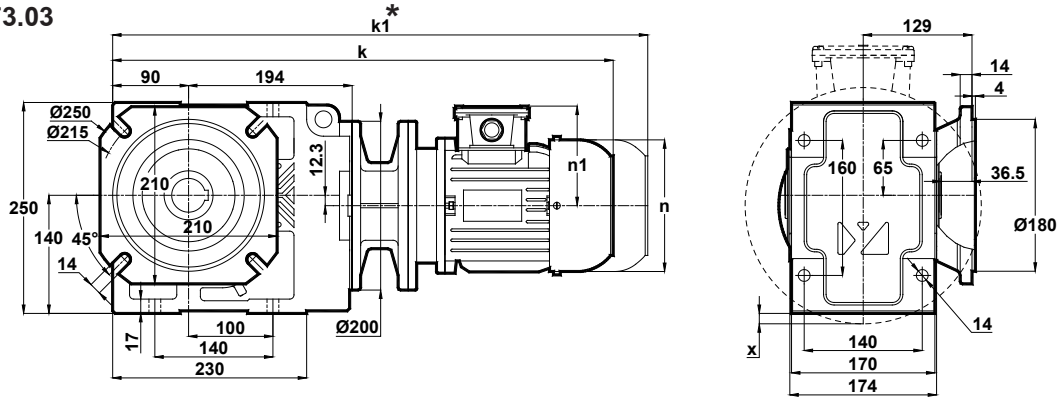
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	570	590	610	635	684	704	768	806
k1	690	710	735	760	819	839	913	951
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1.3	1.3

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

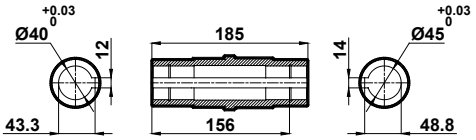


71-80-90-100-112-132
Tip / *Type* / Typ

KV373.03



Std. **Ops.**



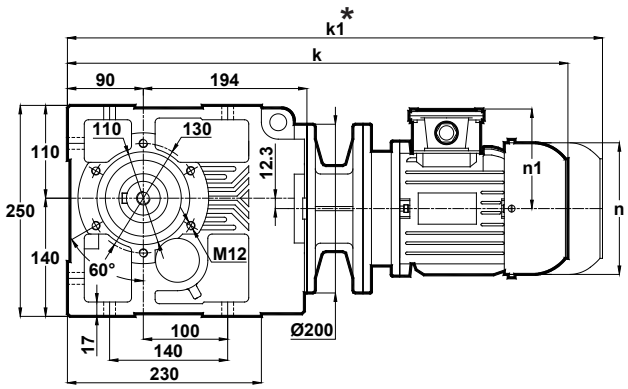
x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

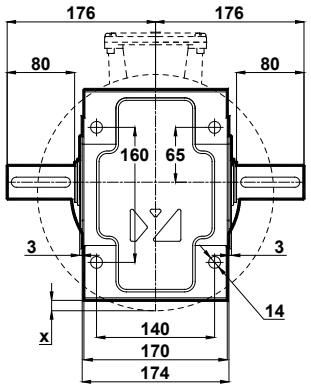
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	570	590	610	635	684	704	768	806
k1	690	710	735	760	819	839	913	951
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1.3	1.3

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

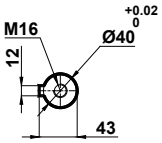
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV373.04
KV373.04

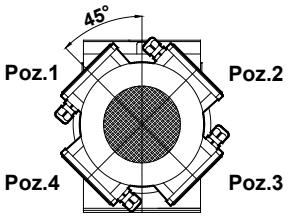




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte



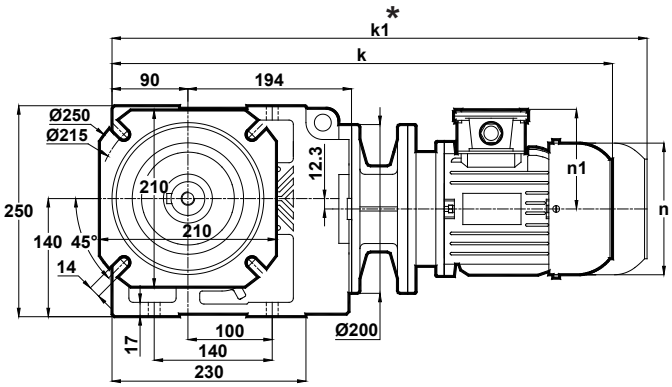
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

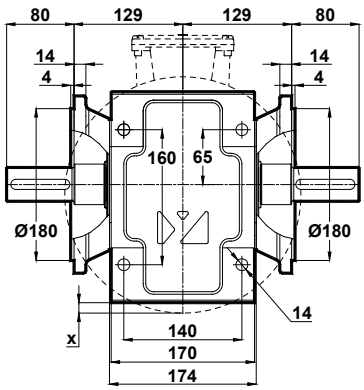


	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	570	590	610	635	684	704	768	806
k1	690	710	735	760	819	839	913	951
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1.3	1.3

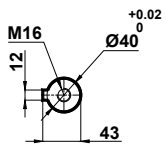
71-80-90-100-112-132
Tip / *Type* / Typ

KV373.05
KV373.05



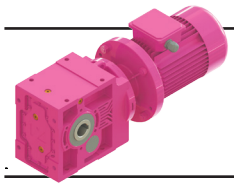


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte



	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	570	590	610	635	684	704	768	806
k1	690	710	735	760	819	839	913	951
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1.3	1.3

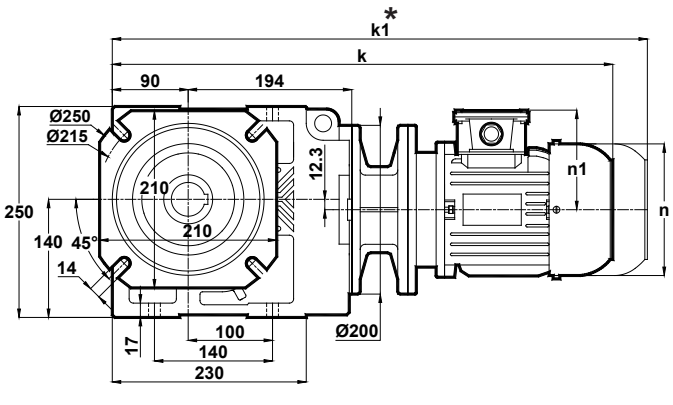
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

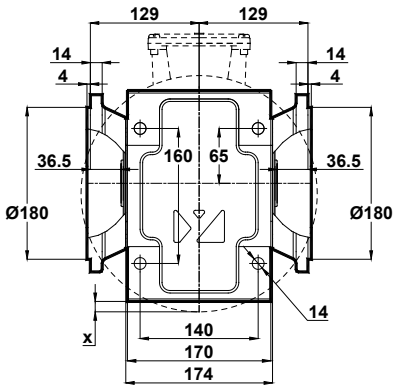


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

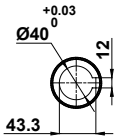
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

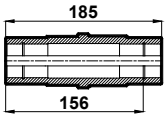
KV373.08
KV373.08



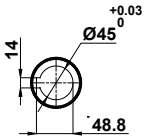


Std.





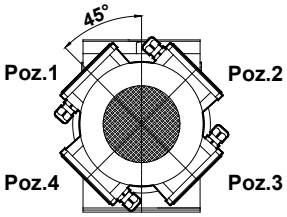
Ops.



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	570	590	610	635	684	704	768	806
k1	690	710	735	760	819	839	913	951
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1.3	1.3

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

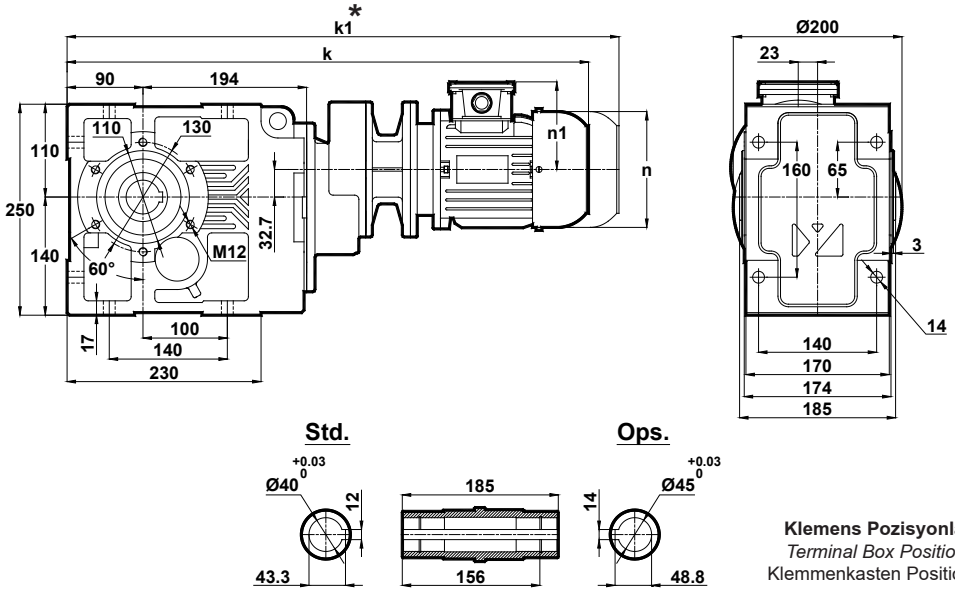


71-80-90-100-112-132
Tip / *Type* / Typ

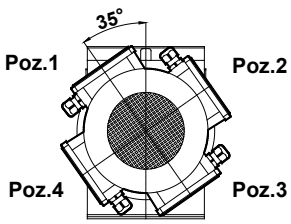
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

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

KV374.00



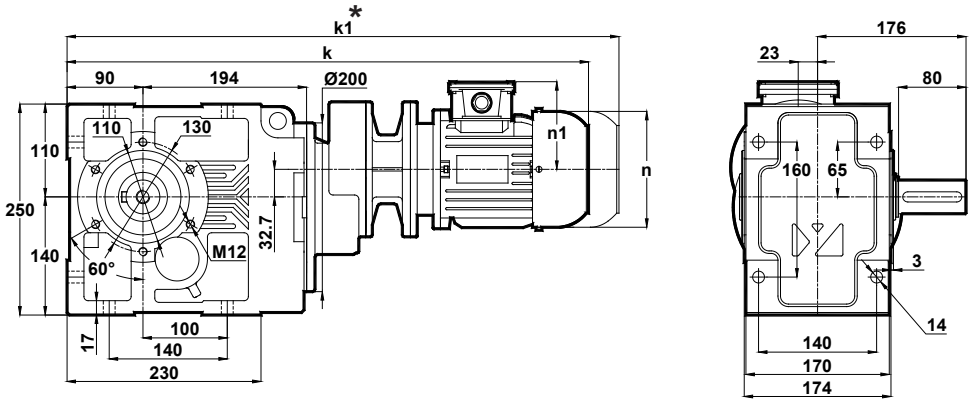
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

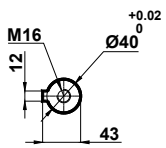


63-71-80
Tip / *Type* / Typ

	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

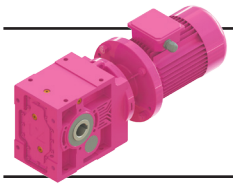
KV374.01





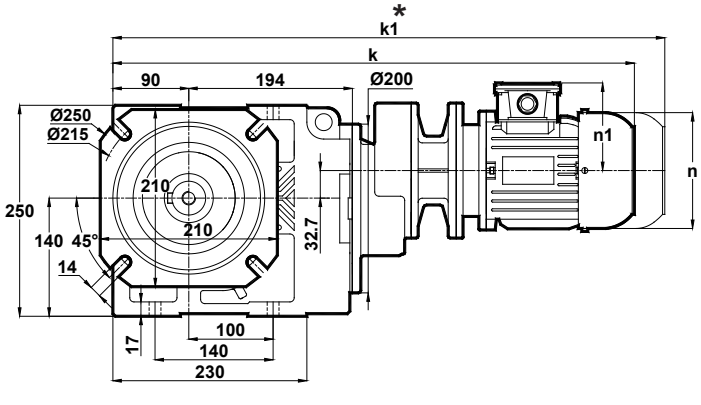
	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

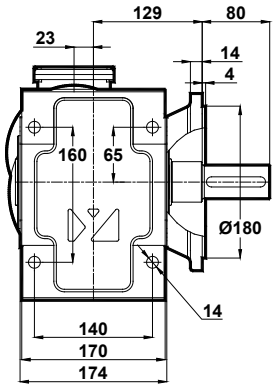
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

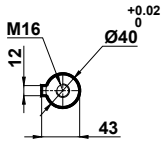


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV374.02

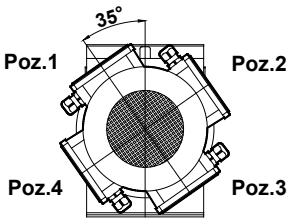






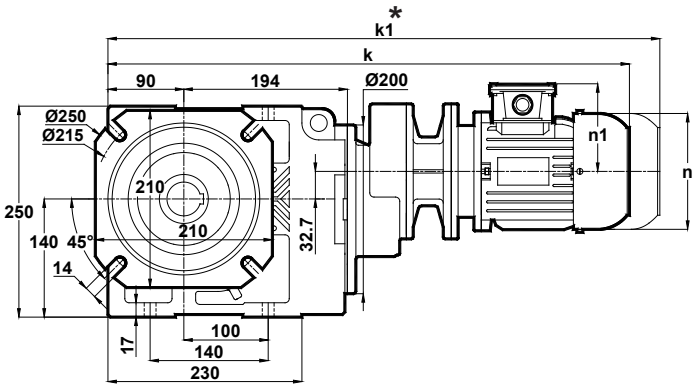
	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

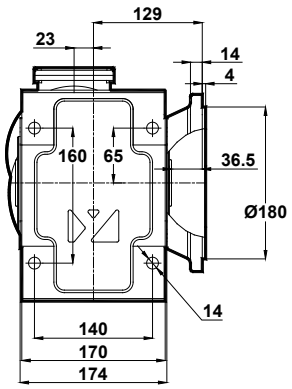
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



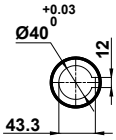
63-71-80
Tip / *Type* / Typ

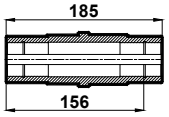
KV374.03



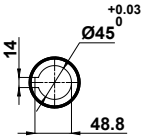


Std.





Ops.

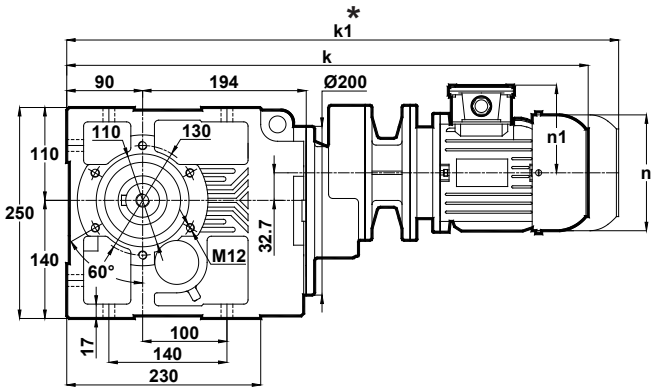


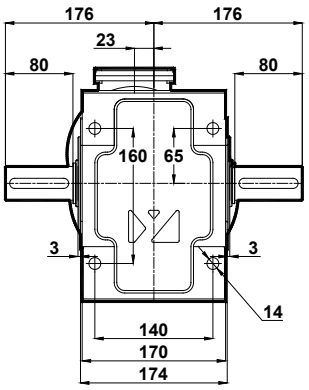
	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

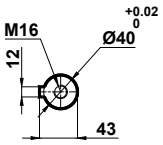
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-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

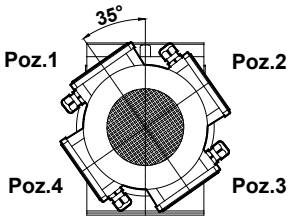






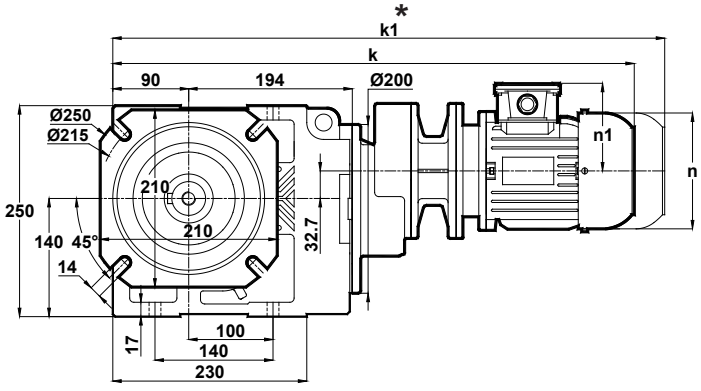
	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

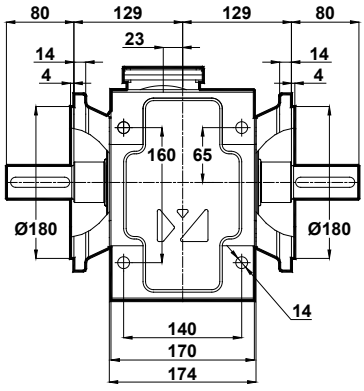
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

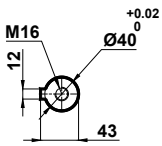


63-71-80
Tip / *Type* / Typ

KV374.05

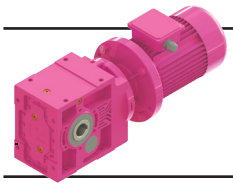






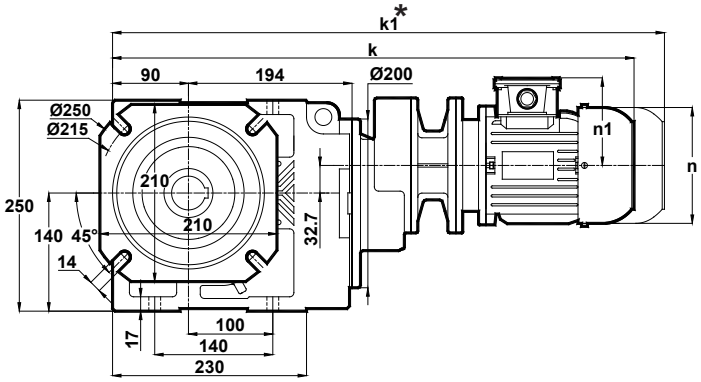
	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

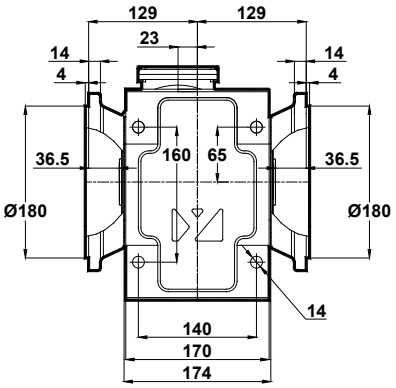
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



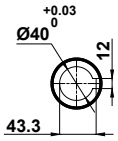
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

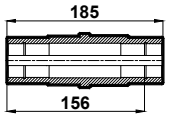
KV374.08



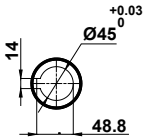


Std.



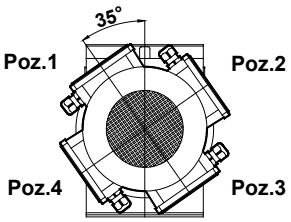


Ops.



	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

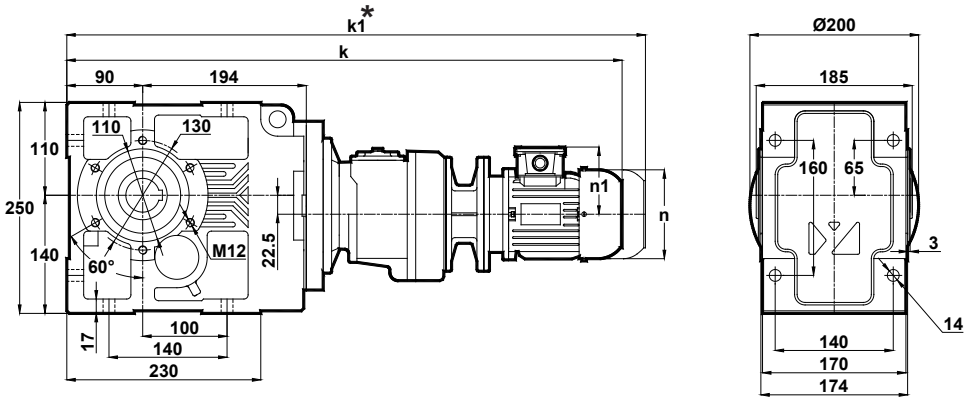


63-71-80
Tip / *Type* / Typ

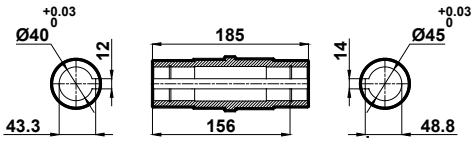
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

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

KV375.00
KV376.00

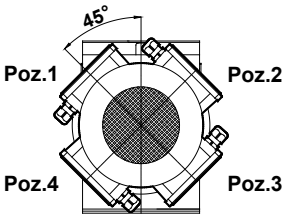


Std. **Ops.**



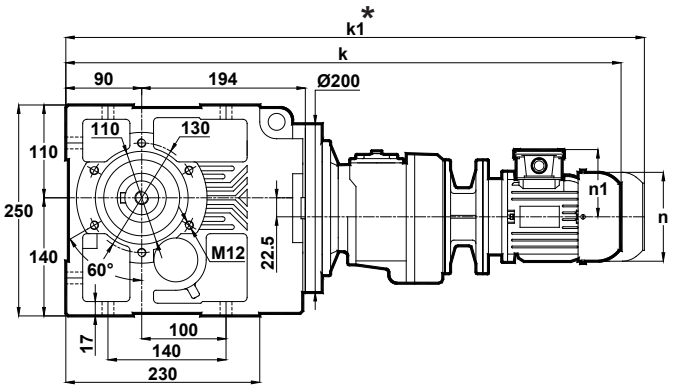
	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

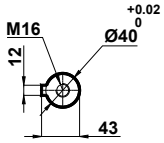
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tip / *Type* / Typ

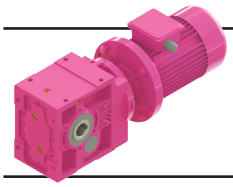
KV375.01
KV376.01





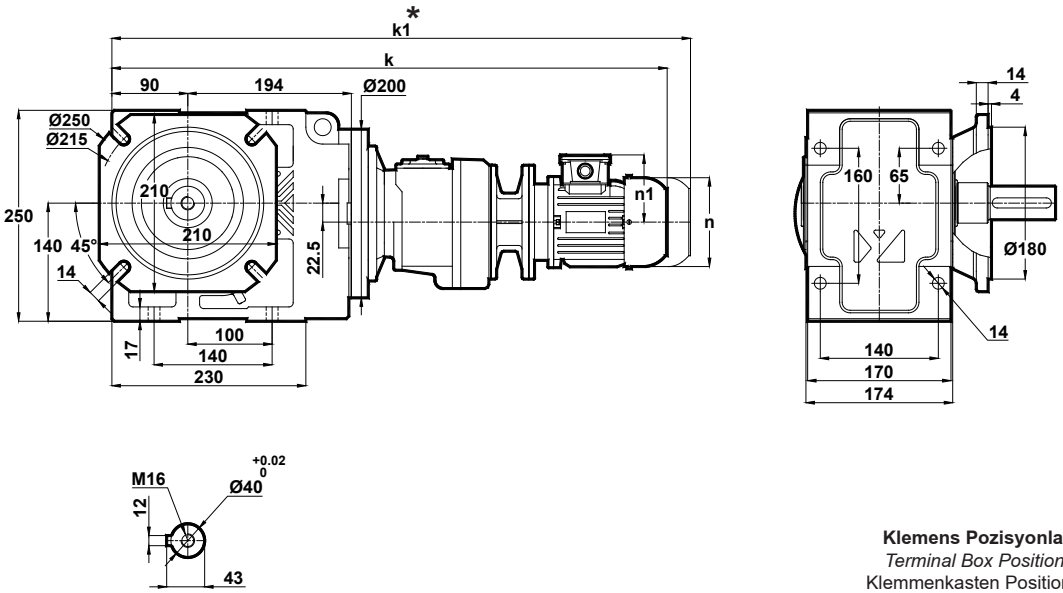
	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

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

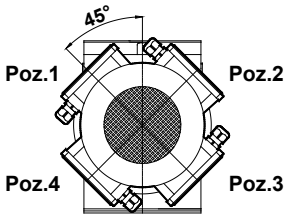


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV375.02
KV376.02



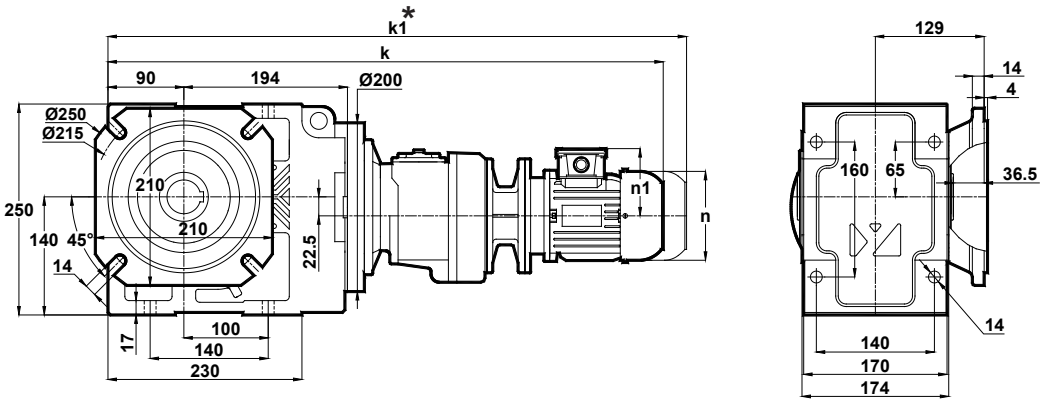
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



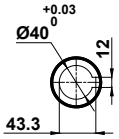
63-71
Tip / *Type* / Typ

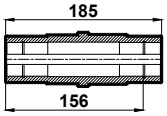
	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

KV375.03
KV376.03

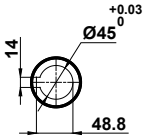


Std.



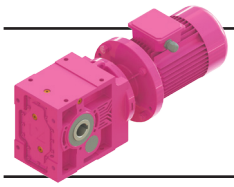


Ops.



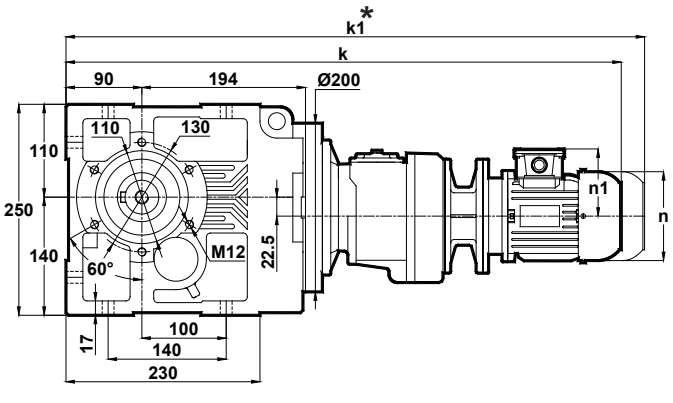
	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

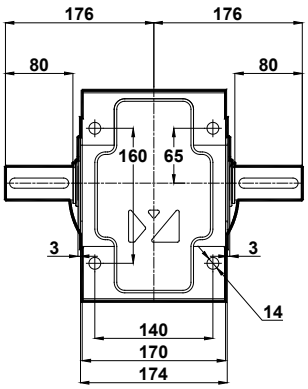
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

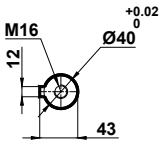


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV375.04
KV376.04

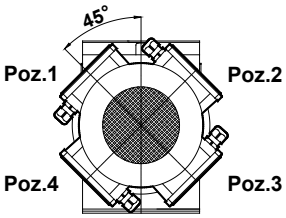






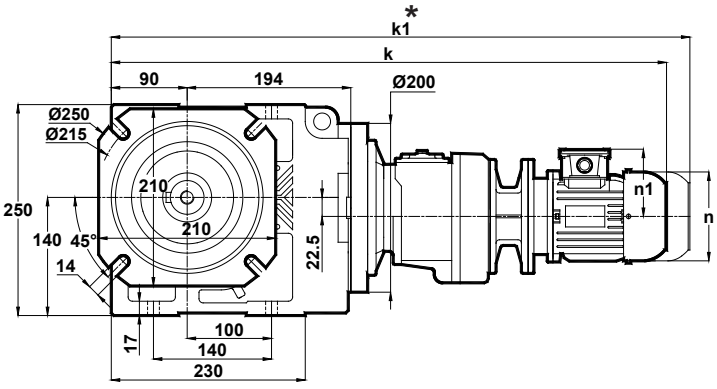
	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

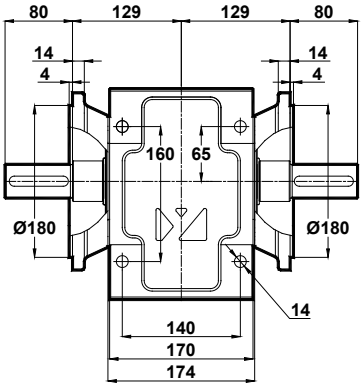
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

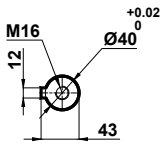


63-71
Tip / *Type* / Typ

KV375.05
KV376.05

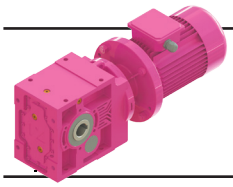






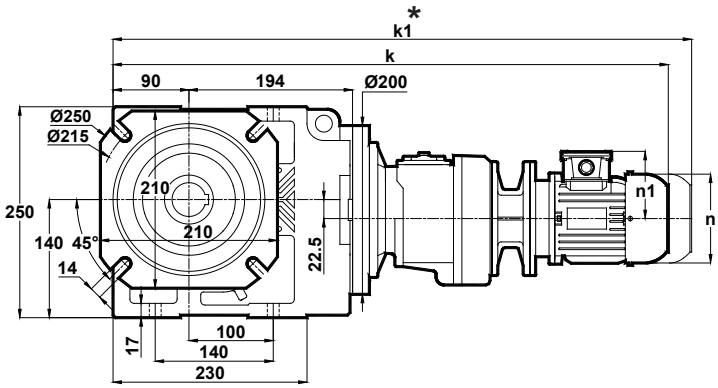
	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

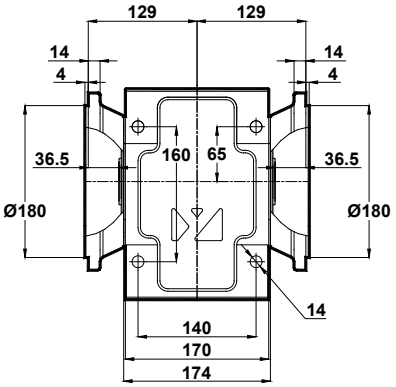
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

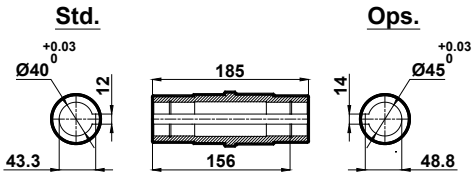


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV375.08
KV376.08

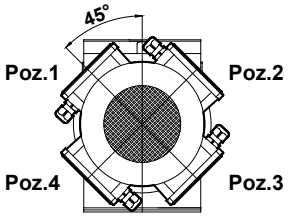






	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

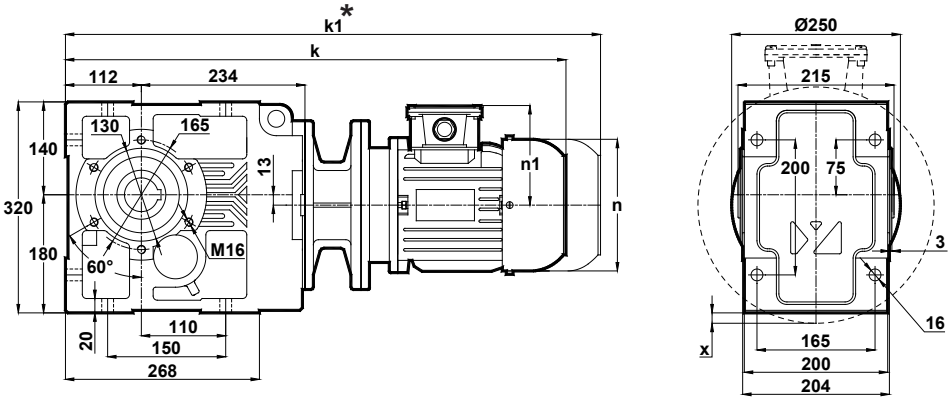


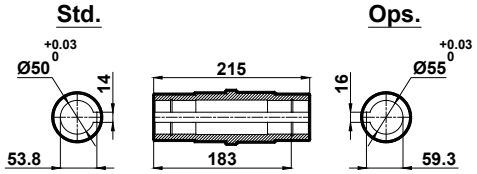
63-71
Tip / *Type* / Typ

*** " 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

KV473.00

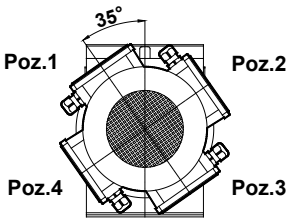




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

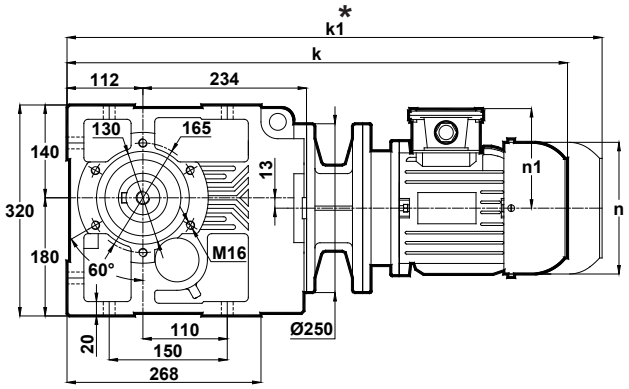
	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	642	662	687	737	757	820	858	1009	1053	1066	1104
k1	762	787	812	872	892	965	1003	1179	1223	1236	1274
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

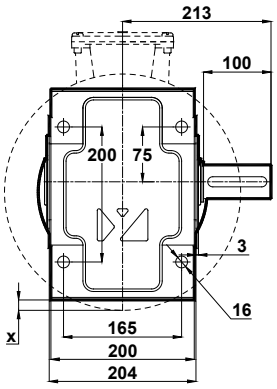
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

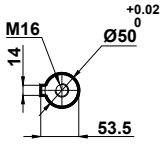


80-90-100-112-132-160-180
Tip / *Type* / Typ

KV473.01



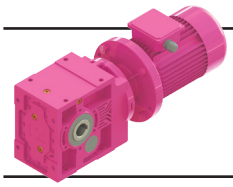




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	642	662	687	737	757	820	858	1009	1053	1066	1104
k1	762	787	812	872	892	965	1003	1179	1223	1236	1274
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

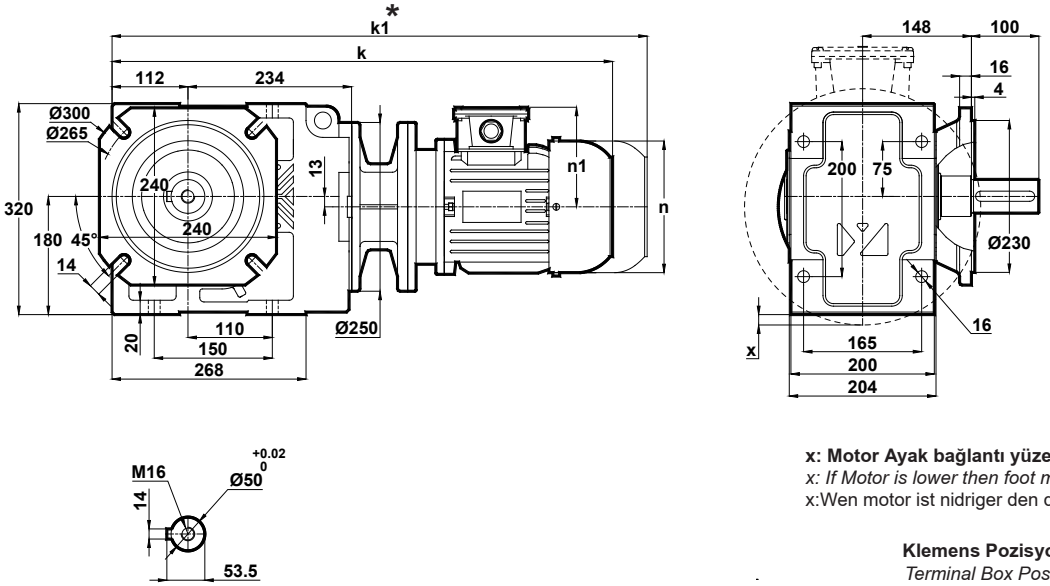
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



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

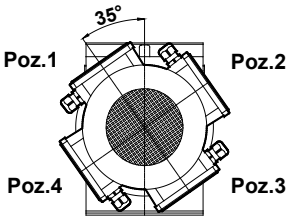
KV473.02



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

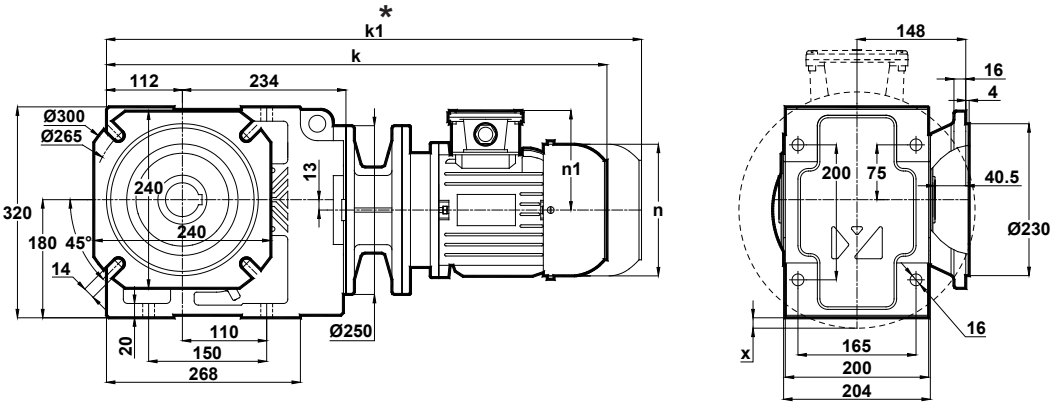
	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	642	662	687	737	757	820	858	1009	1053	1066	1104
k1	762	787	812	872	892	965	1003	1179	1223	1236	1274
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

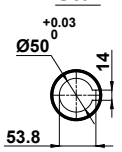


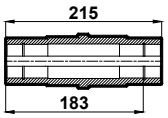
80-90-100-112-132-160-180
Tip / *Type* / Typ

KV473.03

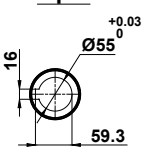


Std.





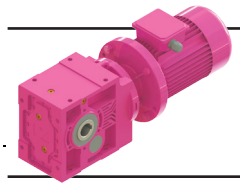
Ops.



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

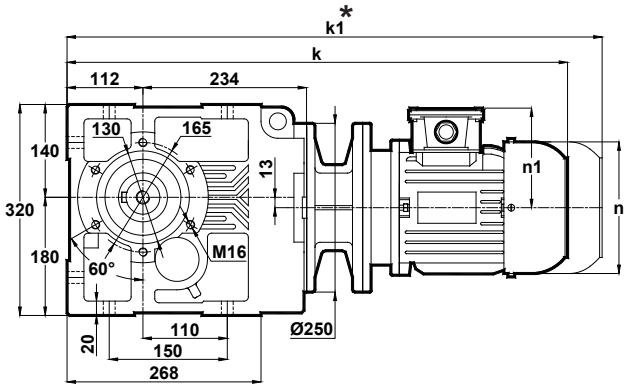
	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	642	662	687	737	757	820	858	1009	1053	1066	1104
k1	762	787	812	872	892	965	1003	1179	1223	1236	1274
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

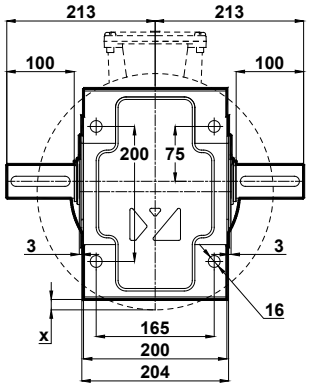
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



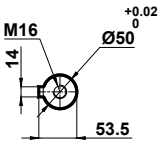
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV473.04

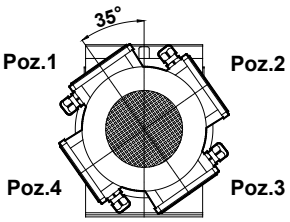




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte



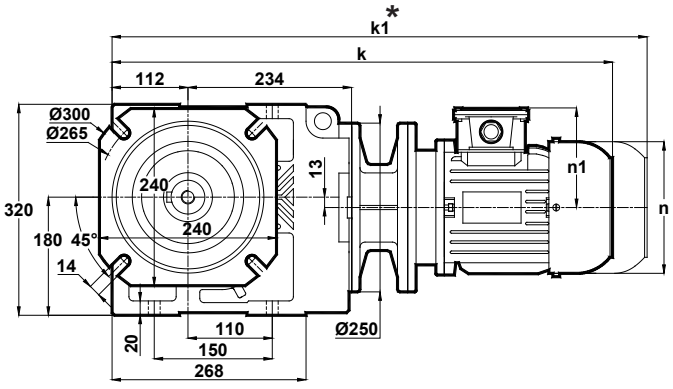
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

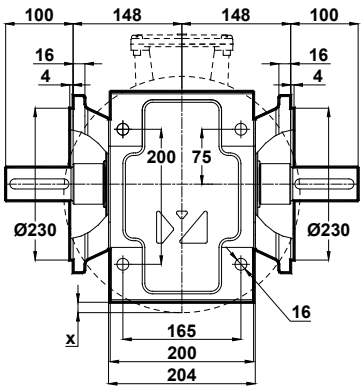


80-90-100-112-132-160-180
Tip / *Type* / Typ

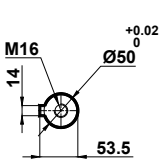
	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	642	662	687	737	757	820	858	1009	1053	1066	1104
k1	762	787	812	872	892	965	1003	1179	1223	1236	1274
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

KV473.05



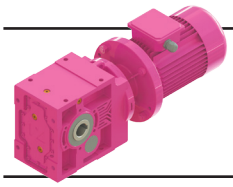


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte



	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	642	662	687	737	757	820	858	1009	1053	1066	1104
k1	762	787	812	872	892	965	1003	1179	1223	1236	1274
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

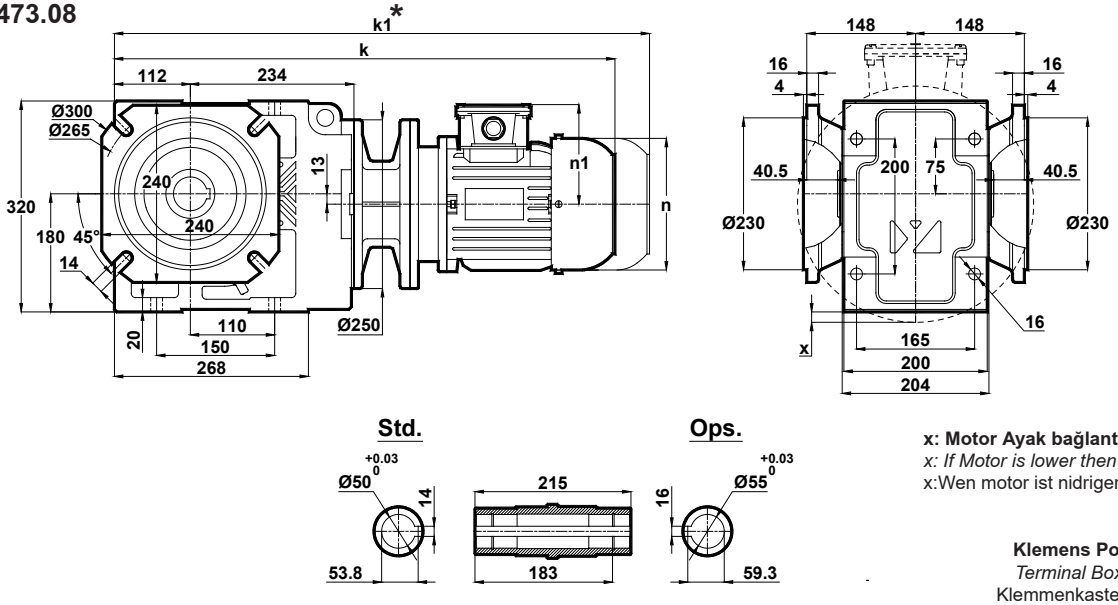
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



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

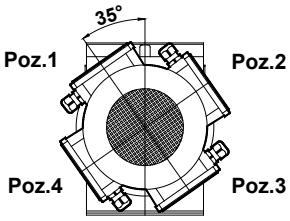
KV473.08



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

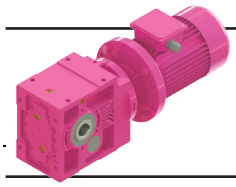
	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	642	662	687	737	757	820	858	1009	1053	1066	1104
k1	762	787	812	872	892	965	1003	1179	1223	1236	1274
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



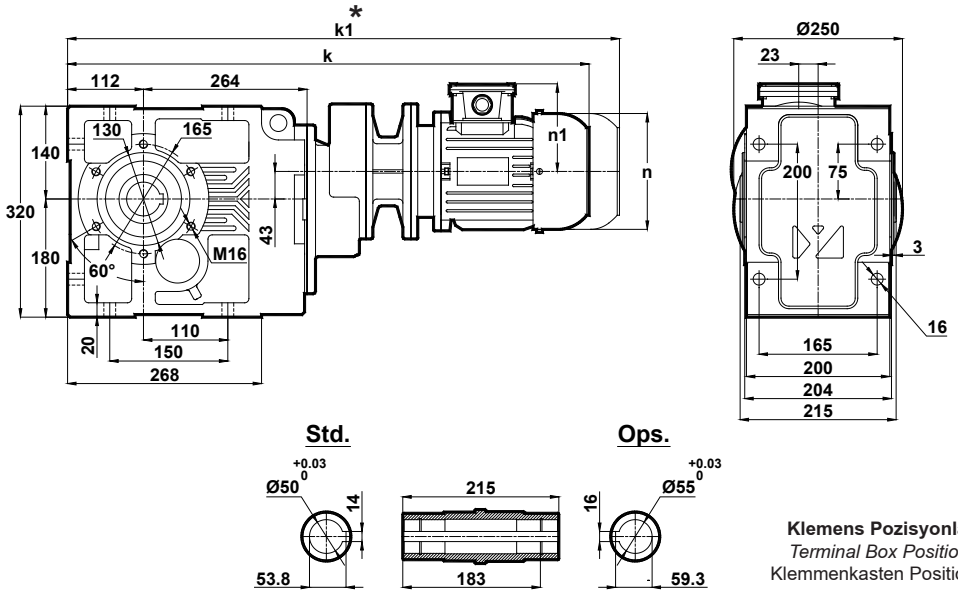
80-90-100-112-132-160-180
Tip / *Type* / Typ

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

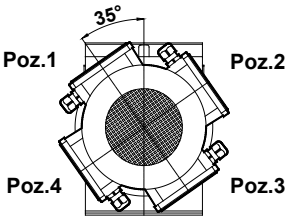


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV474.00



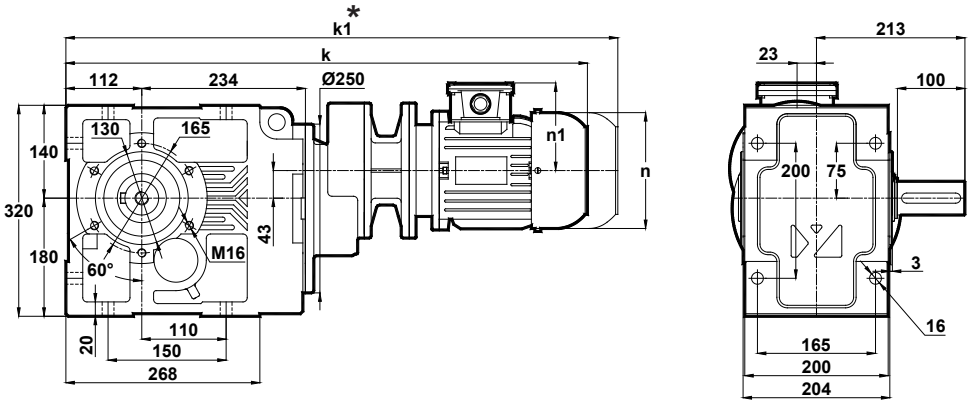
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

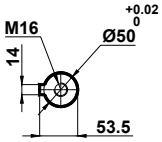


71-80
Tip / *Type* / Typ

	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

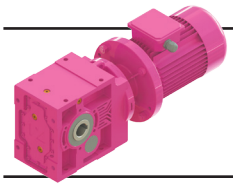
KV474.01





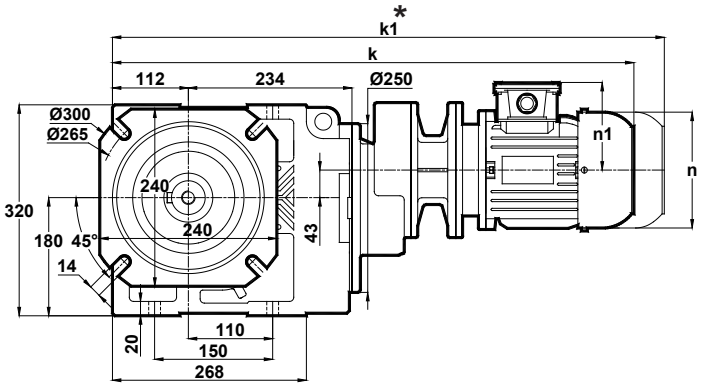
	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

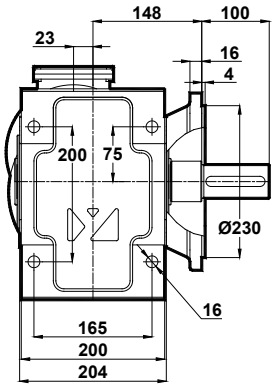
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

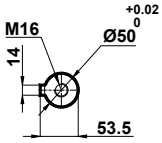


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV474.02

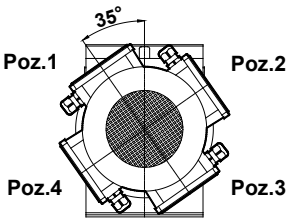






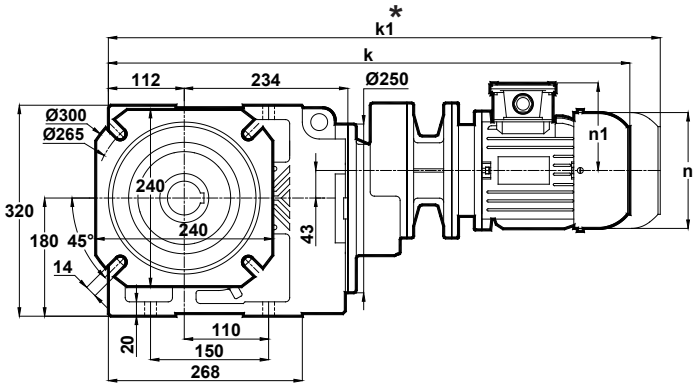
	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

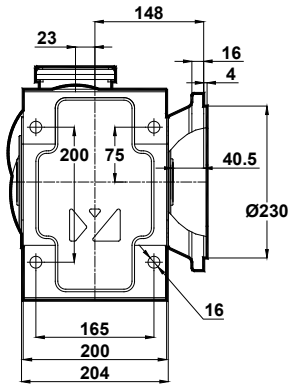
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



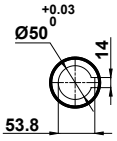
71-80
Tip / *Type* / Typ

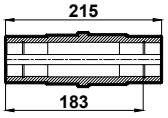
KV474.03



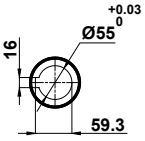


Std.





Ops.

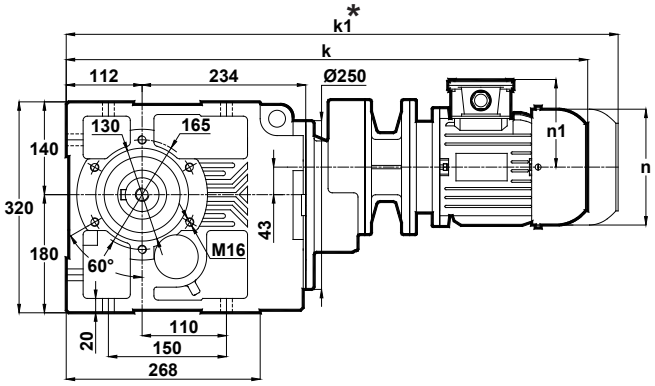


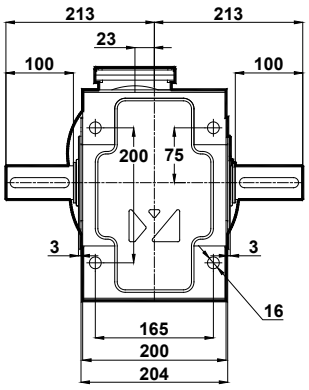
	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

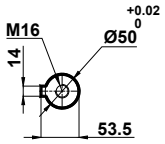
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-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

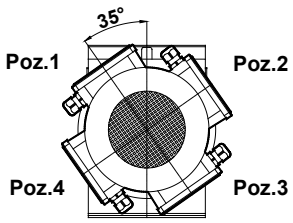






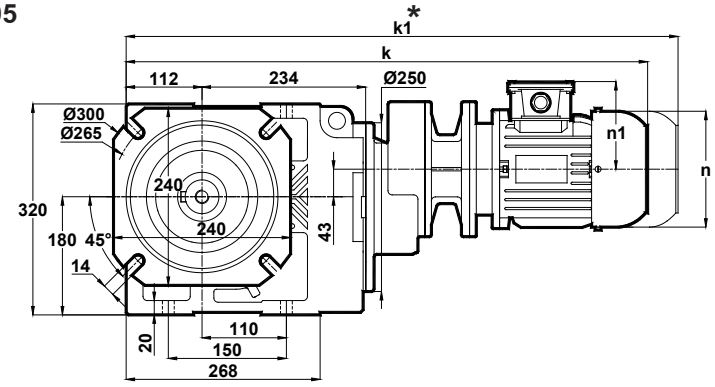
	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

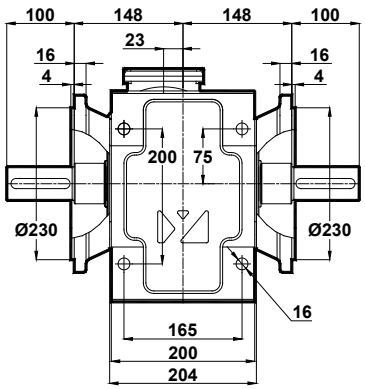
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

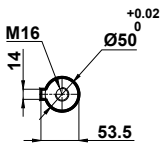


71-80
Tip / *Type* / Typ

KV474.05

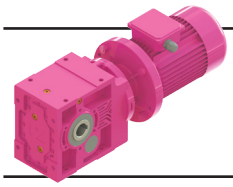






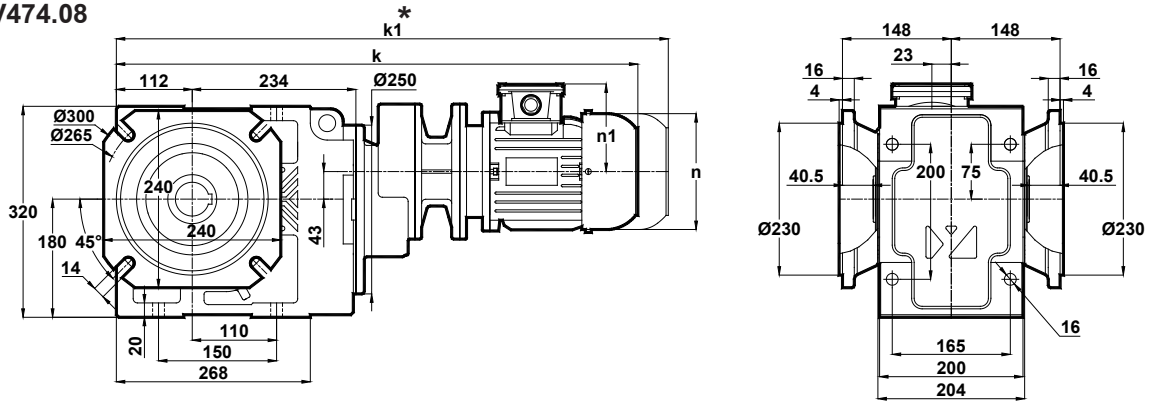
	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

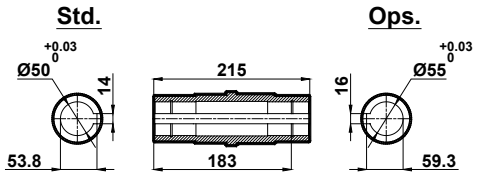
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



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

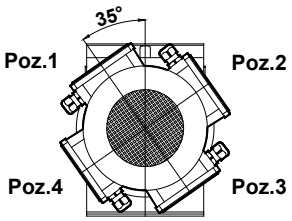
KV474.08





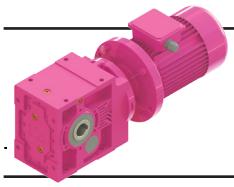
	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



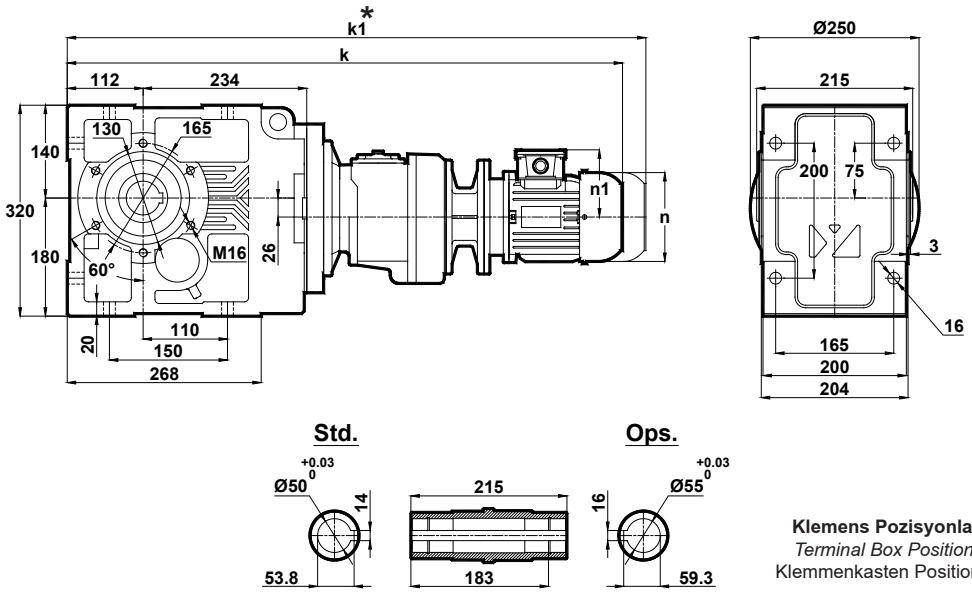
71-80
Tip / *Type* / Typ

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



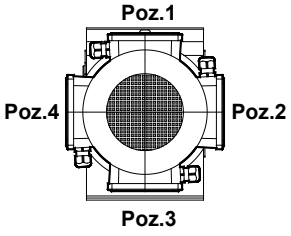
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV475.00
KV476.00



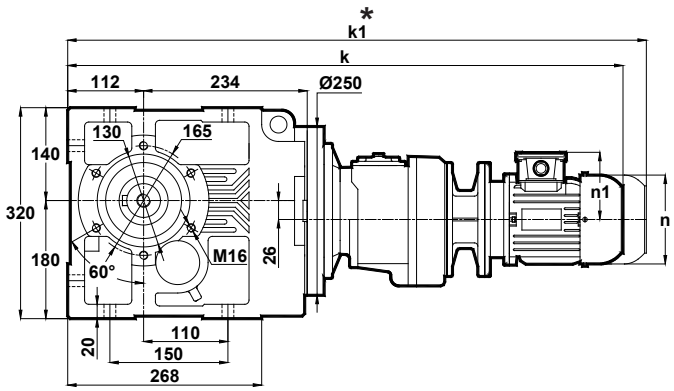
	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

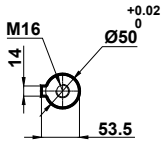
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tip / *Type* / Typ

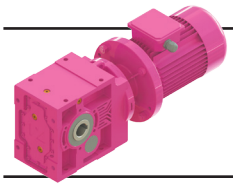
KV475.01
KV476.01





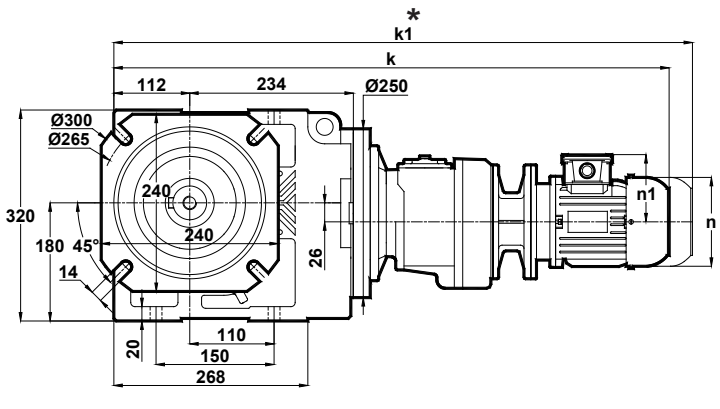
	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

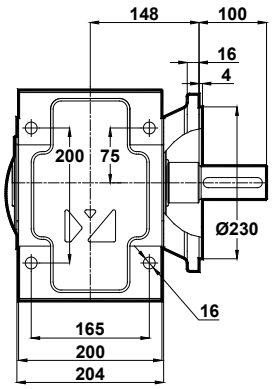
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

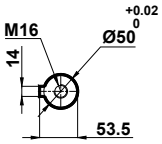


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV475.02
KV476.02

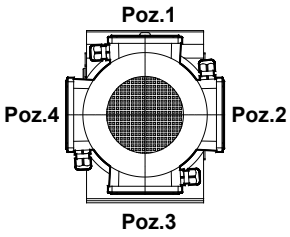






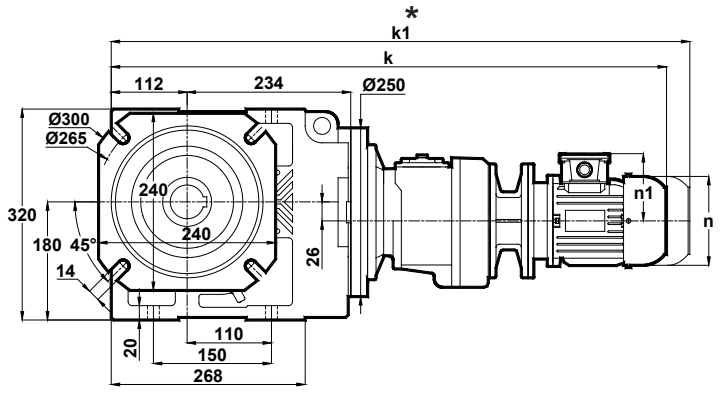
	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

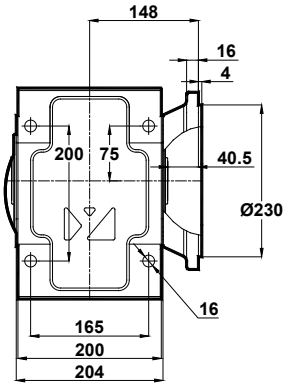
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



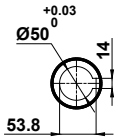
63-71
Tip / *Type* / Typ

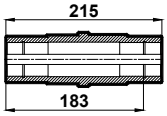
KV475.03
KV476.03



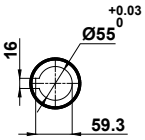


Std.



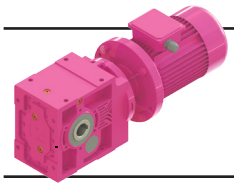


Ops.



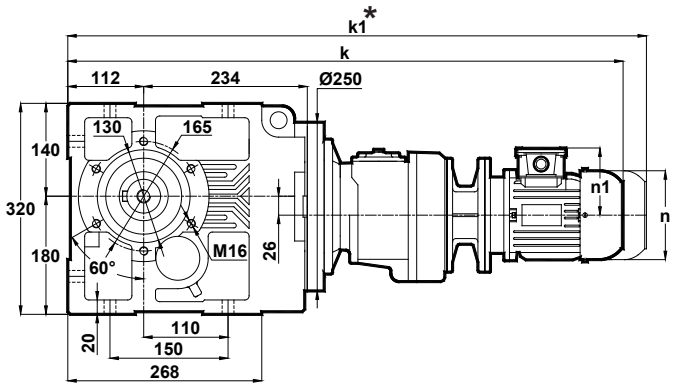
	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

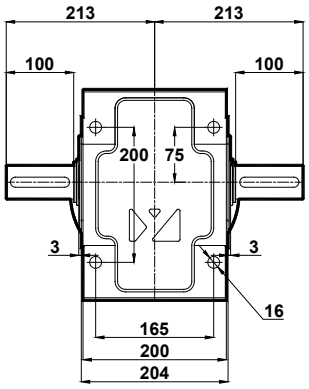
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

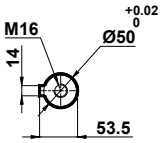


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV475.04
KV476.04

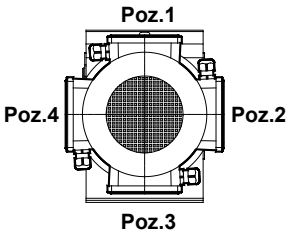






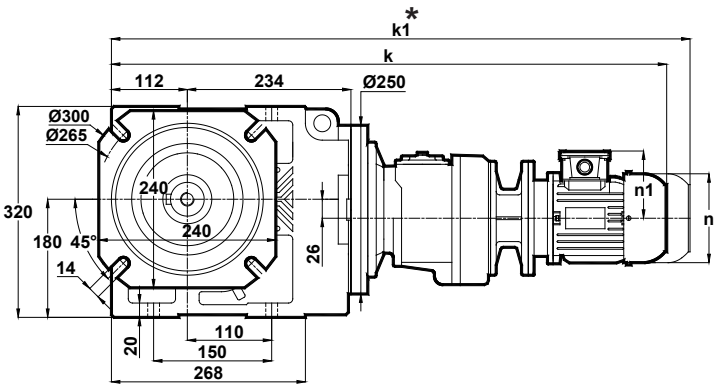
	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

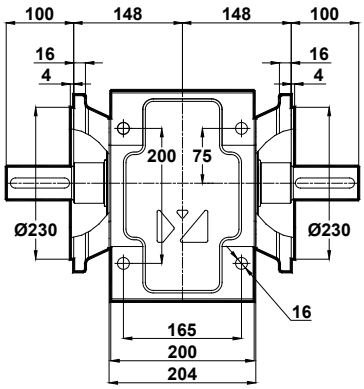
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

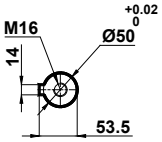


63-71
Tip / *Type* / Typ

KV475.05
KV476.05

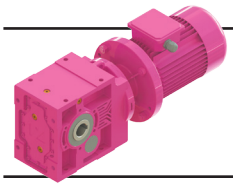






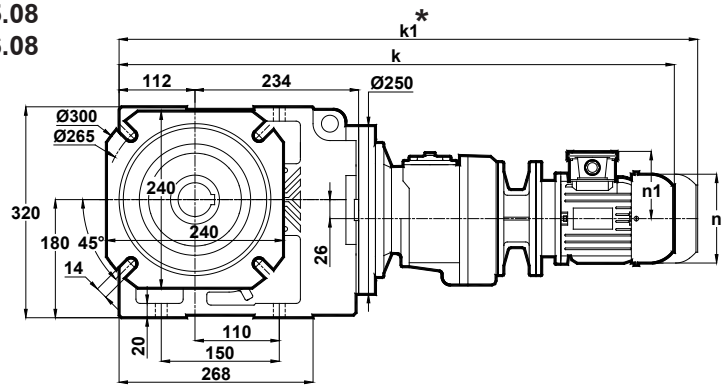
	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

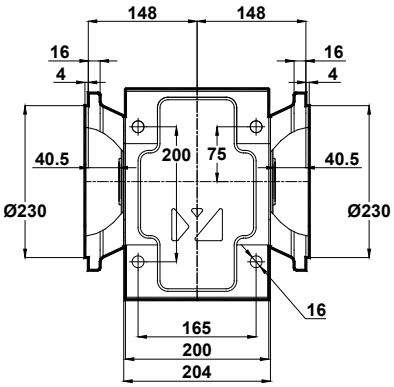
***** **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



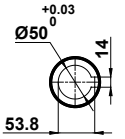
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

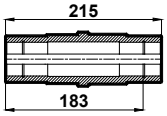
KV475.08
KV476.08



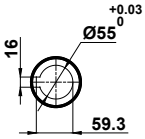


Std.



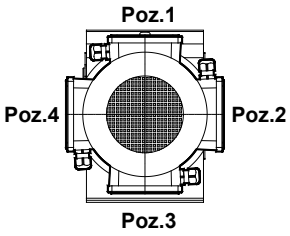


Ops.



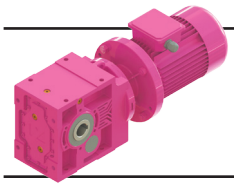
	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



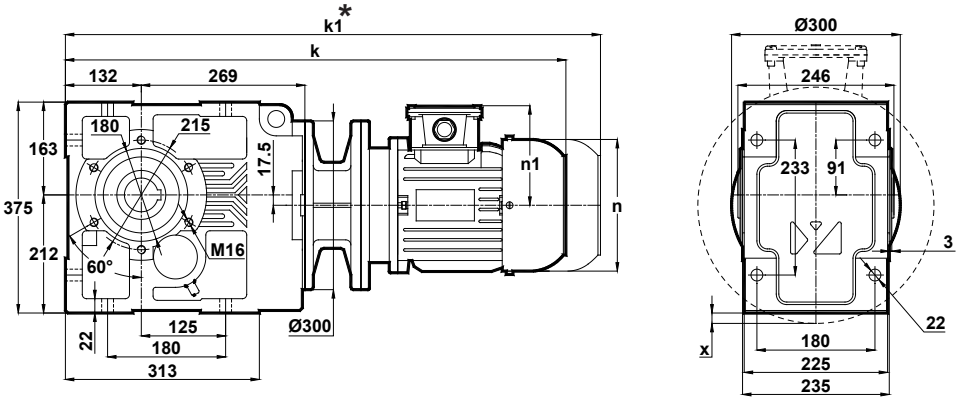
63-71
Tip / *Type* / Typ

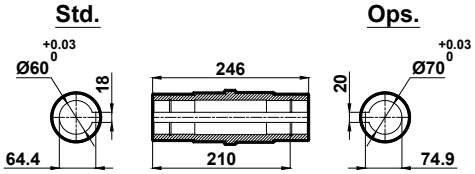
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



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

KV573.00

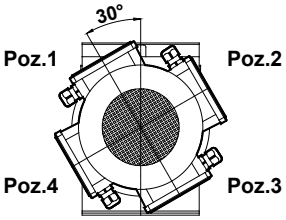




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

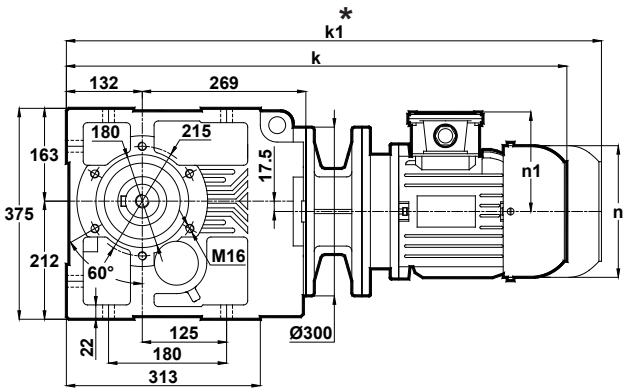
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	790	810	875	913	1060	1104	1117	1155
k1	925	945	1020	1058	1230	1274	1287	1325
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

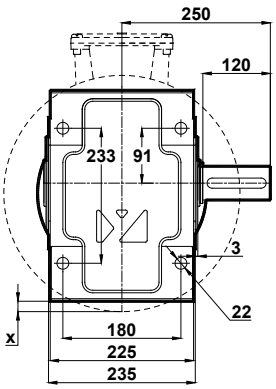
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

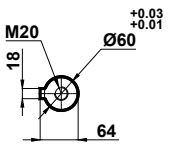


100-112-132-160-180
Tip / *Type* / Typ

KV573.01



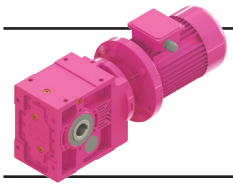




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

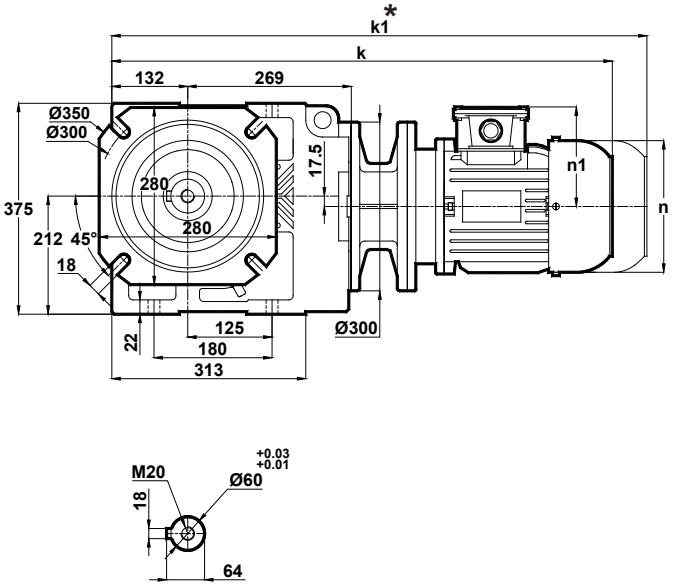
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	790	810	875	913	1060	1104	1117	1155
k1	925	945	1020	1058	1230	1274	1287	1325
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

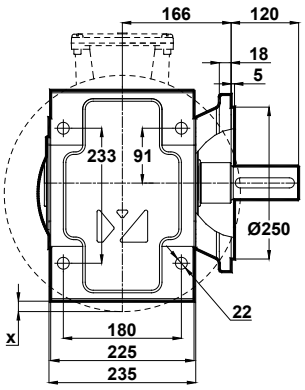
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



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

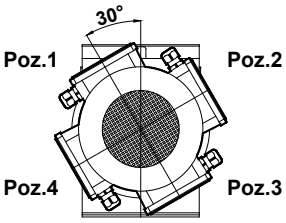
KV573.02





x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

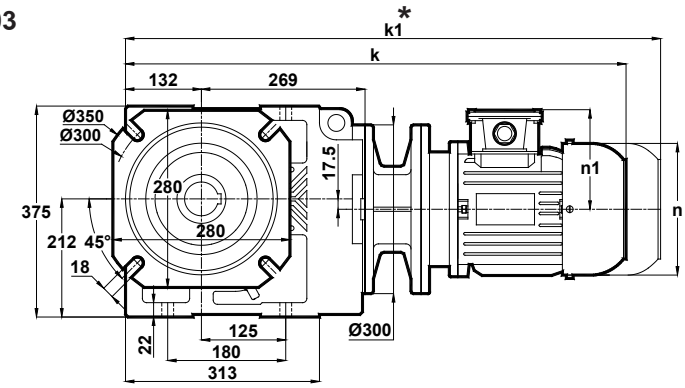
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

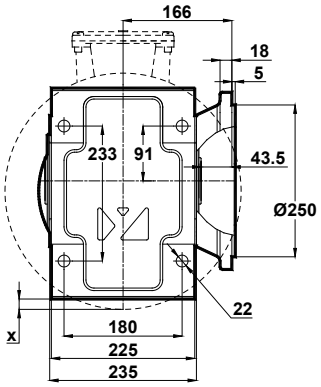


100-112-132-160-180
Tip / *Type* / Typ

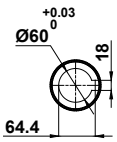
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	790	810	875	913	1060	1104	1117	1155
k1	925	945	1020	1058	1230	1274	1287	1325
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

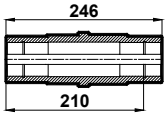
KV573.03



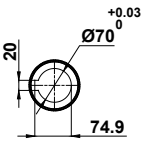


Std.





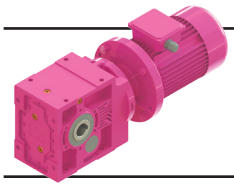
Ops.



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

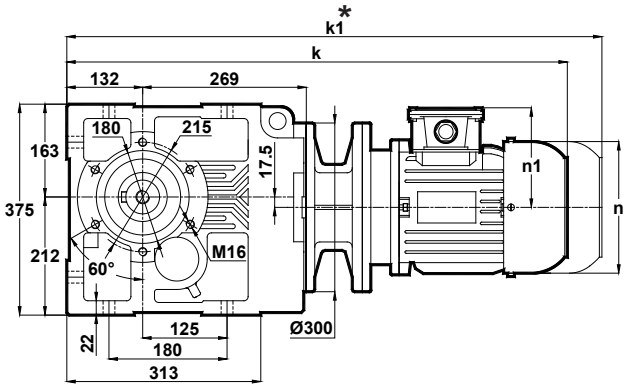
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	790	810	875	913	1060	1104	1117	1155
k1	925	945	1020	1058	1230	1274	1287	1325
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

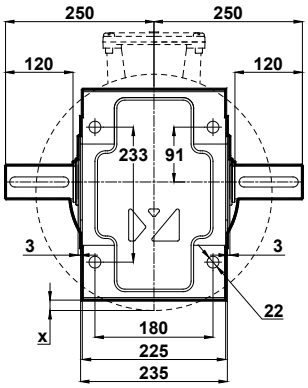
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



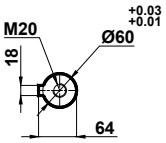
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV573.04

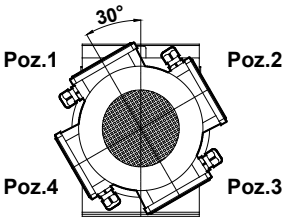




x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte



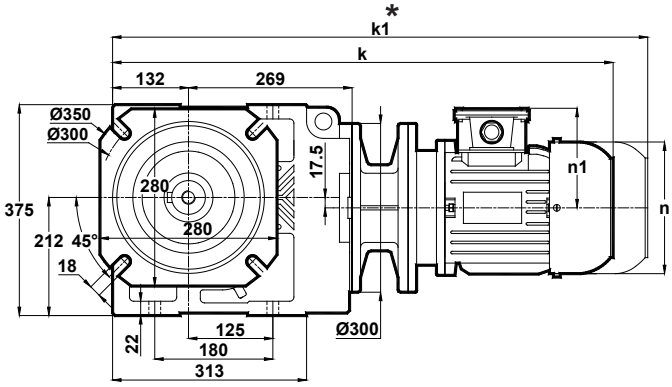
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

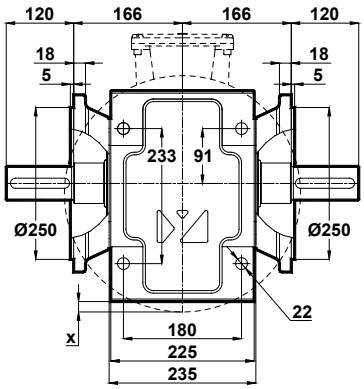


100-112-132-160-180
Tip / *Type* / Typ

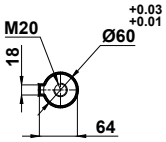
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	790	810	875	913	1060	1104	1117	1155
k1	925	945	1020	1058	1230	1274	1287	1325
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

KV573.05



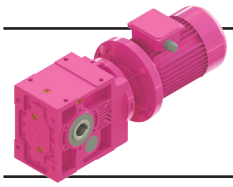


x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte



	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	790	810	875	913	1060	1104	1117	1155
k1	925	945	1020	1058	1230	1274	1287	1325
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

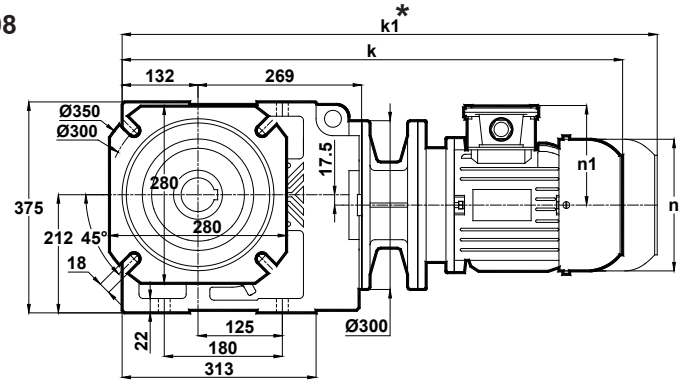
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

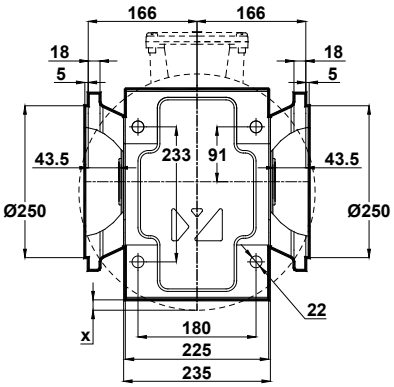


Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

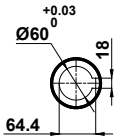
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

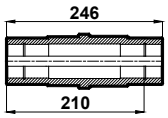
KV573.08



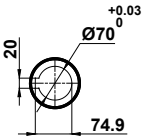


Std.





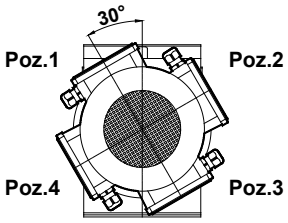
Ops.



x: Motor Ayak bağlantı yüzeyinin altında ise
x: If Motor is lower then foot mounting plane
x:Wen motor ist nidriger den die Anschlußplatte

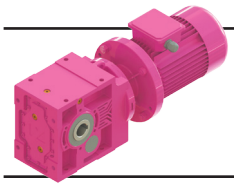
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	790	810	875	913	1060	1104	1117	1155
k1	925	945	1020	1058	1230	1274	1287	1325
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



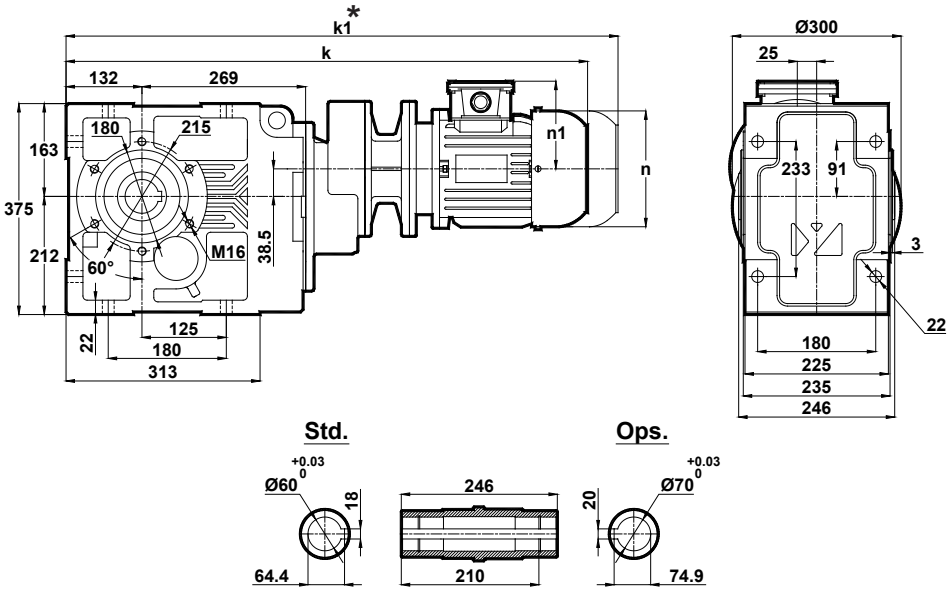
100-112-132-160-180
Tip / *Type* / Typ

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



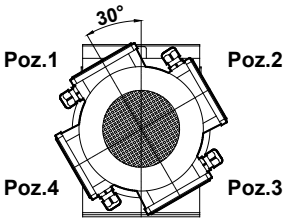
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV574.00



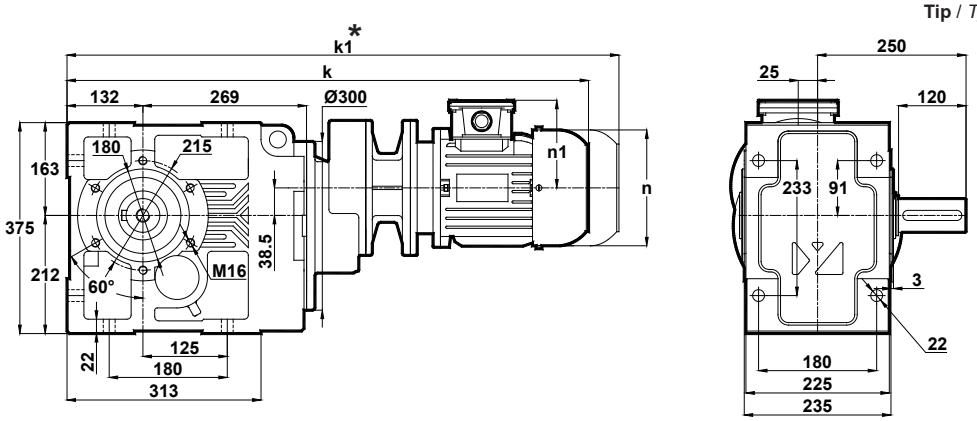
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	773	793	813	838	887
k1	893	913	938	963	1022
n	138	156	176	176	194
n1	110	118	126	126	135

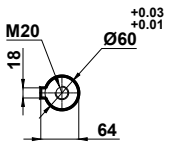
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



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

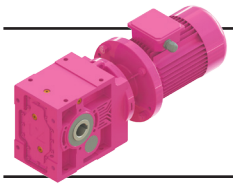
KV574.01





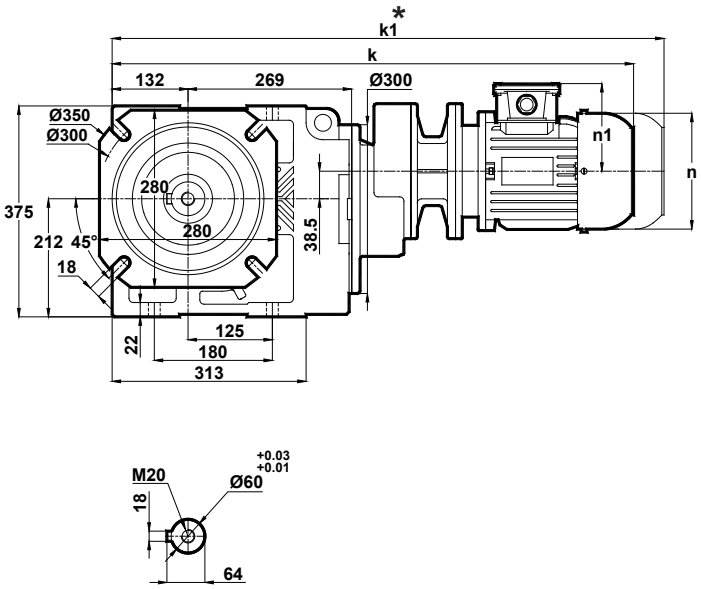
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	773	793	813	838	887
k1	893	913	938	963	1022
n	138	156	176	176	194
n1	110	118	126	126	135

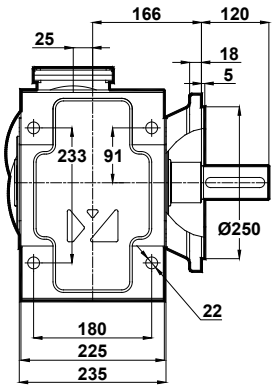
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



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

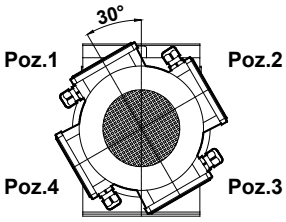
KV574.02





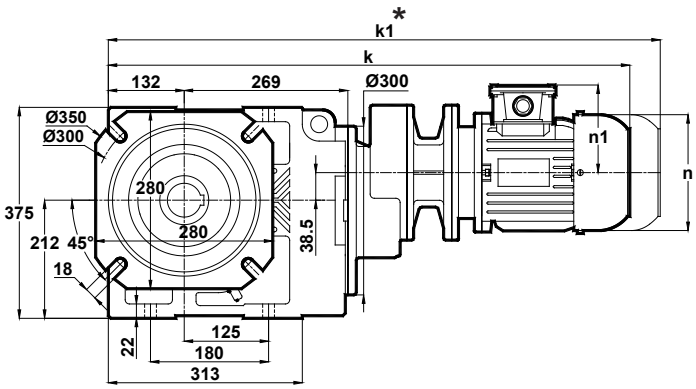
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	773	793	813	838	887
k1	893	913	938	963	1022
n	138	156	176	176	194
n1	110	118	126	126	135

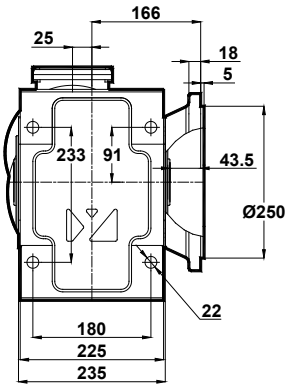
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

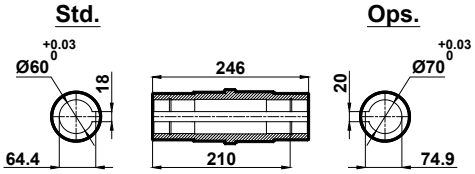


71-80-90-100
Tip / *Type* / Typ

KV574.03





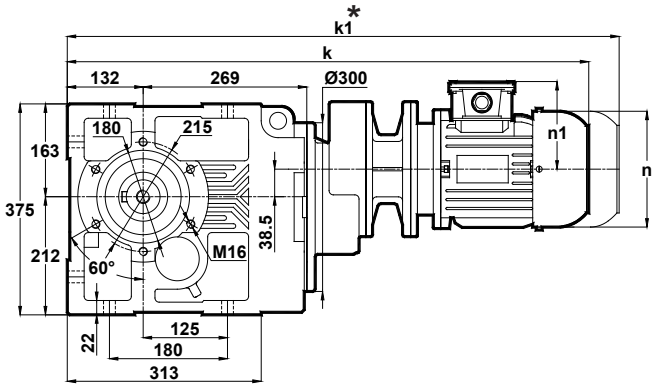


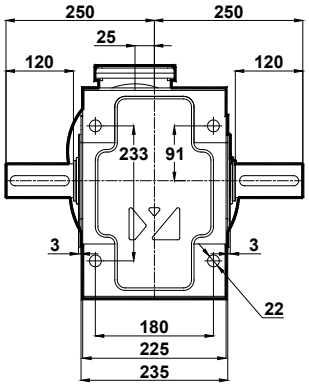
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	773	793	813	838	887
k1	893	913	938	963	1022
n	138	156	176	176	194
n1	110	118	126	126	135

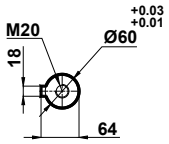
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-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

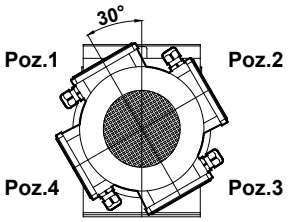






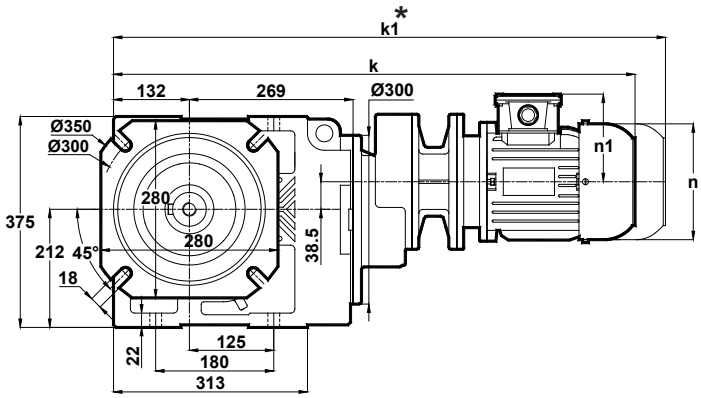
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	773	793	813	838	887
k1	893	913	938	963	1022
n	138	156	176	176	194
n1	110	118	126	126	135

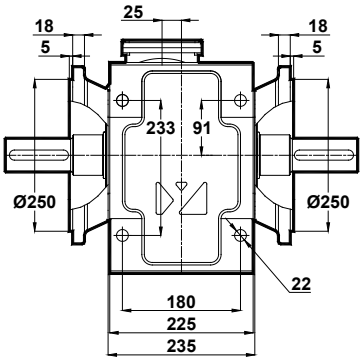
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

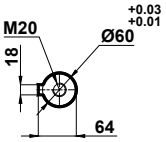


71-80-90-100
Tip / *Type* / Typ

KV574.05

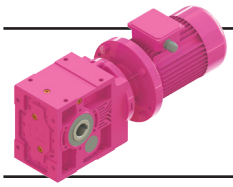






	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	773	793	813	838	887
k1	893	913	938	963	1022
n	138	156	176	176	194
n1	110	118	126	126	135

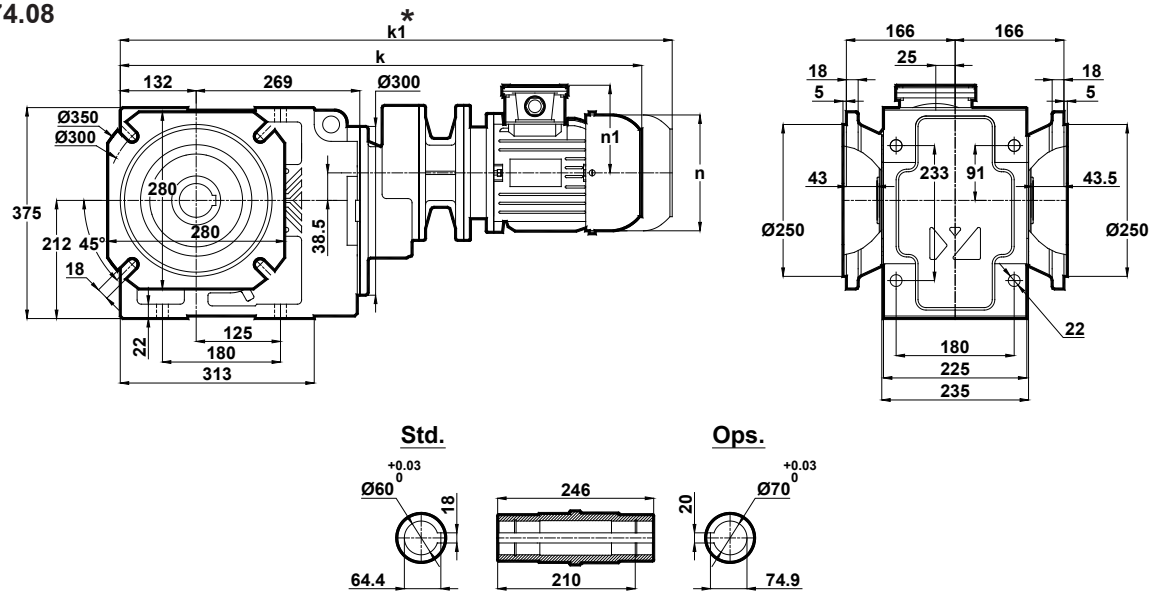
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



Ölçü Sayfaları
Dimension Pages
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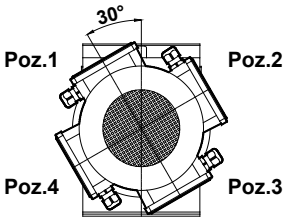
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV574.08



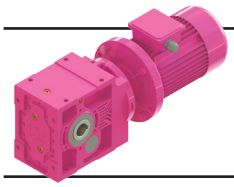
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	773	793	813	838	887
k1	893	913	938	963	1022
n	138	156	176	176	194
n1	110	118	126	126	135

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



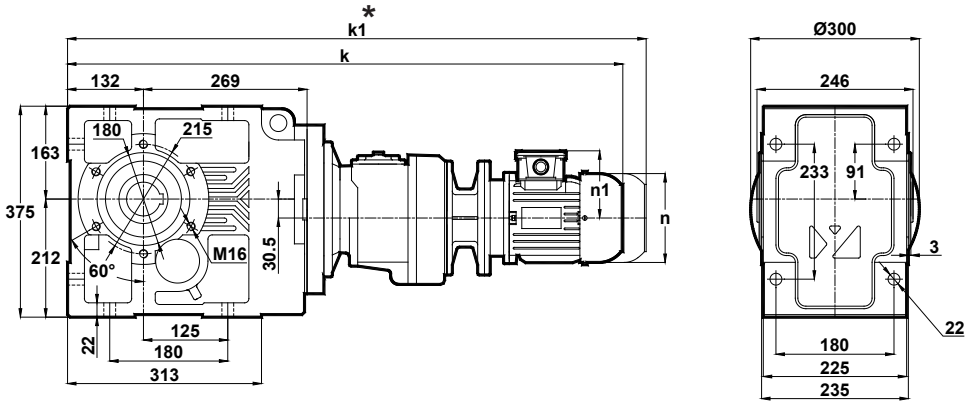
71-80-90-100
Tip / *Type* / Typ

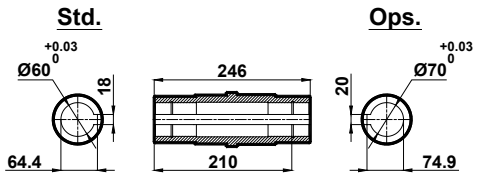
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



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

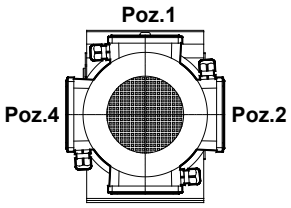
KV575.00
KV576.00





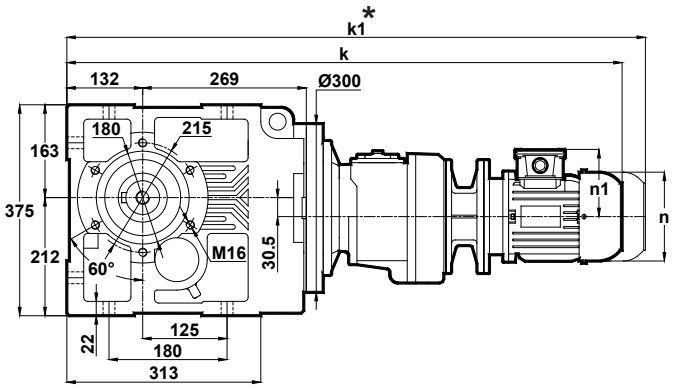
	63/B5	71/B5	80/B5
k	877	874	923
k1	-	994	1043
n	116	138	156
n1	97	110	118

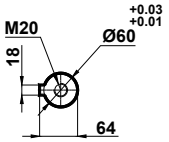
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



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

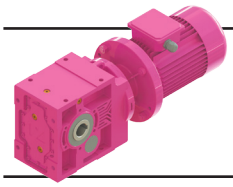
KV575.01
KV576.01





	63/B5	71/B5	80/B5
k	877	874	923
k1	-	994	1043
n	116	138	156
n1	97	110	118

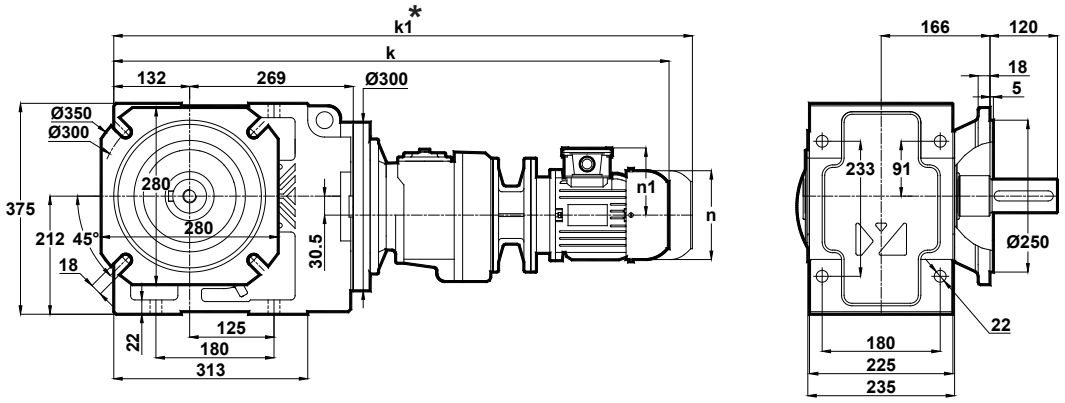
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

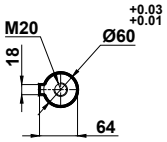


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Dimension Pages
Abmessungsseiten

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

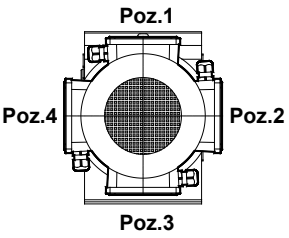
KV575.02
KV576.02





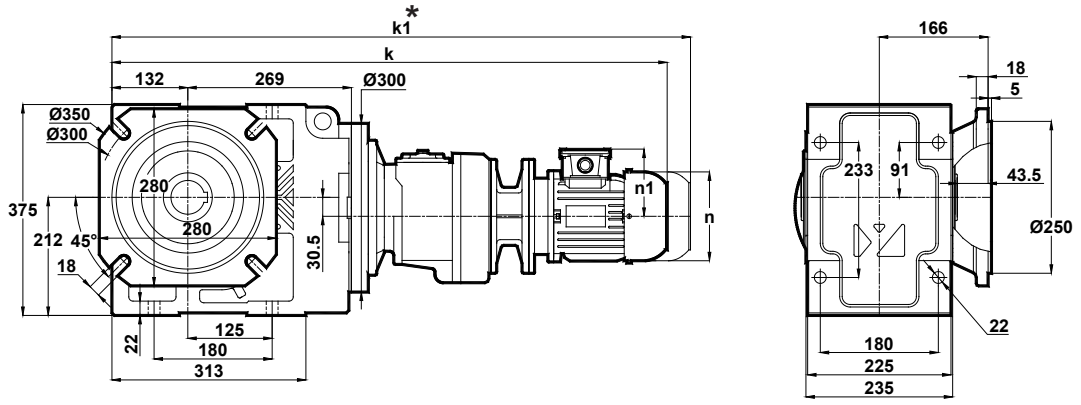
	63/B5	71/B5	80/B5
k	877	874	923
k1	-	994	1043
n	116	138	156
n1	97	110	118

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

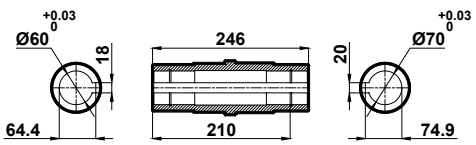


63-71-80
Tip / *Type* / Typ

KV575.03
KV576.03

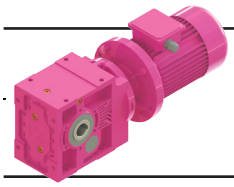


Std. **Ops.**



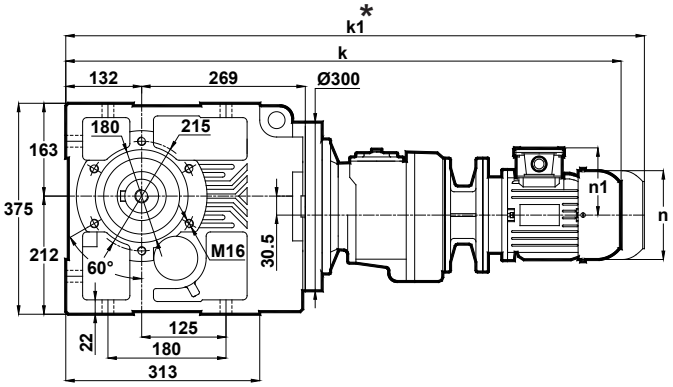
	63/B5	71/B5	80/B5
k	877	874	923
k1	-	994	1043
n	116	138	156
n1	97	110	118

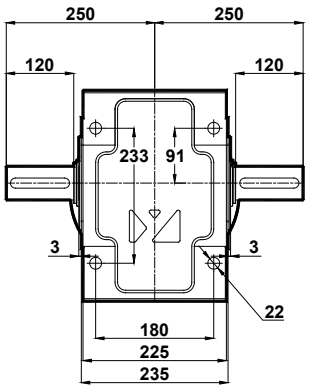
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

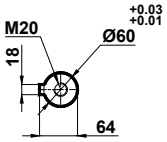


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV575.04
KV576.04

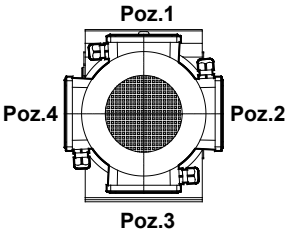






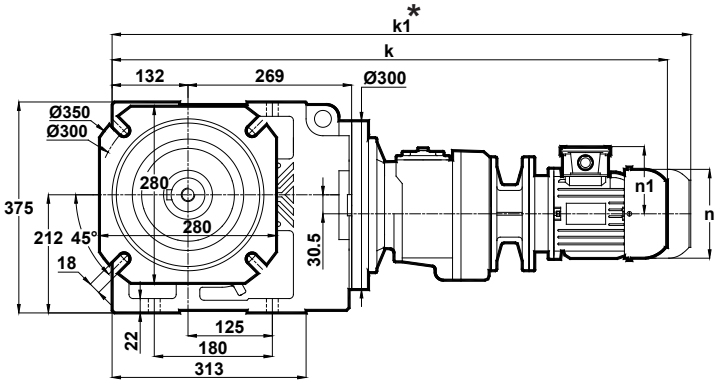
	63/B5	71/B5	80/B5
k	877	874	923
k1	-	994	1043
n	116	138	156
n1	97	110	118

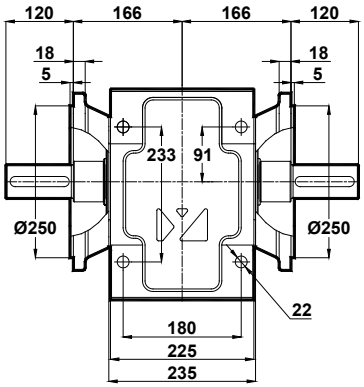
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

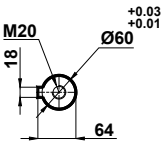


63-71-80
Tip / *Type* / Typ

KV575.05
KV576.05

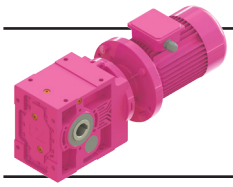






	63/B5	71/B5	80/B5
k	877	874	923
k1	-	994	1043
n	116	138	156
n1	97	110	118

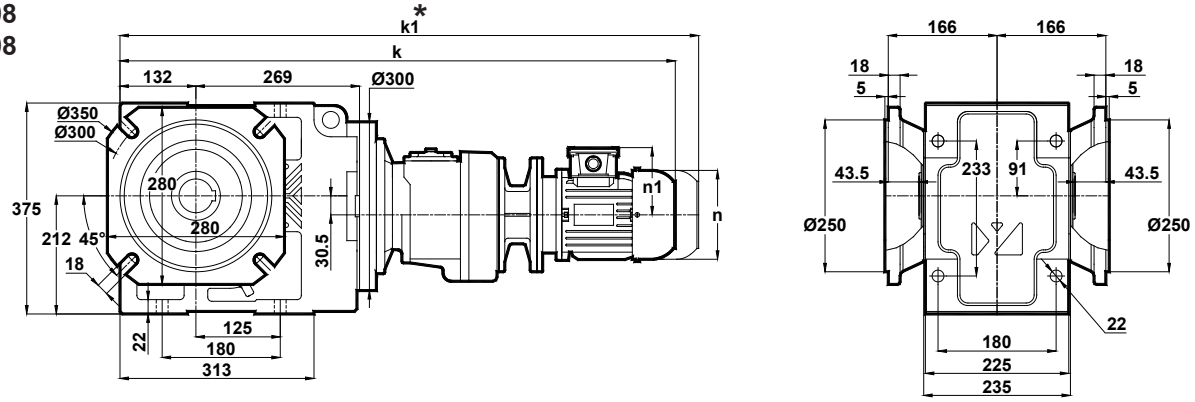
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

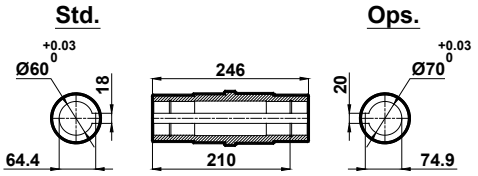


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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

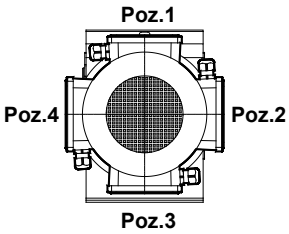
KV575.08
KV576.08





	63/B5	71/B5	80/B5
k	877	874	923
k1	-	994	1043
n	116	138	156
n1	97	110	118

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

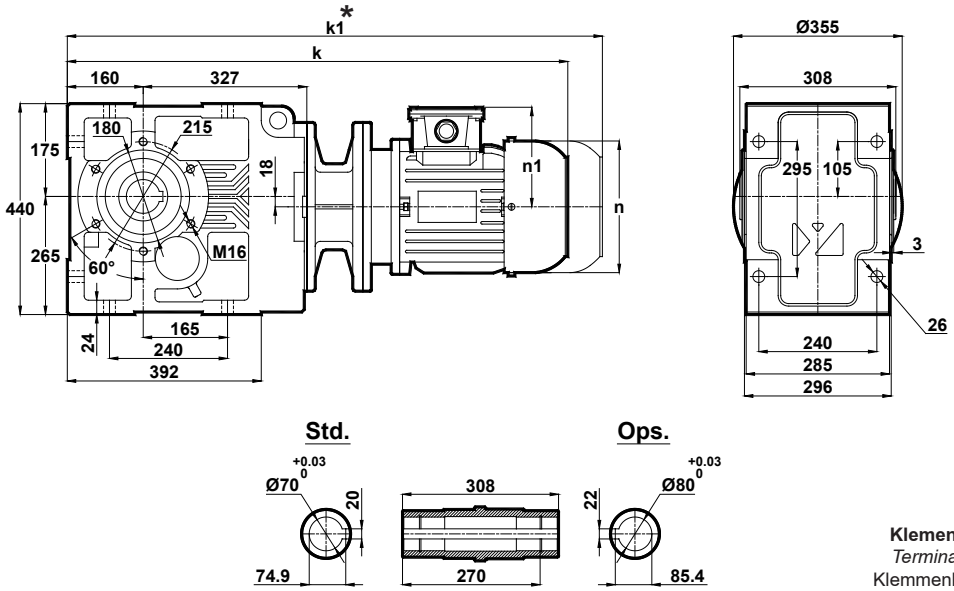


63-71-80
Tip / *Type* / Typ

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

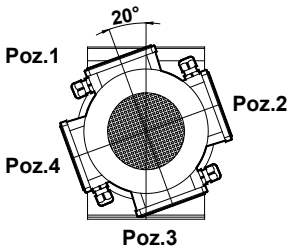
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV673.00



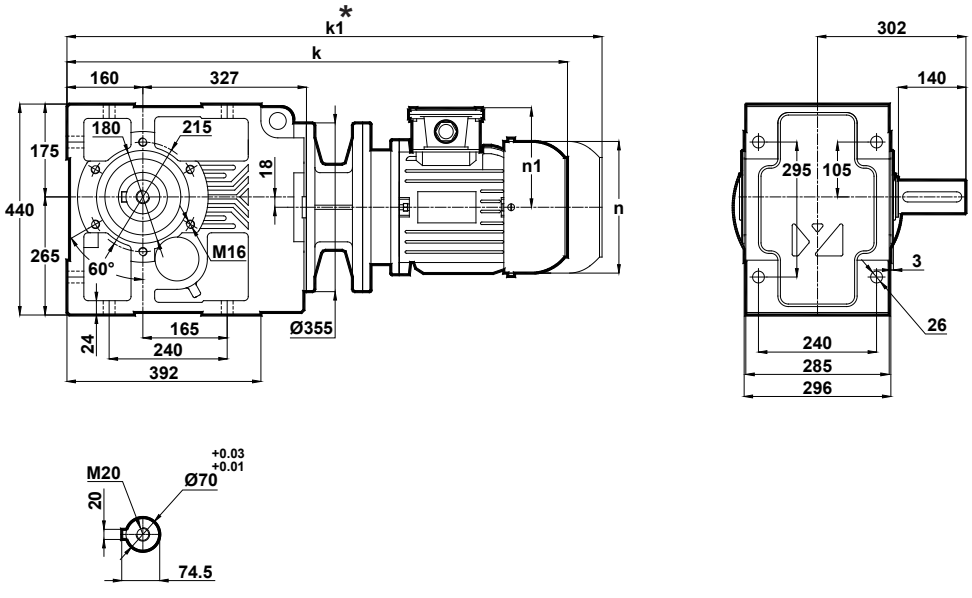
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	872	892	951	989	1136	1180	1193	1231	1303	1374	1399
k1	1007	1027	1096	1134	1306	1350	1363	1401	1503	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



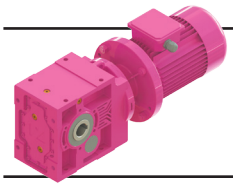
100-112-132-160-180-200-225
Tip / *Type* / Typ

KV673.01



	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	872	892	951	989	1136	1180	1193	1231	1303	1374	1399
k1	1007	1027	1096	1134	1306	1350	1363	1401	1503	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

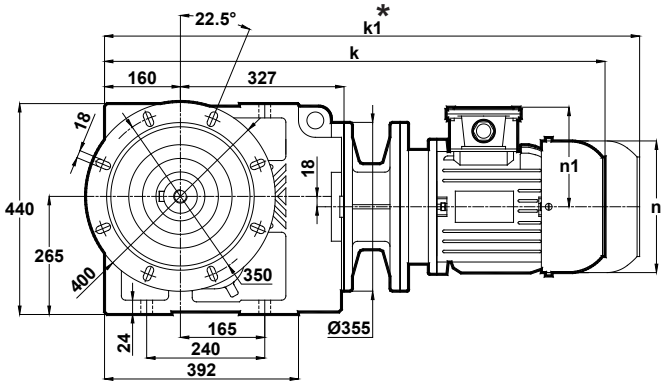
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

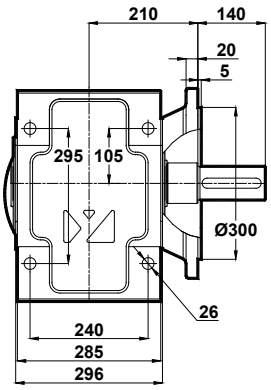


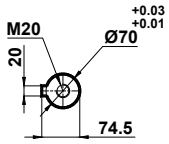
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-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV673.02

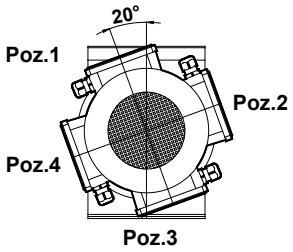






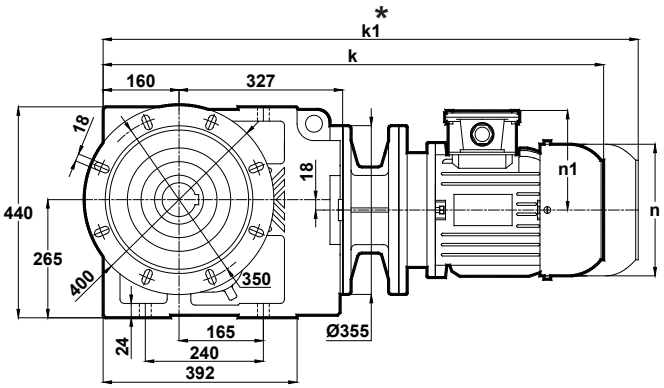
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	872	892	951	989	1136	1180	1193	1231	1303	1374	1399
k1	1007	1027	1096	1134	1306	1350	1363	1401	1503	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

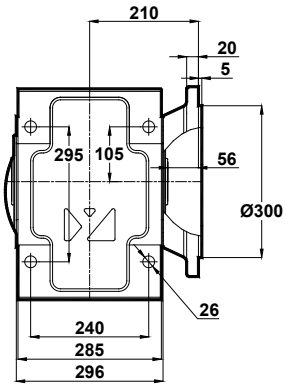
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

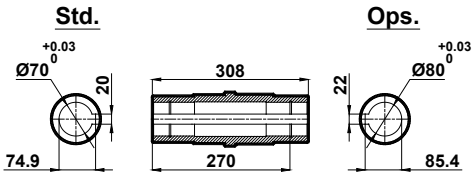


100-112-132-160-180-200-225
Tip / *Type* / Typ

KV673.03

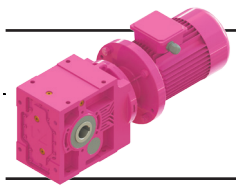






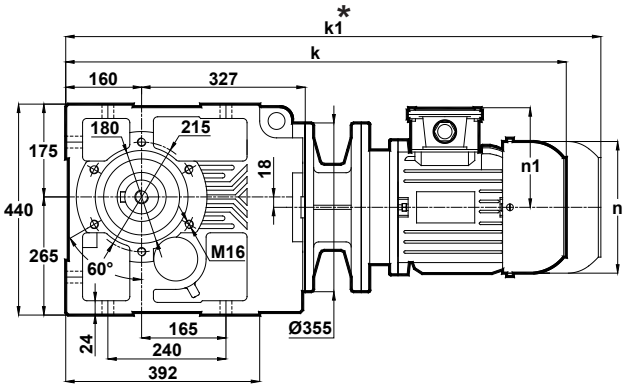
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	872	892	951	989	1136	1180	1193	1231	1303	1374	1399
k1	1007	1027	1096	1134	1306	1350	1363	1401	1503	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

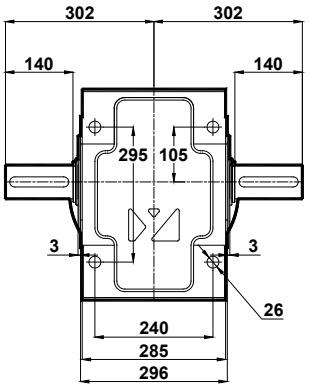
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

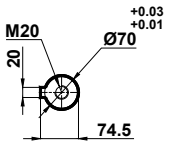


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

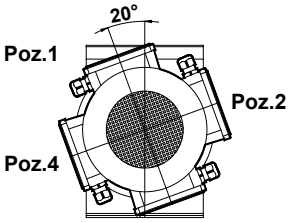
KV673.04







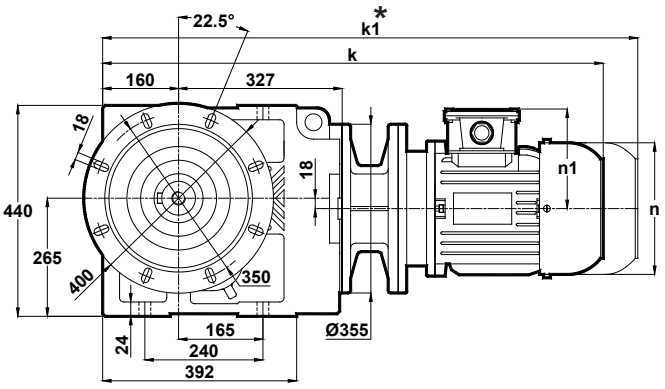
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

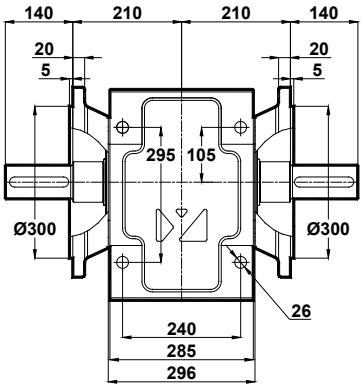


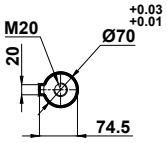
100-112-132-160-180-200-225
Tip / *Type* / Typ

	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	872	892	951	989	1136	1180	1193	1231	1303	1374	1399
k1	1007	1027	1096	1134	1306	1350	1363	1401	1503	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

KV673.05

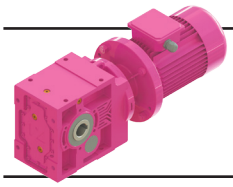






	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	872	892	951	989	1136	1180	1193	1231	1303	1374	1399
k1	1007	1027	1096	1134	1306	1350	1363	1401	1503	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

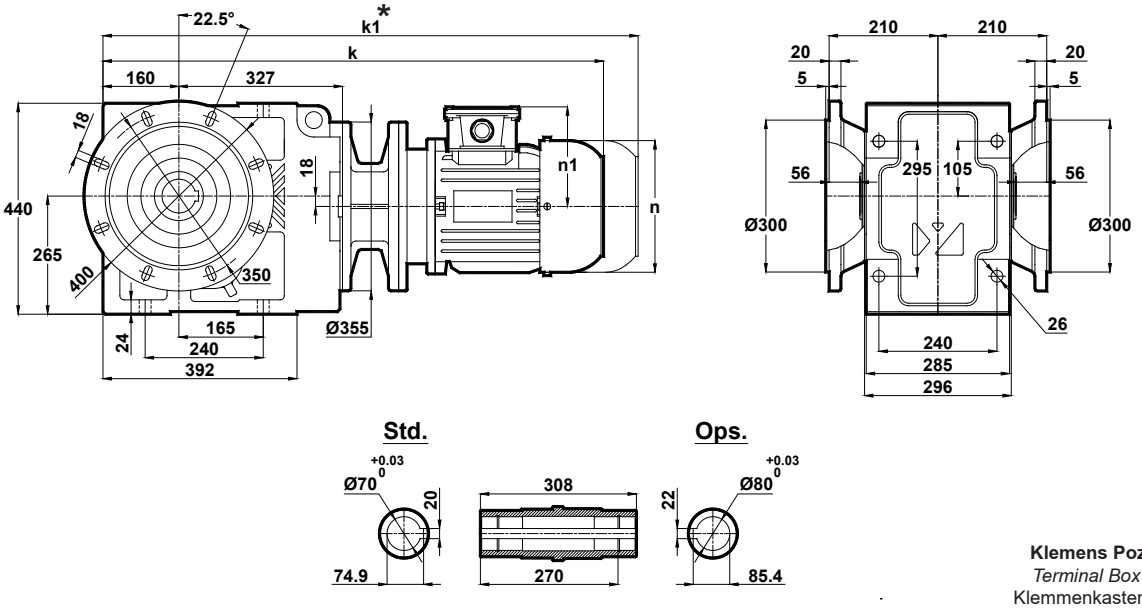
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

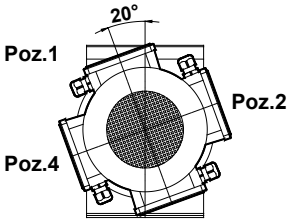
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV673.08



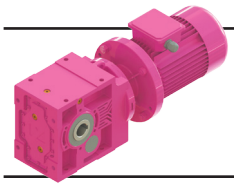
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	872	892	951	989	1136	1180	1193	1231	1303	1374	1399
k1	1007	1027	1096	1134	1306	1350	1363	1401	1503	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



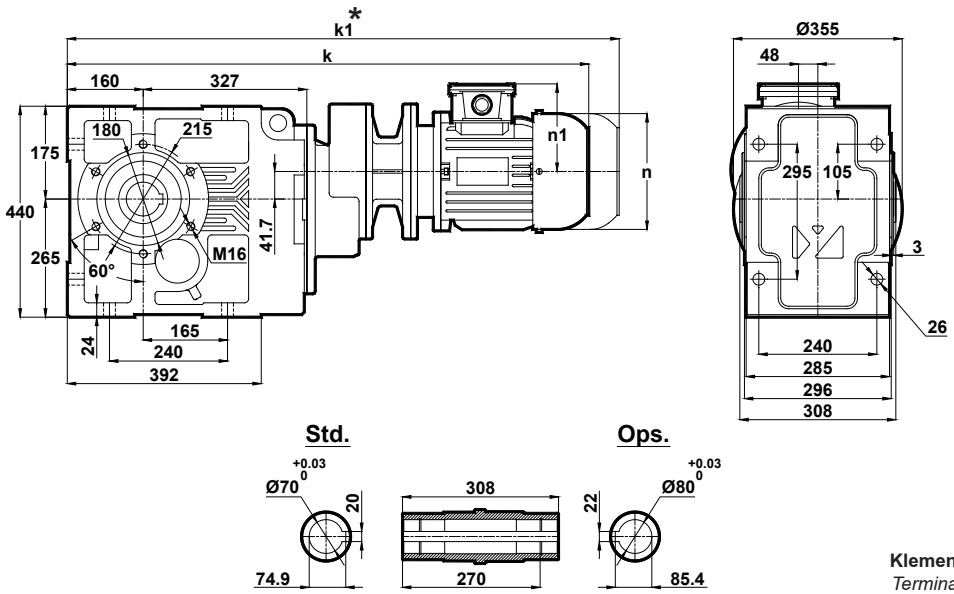
100-112-132-160-180-200-225
Tip / *Type* / Typ

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



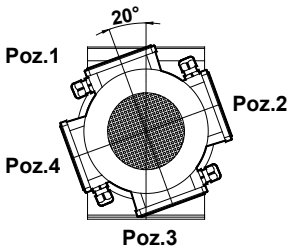
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV674.00



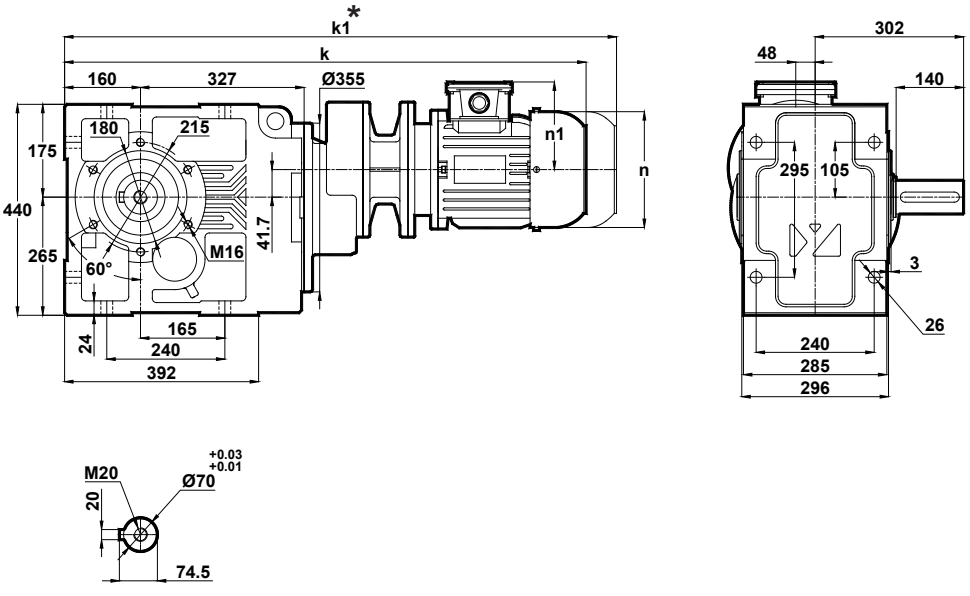
	80/B5	90S/B5	90L/B5	100L/B5
k	885	905	930	980
k1	1005	1030	1055	1115
n	156	176	176	194
n1	118	126	126	135

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



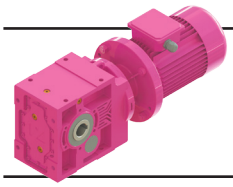
80-90-100
Tip / *Type* / Typ

KV674.01



	80/B5	90S/B5	90L/B5	100L/B5
k	885	905	930	980
k1	1005	1030	1055	1115
n	156	176	176	194
n1	118	126	126	135

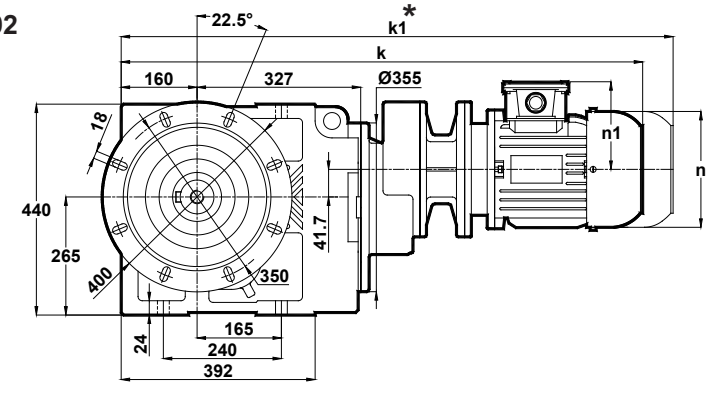
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

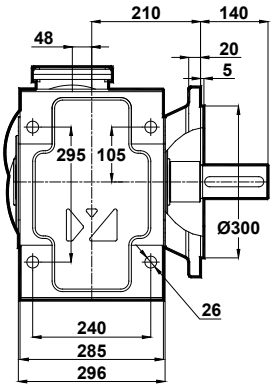


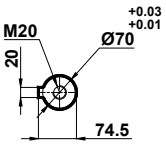
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

KV674.02

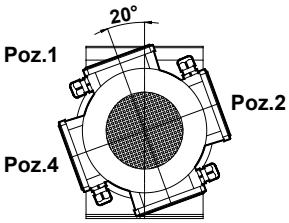






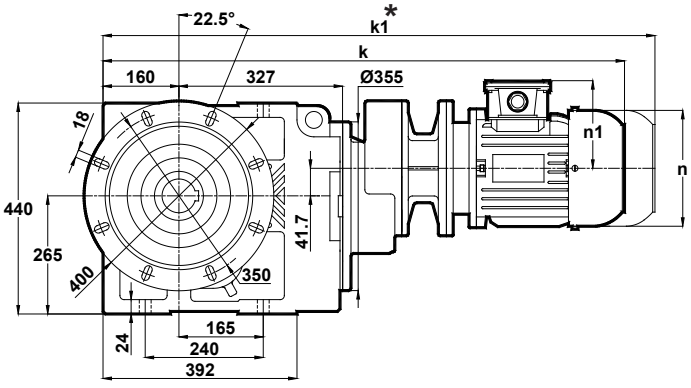
	80/B5	90S/B5	90L/B5	100L/B5
k	885	905	930	980
k1	1005	1030	1055	1115
n	156	176	176	194
n1	118	126	126	135

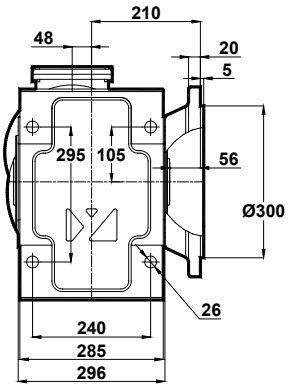
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



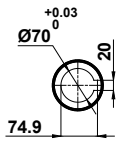
80-90-100
Tip / *Type* / Typ

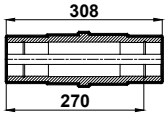
KV674.03



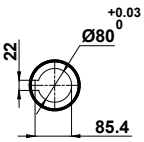


Std.



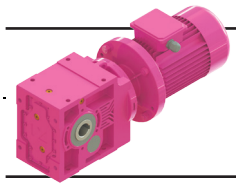


Ops.



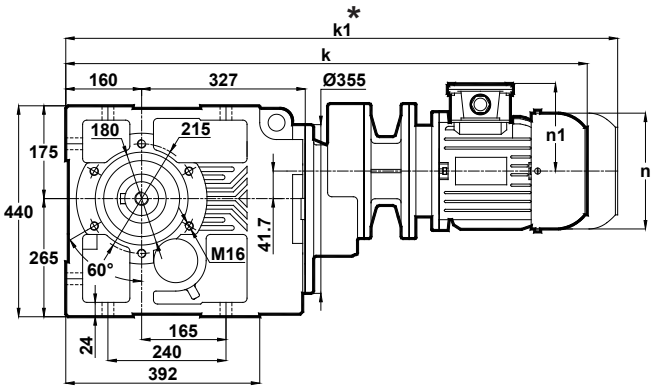
	80/B5	90S/B5	90L/B5	100L/B5
k	885	905	930	980
k1	1005	1030	1055	1115
n	156	176	176	194
n1	118	126	126	135

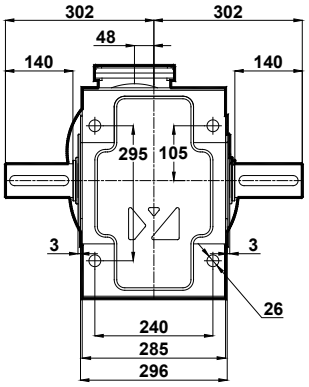
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

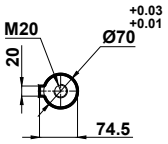


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV674.04

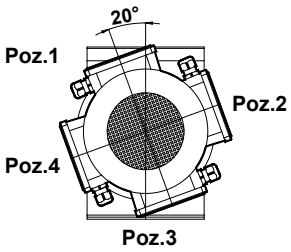






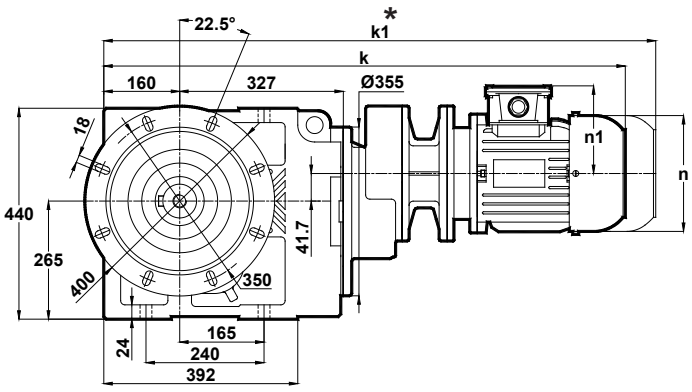
	80/B5	90S/B5	90L/B5	100L/B5
k	885	905	930	980
k1	1005	1030	1055	1115
n	156	176	176	194
n1	118	126	126	135

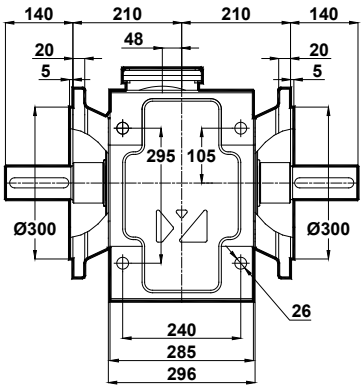
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

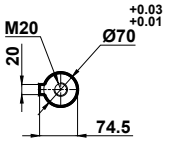


80-90-100
Tip / *Type* / Typ

KV674.05

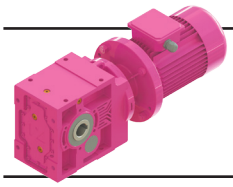






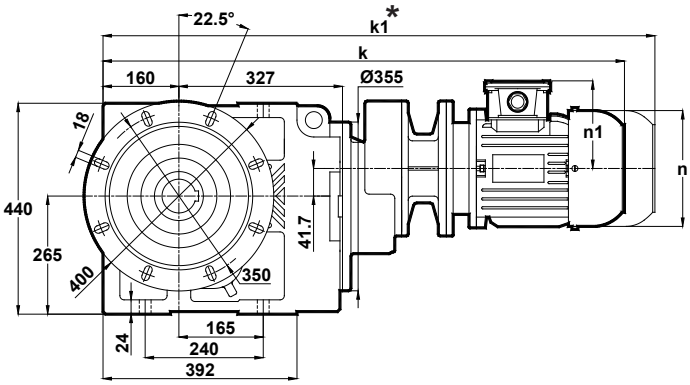
	80/B5	90S/B5	90L/B5	100L/B5
k	885	905	930	980
k1	1005	1030	1055	1115
n	156	176	176	194
n1	118	126	126	135

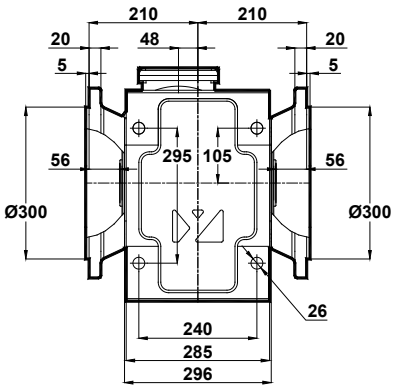
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

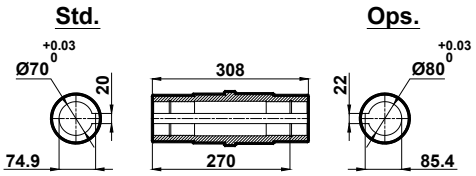


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV674.08

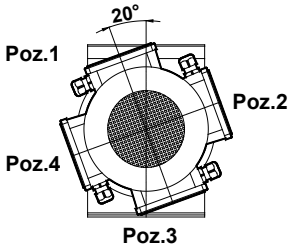






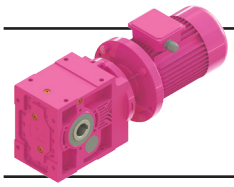
	80/B5	90S/B5	90L/B5	100L/B5
k	885	905	930	980
k1	1005	1030	1055	1115
n	156	176	176	194
n1	118	126	126	135

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



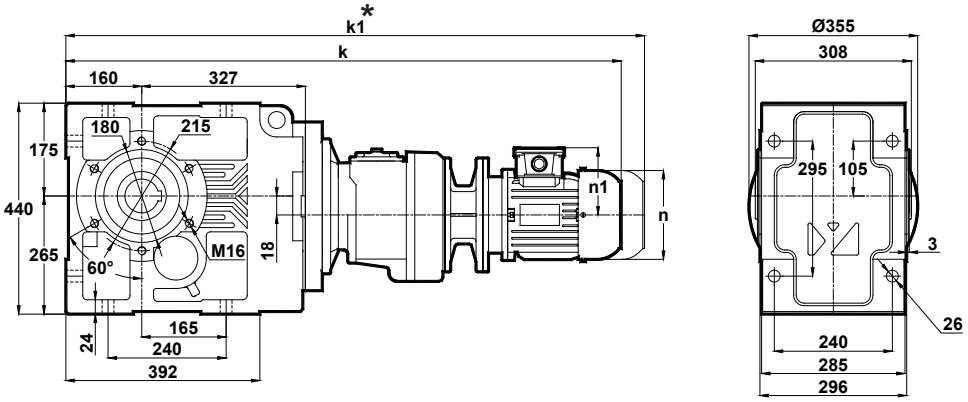
80-90-100
Tip / *Type* / Typ

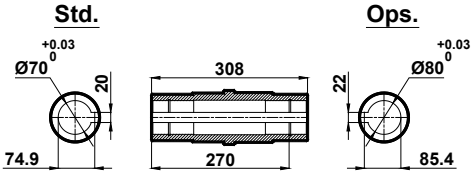
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



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

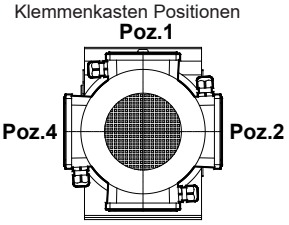
KV675.00
KV676.00





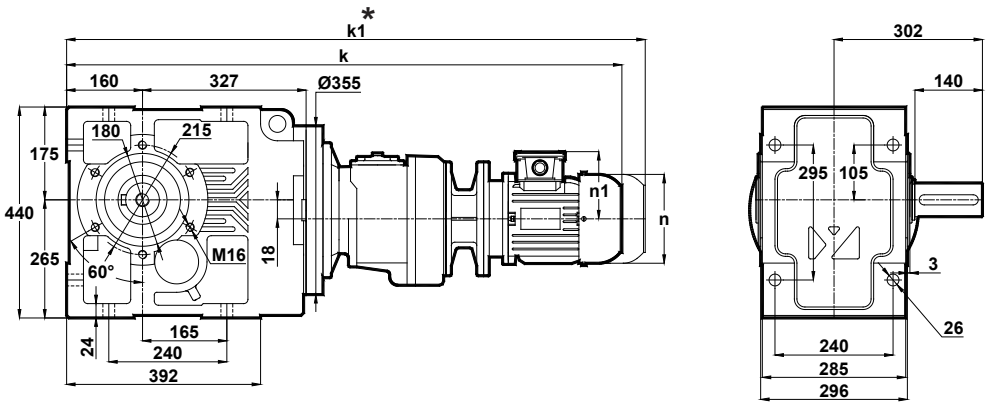
	71/B5	80/B5	90S/B5	90L/B5
k	1016	1036	1056	1081
k1	1136	1156	1181	1206
n	138	156	176	176
n1	110	118	126	126

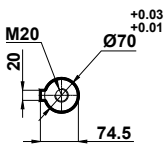
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



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

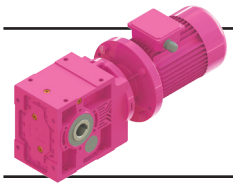
KV675.01
KV676.01





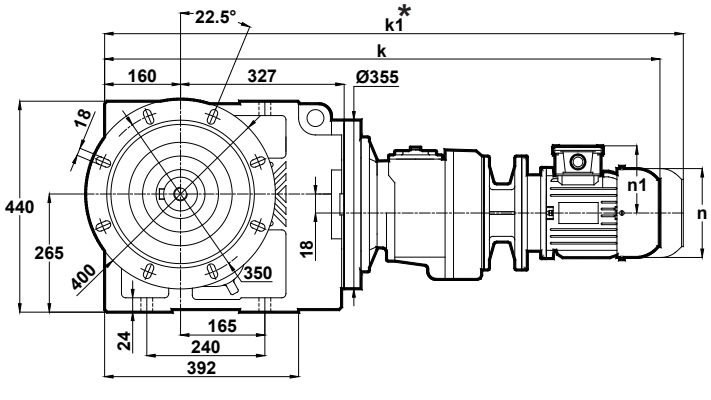
	71/B5	80/B5	90S/B5	90L/B5
k	1016	1036	1056	1081
k1	1136	1156	1181	1206
n	138	156	176	176
n1	110	118	126	126

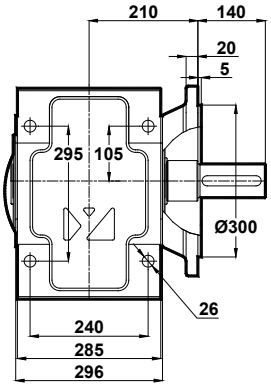
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

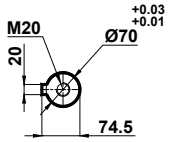


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV675.02
KV676.02

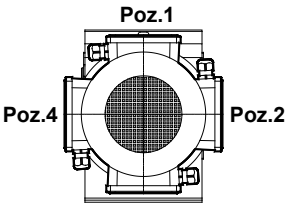






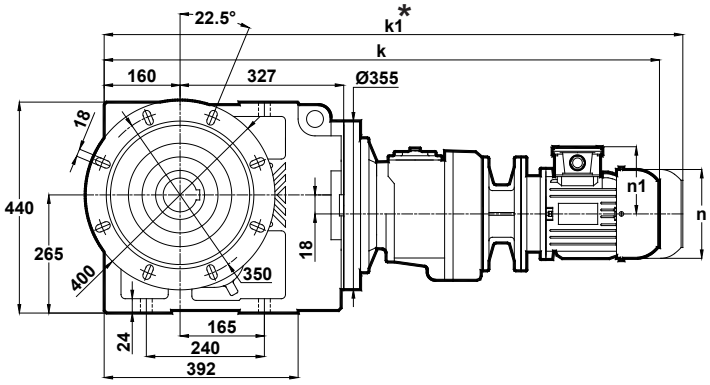
	71/B5	80/B5	90S/B5	90L/B5
k	1016	1036	1056	1081
k1	1136	1156	1181	1206
n	138	156	176	176
n1	110	118	126	126

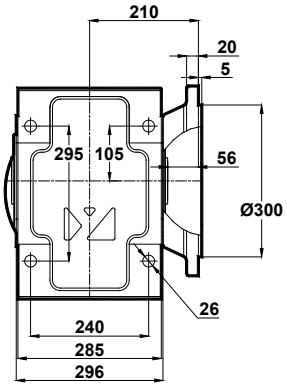
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



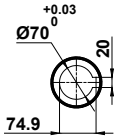
71-80-90
Tip / *Type* / Typ

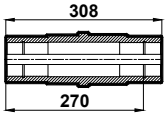
KV675.03
KV676.03



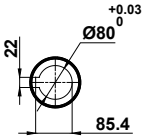


Std.



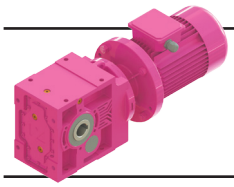


Ops.



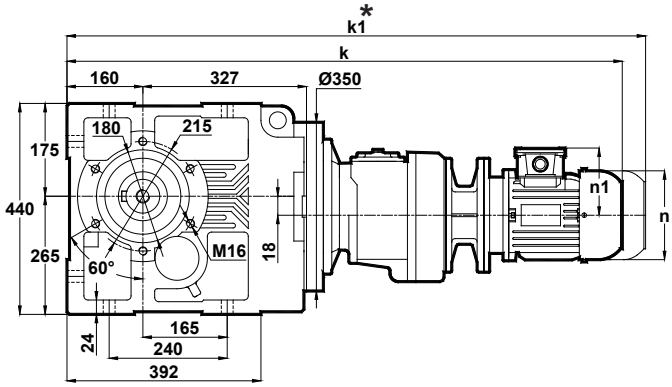
	71/B5	80/B5	90S/B5	90L/B5
k	1016	1036	1056	1081
k1	1136	1156	1181	1206
n	138	156	176	176
n1	110	118	126	126

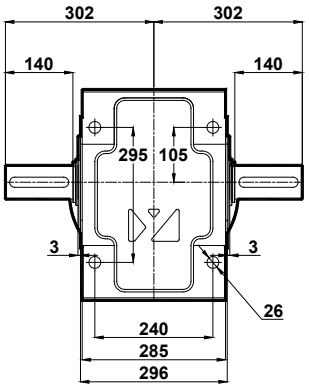
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

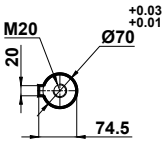


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

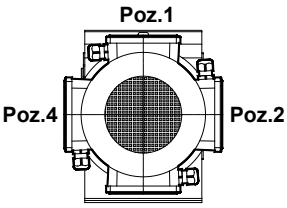
KV675.04
KV676.04







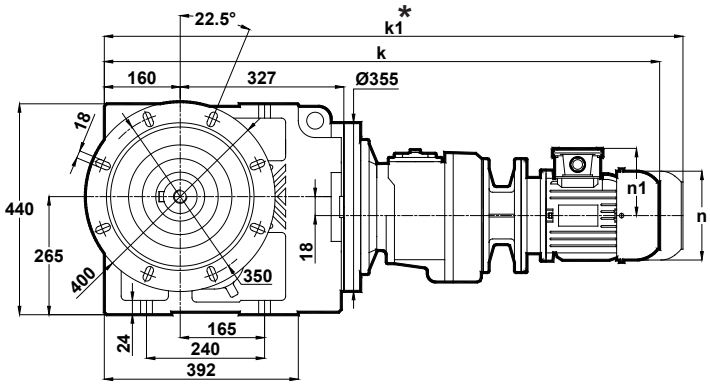
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

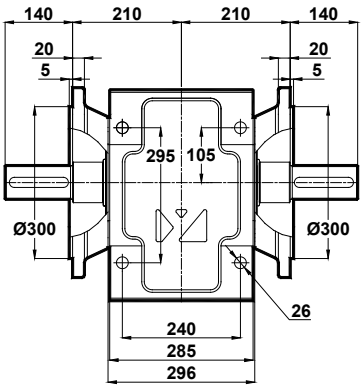


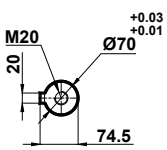
71-80-90
Tip / *Type* / Typ

	71/B5	80/B5	90S/B5	90L/B5
k	1016	1036	1056	1081
k1	1136	1156	1181	1206
n	138	156	176	176
n1	110	118	126	126

KV675.05
KV676.05

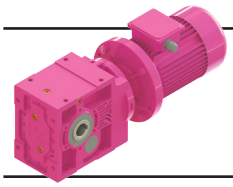






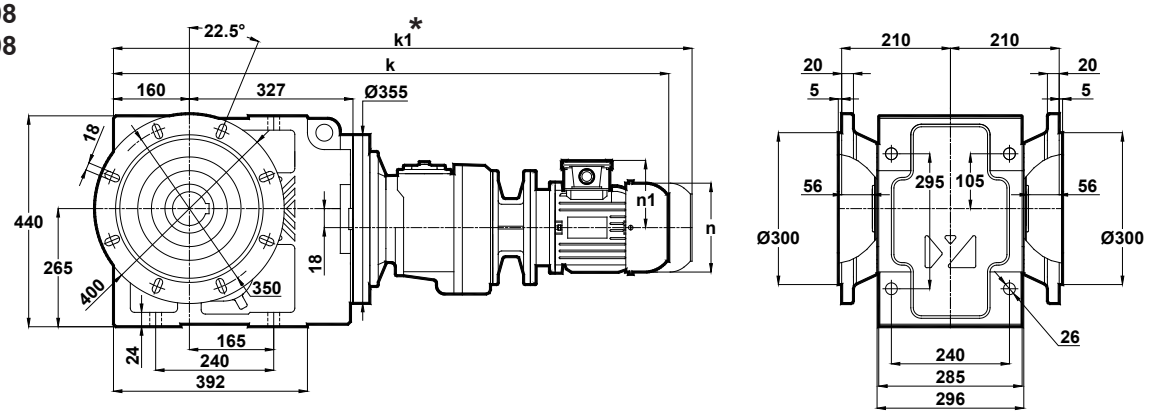
	71/B5	80/B5	90S/B5	90L/B5
k	1016	1036	1056	1081
k1	1136	1156	1181	1206
n	138	156	176	176
n1	110	118	126	126

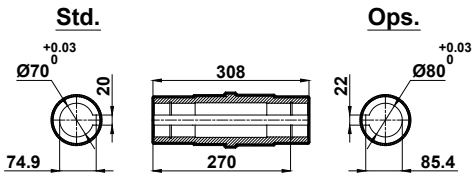
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.



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

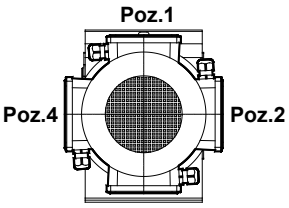
KV675.08
KV676.08





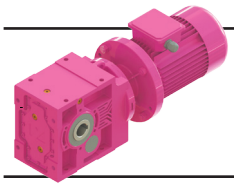
	71/B5	80/B5	90S/B5	90L/B5
k	1016	1036	1056	1081
k1	1136	1156	1181	1206
n	138	156	176	176
n1	110	118	126	126

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



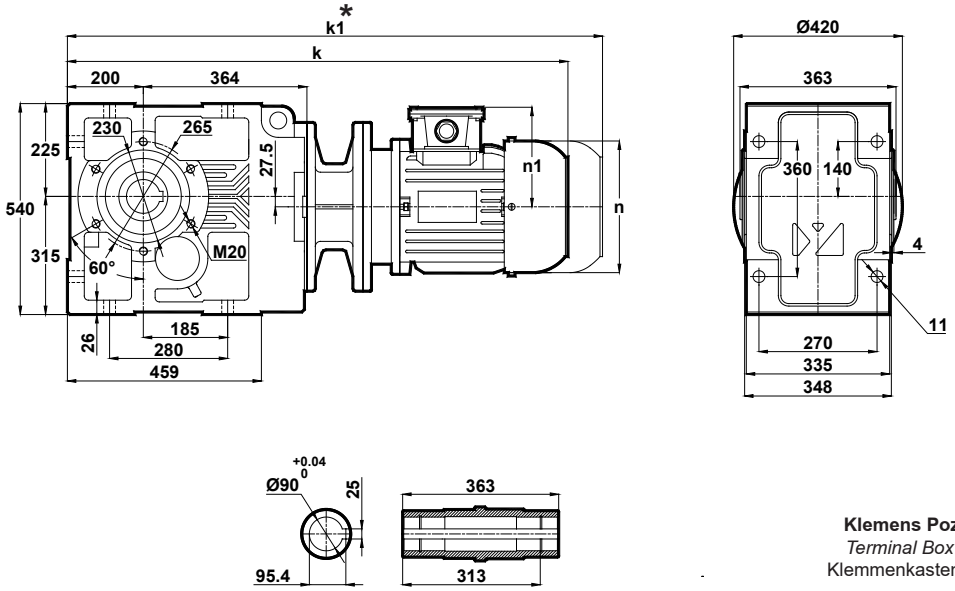
71-80-90
Tip / *Type* / Typ

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



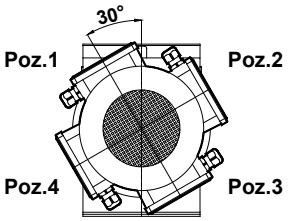
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV773.00



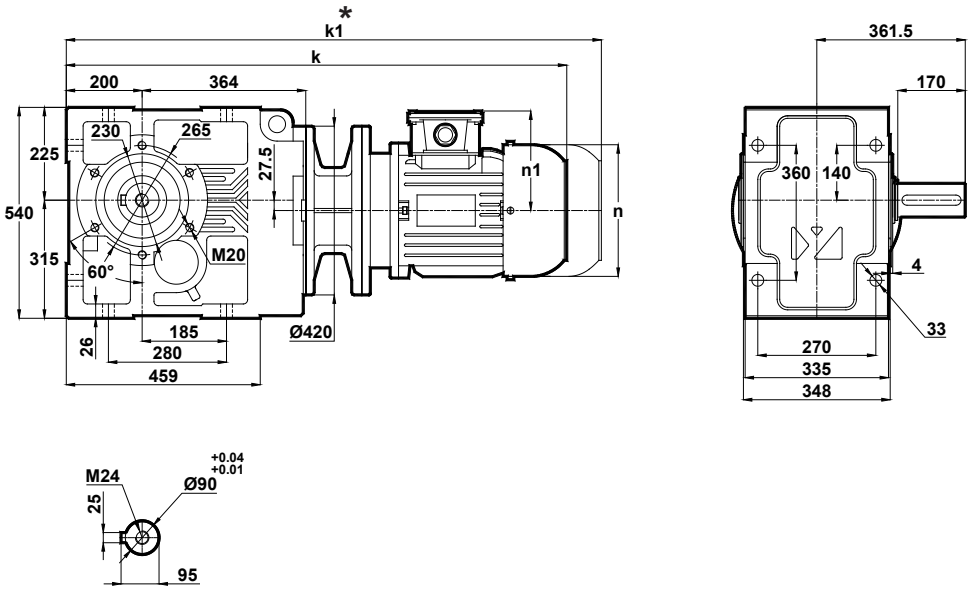
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1028	1066	1207	1251	1264	1302	1376	1447	1472	1548
k1	1173	1211	1377	1421	1434	1472	1576	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



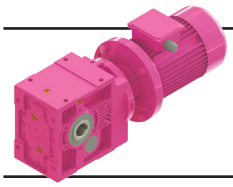
132-160-180-200-225-250
Tip / *Type* / Typ

KV773.01



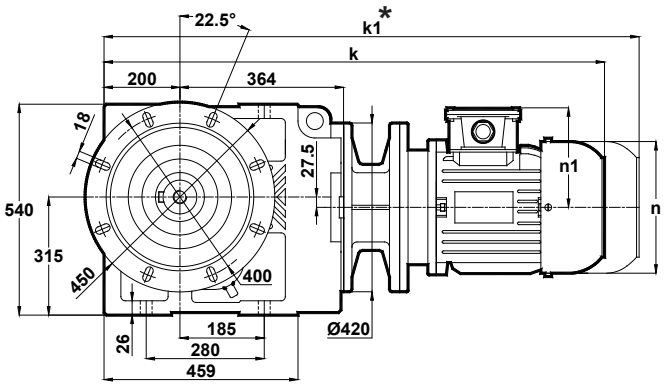
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1028	1066	1207	1251	1264	1302	1376	1447	1472	1548
k1	1173	1211	1377	1421	1434	1472	1576	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

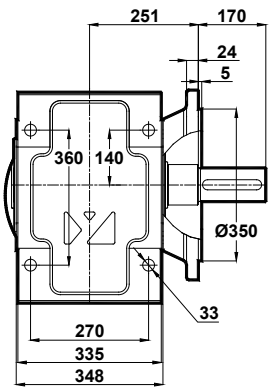
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

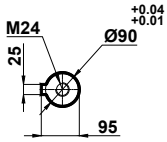


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV773.02

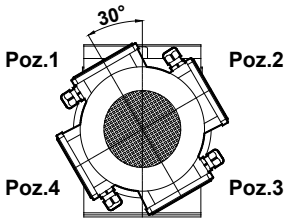






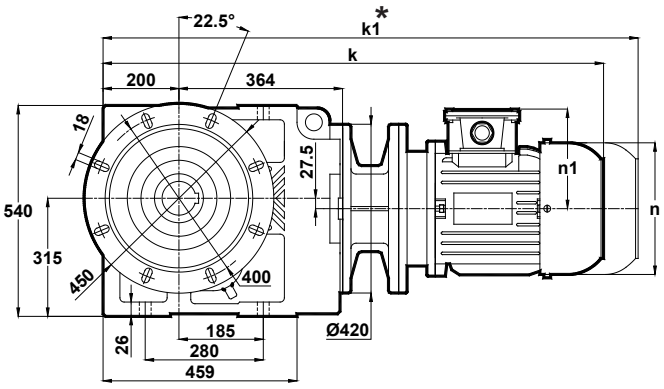
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1028	1066	1207	1251	1264	1302	1376	1447	1472	1548
k1	1173	1211	1377	1421	1434	1472	1576	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

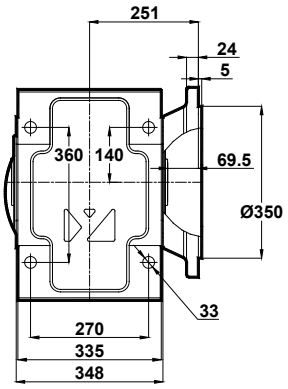
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

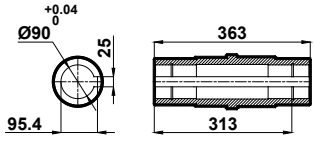


132-160-180-200-225-250
Tip / *Type* / Typ

KV773.03

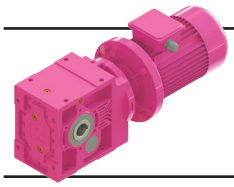






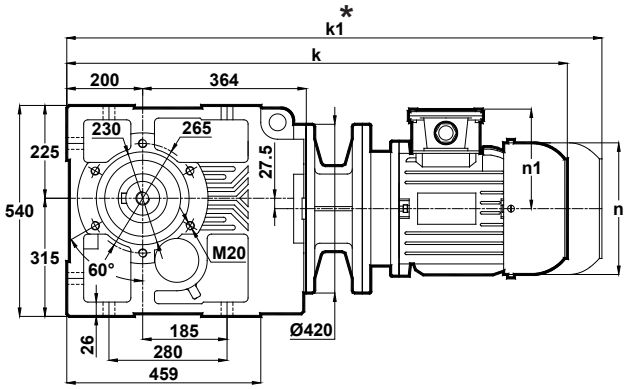
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1028	1066	1207	1251	1264	1302	1376	1447	1472	1548
k1	1173	1211	1377	1421	1434	1472	1576	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

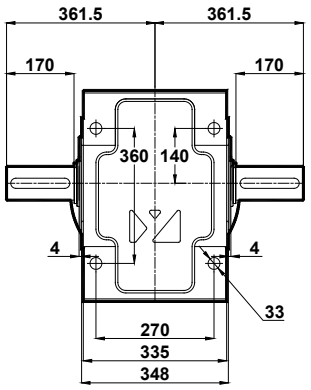
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

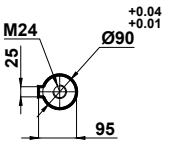


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

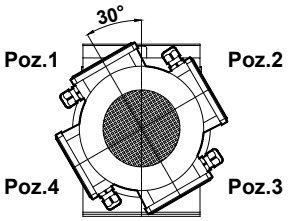
KV773.04







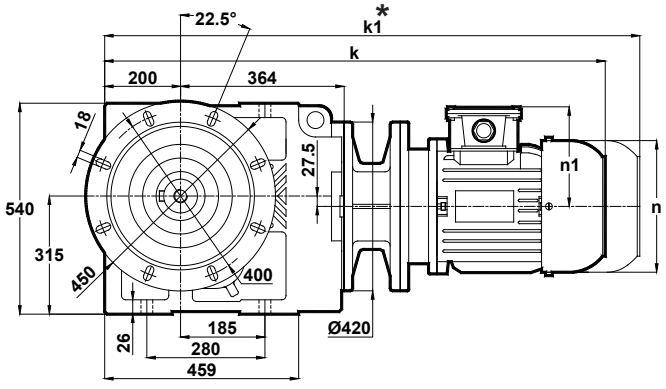
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

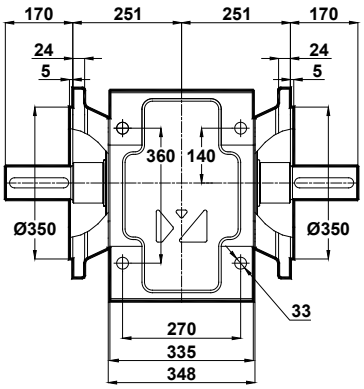


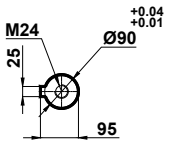
132-160-180-200-225-250
Tip / *Type* / Typ

	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1028	1066	1207	1251	1264	1302	1376	1447	1472	1548
k1	1173	1211	1377	1421	1434	1472	1576	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

KV773.05

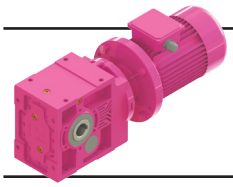






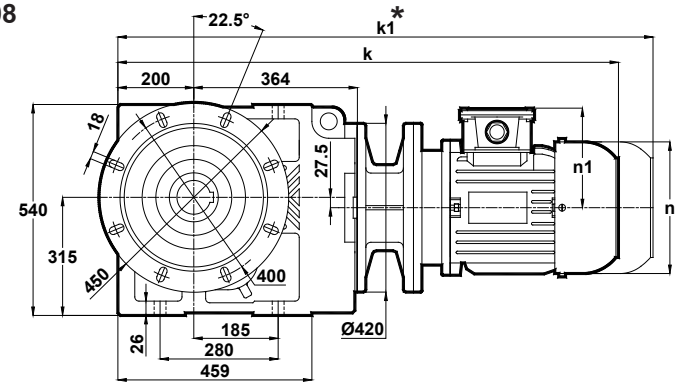
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1028	1066	1207	1251	1264	1302	1376	1447	1472	1548
k1	1173	1211	1377	1421	1434	1472	1576	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

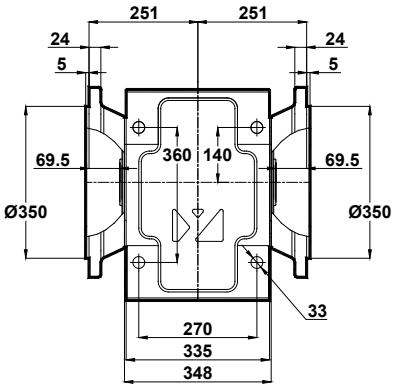
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

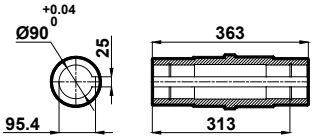


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV773.08

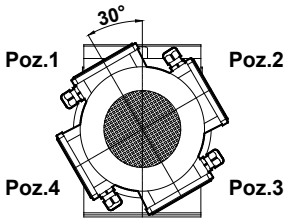






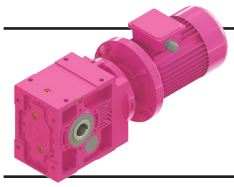
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1028	1066	1207	1251	1264	1302	1376	1447	1472	1548
k1	1173	1211	1377	1421	1434	1472	1576	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



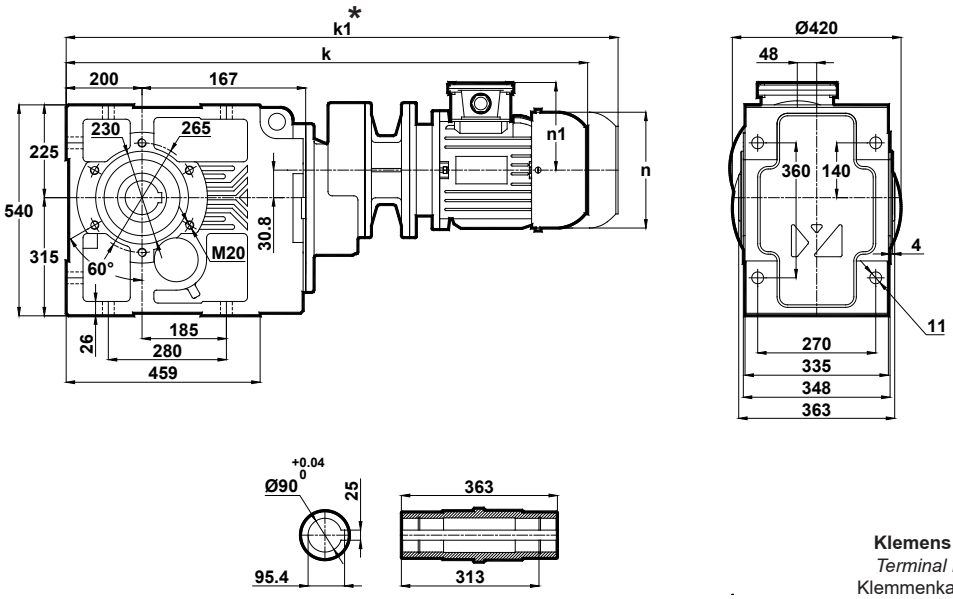
132-160-180-200-225-250
Tip / *Type* / Typ

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



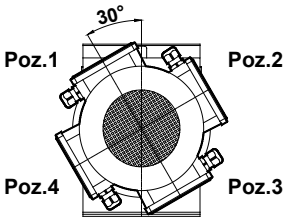
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV774.00



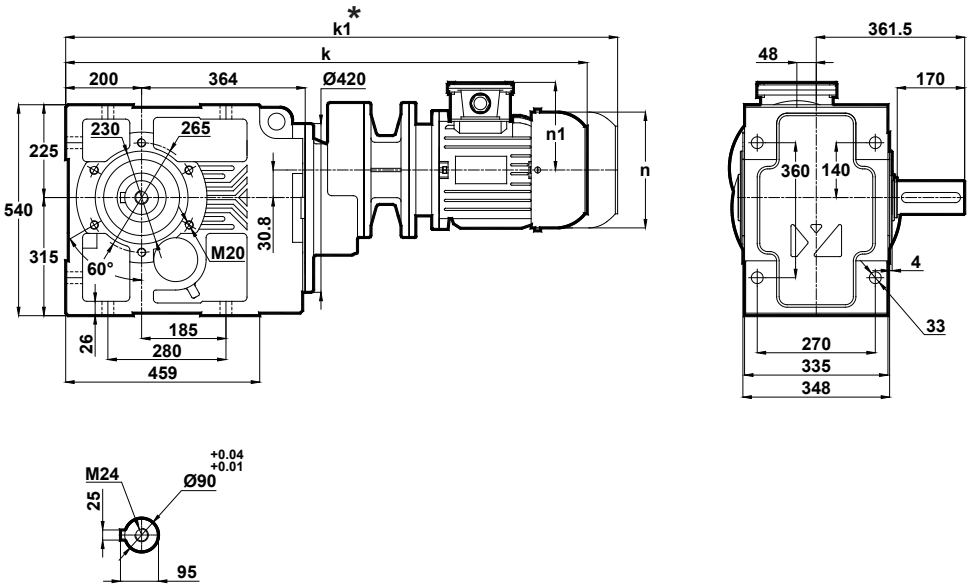
	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	982	1007	1057	1077	1140	1178
k1	1107	1132	1192	1212	1285	1323
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



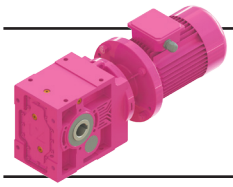
90-100-112-132
Tip / *Type* / Typ

KV774.01



	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	982	1007	1057	1077	1140	1178
k1	1107	1132	1192	1212	1285	1323
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

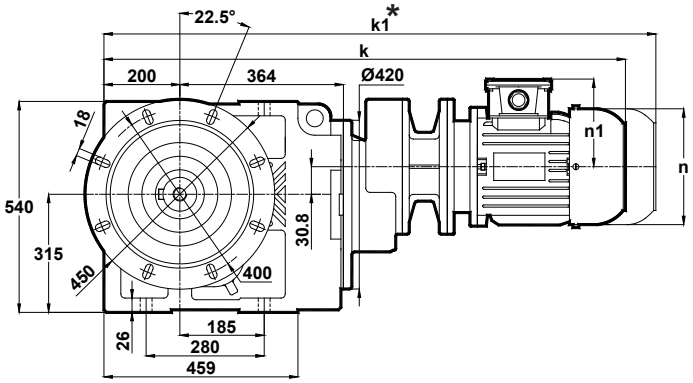
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

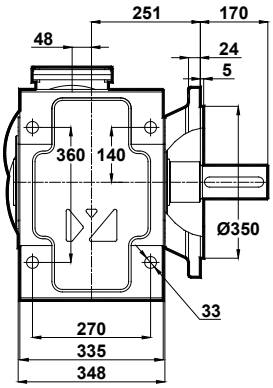


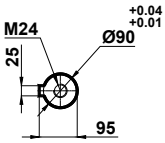
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

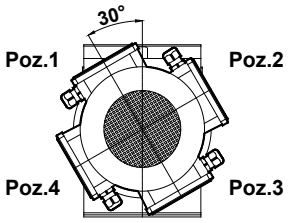
KV774.02







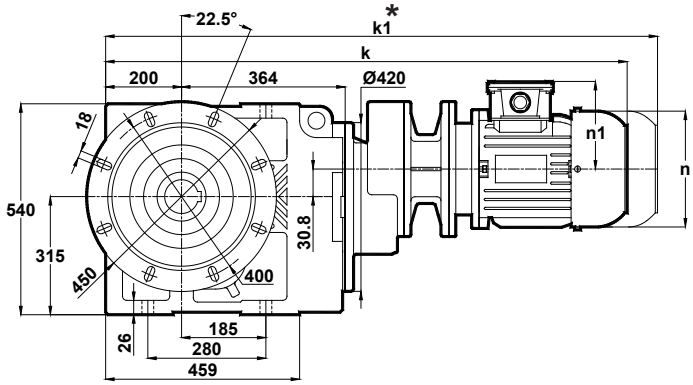
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

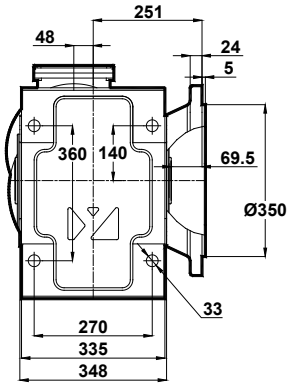


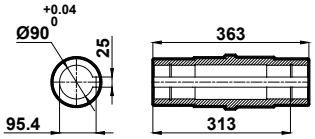
90-100-112-132
Tip / *Type* / Typ

	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	982	1007	1057	1077	1140	1178
k1	1107	1132	1192	1212	1285	1323
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

KV774.03

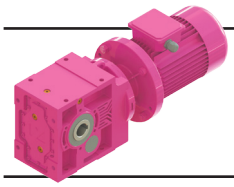






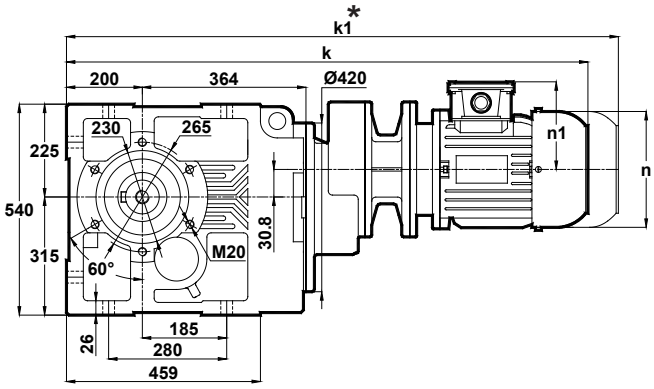
	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	982	1007	1057	1077	1140	1178
k1	1107	1132	1192	1212	1285	1323
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

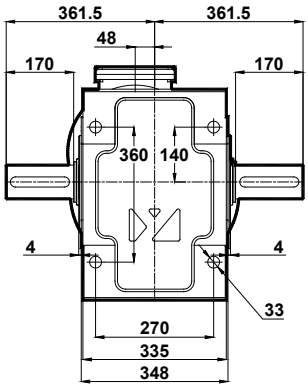
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

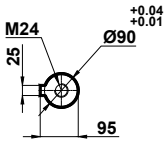


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV774.04

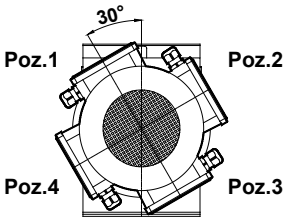






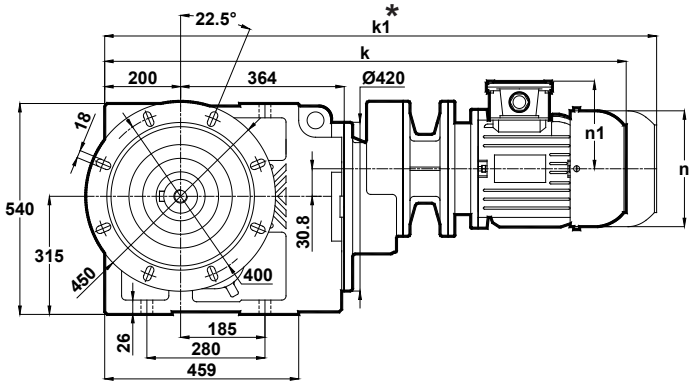
	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	982	1007	1057	1077	1140	1178
k1	1107	1132	1192	1212	1285	1323
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

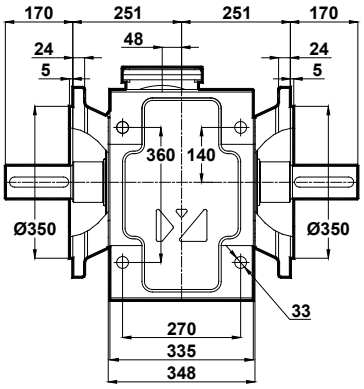
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

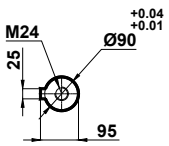


90-100-112-132
Tip / *Type* / Typ

KV774.05

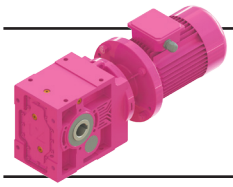






	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	982	1007	1057	1077	1140	1178
k1	1107	1132	1192	1212	1285	1323
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

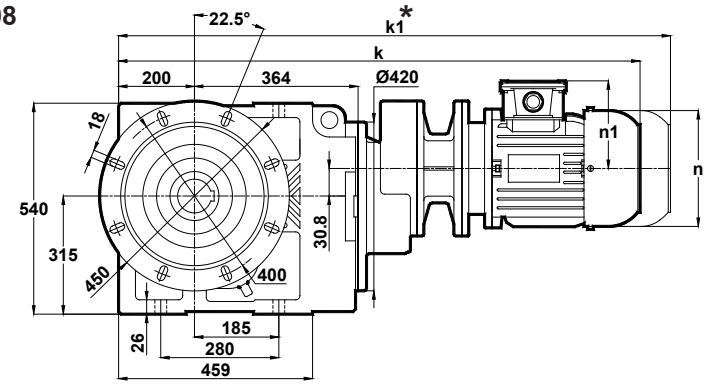
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

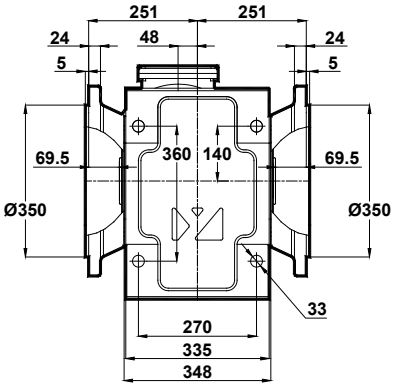


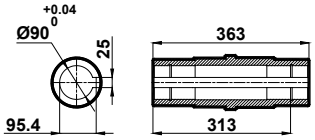
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

-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

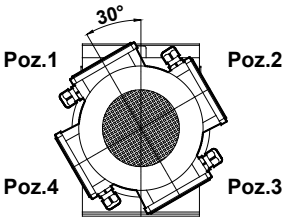






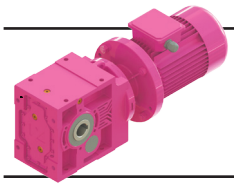
	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	982	1007	1057	1077	1140	1178
k1	1107	1132	1192	1212	1285	1323
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



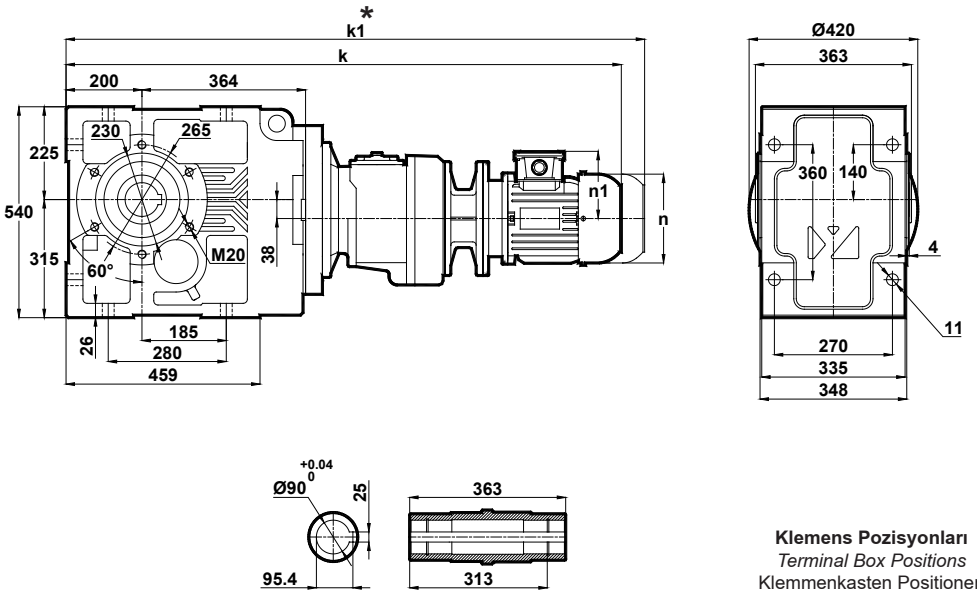
90-100-112-132
Tip / *Type* / Typ

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



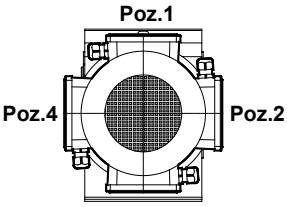
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV775.00
KV776.00



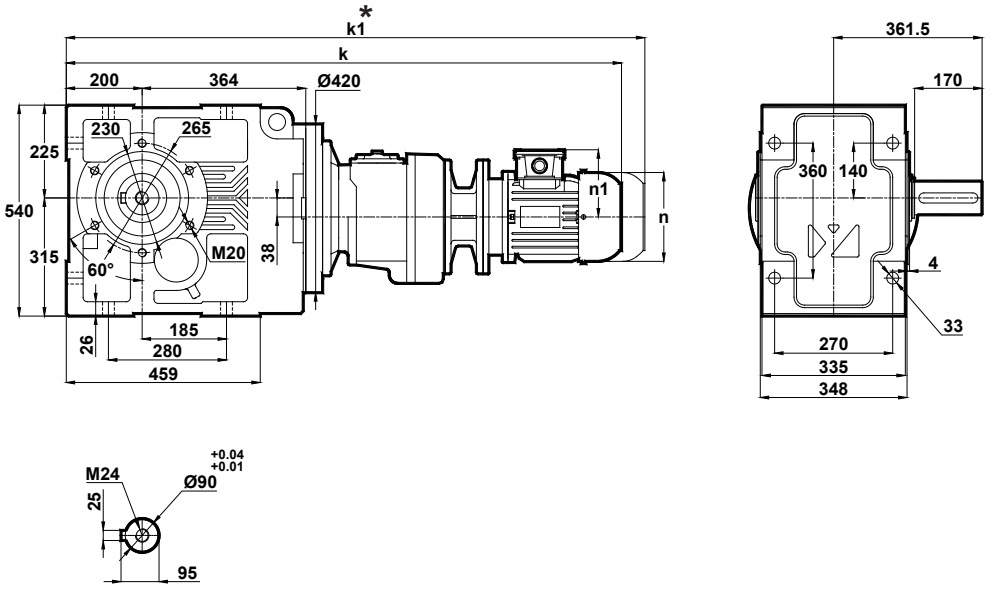
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	1093	1113	1133	1158	1207
k1	1213	1233	1258	1283	1342
n	138	156	176	176	194
n1	110	118	126	126	135



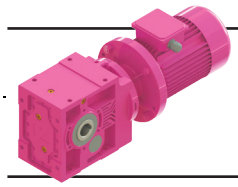
71-80-90-100
Tip / *Type* / Typ

KV775.01
KV776.01



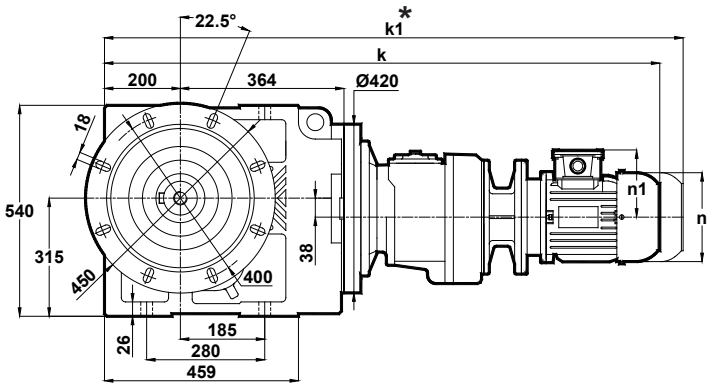
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	1093	1113	1133	1158	1207
k1	1213	1233	1258	1283	1342
n	138	156	176	176	194
n1	110	118	126	126	135

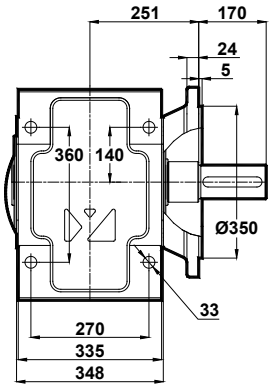
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

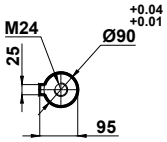


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV775.02
KV776.02

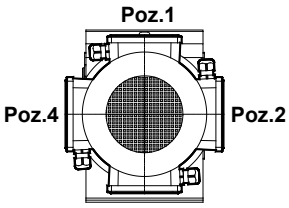






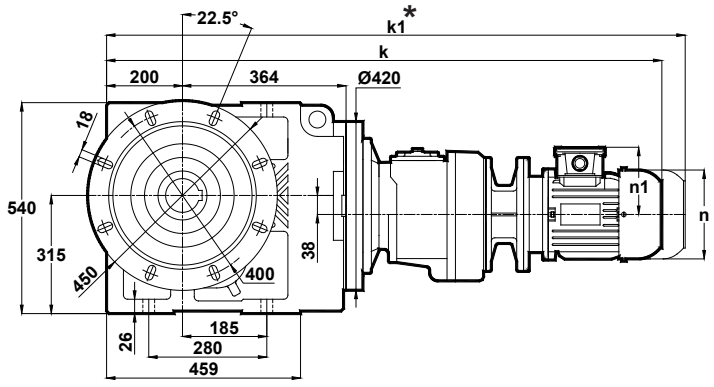
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	1093	1113	1133	1158	1207
k1	1213	1233	1258	1283	1342
n	138	156	176	176	194
n1	110	118	126	126	135

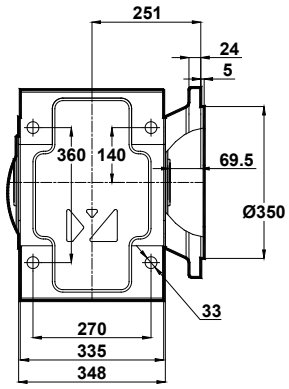
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

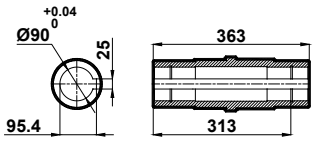


71-80-90-100
Tip / *Type* / Typ

KV775.03
KV776.03

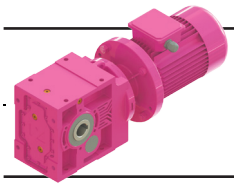






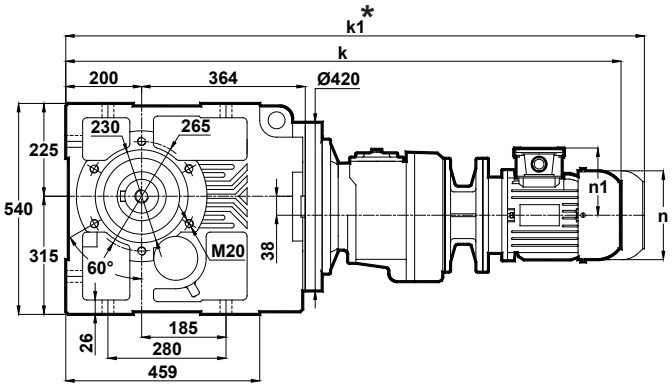
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	1093	1113	1133	1158	1207
k1	1213	1233	1258	1283	1342
n	138	156	176	176	194
n1	110	118	126	126	135

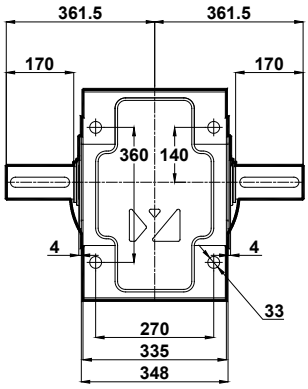
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

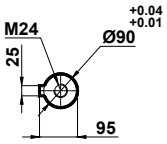


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV775.04
KV776.04

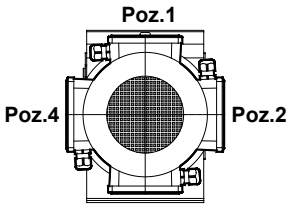






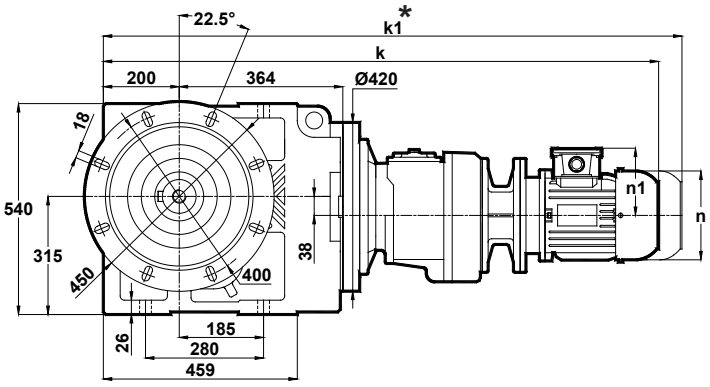
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	1093	1113	1133	1158	1207
k1	1213	1233	1258	1283	1342
n	138	156	176	176	194
n1	110	118	126	126	135

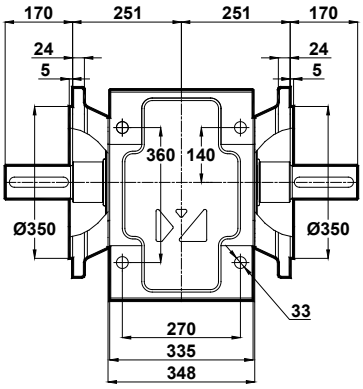
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

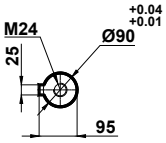


71-80-90-100
Tip / *Type* / Typ

KV775.05
KV776.05

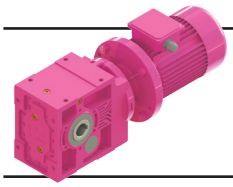






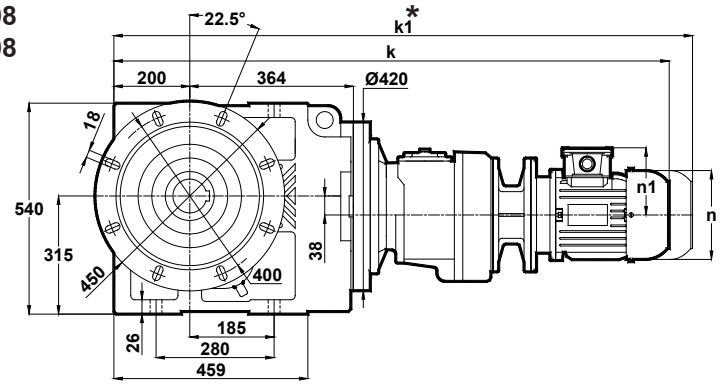
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	1093	1113	1133	1158	1207
k1	1213	1233	1258	1283	1342
n	138	156	176	176	194
n1	110	118	126	126	135

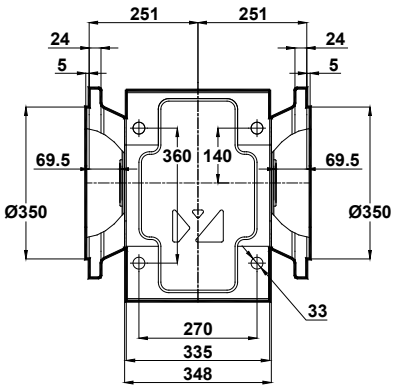
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

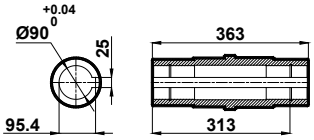


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV775.08
KV776.08

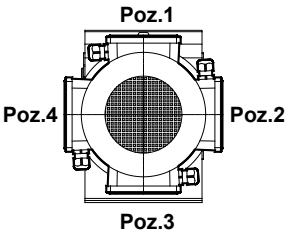






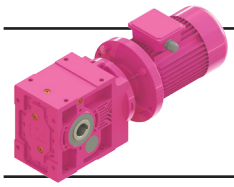
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	1093	1113	1133	1158	1207
k1	1213	1233	1258	1283	1342
n	138	156	176	176	194
n1	110	118	126	126	135

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



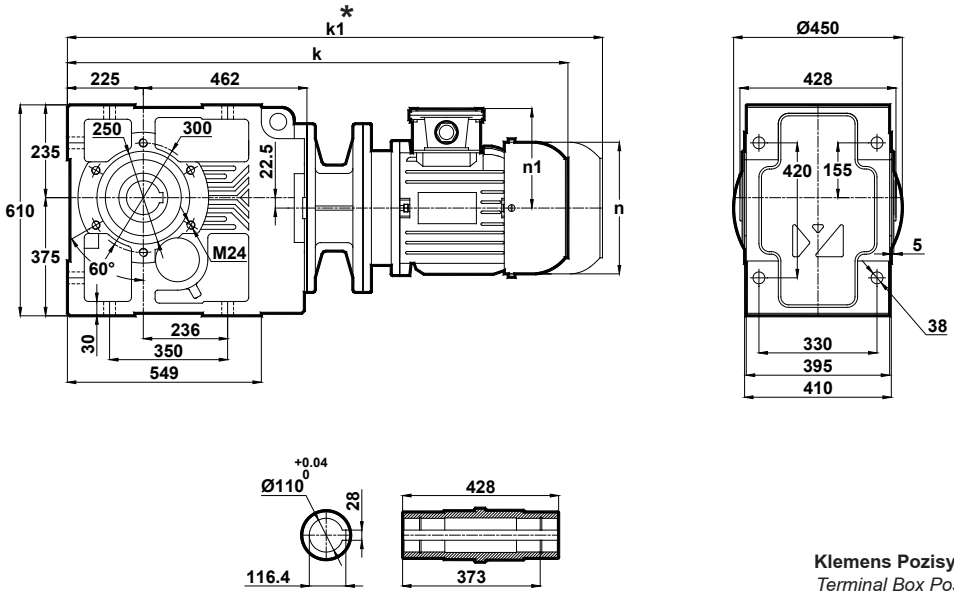
71-80-90-100
Tip / *Type* / Typ

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



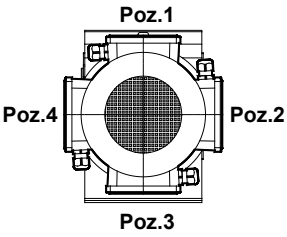
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV873.00



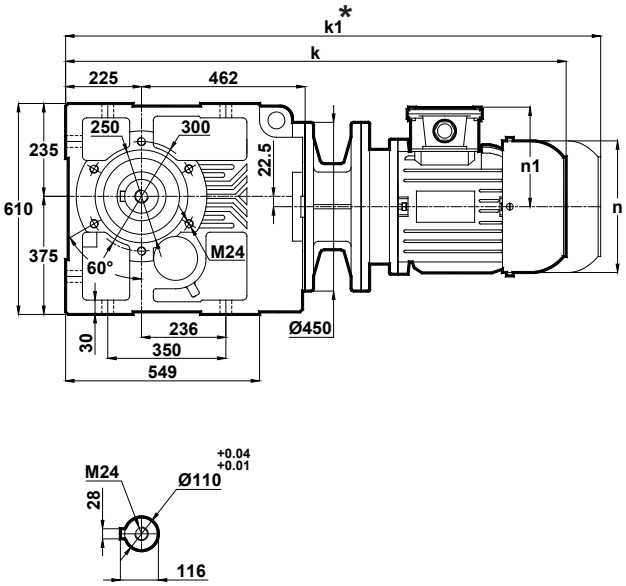
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1395	1439	1452	1490	1542	1560	1585	1661	1723	1723
k1	1595	1609	1622	1660	1742	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



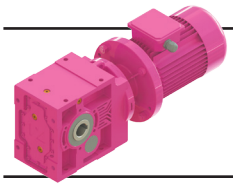
160-180-200-225-250-280
Tip / *Type* / Typ

KV873.01



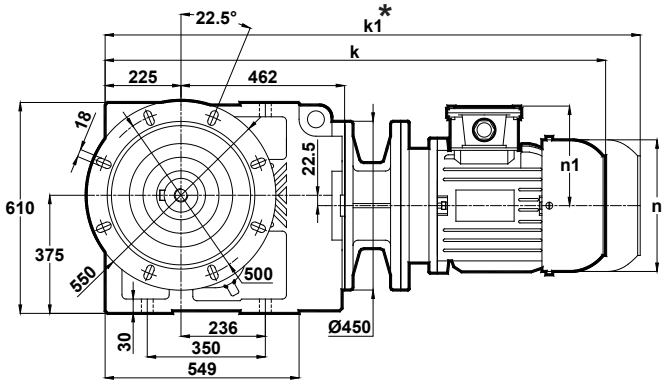
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1395	1439	1452	1490	1542	1560	1585	1661	1723	1723
k1	1595	1609	1622	1660	1742	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

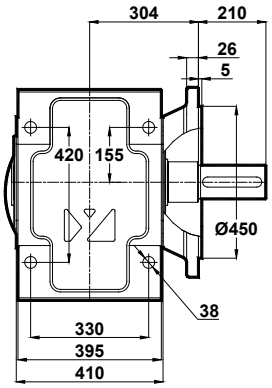
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

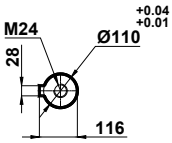


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

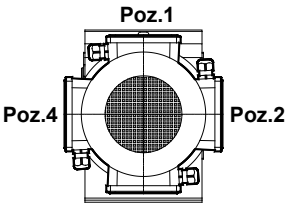
KV873.02







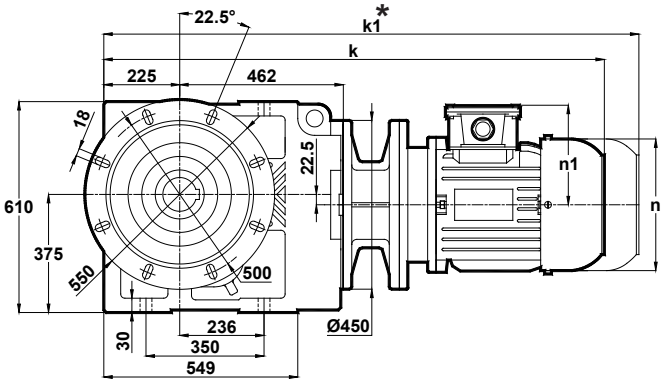
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

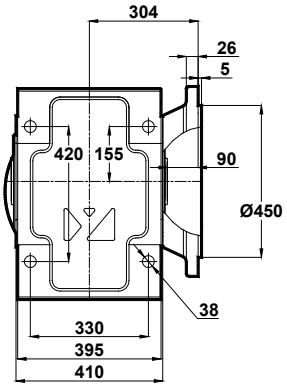


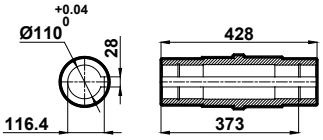
160-180-200-225-250-280
Tip / *Type* / Typ

	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1395	1439	1452	1490	1542	1560	1585	1661	1723	1723
k1	1595	1609	1622	1660	1742	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

KV873.03

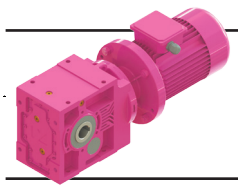






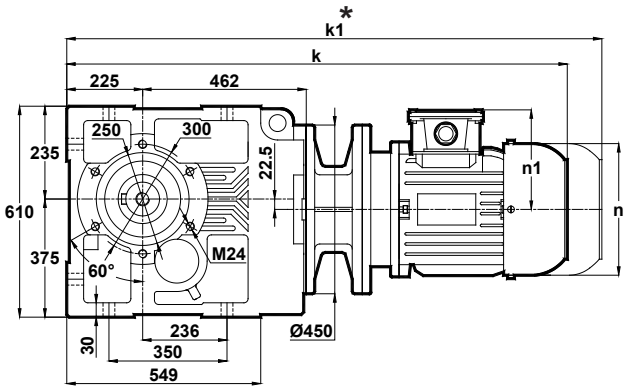
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1395	1439	1452	1490	1542	1560	1585	1661	1723	1723
k1	1595	1609	1622	1660	1742	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

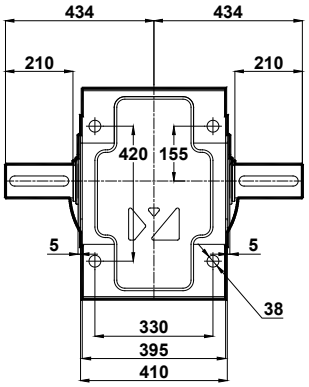
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

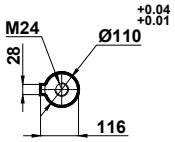


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV873.04

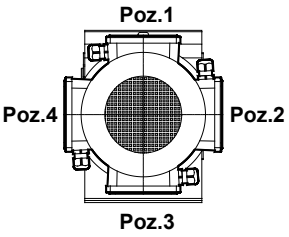






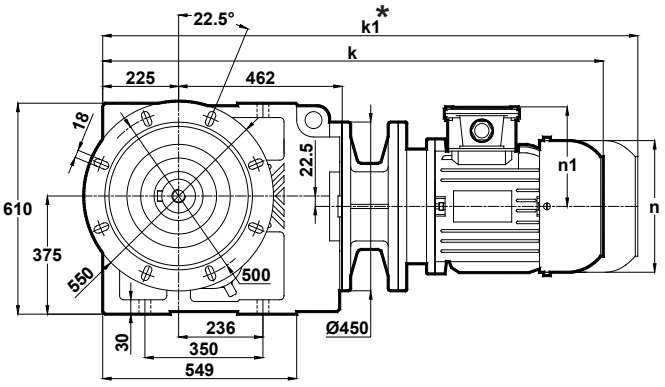
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

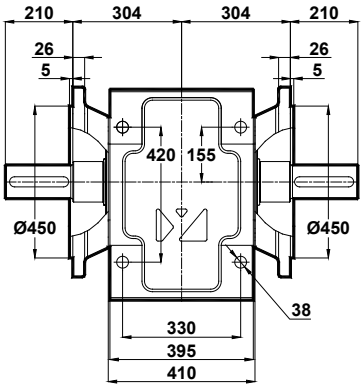
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1395	1439	1452	1490	1542	1560	1585	1661	1723	1723
k1	1565	1609	1622	1660	1742	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

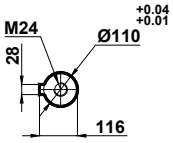


160-180-200-225-250-280
Tip / *Type* / Typ

KV873.05

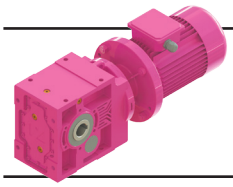






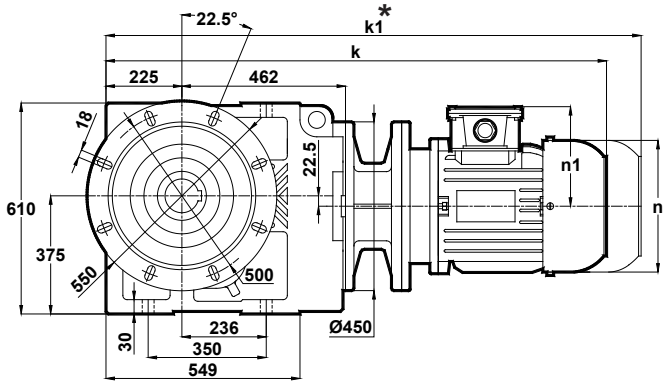
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1395	1439	1452	1490	1542	1560	1585	1661	1723	1723
k1	1595	1609	1622	1660	1742	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

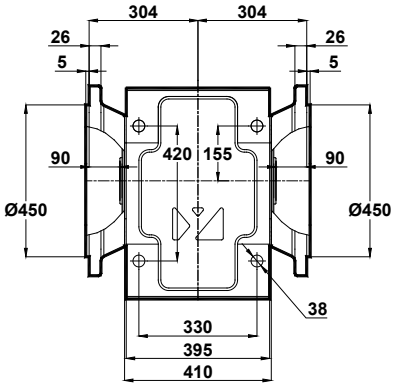
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
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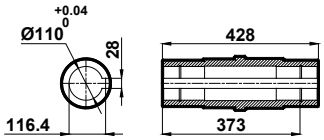


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

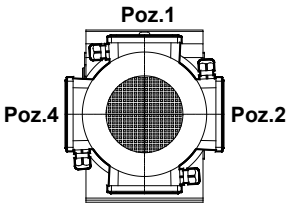
KV873.08







Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



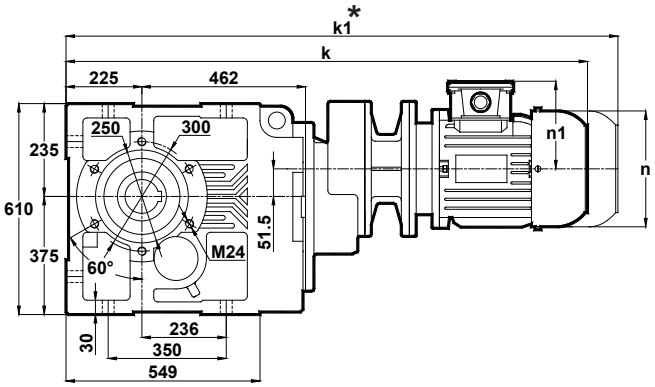
160-180-200-225-250-280
Tip / *Type* / Typ

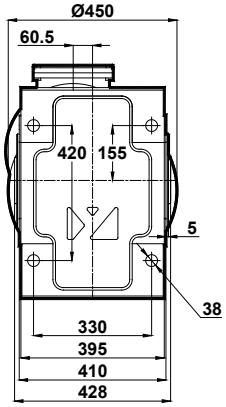
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1395	1439	1452	1490	1542	1560	1585	1661	1723	1723
k1	1595	1609	1622	1660	1742	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

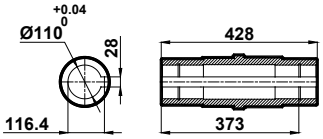
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

-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

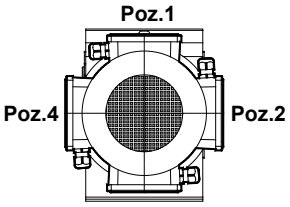






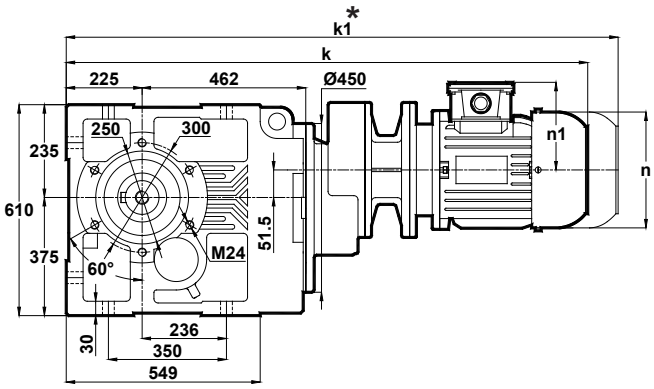
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5
k	1194	1214	1279	1317	1464	1508	1521
k1	1329	1349	1424	1462	1634	1678	1691
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

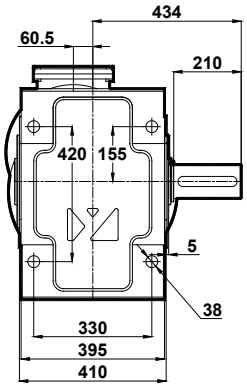
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

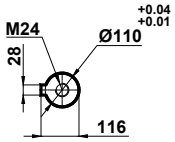


100-112-132-160-180
Tip / *Type* / Typ

KV874.01

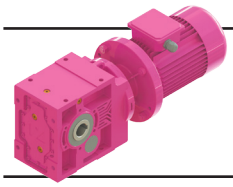






	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5
k	1194	1214	1279	1317	1464	1508	1521
k1	1329	1349	1424	1462	1634	1678	1691
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

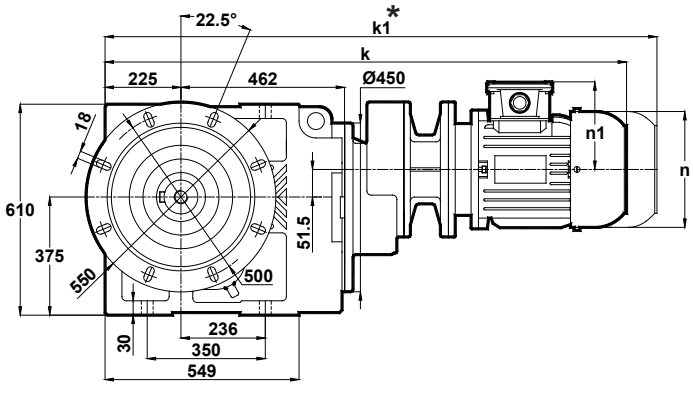
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

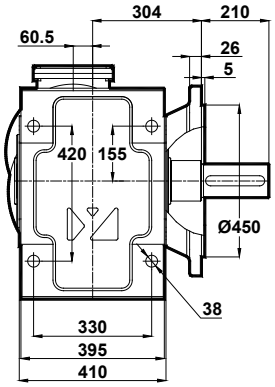


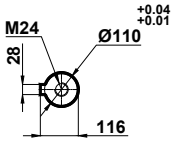
Ölçü Sayfaları
Dimension Pages
Abmessungsseiten

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

KV874.02

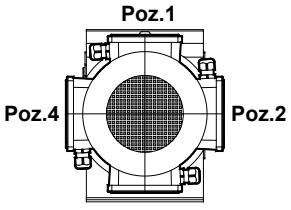






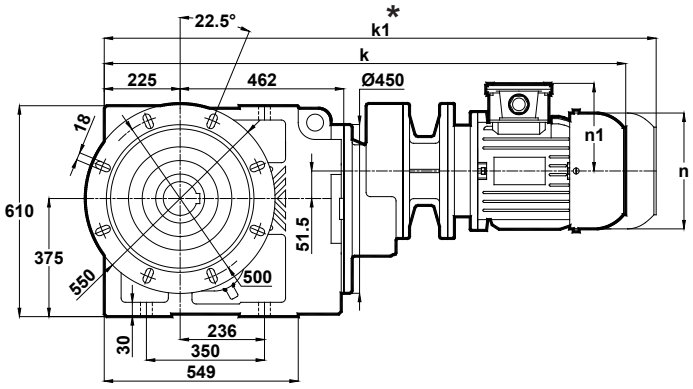
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5
k	1194	1214	1279	1317	1464	1508	1521
k1	1329	1349	1424	1462	1634	1678	1691
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

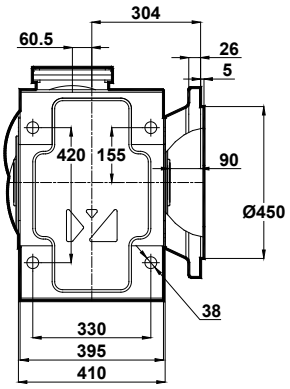
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

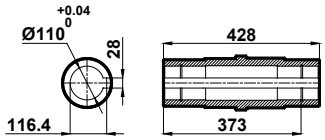


100-112-132-160-180
Tip / *Type* / Typ

KV874.03

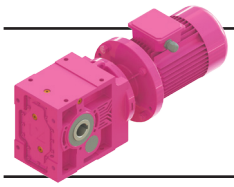






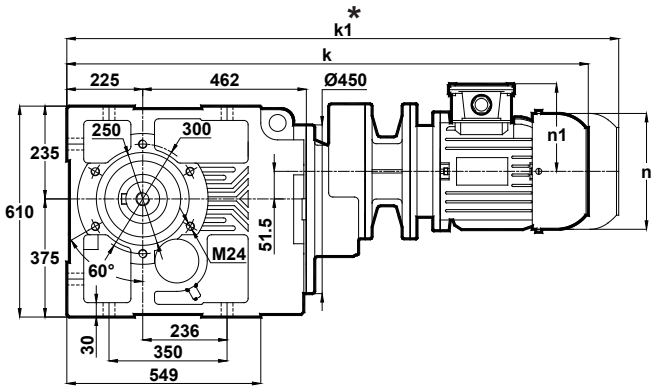
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5
k	1194	1214	1279	1317	1464	1508	1521
k1	1329	1349	1424	1462	1634	1678	1691
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

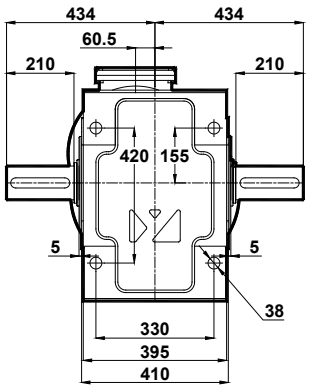
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

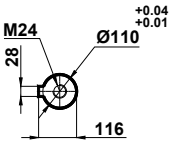


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV874.04

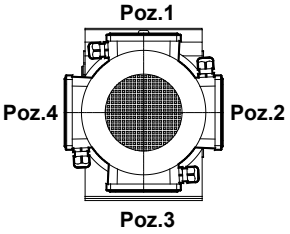






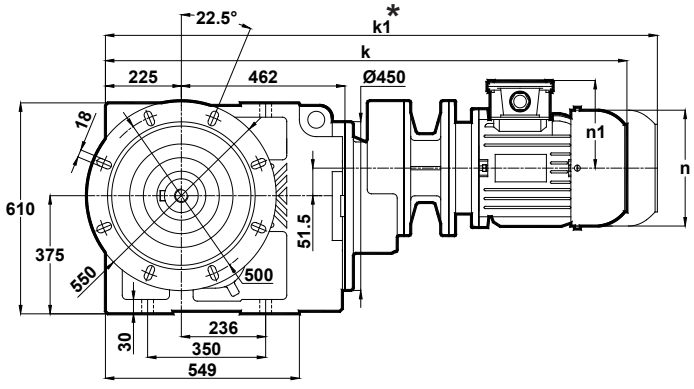
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5
k	1194	1214	1279	1317	1464	1508	1521
k1	1329	1349	1424	1462	1634	1678	1691
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

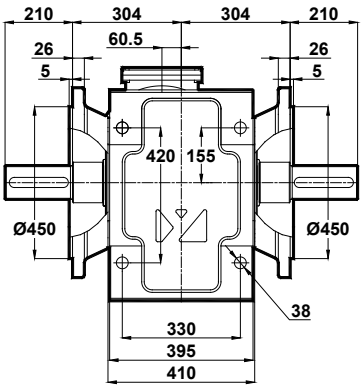
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

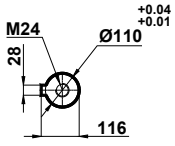


100-112-132-160-180
Tip / *Type* / Typ

KV874.05

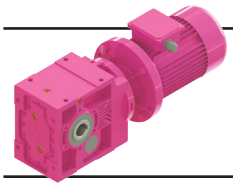






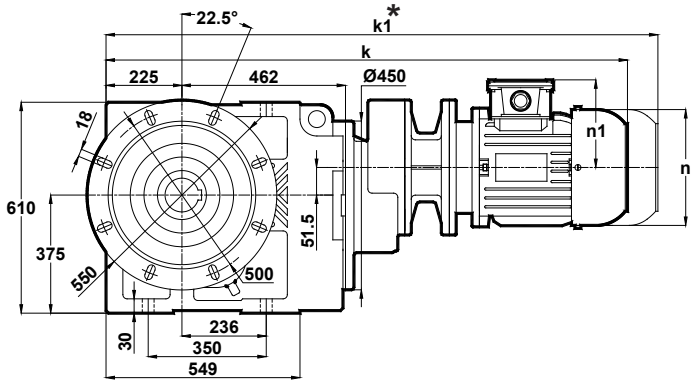
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5
k	1194	1214	1279	1317	1464	1508	1521
k1	1329	1349	1424	1462	1634	1678	1691
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

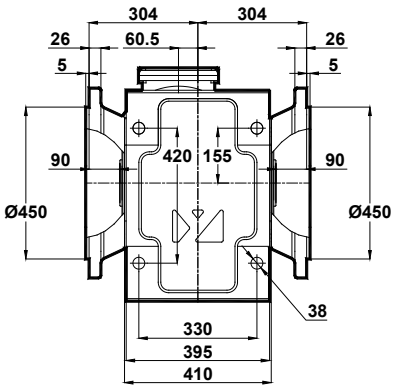
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

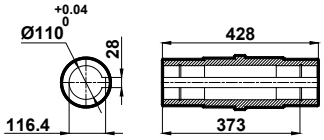


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV874.08

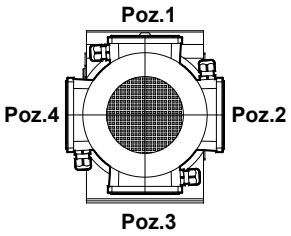






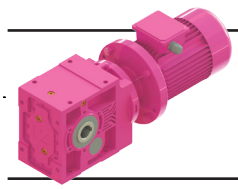
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5
k	1194	1214	1279	1317	1464	1508	1521
k1	1329	1349	1424	1462	1634	1678	1691
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen



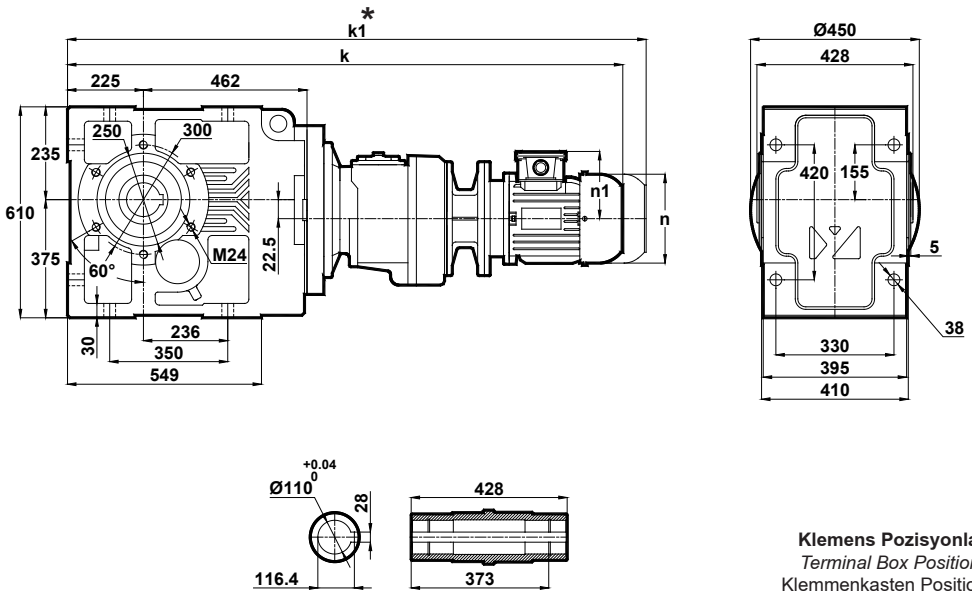
100-112-132-160-180
Tip / *Type* / Typ

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



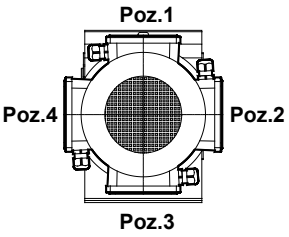
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV875.00
KV876.00



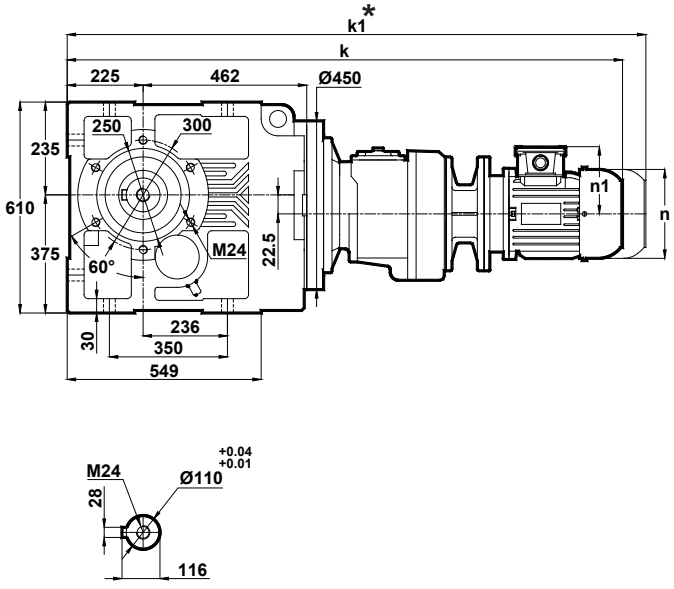
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	1216	1236	1256	1281	1330	1350
k1	1336	1356	1381	1406	1465	1485
n	138	156	176	176	194	218
n1	110	118	126	126	135	146



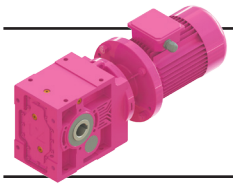
71-80-90-100-112
Tip / *Type* / Typ

KV875.01
KV876.01



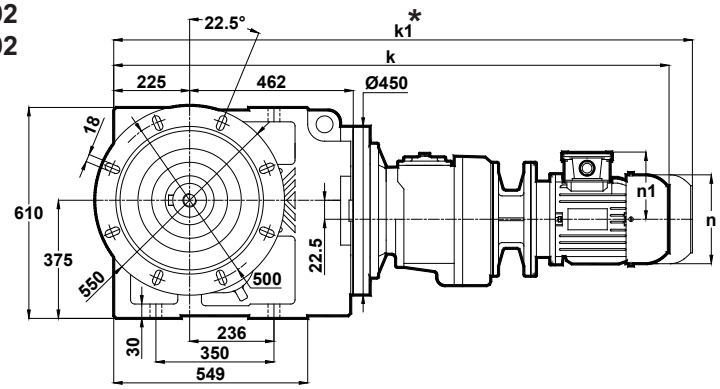
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	1216	1236	1256	1281	1330	1350
k1	1336	1356	1381	1406	1465	1485
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

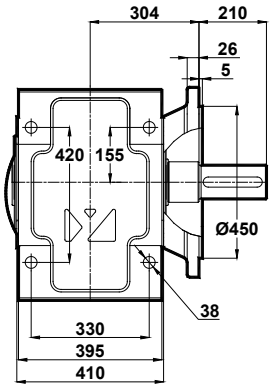
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

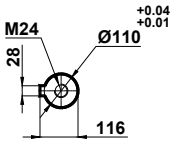


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV875.02
KV876.02

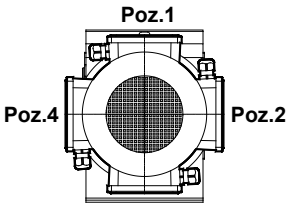






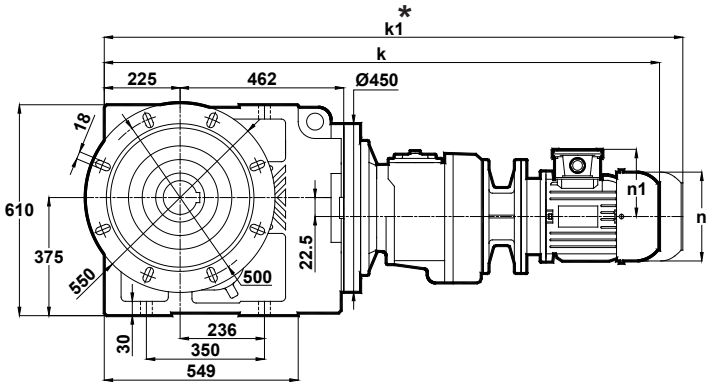
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	1216	1236	1256	1281	1330	1350
k1	1336	1356	1381	1406	1465	1485
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

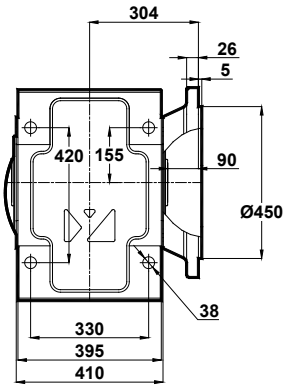
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

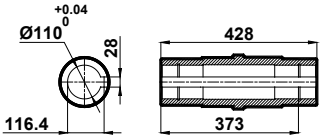


71-80-90-100-112
Tip / *Type* / Typ

KV875.03
KV876.03

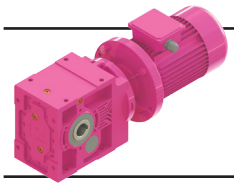






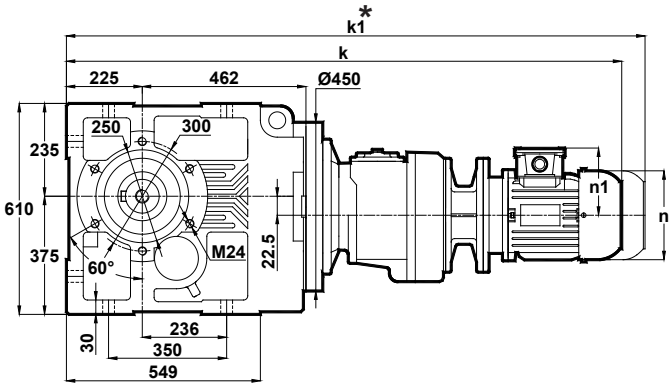
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	1216	1236	1256	1281	1330	1350
k1	1336	1356	1381	1406	1465	1485
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

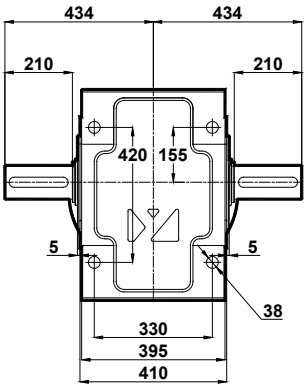
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

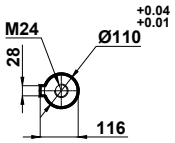


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV875.04
KV876.04

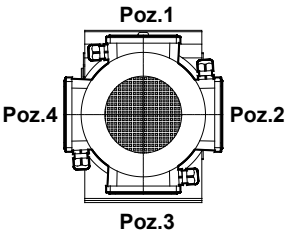






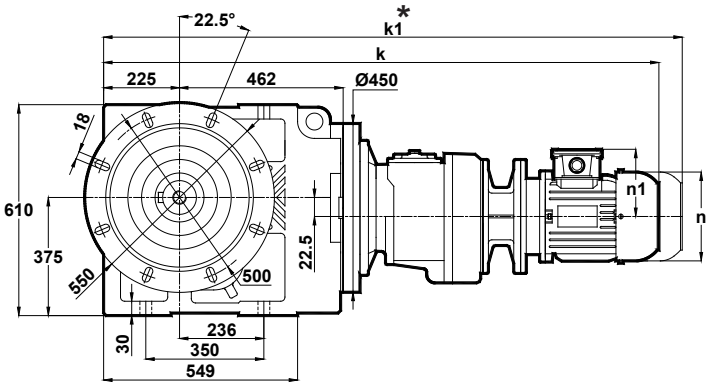
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	1216	1236	1256	1281	1330	1350
k1	1336	1356	1381	1406	1465	1485
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

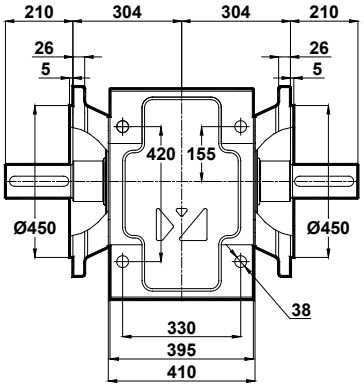
Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

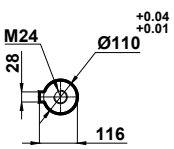


71-80-90-100-112
Tip / *Type* / Typ

KV875.05
KV876.05

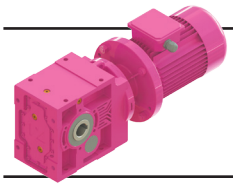






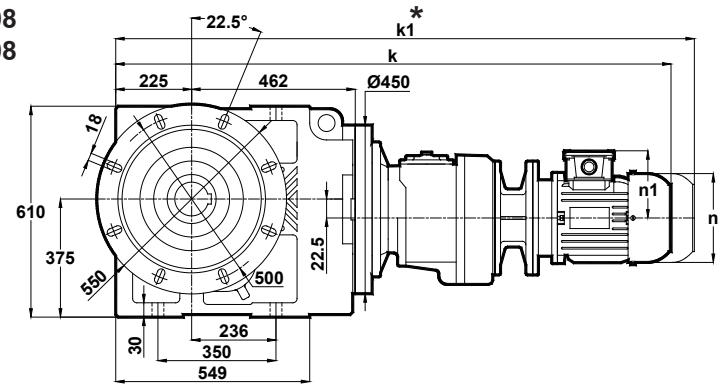
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	1216	1236	1256	1281	1330	1350
k1	1336	1356	1381	1406	1465	1485
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

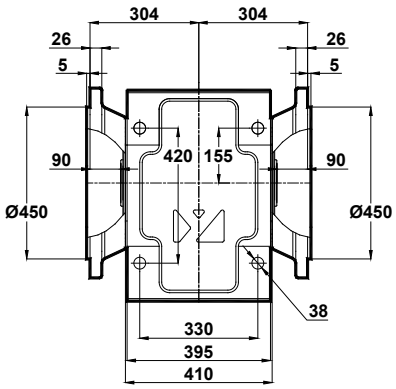
*** " k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

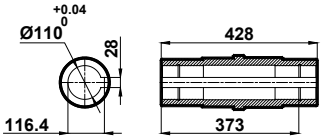


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV875.08
KV876.08

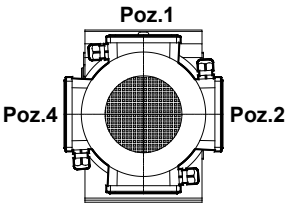






	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	1216	1236	1256	1281	1330	1350
k1	1336	1356	1381	1406	1465	1485
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

Klemens Pozisyonları
Terminal Box Positions
Klemmenkasten Positionen

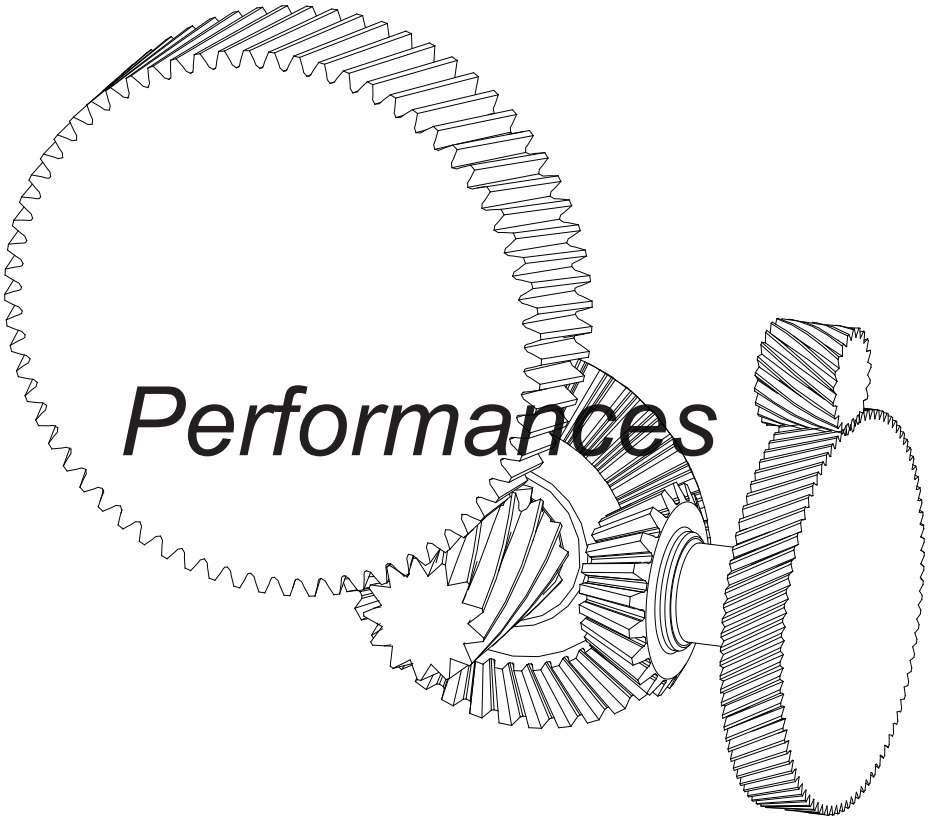


71-80-90-100-112
Tip / *Type* / Typ

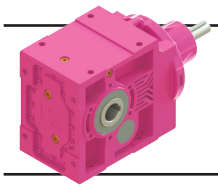
* **" k1 " Ölçüsü frenli redüktörlere aittir.**
Dimension " k1" is for motors with brake.
Maße " k1 " ist für Bremsenmotoren.

Notlar / *Notes* / Note

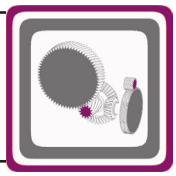
Güç ve Devir Tabloları



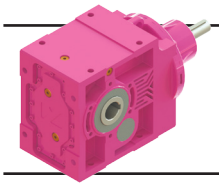
Leistung und Drehzahlübersicht



K Serisi Motorsuz Güç Devir Sayfaları
K Series Gear Units Performance Tables
K Serien Getriebe Leistung und Drehzahlübersicht



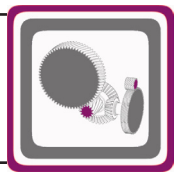
Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor 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=1400rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Fiyat Kodu** *Price Ref.* Preis No.
				n1=2800	**n1=1400**	n1=900	n1=750	n1=450	n1=350					
65	7,46	188	**KT002**	2,27	**1,35**	1,00	0,89	0,54	0,42	2703	63	14	374	KT028
65	8,04	174		2,10	**1,25**	0,93	0,83	0,50	0,39	2789	114			
70	9,40	149		1,81	**1,15**	0,85	0,71	0,43	0,33	2921	71			
75	11,09	126		1,67	**1,05**	0,72	0,60	0,36	0,28	3076	32			
75	13,26	106		1,40	**0,88**	0,61	0,50	0,30	0,24	3312	119			
75	14,73	95		1,26	**0,79**	0,55	0,45	0,27	0,21	3457	201			
75	16,18	87		1,15	**0,72**	0,50	0,41	0,25	0,19	3590	234			
80	19,88	70		1,02	**0,63**	0,41	0,34	0,20	0,16	3848	185			
80	23,79	59	**KT003**	0,93	**0,53**	0,34	0,29	0,17	0,13	3207	776	15	374	KT029
80	25,64	55		0,86	**0,50**	0,32	0,27	0,16	0,13	3324	782			
80	29,95	47		0,79	**0,43**	0,28	0,23	0,14	0,11	3577	793			
80	35,34	40		0,68	**0,36**	0,23	0,20	0,12	0,09	3860	803			
80	45,41	31		0,56	**0,28**	0,18	0,15	0,09	0,07	4050	880			
80	48,93	29		0,52	**0,26**	0,17	0,14	0,09	0,07	4050	884			
80	57,16	24		0,45	**0,23**	0,15	0,12	0,07	0,06	4050	889			
80	67,44	21		0,39	**0,19**	0,13	0,10	0,06	0,05	4050	894			
80	80,66	18		0,33	**0,16**	0,11	0,09	0,05	0,04	4050	899			
80	89,62	16		0,29	**0,15**	0,10	0,08	0,05	0,04	4050	904			
80	98,44	14		0,27	**0,14**	0,09	0,07	0,04	0,03	4050	905			
80	120,91	12		0,22	**0,11**	0,07	0,06	0,04	0,03	4050	908			
90	6,28	223	**KT102**	3,41	**2,20**	1,66	1,84	1,11	0,86	2828	-	15	378	KT030
90	7,29	192		3,15	**1,90**	1,43	1,59	0,96	0,75	3016	-			
95	8,72	161		2,82	**1,68**	1,25	1,33	0,80	0,62	3208	-			
100	10,32	136		2,38	**1,50**	1,11	1,13	0,68	0,53	3398	-			
100	11,05	127		2,37	**1,40**	1,08	1,05	0,63	0,49	3498	-			
105	12,51	112		2,09	**1,30**	0,96	0,93	0,56	0,44	3639	-			
110	14,61	96		1,90	**1,17**	0,89	0,80	0,48	0,37	3837	-			
110	17,30	81		1,61	**0,99**	0,75	0,68	0,41	0,32	4122	-			
110	19,13	73		1.46	**0.90**	0.68	0.61	0.37	0.29	4326	-			
115	21,25	66		1,39	**0,84**	0,61	0,55	0,33	0,26	4441	-			
120	25,50	55		1,22	**0,74**	0,55	0,46	0,28	0,22	4741	-			
115	20,03	70	**KT103**	1,40	**0,90**	0,66	0,57	0,36	0,28	4240	716	16	378	KT031
120	23,22	60		1,28	**0,81**	0,59	0,51	0,31	0,24	4464	721			
125	27,81	50		1,13	**0,71**	0,51	0,43	0,26	0,20	4768	733			
130	32,90	43		1,00	**0,63**	0,44	0,36	0,22	0,17	5068	737			
135	35,22	40		0,98	**0,61**	0,41	0,34	0,20	0,16	5162	733			
135	38,22	37		0,91	**0,56**	0,37	0,31	0,19	0,15	5346	823			
140	44,32	32		0,82	**0,50**	0,32	0,27	0,16	0,13	5637	828			
140	53,07	26		0,72	**0,42**	0,27	0,23	0,14	0,11	5850	842			
140	62,79	22		0,63	**0,36**	0,23	0,19	0,12	0,09	5850	849			
140	67,22	21		0,62	**0,33**	0,22	0,18	0,11	0,08	5850	853			
140	76,13	18		0,57	**0,30**	0,19	0,16	0,10	0,07	5850	856			
140	88,87	16		0,51	**0,26**	0,16	0,14	0,08	0,06	5850	861			
140	105,26	13		0,43	**0,22**	0,14	0,12	0,07	0,05	5850	866			
140	116,34	12		0.39	**0.20**	0.13	0.11	0.06	0.05	5850	874			
140	129,27	11		0,36	**0,18**	0,12	0,10	0,06	0,04	5850	876			
205	6,38	219	**KT202**	7,87	**4,91**	3,63	3,16	2,17	1,69	2353	-	19	382	KT032
215	7,65	183		6,97	**4,30**	3,16	2,80	1,81	1,41	2523	60			
230	9,25	151		6,11	**3,81**	2,78	2,45	1,50	1,17	2680	74			
235	10,57	132		5,50	**3,42**	2,53	2,19	1,32	1,03	2848	186			
245	12,17	115		5,03	**3,10**	2,28	1,90	1,15	0,89	2996	189			
255	14,32	98		4,39	**2,74**	1,94	1,62	0,97	0,76	3193	198			
260	15,26	92		4,22	**2,62**	1,82	1,52	0,91	0,71	3266	180			
270	17,47	80		3,78	**2,39**	1,59	1,33	0,80	0,62	3433	144			
280	20,23	69		3,42	**2,14**	1,38	1,15	0,69	0,54	3635	110			
280	23,79	59		3,05	**1,82**	1,18	0,98	0,59	0,46	3966	248			



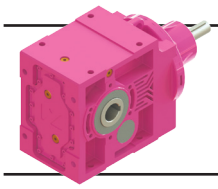
K Serisi Motorsuz Güç Devir Sayfaları

K Series Gear Units Performance Tables

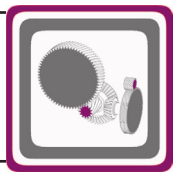
K Serien Getriebe Leistung und Drehzahlübersicht



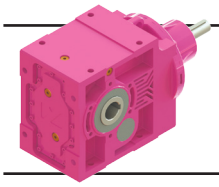
Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor 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=1400rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Fiyat Kodu** *Price Ref.* Preis No.
				n1=2800	**n1=1400**	n1=900	n1=750	n1=450	n1=350					
265	26,31	53	**KT203**	2,53	**1,57**	1,07	0,90	0,54	0,42	3996	1737	20	382	KT033
280	31,55	44		2,22	**1,39**	0,90	0,75	0,45	0,35	4261	1746			
280	38,16	37		1.92	**1.15**	0.74	0.62	0.37	0.29	4629	1845			
280	43,67	32		1,78	**1,01**	0,65	0,54	0,33	0,25	5086	1865			
280	52,37	27		1,58	**0,84**	0,54	0,45	0,27	0,21	5581	1883			
280	63,33	22		1,39	**0,70**	0,45	0,38	0,23	0,18	6131	1898			
280	72,37	19		1,22	0,61	0,40	0,33	0,20	0,15	6536	1906			
280	83,32	17		1,06	**0,53**	0,34	0,29	0,17	0,13	6983	1915			
280	98,01	14		0,91	**0,46**	0,29	0,25	0,15	0,11	7500	1922			
280	104,49	13		0,85	**0,43**	0,28	0,23	0,14	0,11	7500	1925			
280	119,62	12		0,75	**0,38**	0,24	0,20	0,12	0,09	7500	1930			
280	138,53	10		0,65	**0,33**	0,21	0,18	0,11	0,08	7500	1935			
220	6.94	202	**KT273**	8.5	**5.0**	3.9	3.4	2.4	2.0	10876	420	25	386	KT001
230	8.28	169		7.5	**4.3**	3.4	3.0	2.1	1.7	11484	525			
240	9.92	141		6.6	**3.8**	2.9	2.6	1.8	1.5	12152	616			
250	12.00	117		5.7	**3.3**	2.6	2.3	1.6	1.3	12600	696			
350	13.34	105		7.0	**4.1**	3.2	2.8	1.7	1.3	12600	892			
370	15.92	88		6.1	**3.6**	2.8	2.4	1.4	1.1	12500	954			
390	19.08	73		5.4	**3.2**	2.4	2.0	1.2	0.92	12400	1008			
410	23.08	61		4.7	**2.8**	2.0	1.6	0.98	0.76	12250	1057			
430	25.55	55		4.4	**2.6**	1.8	1.5	0.88	0.69	12100	1240			
450	30.48	46		3.9	**2.3**	1.5	1.2	0.74	0.58	12000	1255			
450	36.55	38		3.4	**1.9**	1.2	1.0	0.62	0.48	12000	1280			
450	44.20	32		3.0	**1.6**	1.0	0.85	0.51	0.40	12000	1303			
450	50.51	28		2.7	**1.4**	0.89	0.74	0.45	0.35	12000	1316			
450	58.15	24		2.4	**1.2**	0.78	0.65	0.39	0.30	12000	1328			
450	68.40	20		2.1	**1.0**	0.66	0.55	0.33	0.26	12000	1340			
450	72.92	19		1.9	**0.96**	0.62	0.52	0.31	0.27	12000	1344			
450	83.48	17		1.7	**0.84**	0.54	0.45	0.27	0.23	12000	1352			
450	96.68	14		1.5	**0.73**	0.47	0.39	0.26	0.20	12000	1360			
450	113.65	12		1.2	**0.62**	0.40	0.33	0.22	0.17	12000	1367			
450	112.73	12	**KT275**	1.3	**0.66**	0.42	0.35	0.23	0.18	12000	592	28	390	KT002
450	131.68	11		1.1	**0.56**	0.36	0.30	0.20	0.16	12000	602			
450	200.35	7.0		0.74	**0.37**	0.27	0.22	0.13	0.10	12000	675			
450	215.91	6.5		0.69	**0.34**	0.25	0.21	0.12	0.10	12000	678			
450	252.20	5.6		0.59	**0.30**	0.21	0.18	0.11	0.08	12000	683			
450	300.85	4.7		0.55	**0.28**	0.20	0.16	0.10	0.08	12000	697			
450	360.73	3.9		0.46	**0.23**	0.16	0.14	0.08	0.06	12000	710			
450	436.24	3.2		0.38	**0.19**	0.14	0.11	0.07	0.05	12000	720			
450	498.55	2.8		0.33	**0.17**	0.12	0.10	0.06	0.05	12000	727			
450	573.99	2.4		0.29	**0.15**	0.10	0.09	0.05	0.04	12000	733			
450	675.13	2.1		0.27	**0.12**	0.09	0.07	0.04	0.03	12000	738			
450	719.79	1.9		0.26	**0.12**	0.08	0.07	0.04	0.03	12000	740			
450	735.42	1.9	**KT276**	0.26	**0.12**	0.08	0.07	0.04	0.03	12000	742	30	390	KT003
450	881.79	1.6		0.21	**0.10**	0.07	0.06	0.03	0.03	12000	747			
450	1066.35	1.3		0.18	**0.08**	0.06	0.05	0.03	0.02	12000	751			
450	1218.69	1.1		0.16	**0.07**	0.05	0.04	0.02	0.02	12000	754			
450	1403.10	1.0		0.14	**0.06**	0.04	0.04	0.02	0.02	12000	756			
450	1650.31	0.85		0.11	**0.05**	0.04	0.03	0.02	0.01	12000	758			
450	1759.48	0.80		0.11	**0.05**	0.03	0.03	0.02	0.01	12000	759			
580	5.68	247	**KT373**	26	**16**	12	10	7.2	5.6	11009	-	60	394	KT004
595	6.63	211		23	**14**	10	9.1	6.2	4.8	11617	-			
610	7.73	181		20	**12**	9.1	8.1	5.3	4.1	12253	-			
630	8.54	164		19	**12**	8.5	7.4	4.8	3.7	12616	-			
655	9.97	140		17	**10**	7.5	6.6	4.1	3.2	13248	-			
805	10.60	132		19	**12**	7.8	6.5	3.9	3.0	12100	-			
820	12.38	113		17	**10**	6.6	5.5	3.3	2.6	11800	-			
820	14.44	97		15	**8.9**	5.7	4.7	2.9	2.2	11800	-			



K Serisi Motorsuz Güç Devir Sayfaları
K Series Gear Units Performance Tables
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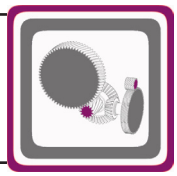
Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor 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=1400rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Fiyat Kodu** *Price Ref.* Preis No.
				n1=2800	**n1=1400**	n1=900	n1=750	n1=450	n1=350					
820	15.96	88	**KT373**	14	**8.0**	5.2	4.3	2.6	2.0	11800	-	60	394	KT004
820	18.62	75		13	**6.9**	4.4	3.7	2.2	1.7	11800	-			
820	21.90	64		12	**5.8**	3.8	3.1	1.9	1.5	11800	-			
820	24.72	57		10	**5.2**	3.3	2.8	1.7	1.3	11800	1484			
820	28.85	49		8.9	**4.4**	2.9	2.4	1.4	1.1	11800	1529			
820	33.65	42		7.6	**3.8**	2.4	2.0	1.2	0.95	11800	1572			
820	37.19	38		6.9	**3.4**	2.2	1.8	1.1	0.86	11800	1595			
820	43.40	32		5.9	**3.0**	1.9	1.6	0.95	0.74	11800	1625			
820	51.05	27		5.0	**2.6**	1.6	1.3	0.81	0.63	11800	1652			
820	60.69	23		4.2	**2.1**	1.4	1.1	0.68	0.53	11800	1675			
820	68.65	20		3.7	**1.9**	1.2	1.0	0.60	0.47	11800	1690			
820	78.29	18		3.3	**1.6**	1.1	0.88	0.53	0.41	11800	1704			
820	97.26	14		2.6	**1.3**	0.85	0.70	0.42	0.33	11800	1723			
820	110.61	13		2.3	**1.2**	0.74	0.62	0.37	0.29	11800	1732			
820	127.30	11		2.0	**1.0**	0.65	0.54	0.32	0.25	11800	-			
820	148.75	9.4		1.7	**0.86**	0.55	0.46	0.28	0.24	11800	-			
820	127.14	11	**KT374**	2.1	**1.0**	0.67	0.56	0.33	0.26	11800	1317	61	398	KT005
820	140.49	10		1.9	**0.94**	0.60	0.50	0.30	0.26	11800	1241			
820	163.96	8.54		1.6	**0.81**	0.52	0.43	0.26	0.22	11800	1374			
820	192.86	7.26		1.4	**0.69**	0.44	0.37	0.24	0.19	11800	1403			
820	229.29	6.11		1.2	**0.58**	0.37	0.31	0.21	0.16	11800	1429			
820	259.36	5.40		1.0	**0.51**	0.33	0.27	0.18	0.14	11800	1445			
820	295.76	4.73		0.90	**0.45**	0.29	0.27	0.16	0.12	11800	1460			
820	367.43	3.81		0.72	**0.36**	0.26	0.22	0.13	0.10	11800	1481			
820	374.18	3.74	**KT375**	0.73	**0.36**	0.26	0.22	0.13	0.10	11800	927	62	402	KT006
820	442.71	3.16		0.61	**0.31**	0.22	0.18	0.11	0.09	11800	931			
820	473.96	2.95		0.57	**0.29**	0.20	0.17	0.10	0.08	11800	932			
820	536.75	2.61		0.51	**0.25**	0.18	0.15	0.09	0.07	11800	934			
820	593.11	2.36		0.51	**0.26**	0.18	0.15	0.09	0.07	11800	939			
820	692.22	2.02		0.44	**0.22**	0.16	0.13	0.08	0.06	11800	947			
820	814.20	1.72		0.37	**0.19**	0.13	0.11	0.07	0.05	11800	953			
820	968.01	1.4		0.31	**0.16**	0.11	0.09	0.06	0.04	11800	960			
820	1094.97	1.3		0.28	**0.14**	0.10	0.08	0.05	0.04	11800	963			
820	1184.90	1.2	**KT376**	0.26	**0.13**	0.09	0.08	0.05	0.04	11800	971	64	402	KT007
820	1401.91	1.0		0.25	**0.11**	0.08	0.07	0.04	0.03	11800	972			
820	1500.87	0.93		0.23	**0.10**	0.07	0.06	0.04	0.03	11800	973			
820	1699.70	0.82		0.20	**0.09**	0.07	0.05	0.03	0.03	11800	973			
820	1878.17	0.75		0.18	**0.08**	0.06	0.05	0.03	0.02	11800	975			
820	2192.03	0.64		0.16	**0.07**	0.05	0.04	0.03	0.02	11800	978			
820	2578.32	0.54		0.13	**0.06**	0.04	0.04	0.02	0.02	11800	980			
820	3065.37	0.46		0.11	**0.05**	0.04	0.03	0.02	0.01	11800	982			
820	3467.39	0.40		0.10	**0.04**	0.03	0.03	0.02	0.01	11800	983			
830	6.21	225	**KT473**	34	**21**	15	13	9.4	7.9	12444	-	96	406	KT008
865	7.48	187		29	**18**	13	11	8.1	6.8	13228	-			
905	9.06	154		25	**16**	11	9.5	7.0	5.9	14068	-			
935	10.34	135		23	**14**	10	8.6	6.4	5.4	14673	-			
970	11.87	118		21	**13**	9.3	7.8	5.8	4.8	15314	-			
1005	13.71	102		19	**11**	8.4	7.0	5.2	4.3	16035	-			
1370	15.33	91		23	**14**	10	8.5	5.1	3.9	16405	-			
1425	17.49	80		21	**13**	8.9	7.4	4.4	3.5	17070	-			
1485	20.07	70		19	**12**	7.7	6.5	3.9	3.0	17000	-			
1550	23.19	60		17	**10**	6.7	5.6	3.4	2.6	17000	-			
1550	23.76	59		17	**10**	6.5	5.5	3.3	2.5	17000	-			
1550	25.15	56		16	**9.7**	6.2	5.2	3.1	2.4	17000	-			
1550	30.11	46		14	**8.0**	5.1	4.3	2.6	2.0	17000	-			
1550	39.11	36		11	**6.2**	4.0	3.3	2.0	1.6	17000	1591			
1550	44.64	31		10	**5.4**	3.5	2.9	1.7	1.4	17000	1630			
1550	51.22	27		9.3	**4.7**	3.0	2.5	1.5	1.9	17000	1665			
1550	59.19	24		8.2	**4.1**	2.6	2.2	1.3	1.0	17000	1698			



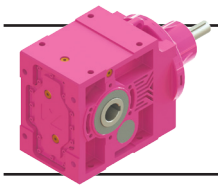
K Serisi Motorsuz Güç Devir Sayfaları

K Series Gear Units Performance Tables

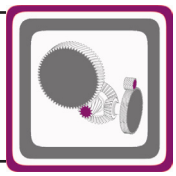
K Serien Getriebe Leistung und Drehzahlübersicht



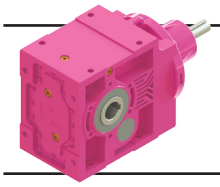
Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor 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=1400rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Fiyat Kodu** *Price Ref.* Preis No.
				n1=2800	**n1=1400**	n1=900	n1=750	n1=450	n1=350					
1550	60.63	23	**KT473**	8.0	**4.0**	2.6	2.1	1.3	1.0	17000	1704	96	406	KT008
1550	64.17	22		7.5	**3.8**	2.4	2.0	1.2	0.94	17000	1716			
1550	76.83	18		6.3	**3.2**	2.0	1.7	1.0	0.79	17000	1747			
1550	87.49	16		5.5	**2.8**	1.8	1.5	0.89	0.69	17000	1766			
1550	97.79	14		4.9	**2.5**	1.6	1.3	0.79	0.62	17000	1783			
1550	110.65	13		4.3	**2.2**	1.4	1.2	0.70	0.55	17000	1797			
1550	135.98	10		3.6	**1.8**	1.1	0.95	0.57	0.44	17000	1818			
1550	153.47	9.1		3.2	**1.6**	1.0	0.84	0.51	0.39	17000	1827			
1550	160.79	8.7	**KT474**	31	**1.5**	0.99	0.83	0.50	0.39	17000	1786	98	410	KT009
1550	181.88	7.7		2.7	**1.4**	0.88	0.73	0.44	0.34	17000	1797			
1550	207.41	6.7		2.4	**1.2**	0.77	0.64	0.39	0.30	17000	1806			
1550	257.67	5.4		1.9	**1.0**	0,62	0,52	0,31	0,27	17000	1816			
1550	293.03	4.8		1.7	**0.85**	0.55	0.46	0.27	0.24	17000	1827			
1550	310.16	4.5		1.6	**0.81**	0.52	0.43	0.26	0.22	17000	1837			
1550	371.35	3.8		1.4	**0.67**	0.43	0.36	0.24	0.19	17000	1874			
1550	422.88	3.3		1.2	**0.59**	0.38	0.32	0.21	0.16	17000	1896			
1550	472.63	3.0		1.0	**0.53**	0.34	0.28	0.19	0.15	17000	1912			
1550	509.34	2.7	**KT475**	1.0	**0.50**	0.32	0.27	0.18	0.14	17000	1504	101	414	KT010
1550	610.72	2.3		0.84	**0.42**	0.27	0.25	0.15	0.12	17000	1509			
1550	655.16	2.1		0.78	**0.39**	0.25	0.23	0.14	0.11	17000	1510			
1550	738.55	1.9		0.69	**0.35**	0.25	0.21	0.12	0.10	17000	1513			
1550	844.06	1.7		0.61	**0.30**	0.22	0.18	0.11	0.08	17000	1516			
1550	901.03	1.6		0.57	**0.29**	0.20	0.17	0.10	0.08	17000	1517			
1550	971.77	1.4		0.53	**0.26**	0.19	0.16	0.09	0.07	17000	1519			
1550	1142.99	1.2		0.50	**0.25**	0.18	0.15	0.09	0.07	17000	1521			
1550	1218.61	1.1		0.47	**0.24**	0.17	0.14	0.08	0.07	17000	1522			
1550	1395.04	1.0		0.41	**0.21**	0.15	0.12	0.07	0.06	17000	1524			
1550	1476.60	0.95		0.39	**0.19**	0.14	0.12	0.07	0.05	17000	1526			
1550	1767.90	0.79		0.33	**0.16**	0.12	0.10	0.06	0.05	17000	1533			
1550	2183.54	0.64	**KT476**	0.27	**0.13**	0.10	0.08	0.05	0.04	17000	1550	104	414	KT011
1550	2495.47	0.56		0.26	**0.12**	0.08	0.07	0.04	0.03	17000	1551			
1550	2663.91	0.53		0.24	**0.11**	0.08	0.07	0.04	0.03	17000	1551			
1550	2873.07	0.49		0.23	**0.10**	0.07	0.06	0.04	0.03	17000	1551			
1550	3379.28	0.41		0.19	**0.09**	0.06	0.05	0.03	0.02	17000	1552			
1550	3602.83	0.39		0.18	**0.08**	0.06	0.05	0.03	0.02	17000	1552			
1550	4124.46	0.34		0.16	**0.07**	0.05	0.04	0.03	0.02	17000	1553			
1550	4365.60	0.32		0.15	**0.07**	0.05	0.04	0.02	0.02	17000	1554			
1550	5226.85	0.27		0.13	**0.06**	0.04	0.03	0.02	0.02	17000	1556			
1220	6.91	203	**KT573**	-	**28**	20	18	12	10	19926	-	138	418	KT012
1300	8.07	173		-	**25**	21	16	11	9.3	20771	-			
1380	9.48	148		37	**23**	17	15	10	8.6	21719	-			
1470	11.22	125		33	**20**	15	13	9.2	7.8	22753	-			
1700	11.58	121		-	**23**	17	15	10	8.7	22685	-			
1820	13.53	104		-	**21**	15	14	9.5	7.8	23595	-			
1930	15.88	88		31	**19**	14	13	8.5	6.6	24671	-			
2050	18.80	74		28	**17**	13	11	7.2	5.6	25860	-			
2100	20.24	69		27	**16**	12	11	6.7	5.2	26421	-			
2200	22.77	61		25	**15**	11	9.8	5.9	4.6	27263	-			
2300	25.78	54		23	**14**	10	8.8	5.3	4.1	28225	-			
2300	30.25	46		-	**12**	8.7	7.5	4.5	3.5	29000	2812			
2430	35.34	40		-	**11**	7.7	6.4	3.8	3.0	27500	2834			
2500	38.16	37		17	**10**	7.1	5.9	3.6	2.8	26000	2865			
2620	44.73	31		15	**9.1**	6.1	5.0	3.0	2.4	24500	2886			
2700	52.88	26		13	**8.0**	5.1	4.3	2.6	2.0	22500	2919			
2700	59.49	24		12	**7.1**	4.6	3.8	2.3	1.8	22500	2954			
2700	67.37	21		11	**6.3**	4.0	3.4	2.0	1.6	22500	2988			
2700	82.14	17		9.9	**5.1**	3.3	2.8	1.7	1.3	22500	3031			
2700	97.19	14		8.7	**4.3**	2.8	2.3	1.4	1.1	22500	3063			
2700	109.86	13		7.7	**3.8**	2.5	2.1	1.2	0.96	22500	3083			



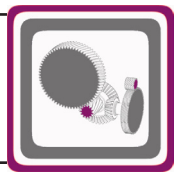
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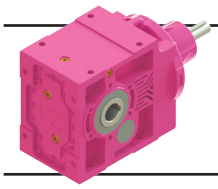
Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor 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=1400rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Fiyat Kodu** *Price Ref.* Preis No.
				n1=2800	**n1=1400**	n1=900	n1=750	n1=450	n1=350					
2700	125.51	11	**KT573**	6.7	**3.4**	2.2	1.8	1.1	0.84	22500	3102	138	418	KT012
2700	117.96	12	**KT574**	7.3	**3.7**	2.4	2.0	1.2	0.91	22500	1500	140	422	KT013
2700	140.24	10		6.2	**3.1**	2.0	1.7	0.99	0.77	22500	1533			
2700	158.64	8.83		5.5	**2.7**	1.8	1.5	0.88	0.68	22500	1553			
2700	180.90	7.74		4.8	**2.4**	1.5	1.3	0.77	0.60	22500	1572			
2700	211.51	6.62		4.1	**2.1**	1.3	1.1	0.66	0.51	22500	1592			
2700	237.97	5.88		3.7	**1.8**	1.2	0.98	0.59	0.46	22500	1643			
2700	246.42	5.68		3.5	**1.8**	1.1	0.94	0.57	0.44	22500	1731			
2700	281.00	4.98		3.1	**1.6**	0.99	0.83	0.50	0.39	22500	1743			
2700	328.56	4.26		2.7	**1.3**	0.85	0.71	0.43	0.33	22500	1756			
2700	397.01	3.53		2.2	**1.1**	0.71	0.59	0.35	0.27	22500	1769			
2700	469.74	2.98		1.9	**0.93**	0.60	0.50	0.30	0.26	22500	1813			
2700	507.09	2.76	**KT575**	1.8	**0.88**	0.57	0.47	0.28	0.25	22500	1356	140	426	KT014
2700	570.53	2.45		1.6	**0.78**	0.50	0.42	0.25	0.22	22500	1380			
2700	787.70	1.78		1.1	**0.57**	0.37	0.30	0.20	0.16	22500	1431			
2700	932.00	1.50		0.96	**0.48**	0.31	0.26	0.17	0.13	22500	1453			
2700	1216.74	1.2		0.74	**0.37**	0.26	0.22	0.13	0.10	22500	1478			
2700	1368.95	1.0		0.66	**0.33**	0.23	0.20	0.12	0.09	22500	1488			
2700	1890.04	0.74		0.53	**0.26**	0.19	0.16	0.09	0.07	22500	1510			
2700	2236.28	0.63		0.45	**0.22**	0.16	0.13	0.08	0.06	22500	1519			
2700	2328.84	0.60	**KT576**	0.44	**0.22**	0.16	0.13	0.08	0.06	22500	1523	145	426	KT015
2700	2755.47	0.51		0.37	**0.19**	0.13	0.11	0.07	0.05	22500	1530			
2700	3597.31	0.39		0.28	**0.14**	0.10	0.08	0.05	0.04	22500	1538			
2700	4047.32	0.35		0.25	**0.13**	0.09	0.08	0.05	0.04	22500	1541			
2700	5587.93	0.25		0.20	**0.09**	0.07	0.05	0.03	0.03	22500	1549			
2700	6611.61	0.21		0.17	**0.08**	0.06	0.05	0.03	0.02	22500	1552			
2500	8.31	169	**KT673**	-	**47**	35	31	21	17.8	25155	-	235	430	KT016
2600	9.45	148		-	**43**	31	28	19	15.7	26140	-			
2700	10.81	130		-	**39**	29	25	18	13.7	27248	-			
2800	12.46	112		56	**35**	26	23	15	11.9	28510	-			
2900	14.49	97		51	**31**	23	20	13	10.2	29970	-			
4300	16.54	85		-	**41**	26	22	13	10.1	26490	-			
4300	18.74	75		-	**36**	23	19	12	9.0	28202	-			
4300	21.32	66		-	**31**	20	17	10	7.9	29600	-			
4300	24.38	57		-	**28**	18	15	8.8	6.9	29600	-			
4300	28.10	50		48	**24**	15	13	7.7	6.0	29600	-			
4300	32.68	43		41	**21**	13	11	6.6	5.1	29600	-			
4300	39.26	36		-	**17**	11	9.2	5.5	4.3	29600	3205			
4300	44.65	31		-	**15**	9.7	8.1	4.8	3.8	29600	3276			
4300	51.08	27		-	**13**	8.4	7.0	4.2	3.3	29600	3340			
4300	58.86	24		23	**11**	7.3	6.1	3.7	2.9	29600	3400			
4300	68.47	20		20	**9.8**	6.3	5.3	3.2	2.5	29600	3454			
4300	80.38	17		17	**8.3**	5.4	4.5	2.7	2.1	29600	3520			
4300	90.21	16		15	**7.4**	4.8	4.0	2.4	1.9	29600	3551			
4300	100.90	14		13	**6.7**	4.3	3.6	2.1	1.7	29600	3569			
4300	128.24	11		10	**5.2**	3.4	2.8	1.7	1.3	29600	3626			
4300	123.38	11	**KT674**	11	**5.6**	3.6	3.0	1.8	1.4	29600	687	238	434	KT017
4300	140.49	10		9.8	**4.9**	3.1	2.6	1.6	1.2	29600	808			
4300	157.02	8.9		8.7	**4.4**	2.8	2.3	1.4	1.1	29600	920			
4300	178.62	7.8		7.7	**3.9**	2.5	2.1	1.2	0.96	29600	1342			
4300	204.32	6.9		6.7	**3.4**	2.2	1.8	1.1	0.84	29600	1616			
4300	235.44	5.9		5.9	**2.9**	1.9	1.6	0.94	0.73	29600	1702			
4300	273.88	5.1		5.0	**2.5**	1.6	1.4	0.81	0.63	29600	1781			
4300	321.51	4.4		4.3	**2.1**	1.4	1.2	0.69	0.54	29600	1853			
4300	363.81	3.8		3.8	**1.9**	1.2	1.0	0.61	0.47	29600	1865			



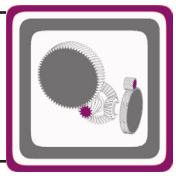
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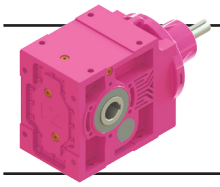
Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 için)** *Pe= Nominal Power [kW] (For Service Factor 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=1400rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Fiyat Kodu** *Price Ref.* Preis No.
				n1=2800	**n1=1400**	n1=900	n1=750	n1=450	n1=350					
4300	423.90	3.3	**KT675**	3.3	**1.7**	1.1	0.89	0.53	0.42	29600	1852	243	438	KT018
4300	489.82	2.9		2.9	**1.4**	0.93	0.77	0.46	0.36	29600	1863			
4300	531.08	2.6		2.7	**1.3**	0.85	0.71	0.43	0.33	29600	1869			
4300	635.86	2.2		2.2	**1.1**	0.72	0.60	0.36	0.28	29600	1880			
4300	724.08	1.9		2.0	**0.98**	0.63	0.52	0.31	0.27	29600	1886			
4300	809.27	1.7		1.8	**0.88**	0.56	0.47	0.28	0.24	29600	1892			
4300	915.75	1.5		1.6	**0.78**	0.50	0.42	0.28	0.22	29600	1897			
4300	1041.68	1.3		1.4	**0.68**	0.44	0.37	0.24	0.19	29600	1916			
4300	1191.60	1.2		1.2	**0.60**	0.38	0.32	0.21	0.17	29600	1933			
4300	1373.07	1.0		1.0	**0.52**	0.33	0.28	0.19	0.14	29600	1949			
4300	1597.25	0.88		0.89	**0.45**	0.29	0.27	0.16	0.12	29600	1963			
4300	1875.03	0.75		0.76	**0.38**	0.27	0.23	0.14	0.11	29600	1977			
4300	1884.33	0.74	**KT676**	0.77	**0.39**	0.28	0.23	0.14	0.11	29600	2009	250	438	KT019
4300	2082.19	0.67		0.70	**0.35**	0.25	0.21	0.12	0.10	29600	2011			
4300	2430.14	0.58		0.60	**0.30**	0.21	0.18	0.11	0.08	29600	2014			
4300	2858.39	0.49		0.51	**0.26**	0.18	0.15	0.09	0.07	29600	2016			
4300	3398.35	0.41		0.48	**0.24**	0.17	0.14	0.09	0.07	29600	2018			
4300	3844.04	0.36		0.42	**0.21**	0.15	0.13	0.08	0.06	29600	2020			
4300	4383.55	0.32		0.37	**0.19**	0.13	0.11	0.07	0.05	29600	2021			
4300	5445.72	0.26		0.30	**0.15**	0.11	0.09	0.05	0.04	29600	2023			
4300	6193.17	0.23		0.26	**0.13**	0.09	0.08	0.05	0.04	29600	2024			
4300	7044.81	0.20		0.26	**0.12**	0.08	0.07	0.04	0.03	29600	2027			
4300	8058.67	0.17		0.23	**0.10**	0.07	0.06	0.04	0.03	29600	2030			
4300	9285.97	0.15		0.20	**0.09**	0.06	0.05	0.03	0.02	29600	2033			
4300	10802.05	0.13		0.17	**0.08**	0.05	0.05	0.03	0.02	29600	2036			
4300	12680.66	0.11		0.14	**0.06**	0.05	0.04	0.02	0.02	29600	2038			
3900	7.41	189	**KT773**	-	**77**	60	53	37	31	34068	-	360	442	KT020
4050	8.52	164		-	**70**	54	48	34	27	35582	-			
4200	9.83	142		-	**63**	49	43	30	23	37261	-			
4250	10.20	137		-	**61**	48	42	29	22	37654	-			
4400	11.44	122		-	**56**	44	39	25	20	38968	-			
4500	12.89	109		-	**51**	40	35	23	18	40635	-			
7250	15.25	92		-	**70**	53	44	26	20	37126				
7550	17.52	80		-	**63**	46	38	23	18	38736	-			
7900	20.23	69		-	**57**	40	33	20	15	40382	-			
8000	20.97	67		-	**56**	38	32	19	15	40780	-			
8000	23.52	60		-	**50**	34	28	17	13	43151	-			
8000	26.52	53		-	**44**	30	25	15	12	45714	-			
8000	29.40	48		-	**40**	27	23	14	11	47999	2086			
8000	33.78	41		-	**35**	24	20	12	9.2	51188	2708			
8000	39.00	36		-	**30**	21	17	10	8.0	54628	3265			
8000	40.44	35		-	**29**	20	16	9.9	7.7	55522	3286			
8000	45.36	31		-	**26**	18	15	8.8	6.9	55500	3666			
8000	51.13	27		-	**23**	16	13	7.8	6.1	55500	4019			
8000	58.00	24		-	**20**	14	12	6.9	5.4	55500	4208			
8000	66.32	21		38	**18**	12	10	6.1	4.7	55500	4284			
8000	76.59	18		33	**15**	10	8.7	5.2	4.1	55500	4355			
8000	88.57	16		28	**13**	9	7.6	4.5	3.5	55500	4434			
8000	99.00	14		25	**12**	8.1	6.8	4.1	3.2	55500	4475			
8000	111.63	13		22	**11**	7.2	6.0	3.6	2.8	55500	4515			
8000	127.11	11	**KT774**	20	**10**	6.4	5.4	3.2	2.5	55000	-	370	446	KT021
8000	142.56	10		18	**8.9**	5.7	4.8	2.9	2.2	55000	-			
8000	160.70	8.7		16	**7.9**	5.1	4.2	2.5	2.0	55000	-			
8000	182.29	7.7		14	**7.0**	4.5	3.7	2.2	1.8	55000	-			
8000	208.42	6.7		12	**6.1**	3.9	3.3	2.0	1.5	55000	326			
8000	240.71	5.8		11	**5.3**	3.4	2.8	1.7	1.3	55000	874			
8000	278.35	5.0		9.2	**4.6**	3.0	2.5	1.5	1.2	55000	1351			
8000	311.14	4.5		8.2	**4.1**	2.6	2.2	1.3	1.0	55000	1601			
8000	354.32	4.0		7.2	**3.6**	2.3	1.9	1.2	0.90	55000	1625			
8000	396.00	3.5		6.5	**3.2**	2.1	1.7	1.0	0.81	55000	1647			



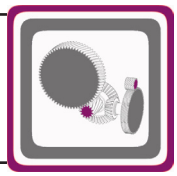
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Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipi** *Type* Typ	**Pe= Nominal Güç [kW] (Servis Faktörü fs=1,0 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=1400rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Fiyat Kodu** *Price Ref.* Preis No.
				n1=2800	**n1=1400**	n1=900	n1=750	n1=450	n1=350					
8000	436.74	3.2	**KT775**	6.0	**3.0**	1.9	1.6	0.96	0.75	55000	1686	381	450	KT022
8000	504.65	2.8		5.2	**2.6**	1.7	1.4	0.83	0.65	55000	1706			
8000	547.17	2.6		4.8	**2.4**	1.5	1.3	0.77	0.60	55000	1717			
8000	655.11	2.1		4.0	**2.0**	1.3	1.1	0.64	0.50	55000	1737			
8000	746.01	1.9		3.5	**1.8**	1.1	0.94	0.57	0.44	55000	1749			
8000	833.78	1.7		3.2	**1.6**	1.0	0.85	0.51	0.39	55000	1759			
8000	943.49	1.5		2.8	**1.4**	0.90	0.75	0.45	0.35	55000	1768			
8000	1058.16	1.3		2.5	**1.3**	0.80	0.67	0.40	0.31	55000	1799			
8000	1192.77	1.2		2.2	**1.1**	0.71	0.59	0.36	0.28	55000	1827			
8000	1353.02	1.0		2.0	**0.98**	0.63	0.52	0.31	0.27	55000	1854			
8000	1547.01	0.90		1.7	**0.85**	0.55	0.46	0.27	0.24	55000	1879			
8000	1786.65	0.78		1.5	**0.74**	0.48	0.40	0.26	0.21	55000	1902			
8000	2066.04	0.68		1.3	**0.64**	0.41	0.34	0.23	0.18	55000	1923			
8000	2539.01	0.55		1.0	**0.52**	0.34	0.28	0.19	0.14	55000	1928			
8000	2838.16	0.49		0.93	**0.47**	0.30	0.25	0.17	0.13	55000	1941			
8000	3203.12	0.44		0.83	**0.41**	0.27	0.25	0.15	0.11	55000	1944			
8000	1941.39	0.72	**KT776**	1.4	**0.69**	0.45	0.37	0.25	0.19	55000	1974	386	450	KT023
8000	2145.24	0.65		1.3	**0.63**	0.40	0.34	0.22	0.17	55000	1978			
8000	2503.73	0.56		1.1	**0.54**	0.35	0.29	0.19	0.15	55000	1983			
8000	2944.95	0.48		0.92	**0.46**	0.30	0.27	0.16	0.13	55000	1987			
8000	3501.26	0.40		0.77	**0.39**	0.28	0.23	0.14	0.11	55000	1991			
8000	3960.44	0.35		0.69	**0.34**	0.24	0.20	0.12	0.10	55000	1993			
8000	4516.30	0.31		0.60	**0.30**	0.22	0.18	0.11	0.08	55000	1996			
8000	5610.63	0.25		0.54	**0.27**	0.19	0.16	0.10	0.07	55000	1999			
8000	6380.72	0.22		0.47	**0.24**	0.17	0.14	0.08	0.07	55000	2000			
8000	7156.22	0.20		0.42	**0.21**	0.15	0.13	0.08	0.06	55000	2006			
8000	8066.59	0.17		0.38	**0.19**	0.13	0.11	0.07	0.05	55000	2011			
8000	9150.37	0.15		0.33	**0.17**	0.12	0.10	0.06	0.05	55000	2016			
8000	10462.31	0.13		0.29	**0.15**	0.10	0.09	0.05	0.04	55000	2021			
8000	12082.94	0.12		0.25	**0.13**	0.09	0.07	0.04	0.03	55000	2025			
8000	13972.49	0.10		0.24	**0.11**	0.08	0.06	0.04	0.03	55000	2029			
8000	15618.73	0.09		0.22	**0.10**	0.07	0.06	0.03	0.03	55000	2031			
7850	9.63	145	**KT873**	-	**127**	93	80	48	37	60190	-	615	454	KT024
8100	11.05	127		-	**114**	83	70	42	32	62966	-			
8350	12.25	114		-	**106**	75	63	38	29	64949	-			
8650	13.93	101		-	**97**	66	55	33	26	67591	-			
12600	16.78	83		-	**117**	86	75	45	35	65717	-			
13100	19.26	73		-	**106**	78	65	39	30	68567	-			
13550	21.34	66		-	**99**	70	59	35	27	70611	-			
14100	24.28	58		-	**91**	62	52	31	24	73348	-			
13300	29.88	47		-	**69**	50	42	25	20	82509	-			
13800	34.28	41		-	**63**	44	37	22	17	86143	-			
14250	38.00	37		-	**58**	40	33	20	15	83500	-			
14750	43.22	32		-	**53**	35	29	17	14	79500	-			
15000	49.75	28		-	**47**	30	25	15	12	76000	-			
15000	55.53	25		-	**42**	27	23	14	11	76000	-			
15000	62.42	22		-	**37**	24	20	12	9.4	76000	-			
15000	70.76	20		61	**33**	21	18	11	8.3	76000	266			
15000	81.06	17		55	**29**	19	15	9.3	7.2	76000	1059			
15000	92.80	15		50	**25**	16	14	8.1	6.3	76000	1618			
15000	103.24	14		45	**23**	15	12	7.3	5.7	76000	2100			
15000	115.87	12		40	**20**	13	11	6.5	5.1	76000	2567			
15000	86.63	16	**KT874**	55	**27**	18	15	8.8	6.8	76000	-	630	458	KT025
15000	98.53	14		48	**24**	15	13	7.7	6.0	76000	-			
15000	113.42	12		42	**21**	13	11	6.7	5.2	76000	-			
15000	126.62	11		37	**19**	12	10	6.0	4.7	76000	-			
15000	142.32	10		33	**17**	11	8.9	5.4	4.2	76000	466			
15000	161.34	8.7		29	**15**	9.5	7.9	4.7	3.7	76000	1260			
15000	184.83	7.6		26	**13**	8.3	6.9	4.1	3.2	76000	2069			
15000	207.95	6.7		23	**11**	7.4	6.1	3.7	2.9	76000	2278			
15000	235.47	5.9		20	**10**	6.5	5.4	3.3	2.5	76000	2474			



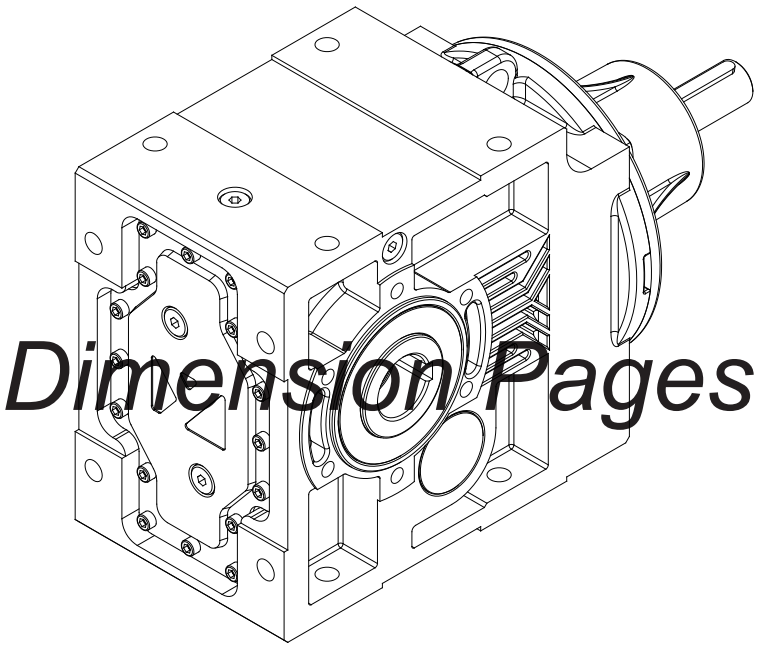
K Serisi Motorsuz Güç Devir Sayfaları
K Series Gear Units Performance Tables
K Serien Getriebe Leistung und Drehzahlübersicht



Anma Momenti *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Çevrim Oranı** *Ratio* Übersetzung i	**Çıkış Devri** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**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=1400rpm)	**Güv.Rad.Yük Giriş** *Per.O.Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Ağırlık** *Weight* Gewicht [kg]	**Ölçü Sayfası** *Dim. Page* Maße Seite	**Fiyat Kodu** *Price Ref.* Preis No.
				n1=2800	**n1=1400**	n1=900	n1=750	n1=450	n1=350					
15000	287.10	4.9	**KT874**	17	**8.3**	5.4	4.5	2.7	2.1	76000	2653	630	458	KT025
15000	339.70	4.1		14	**7.1**	4.5	3.8	2.3	1.8	76000	2702			
15000	383.99	3.6		12	**6.2**	4.0	3.4	2.0	1.6	76000	2732			
15000	438.70	3.2		11	**5.5**	3.5	2.9	1.8	1.4	76000	2761			
15000	463.83	3.0	**KT875**	11	**5.3**	3.4	2.8	1.7	1.3	76000	-	640	462	KT026
15000	514.05	2.7		9.5	**4.8**	3.1	2.6	1.5	1.2	76000	-			
15000	584.66	2.4		8.4	**4.2**	2.7	2.3	1.4	1.1	76000	-			
15000	673.01	2.1		7.3	**3.6**	2.3	2.0	1.20	0.91	76000	-			
15000	751.30	1.9		6.5	**3.3**	2.1	1.8	1.1	0.82	76000	-			
15000	844.51	1.7		5.8	**2.9**	1.9	1.6	0.93	0.73	76000	-			
15000	957.34	1.5		5.1	**2.6**	1.7	1.4	0.83	0.64	76000	-			
15000	1096.71	1.3		4.5	**2.2**	1.4	1.2	0.72	0.56	76000	-			
15000	1313.07	1.1		3.8	**1.9**	1.2	1.0	0.60	0.47	76000	-			
15000	1495.27	0.94		3.3	**1.7**	1.1	0.89	0.53	0.41	76000	-			
15000	1671.18	0.84		3.0	**1.5**	0.95	0.79	0.48	0.37	76000	-			
15000	1891.08	0.74		2.6	**1.3**	0.84	0.70	0.42	0.33	76000	-			
15000	2074.42	0.67	**KT876**	2.4	**1.2**	0.78	0.65	0.39	0.30	76000	1922	650	462	KT027
15000	2387.89	0.59		2.1	**1.1**	0.68	0.57	0.34	0.26	76000	1939			
15000	2665.68	0.53		1.9	**0.95**	0.61	0.51	0.30	0.26	76000	1951			
15000	2996.39	0.47		1.7	**0.84**	0.54	0.45	0.27	0.23	76000	1962			
15000	3396.71	0.41		1.5	**0.74**	0.48	0.40	0.27	0.21	76000	1973			
15000	3891.23	0.36		1.3	**0.65**	0.42	0.35	0.23	0.18	76000	1983			
15000	4299.81	0.33		1.2	**0.59**	0.38	0.32	0.21	0.16	76000	1986			
15000	5018.35	0.28		1.0	**0.51**	0.32	0.27	0.18	0.14	76000	1990			
15000	5902.70	0.24		0.86	**0.43**	0.28	0.26	0.15	0.12	76000	1994			
15000	7017.76	0.20		0.73	**0.36**	0.26	0.22	0.13	0.10	76000	1998			
15000	7938.12	0.18		0.64	**0.32**	0.23	0.19	0.11	0.09	76000	2000			
15000	9052.24	0.15		0.56	**0.28**	0.20	0.17	0.10	0.08	76000	2002			
15000	11245.67	0.12		0.50	**0.25**	0.18	0.15	0.09	0.07	76000	2005			
15000	12789.19	0.11		0.44	**0.22**	0.16	0.13	0.08	0.06	76000	2006			

Notlar / *Notes* / Notizen

Ölçü Sayfaları

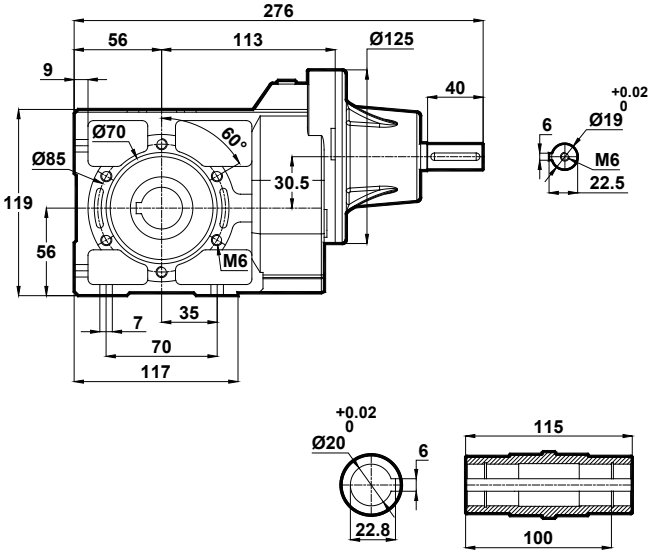


Dimension Pages

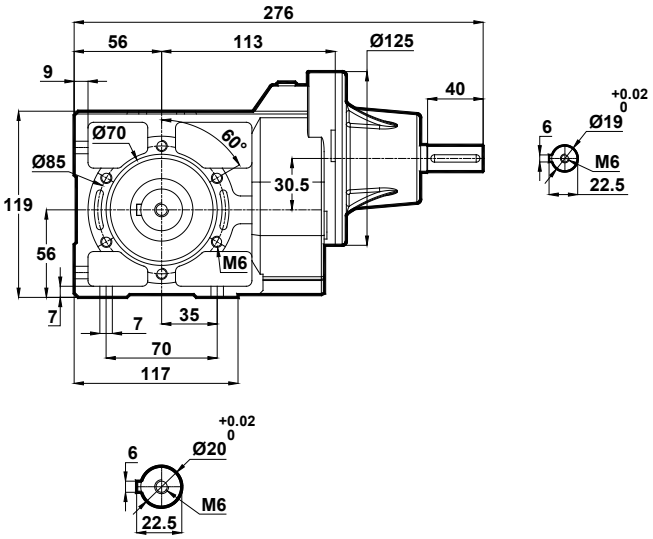
Abmessungsseiten

-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

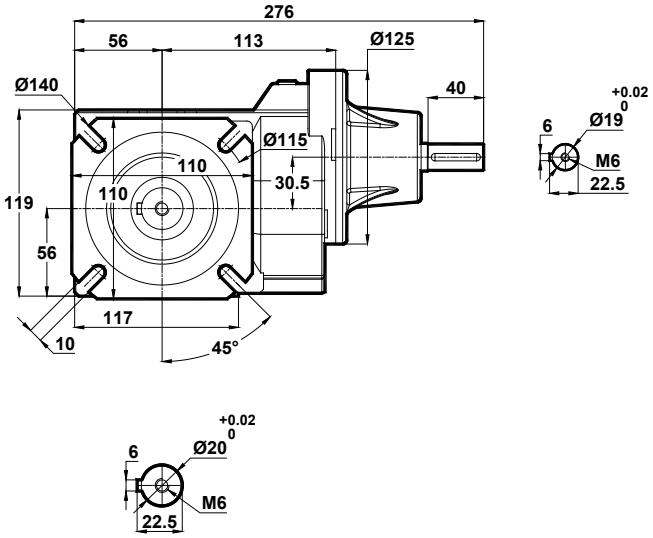


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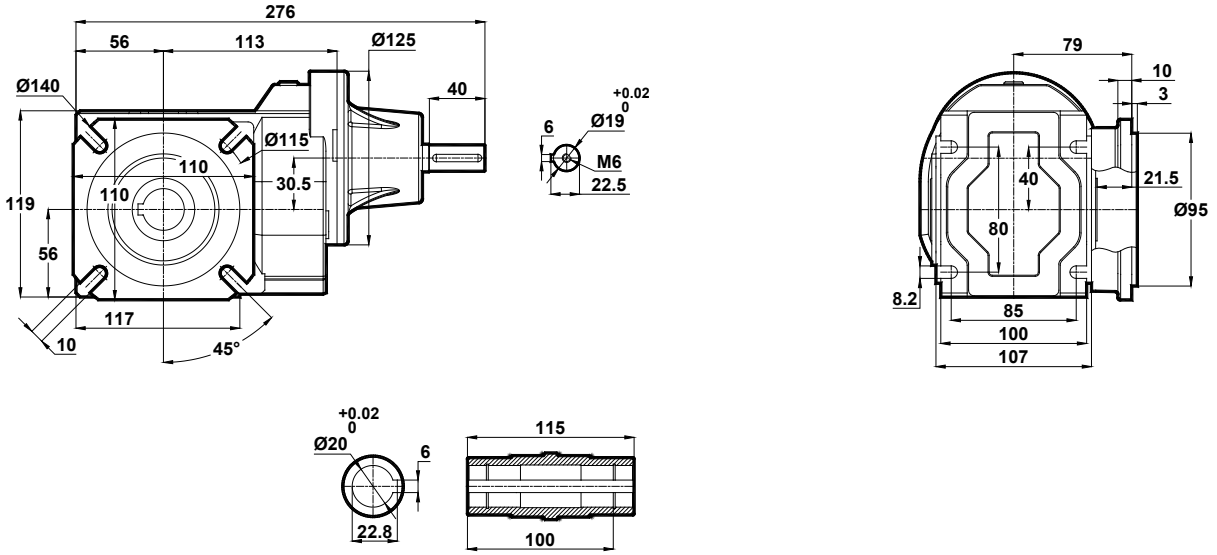


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KT003.02

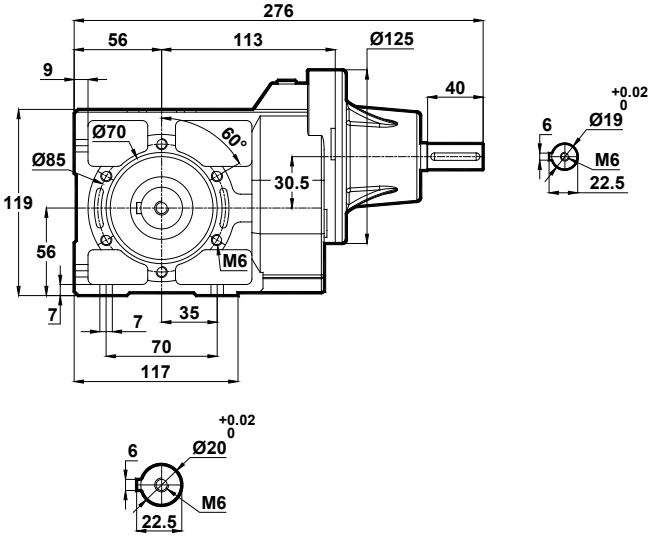


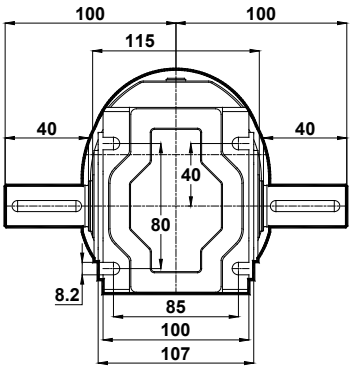
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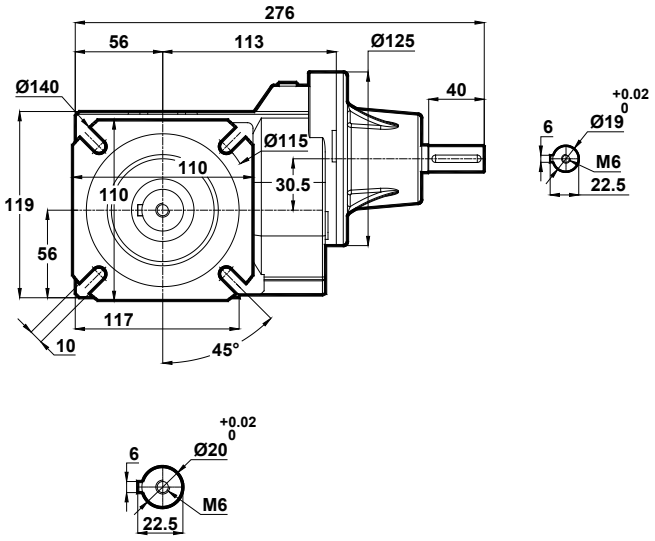
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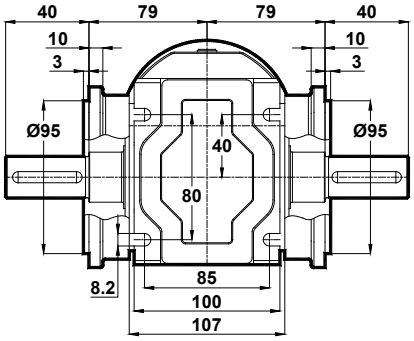
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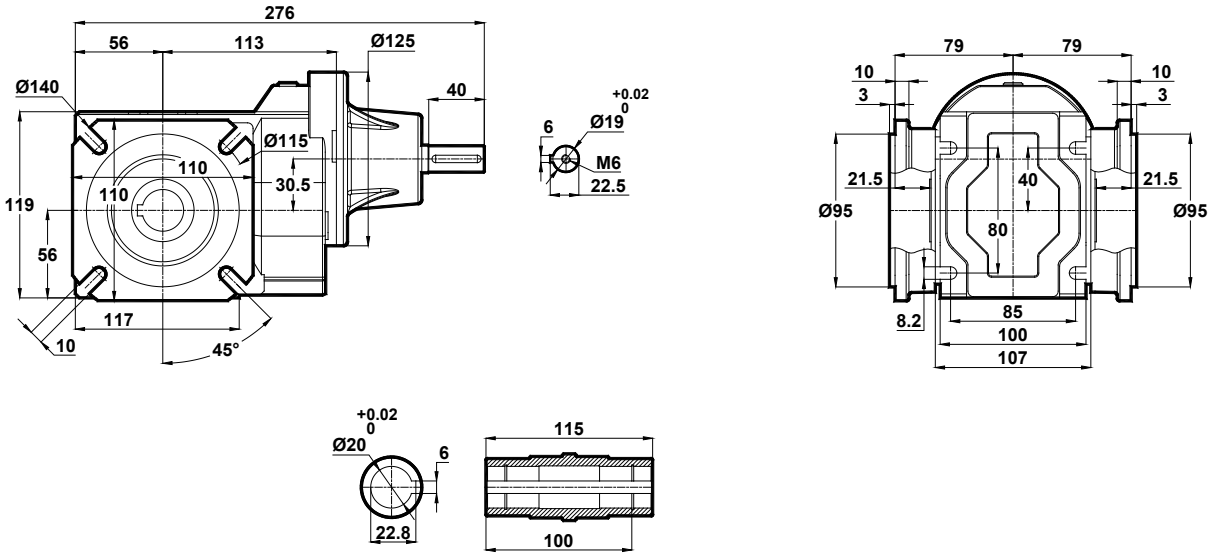
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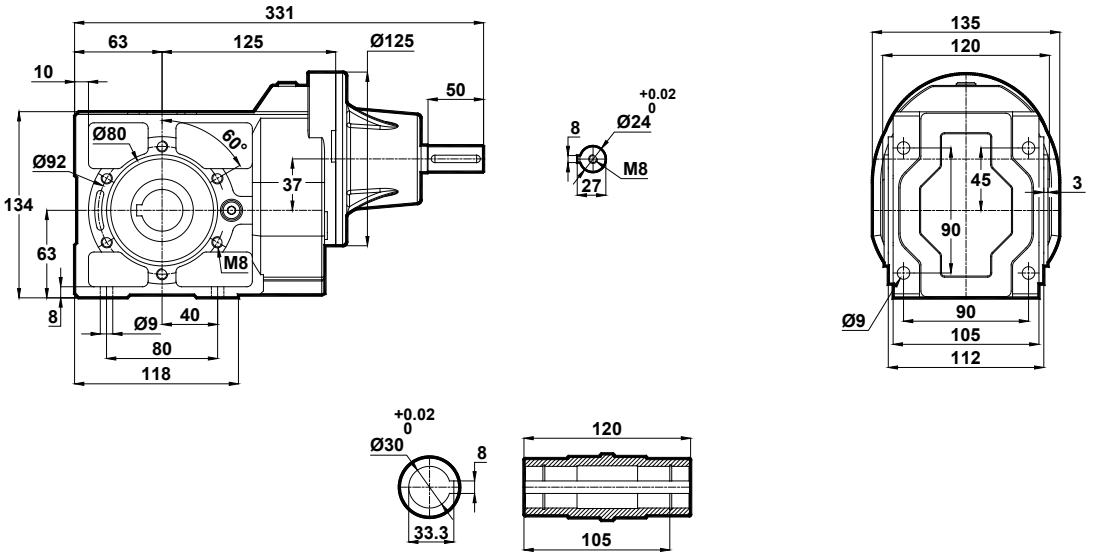
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KT002.08
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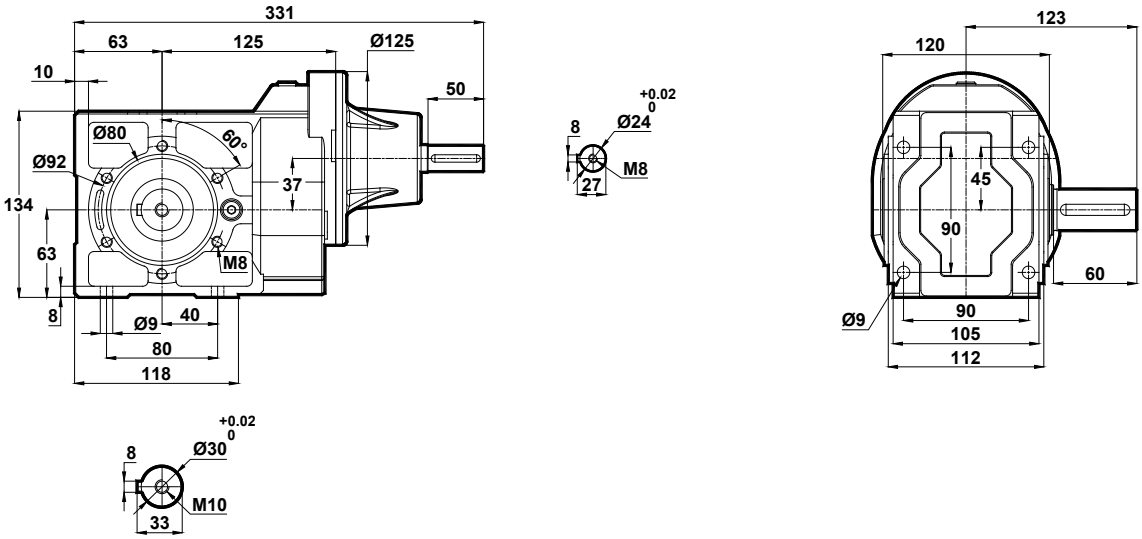


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KT102.00
KT103.00

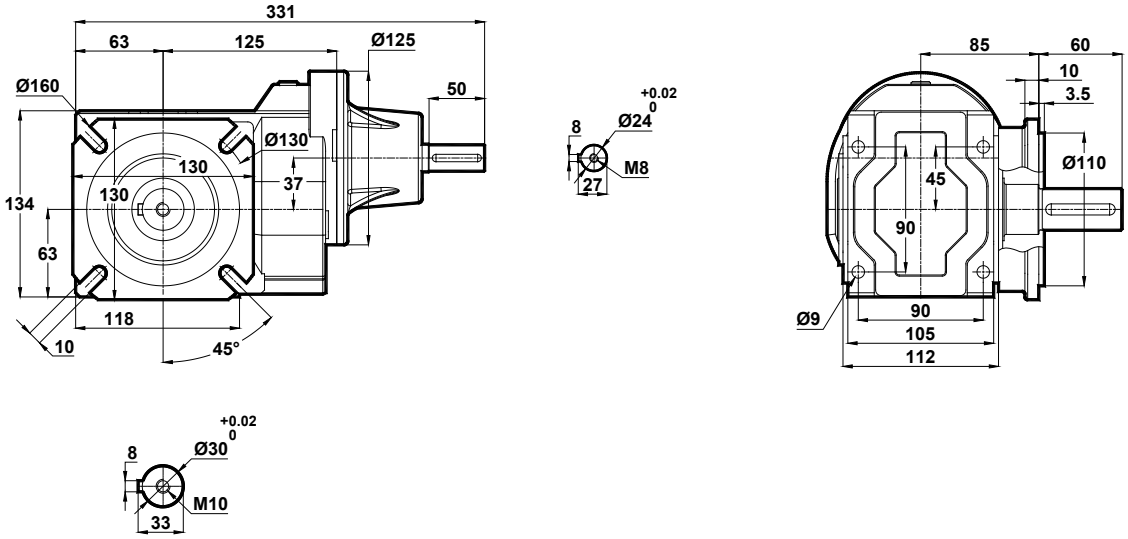


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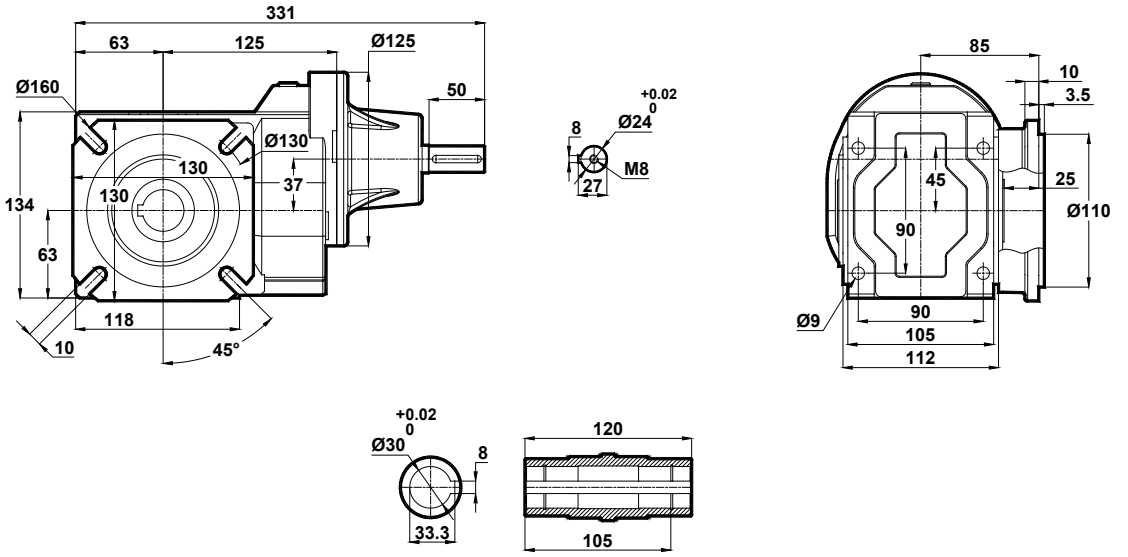


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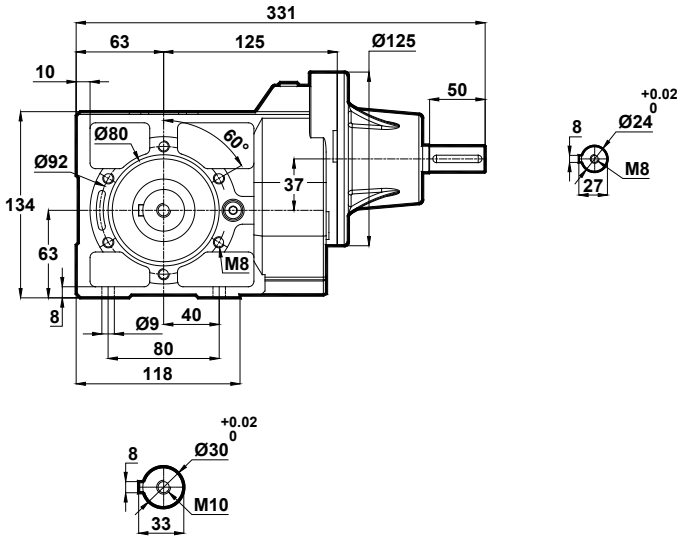


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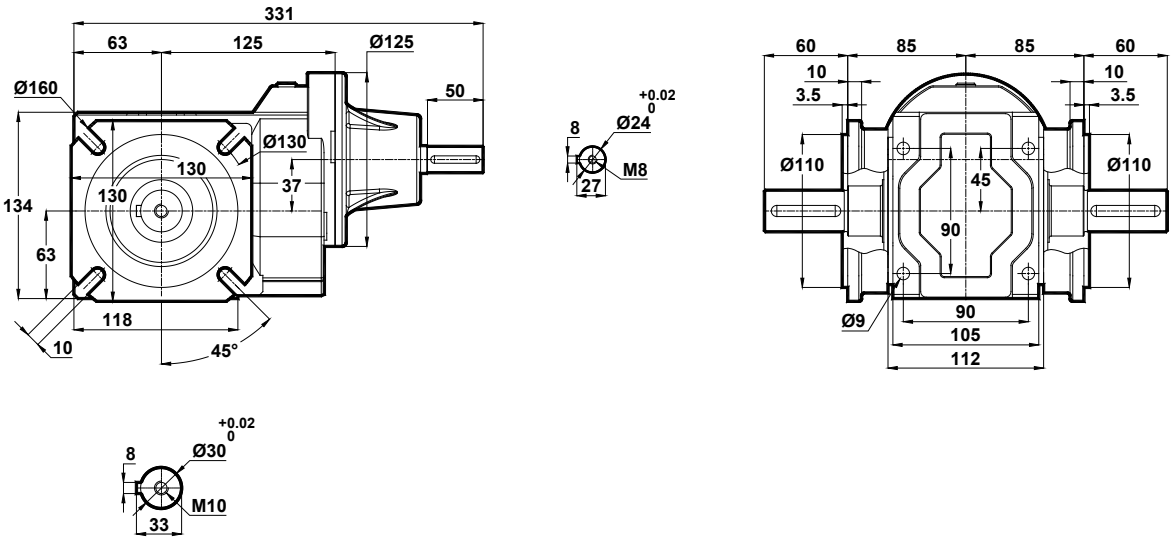


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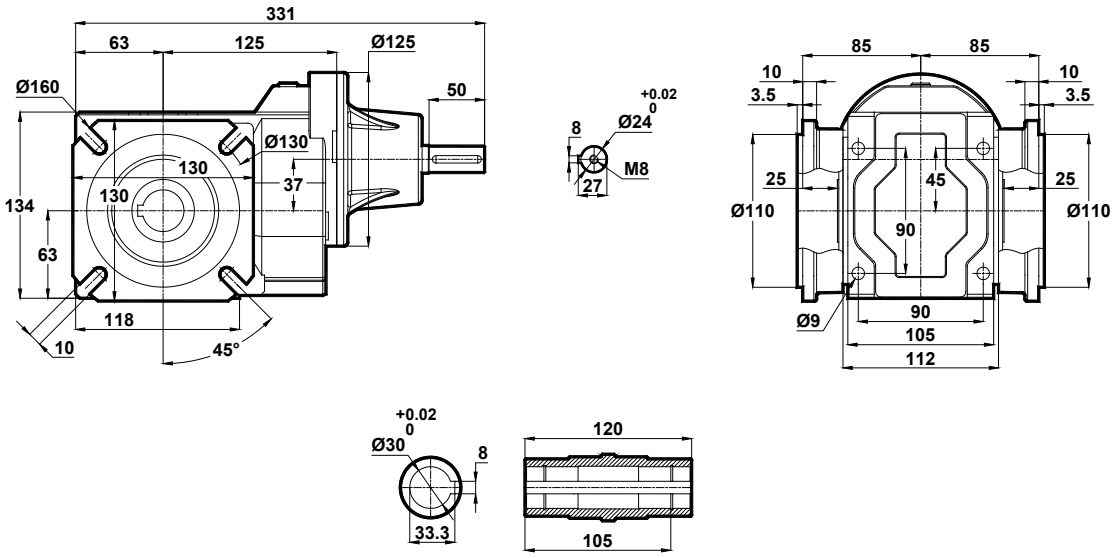


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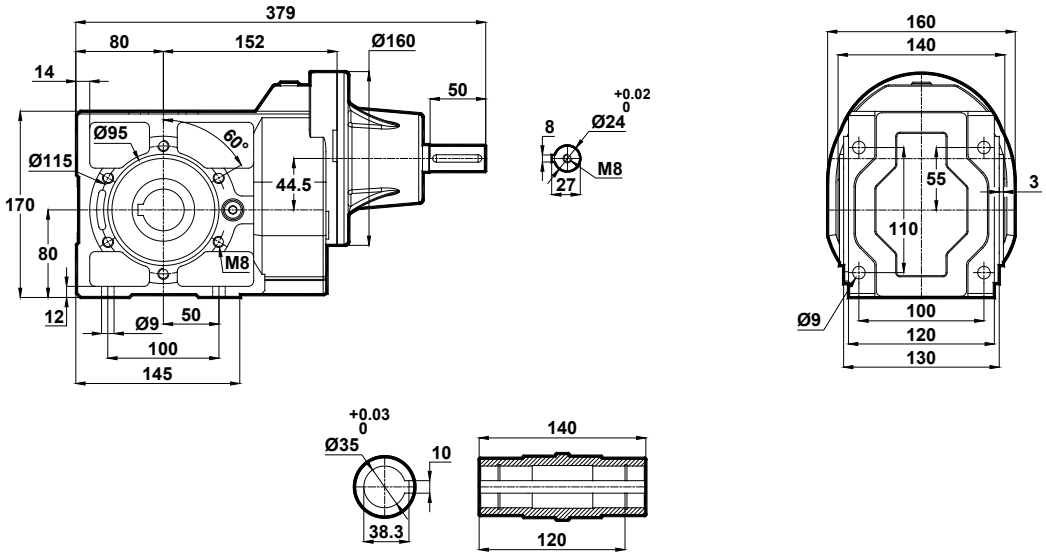
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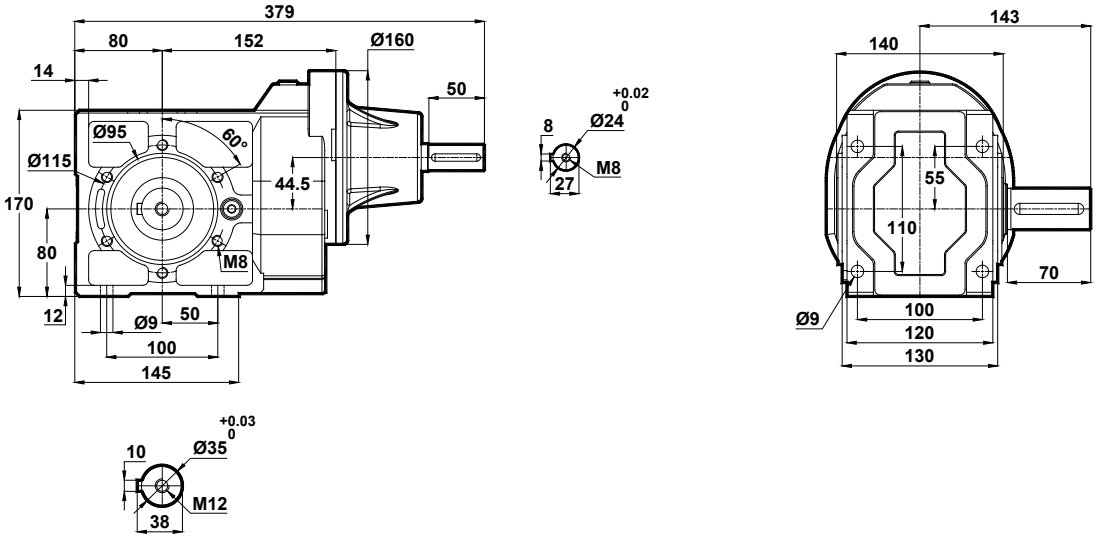


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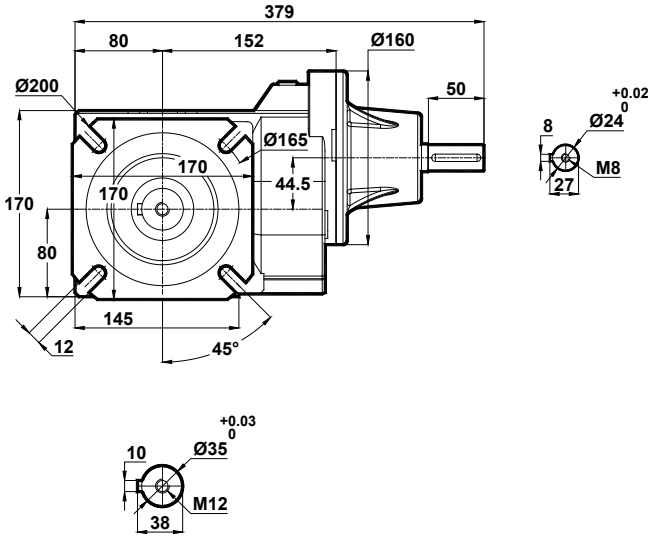


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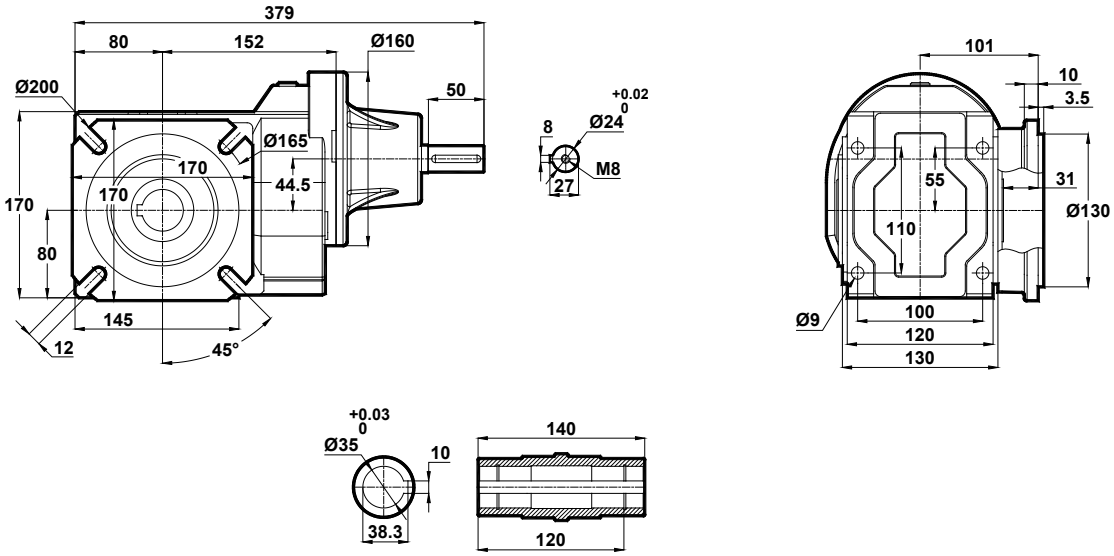


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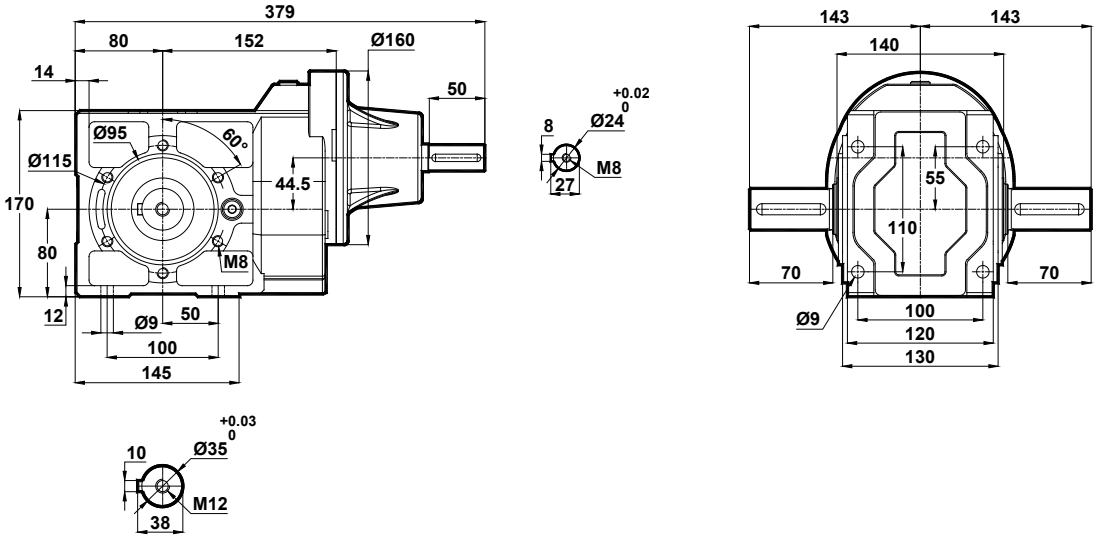


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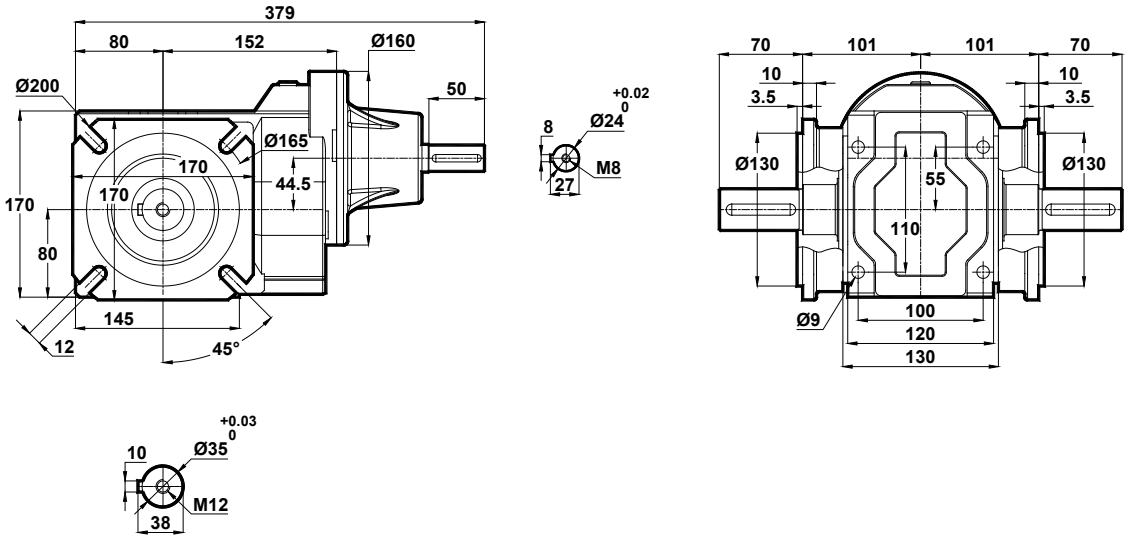


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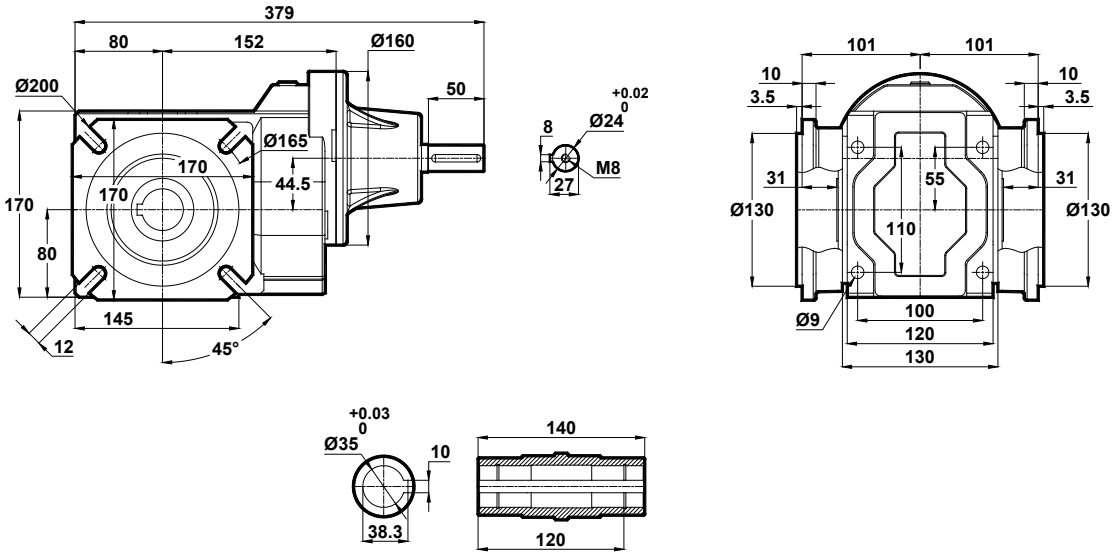


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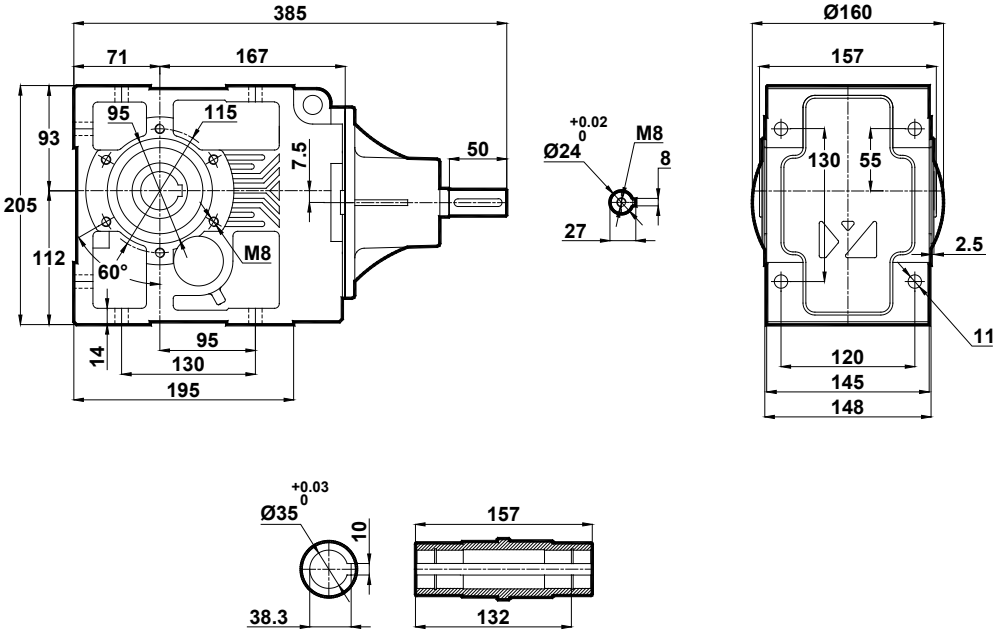
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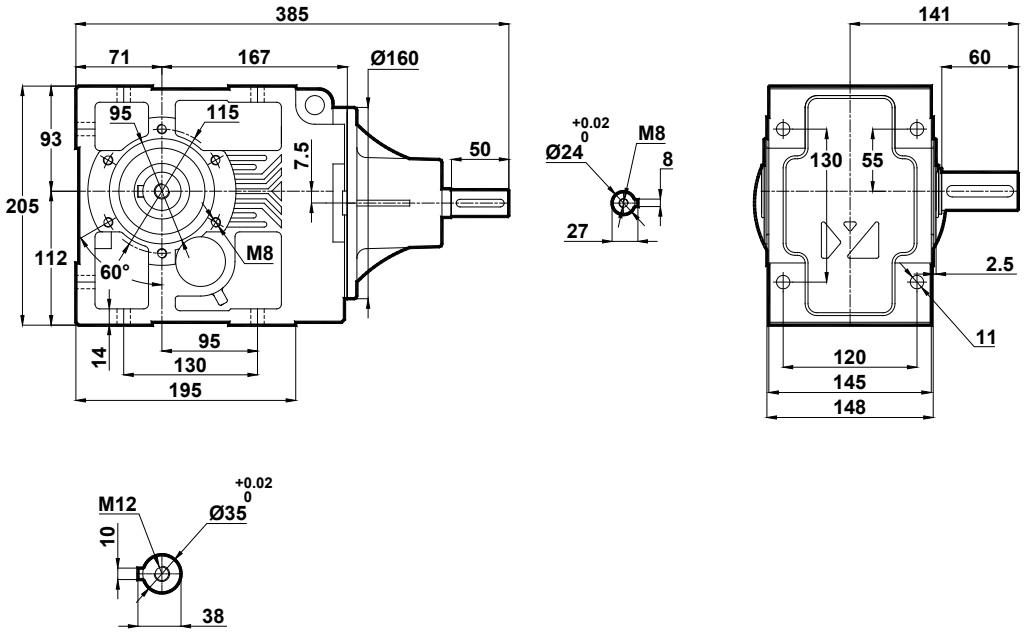


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KT273.00

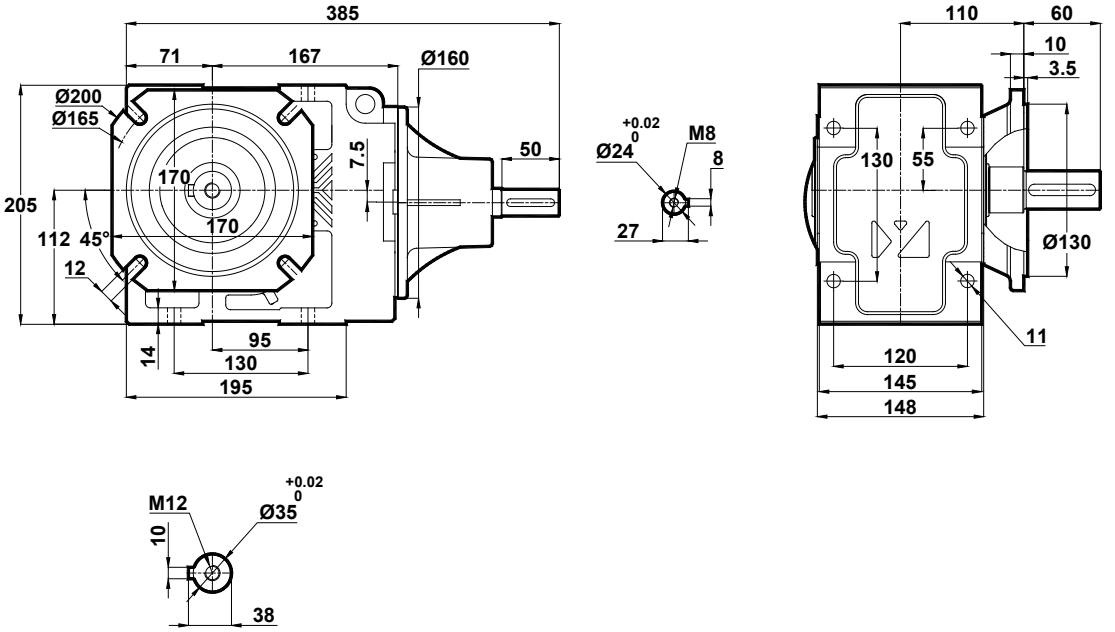


KT273.01

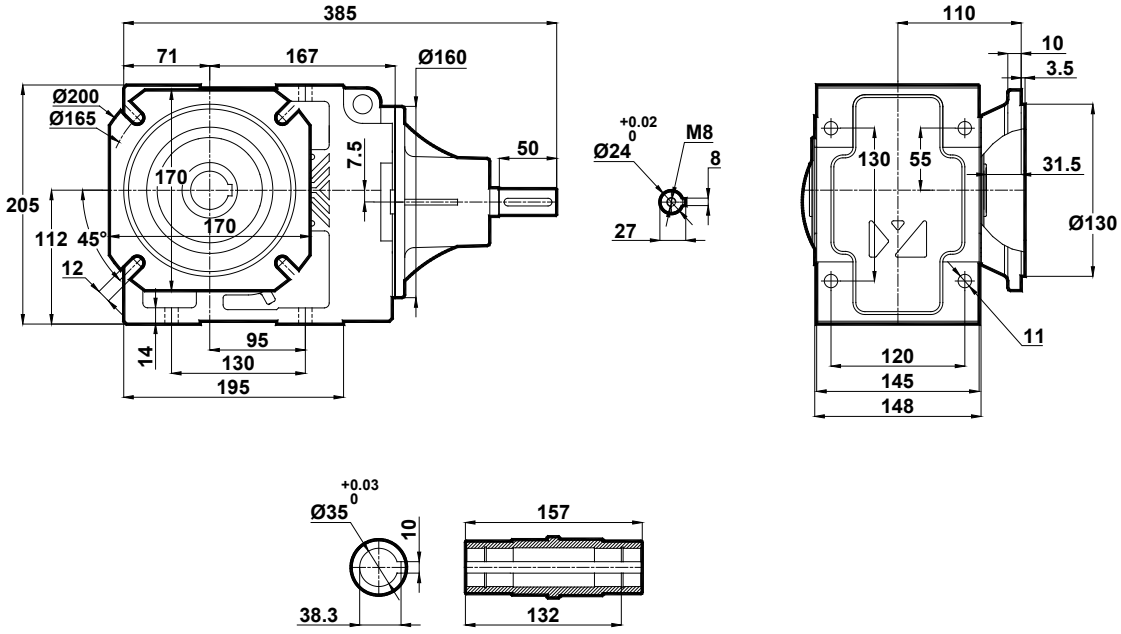


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT273.02

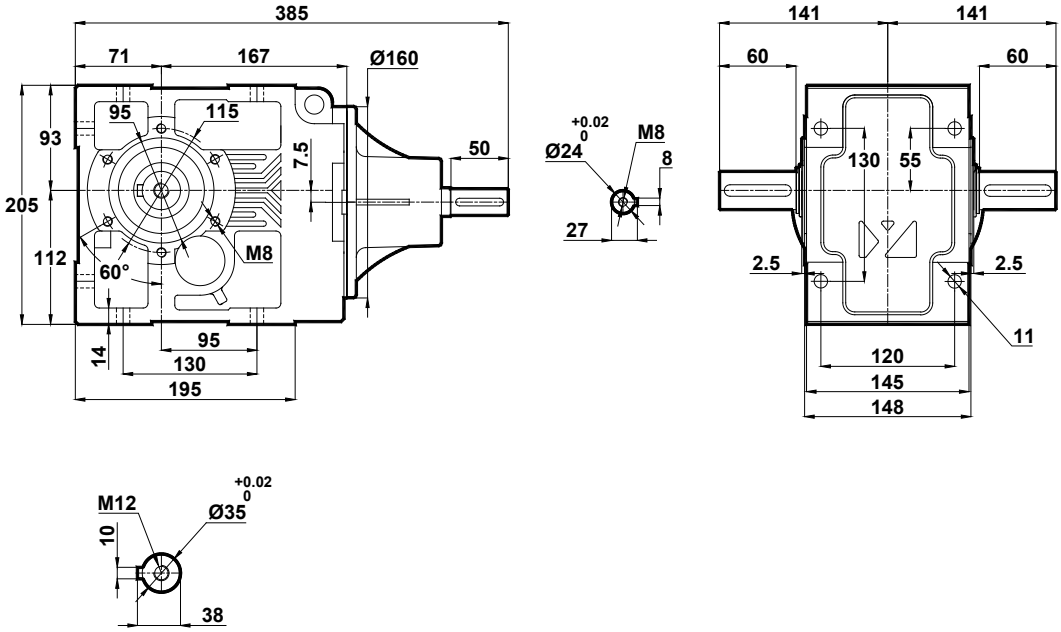


KT273.03

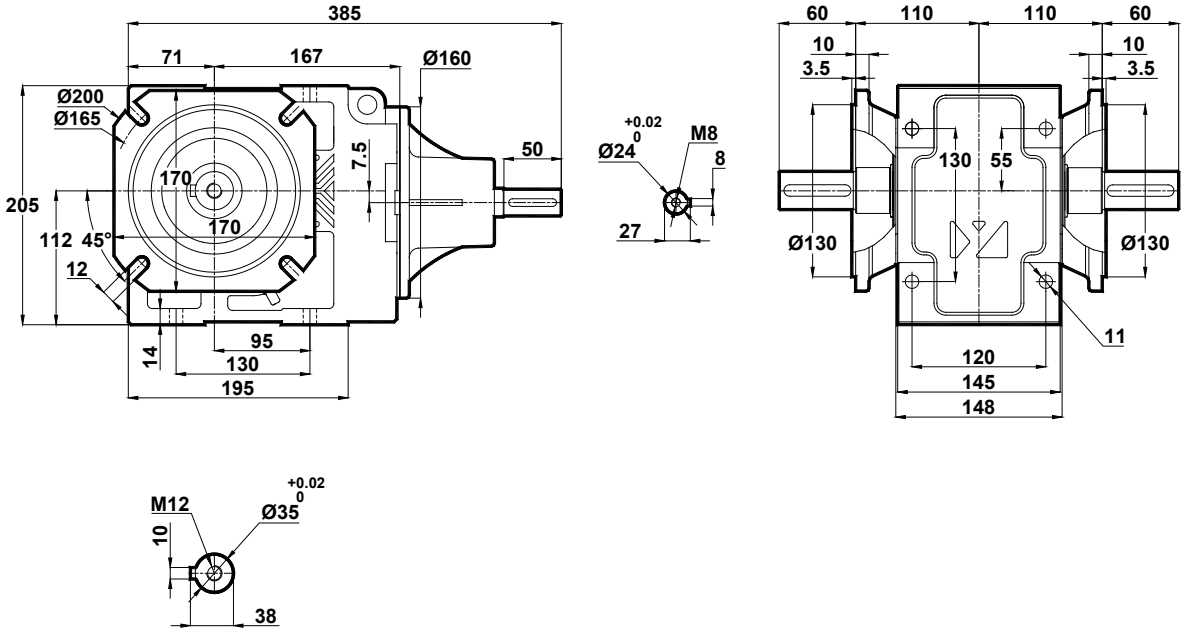


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KT273.04

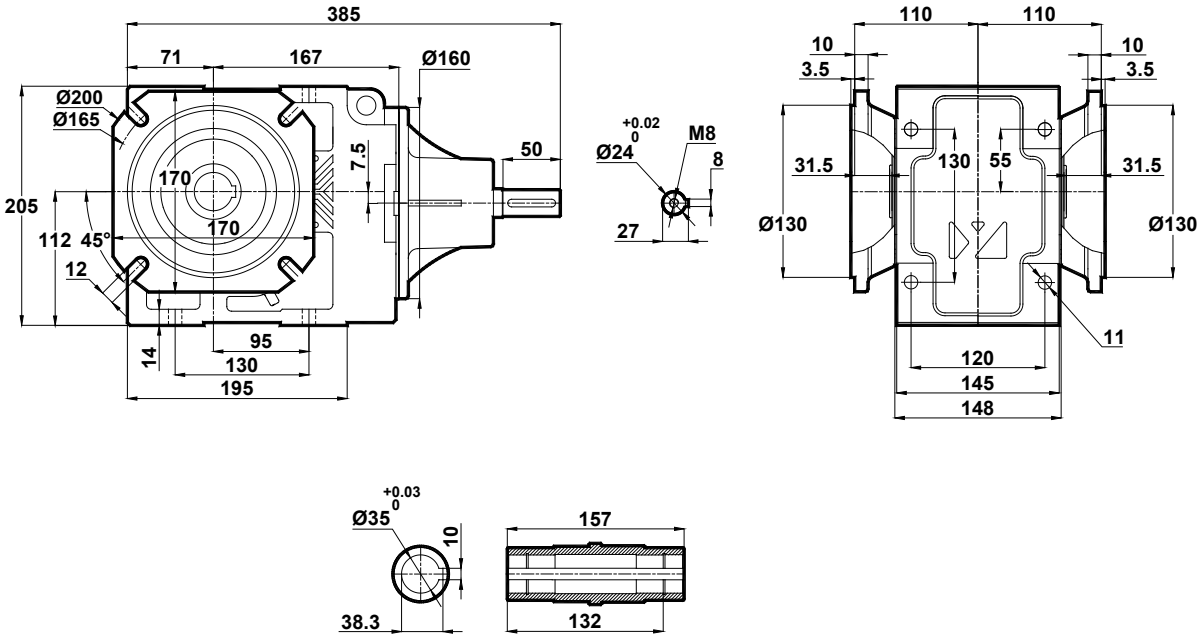


KT273.05



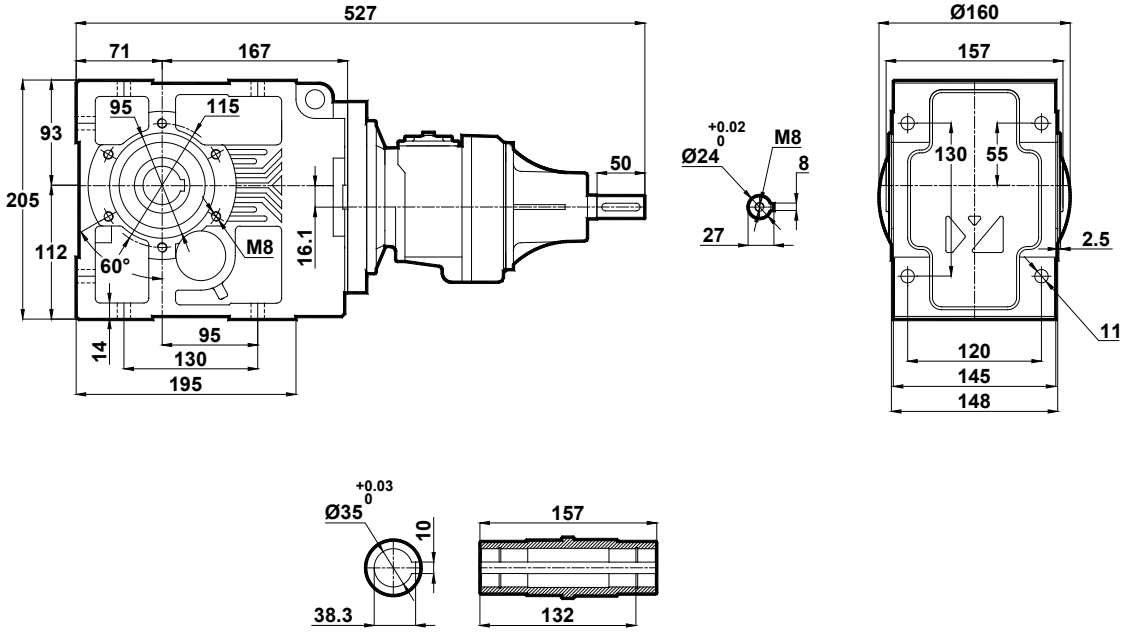
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KT273.08

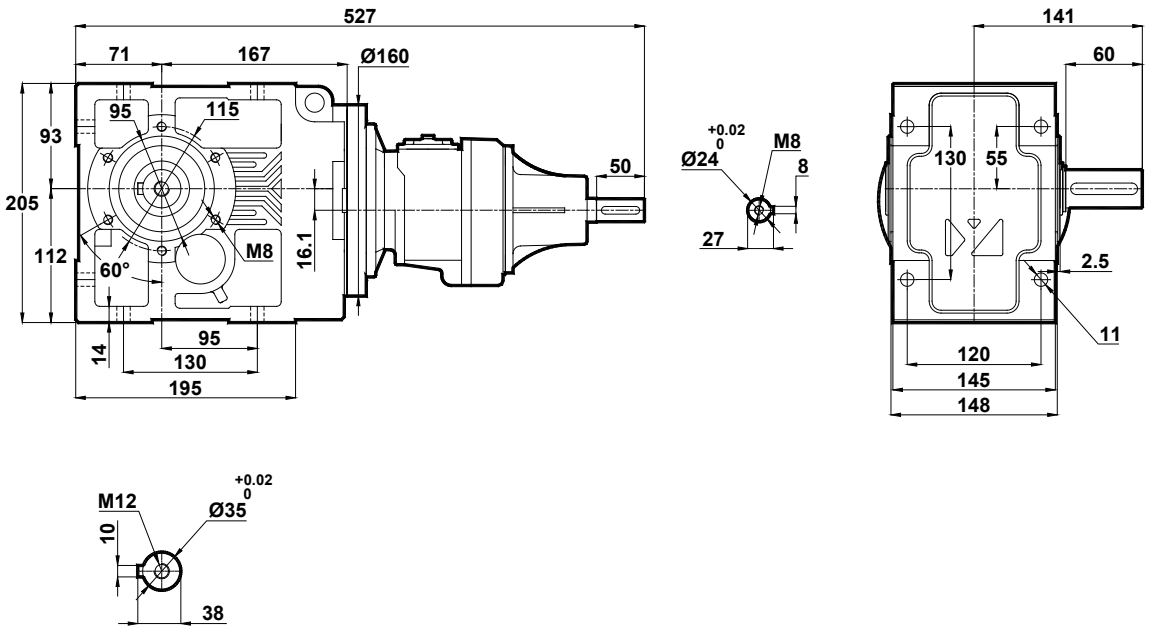


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KT275.00
KT276.00

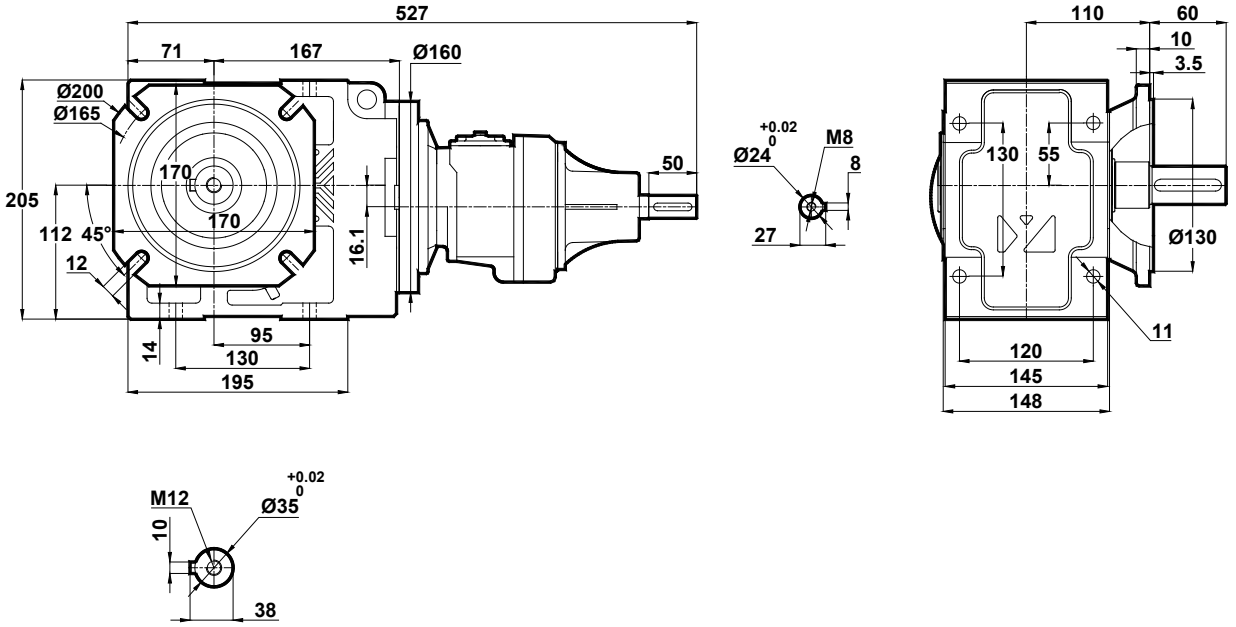


KT275.01
KT276.01

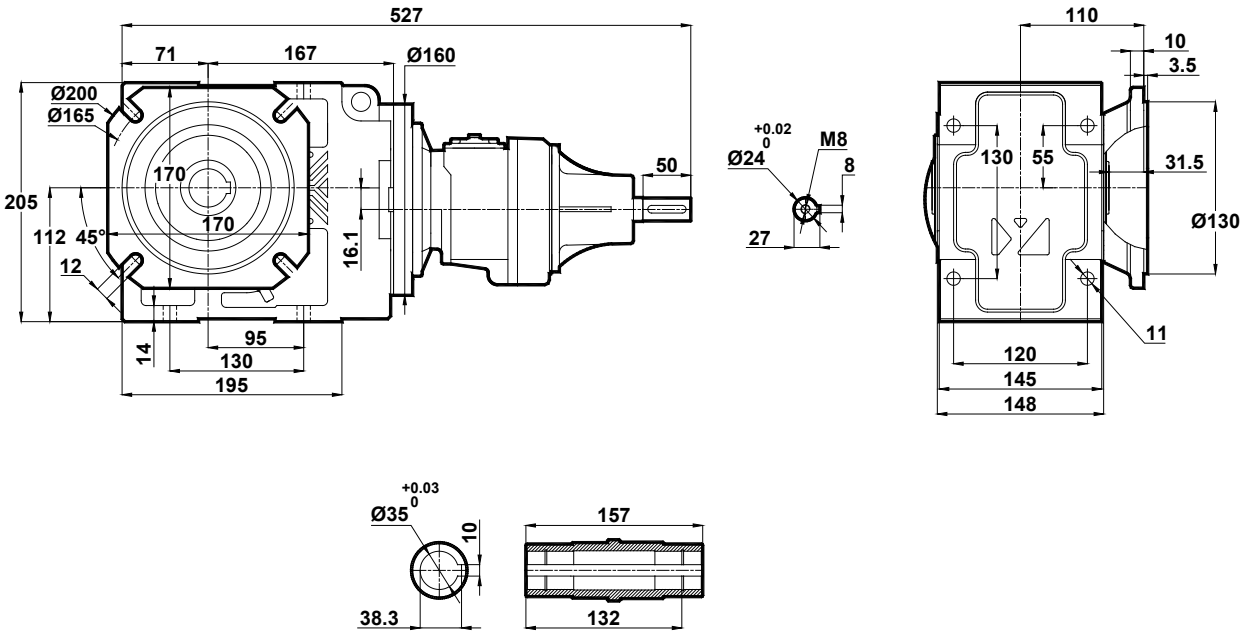


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KT275.02
KT276.02

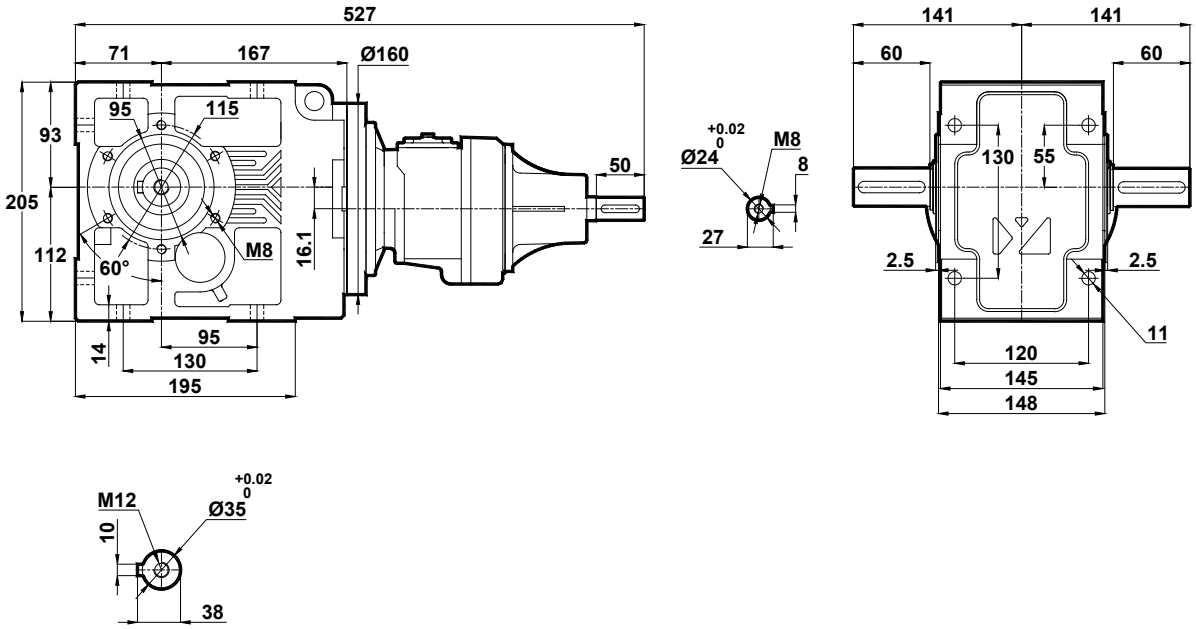


KT275.03
KT276.03

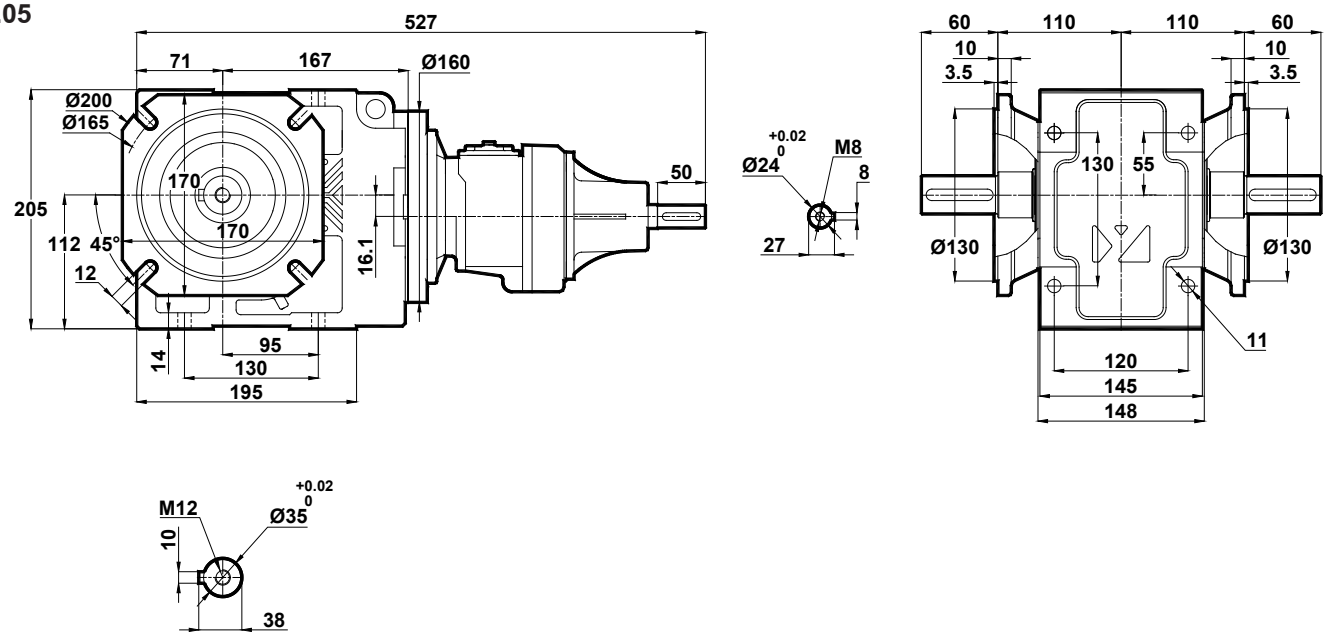


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KT275.04
KT276.04

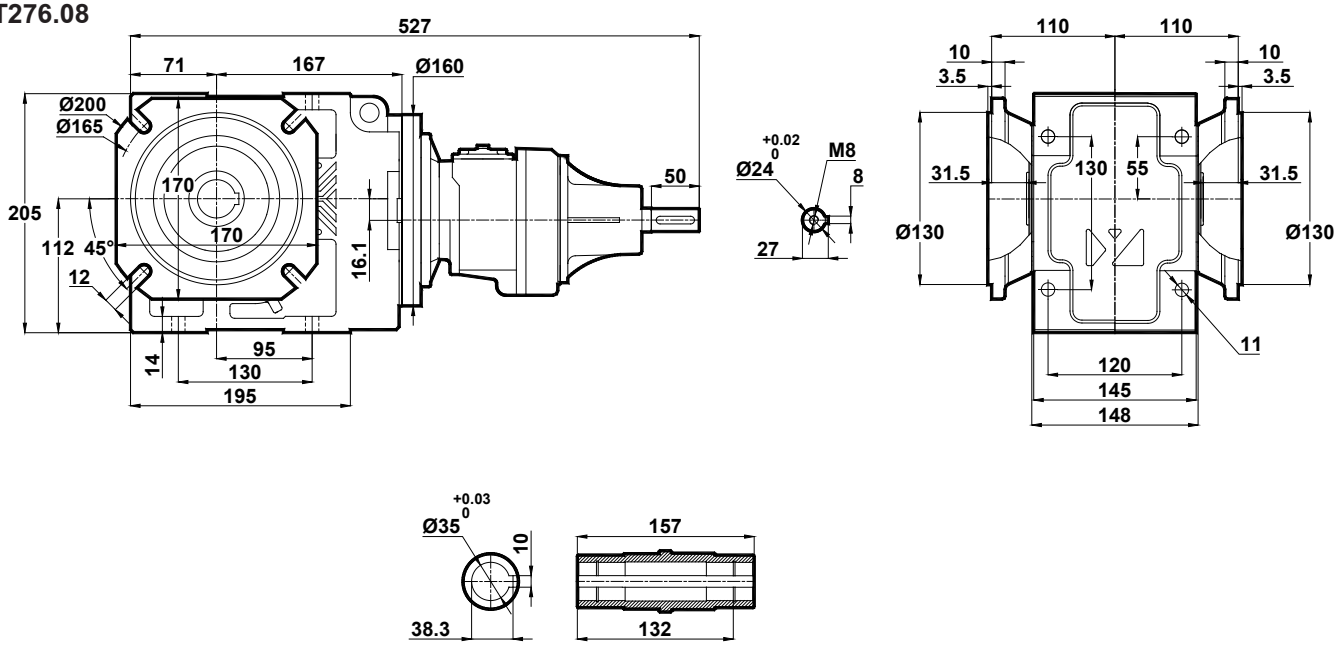


KT275.05
KT276.05



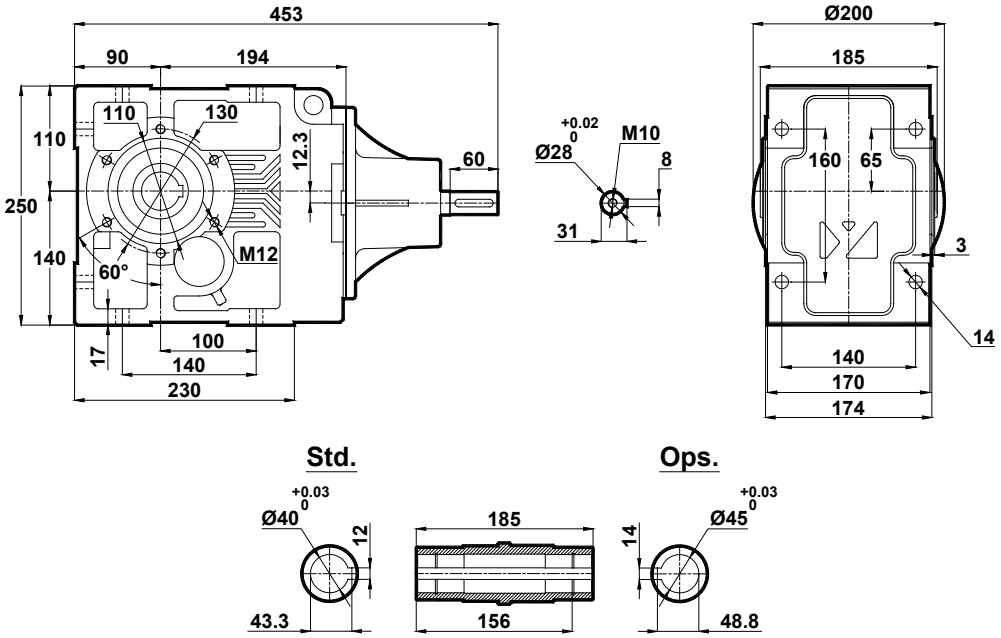
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT275.08
KT276.08



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

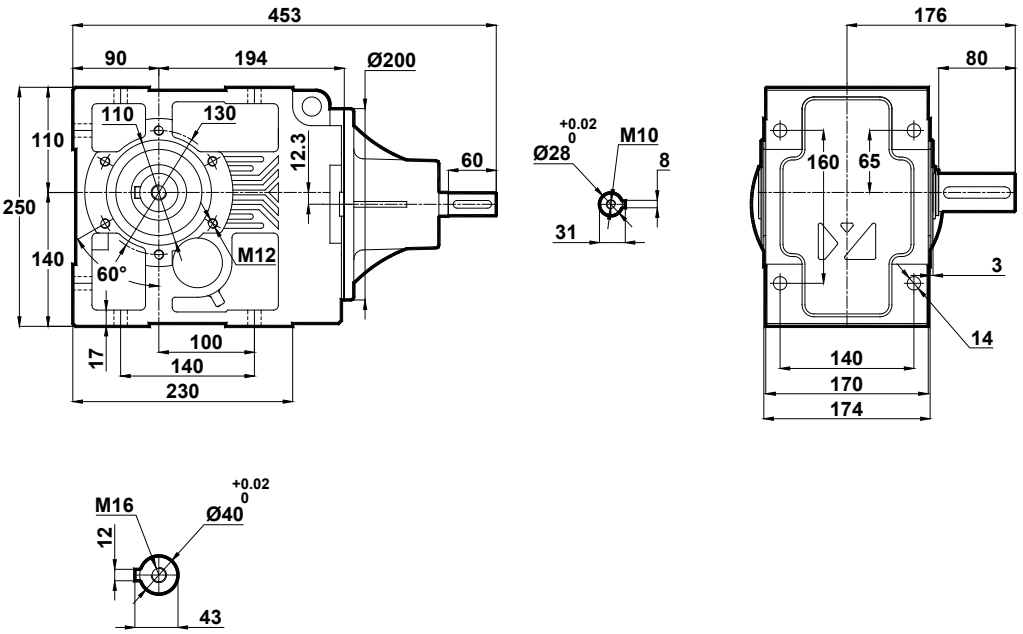
KT373.00



Std.

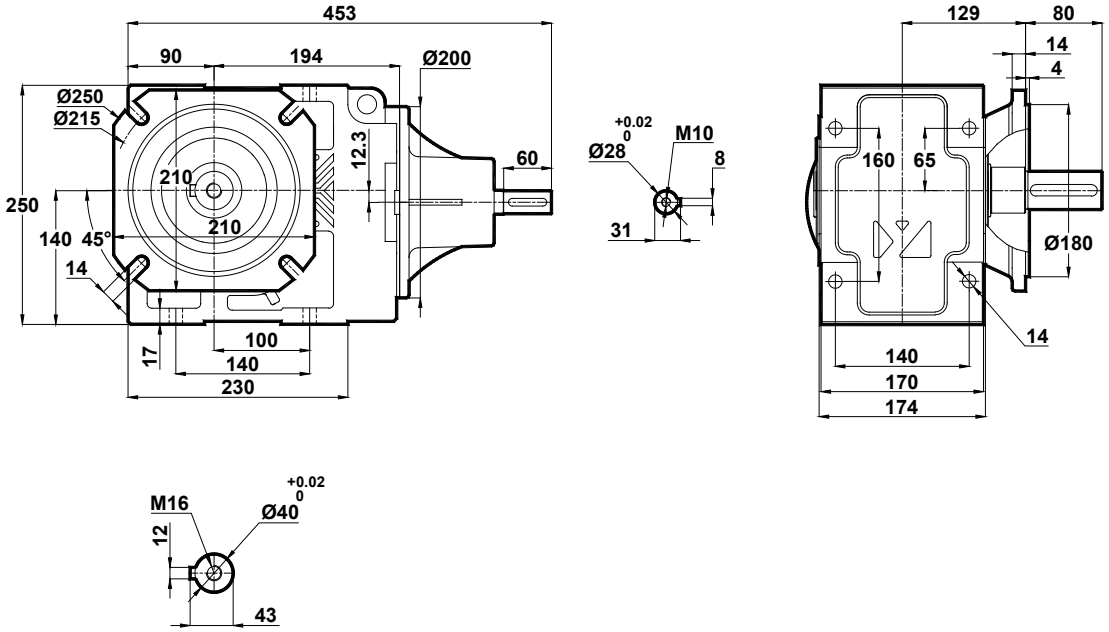
Ops.

KT373.01

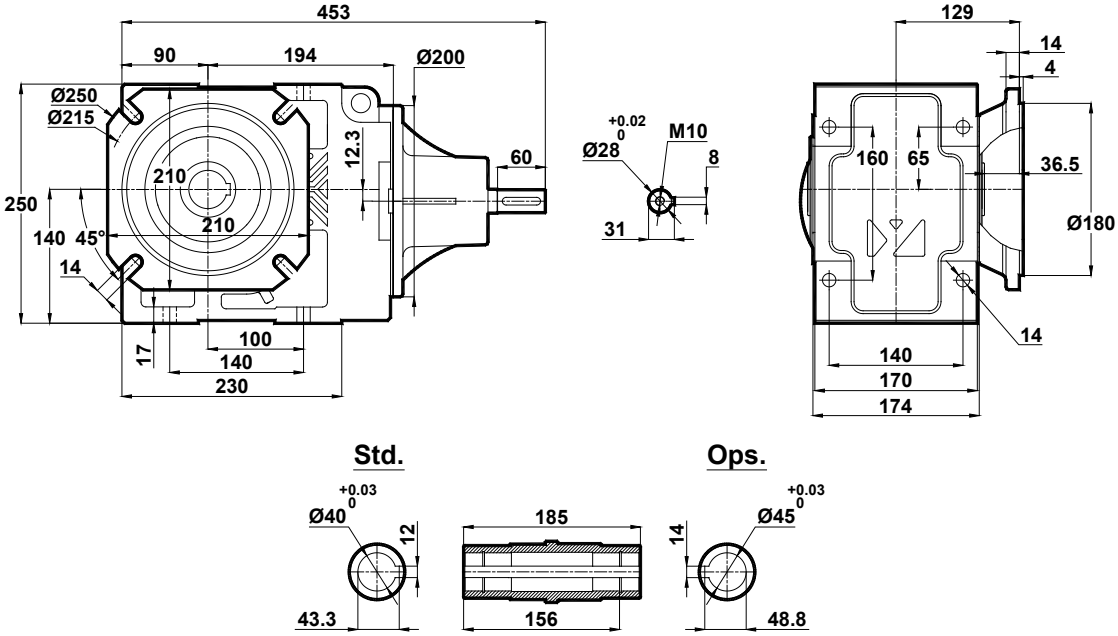


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT373.02

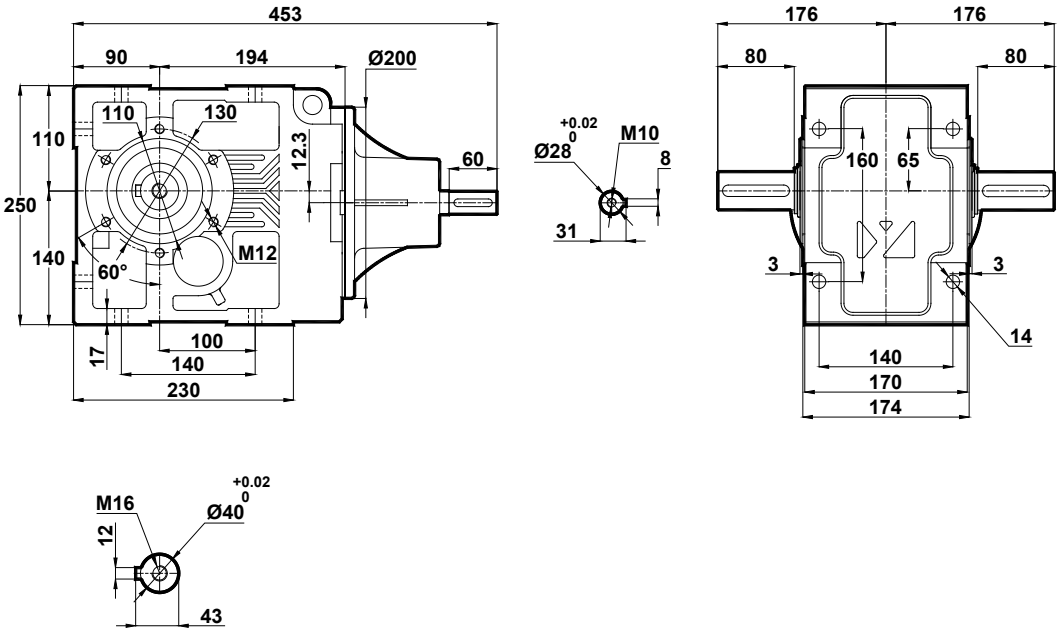


KT373.03

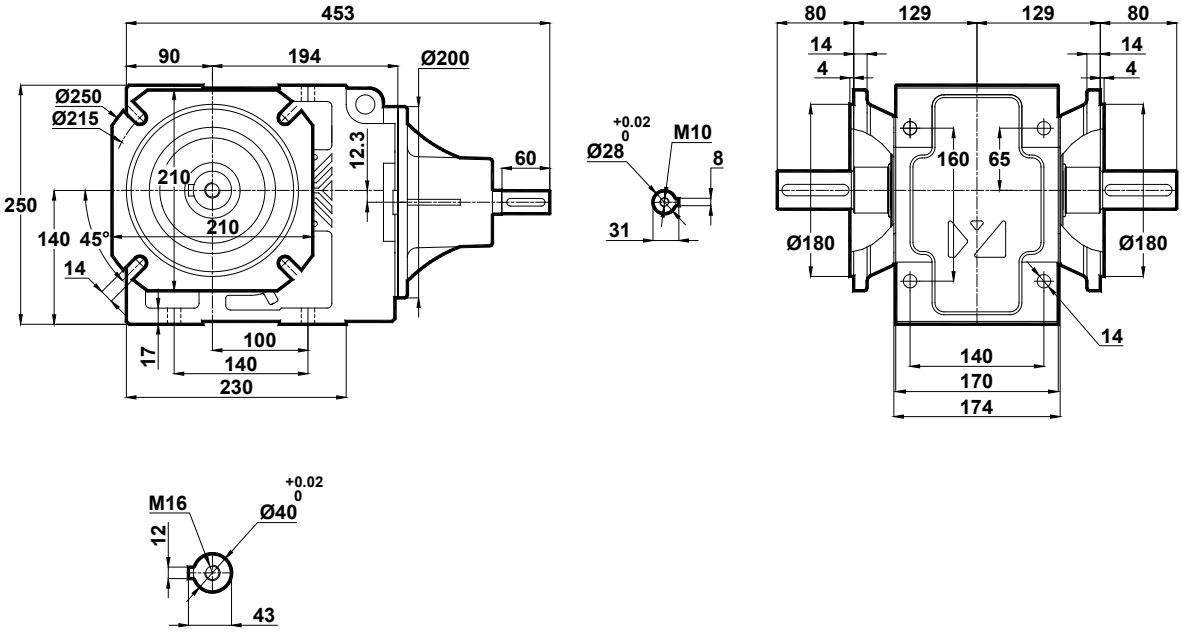


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KT373.04

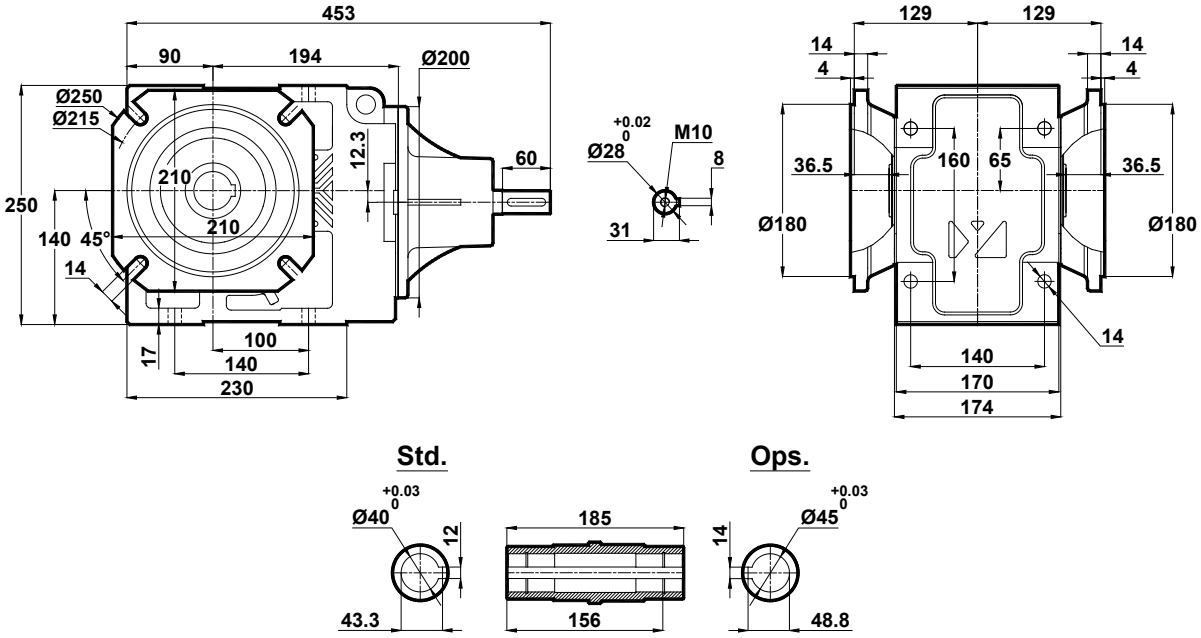


KT373.05



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

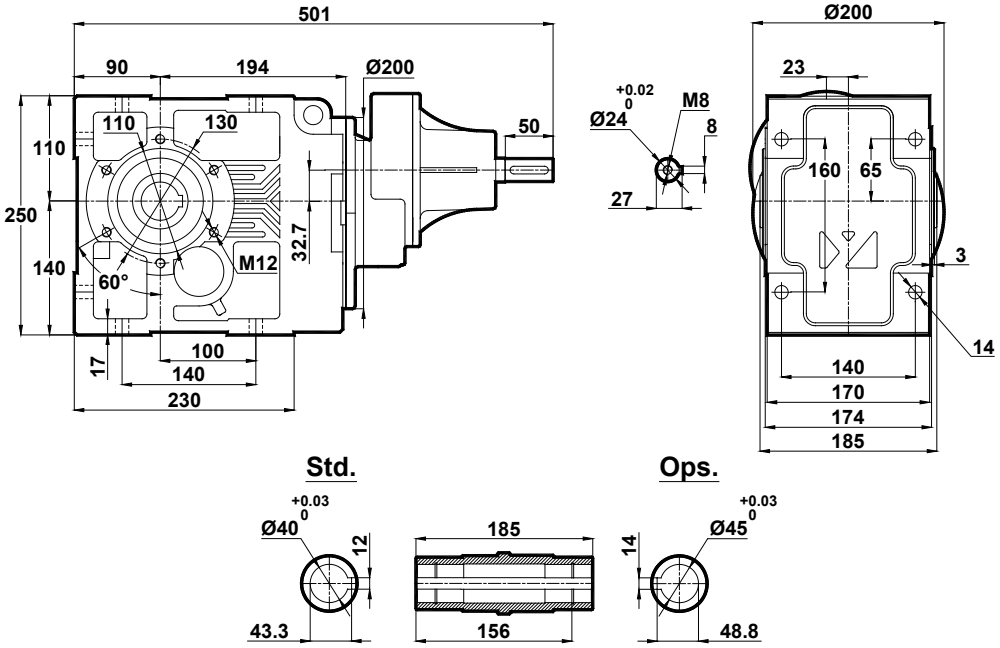
KT373.08



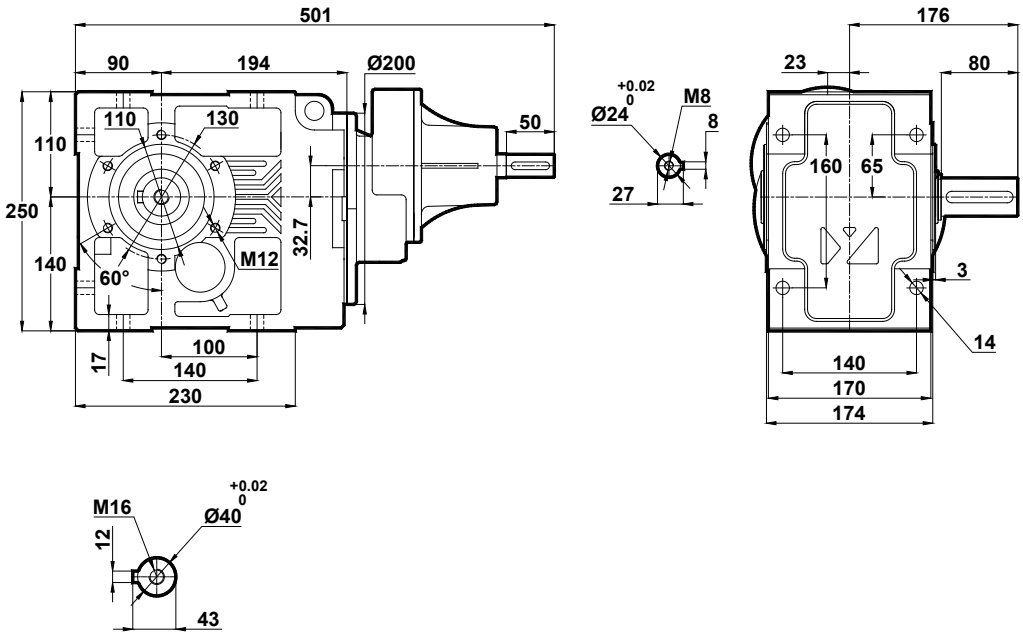
Std. **Ops.**

-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

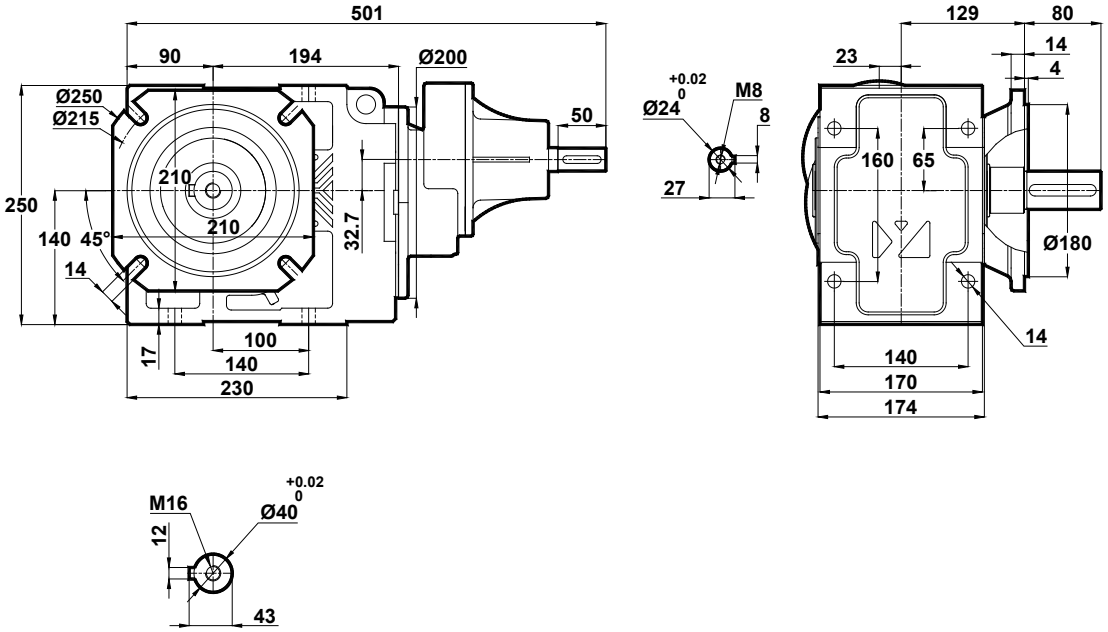


KT374.01

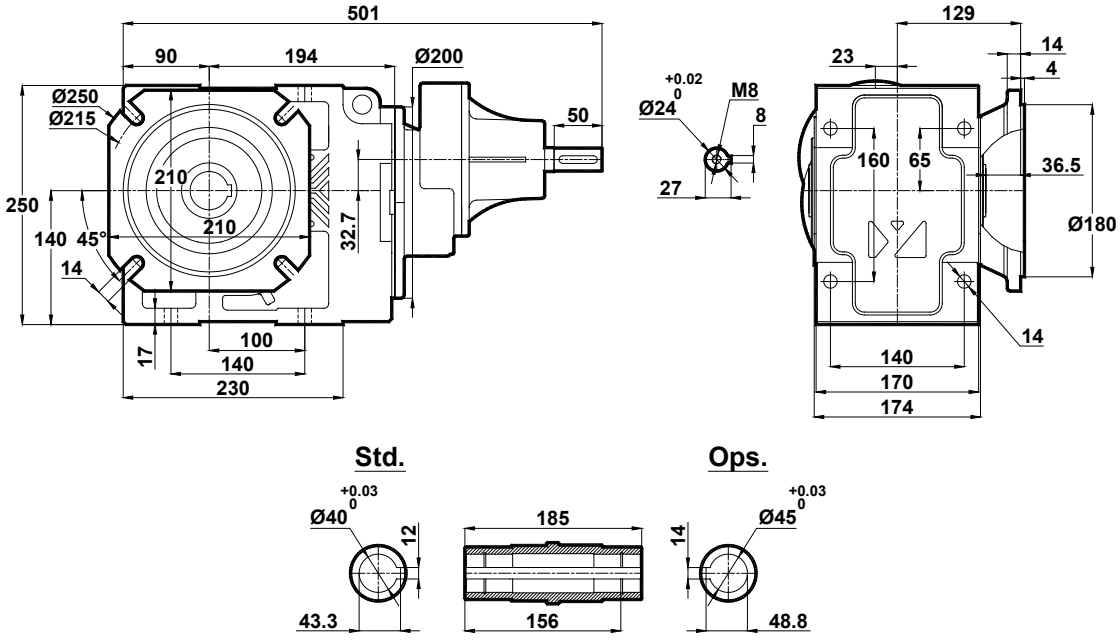


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT374.02

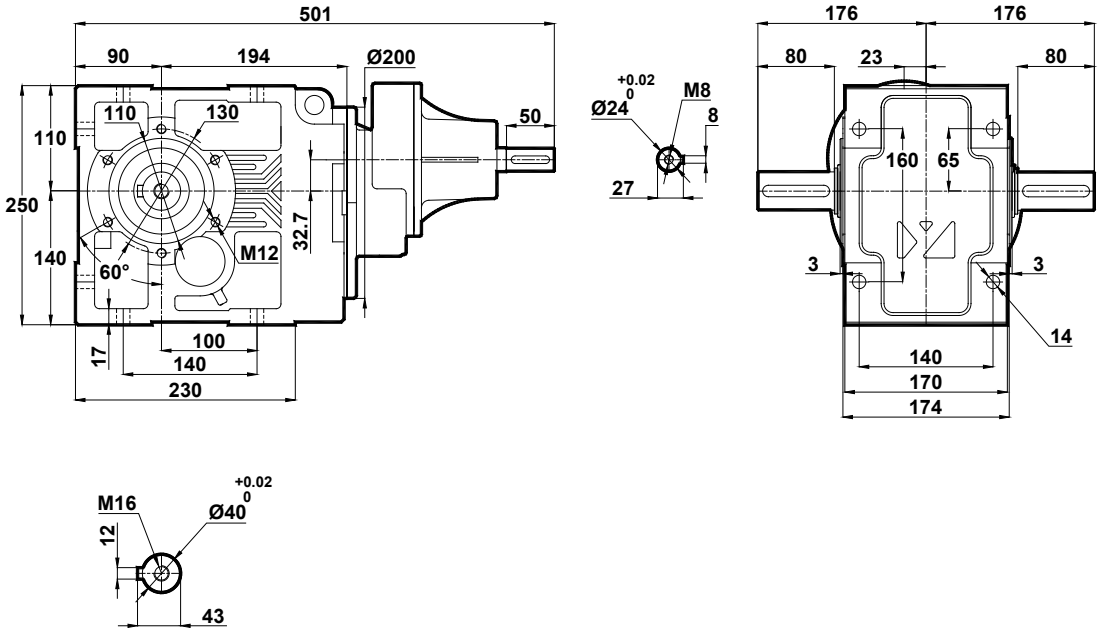


KT374.03

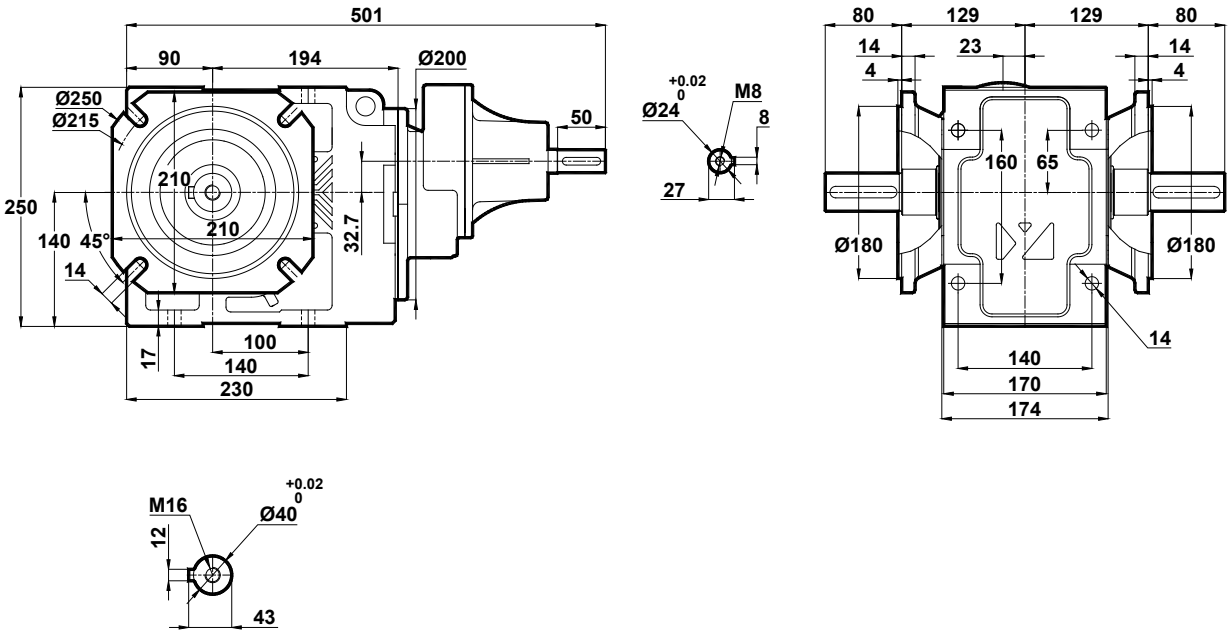


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KT374.04

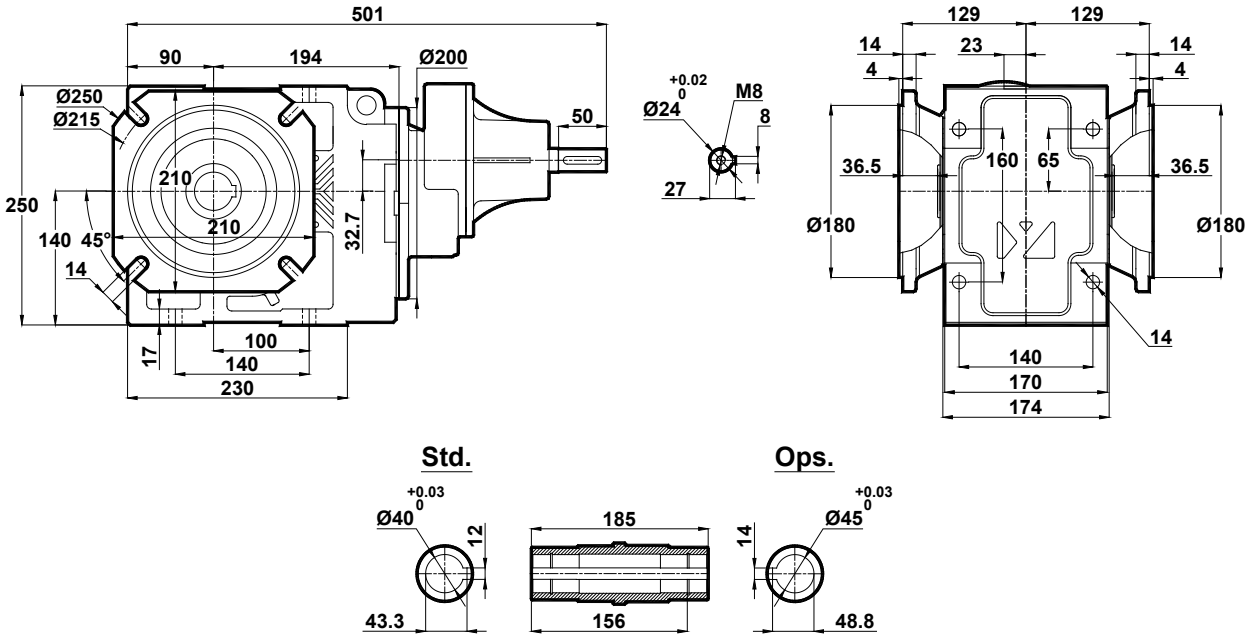


KT374.05



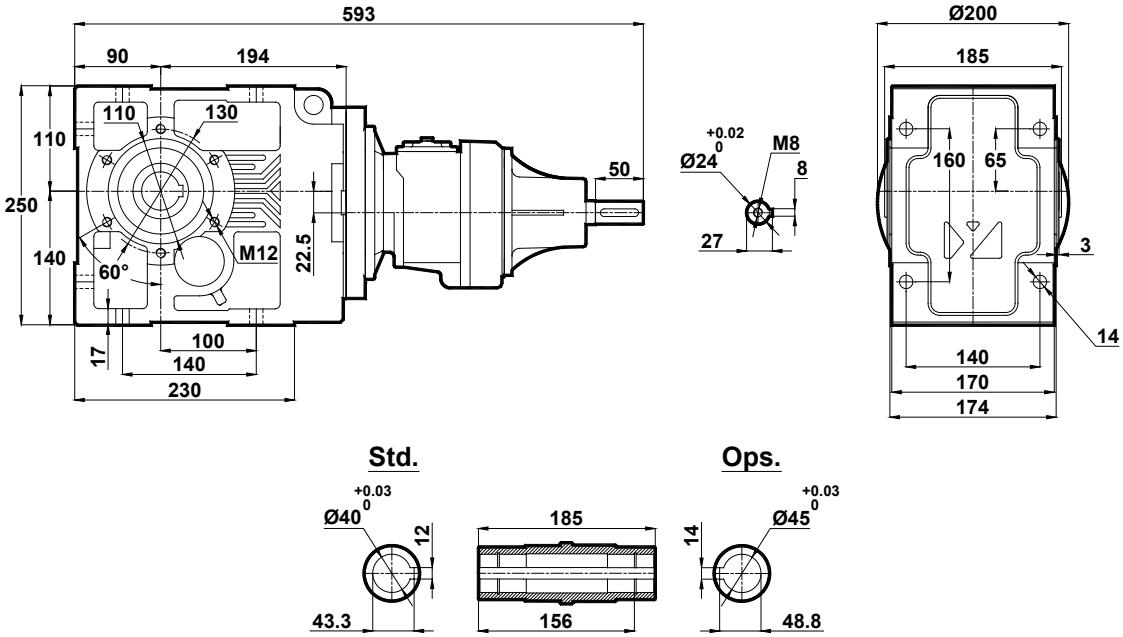
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KT374.08

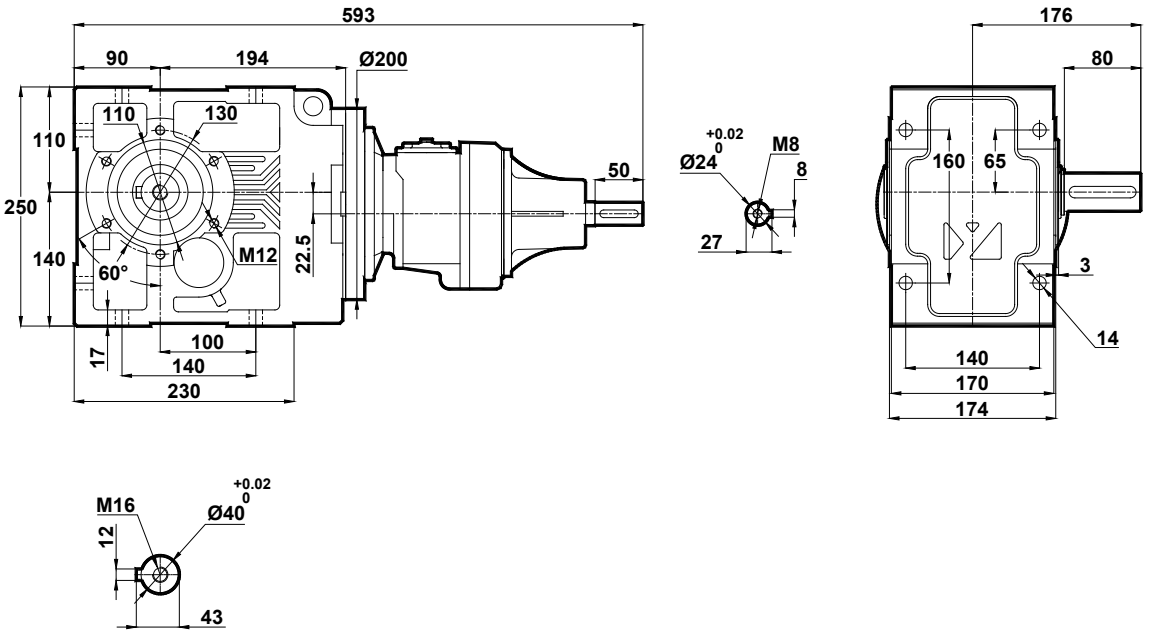


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KT375.00
KT376.00

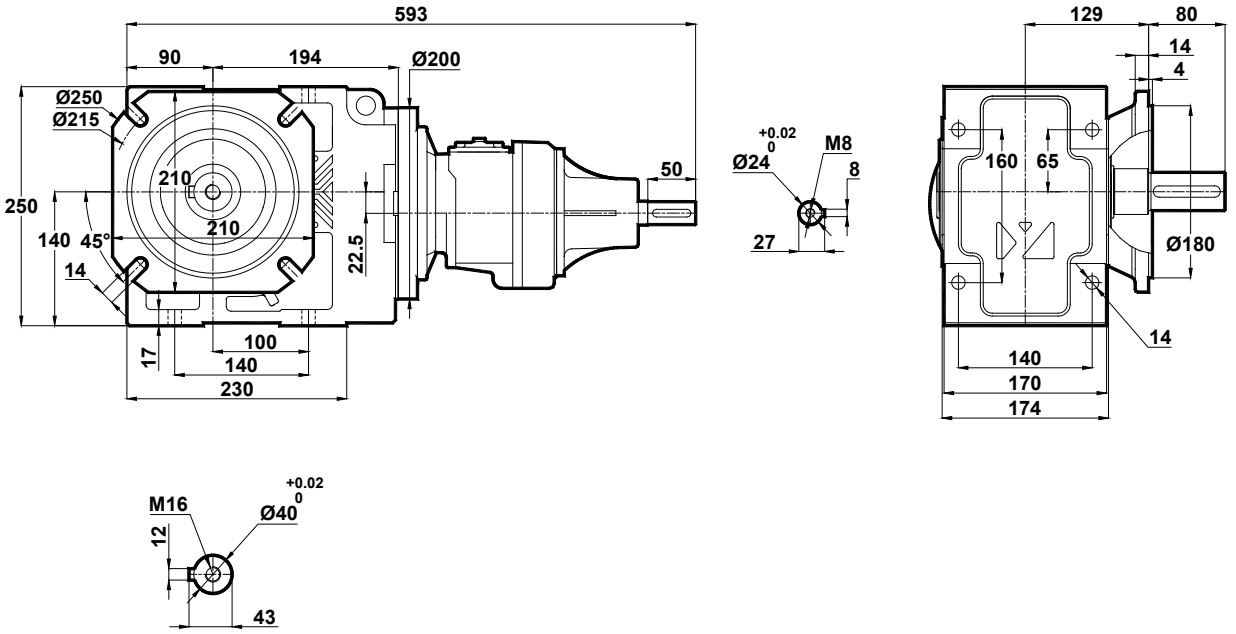


KT375.01
KT376.01

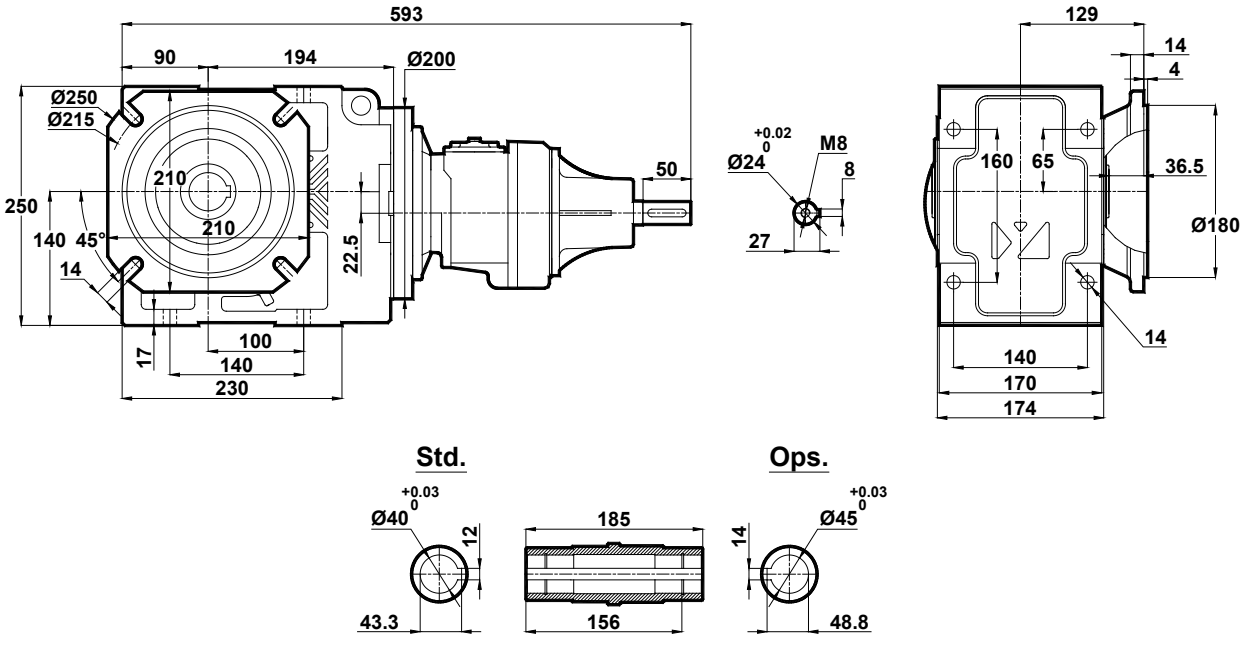


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KT375.02
KT376.02

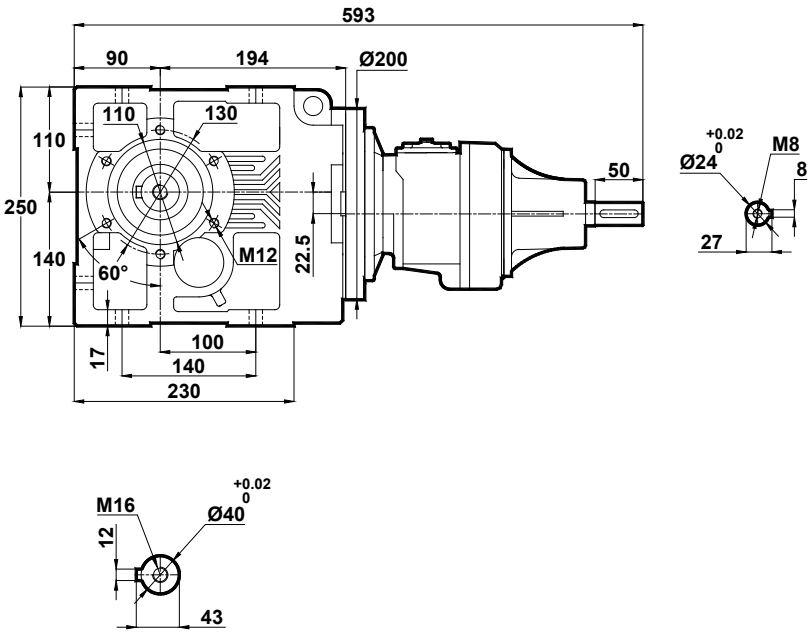


KT375.03
KT376.03

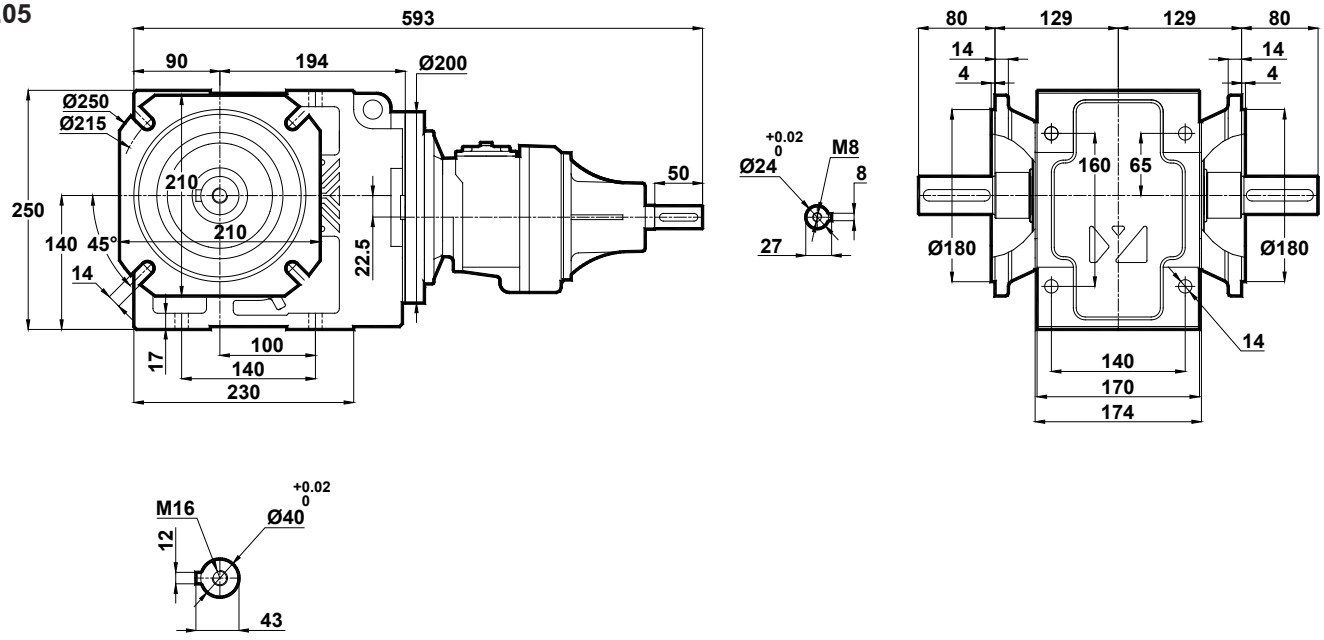


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KT375.04
KT376.04

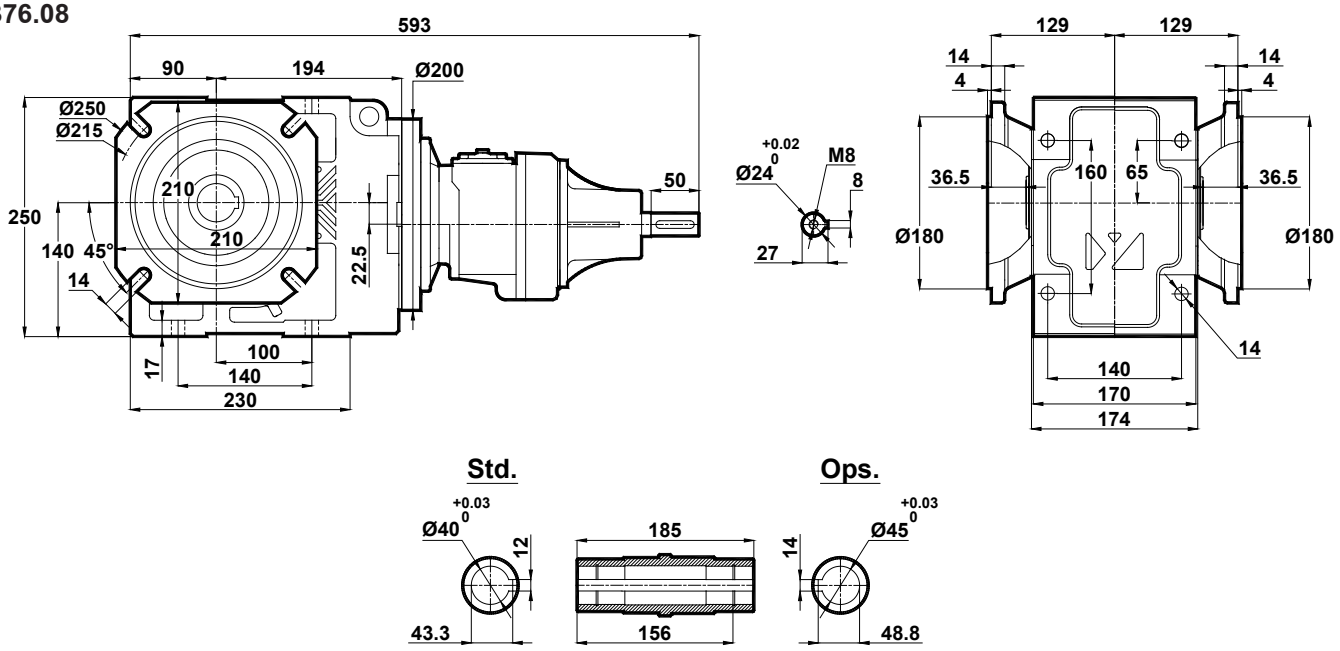


KT375.05
KT376.05



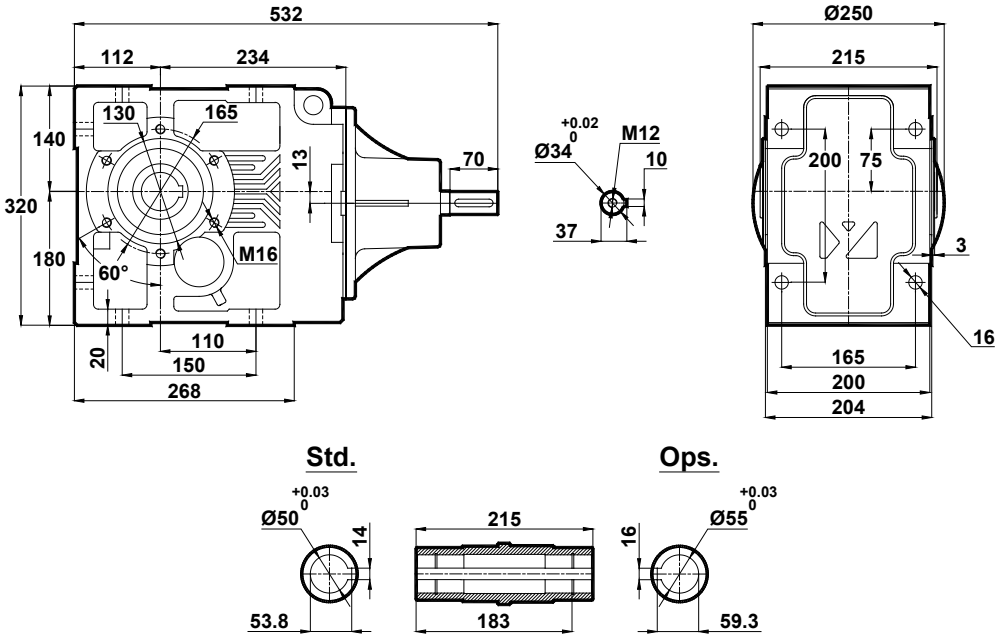
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KT375.08
KT376.08

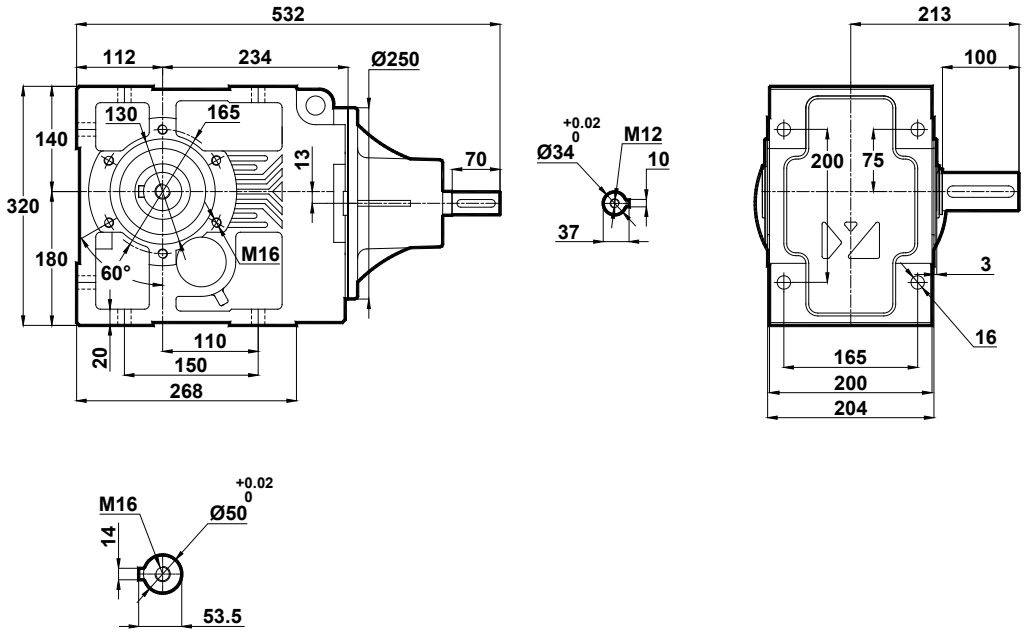


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KT473.00

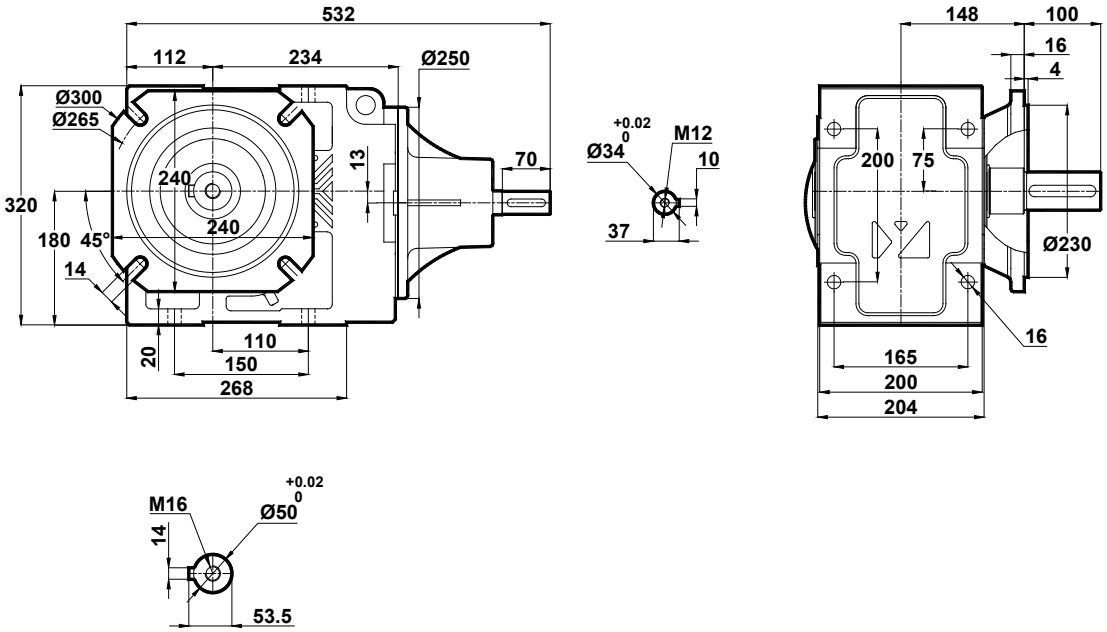


KT473.01

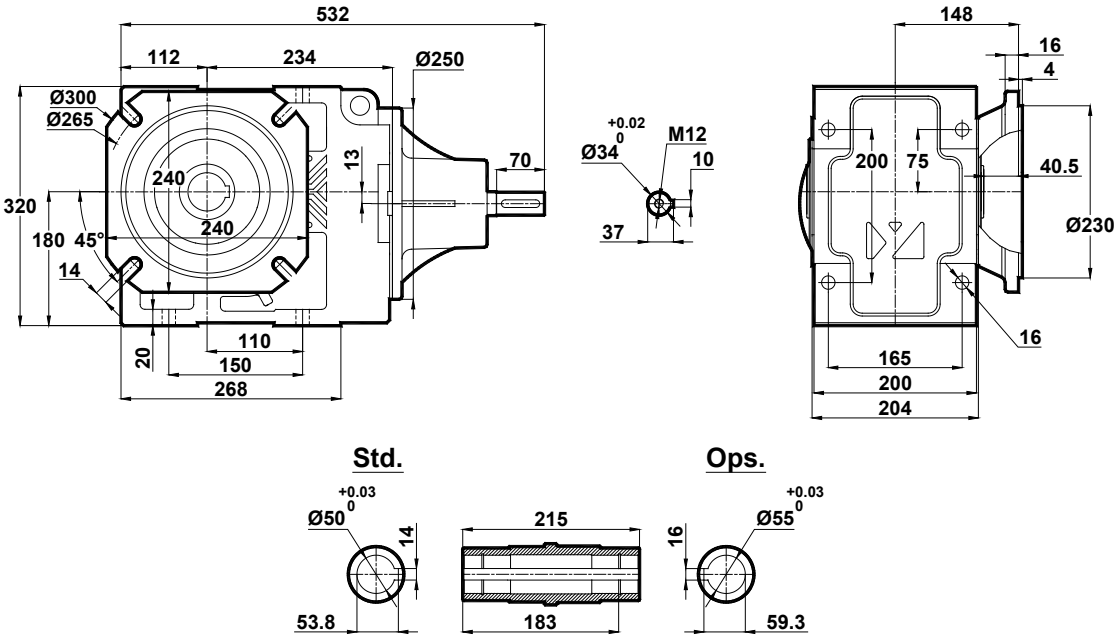


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KT473.02

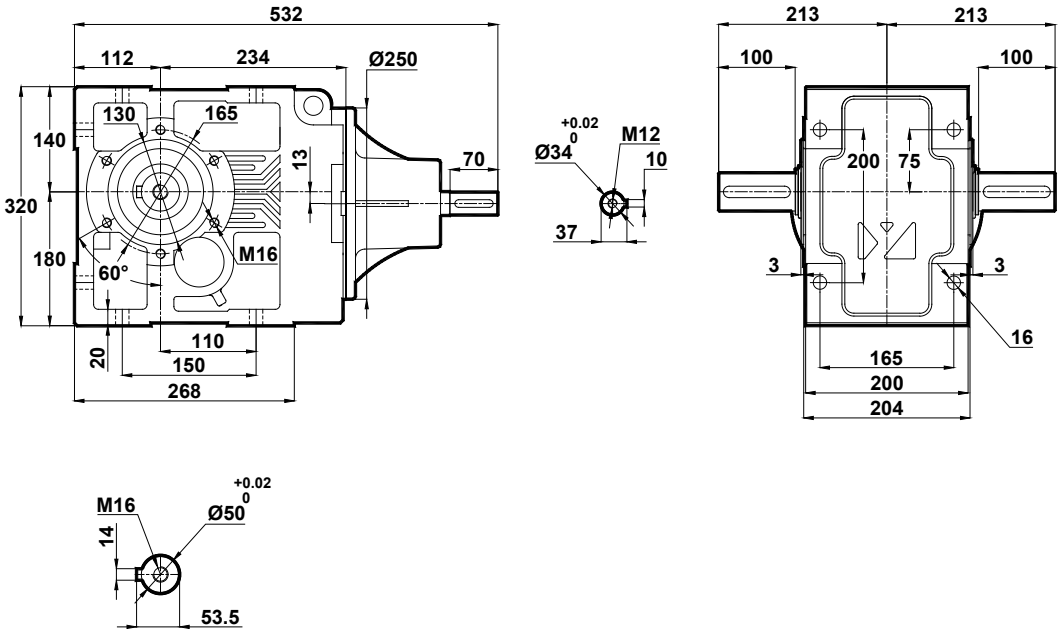


KT473.03

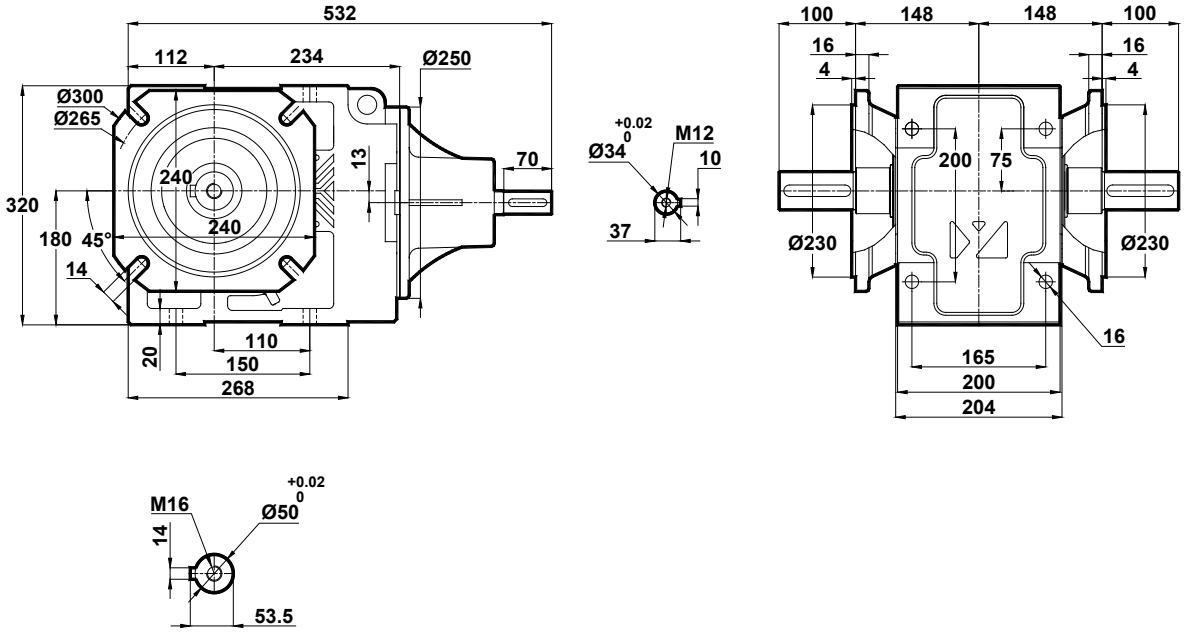


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KT473.04

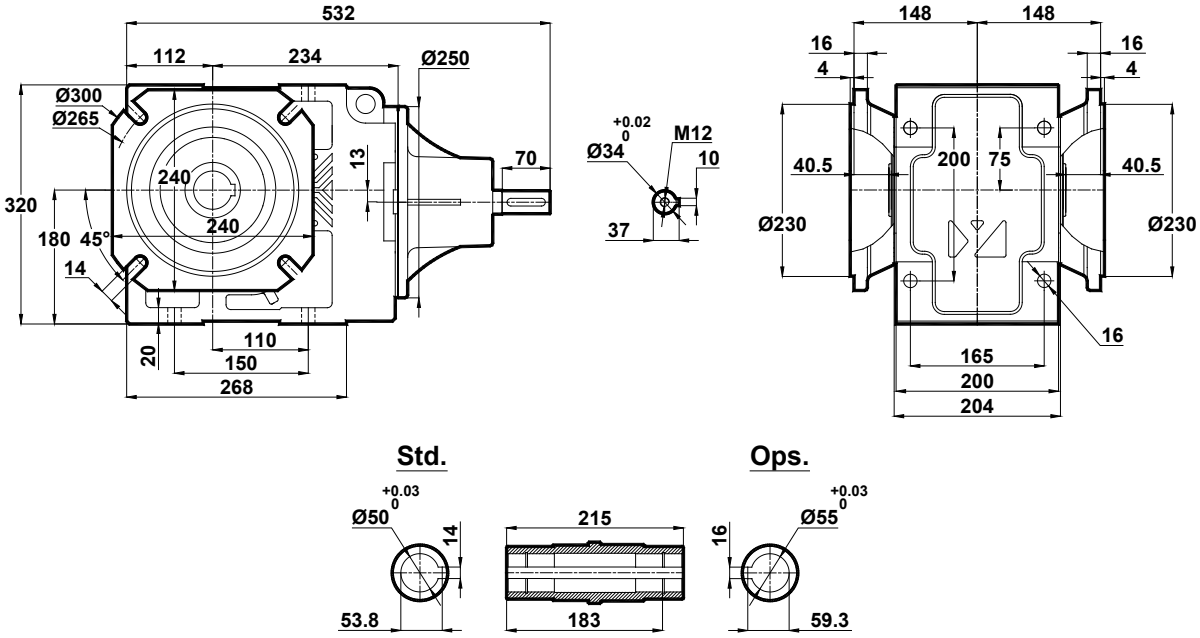


KT473.05



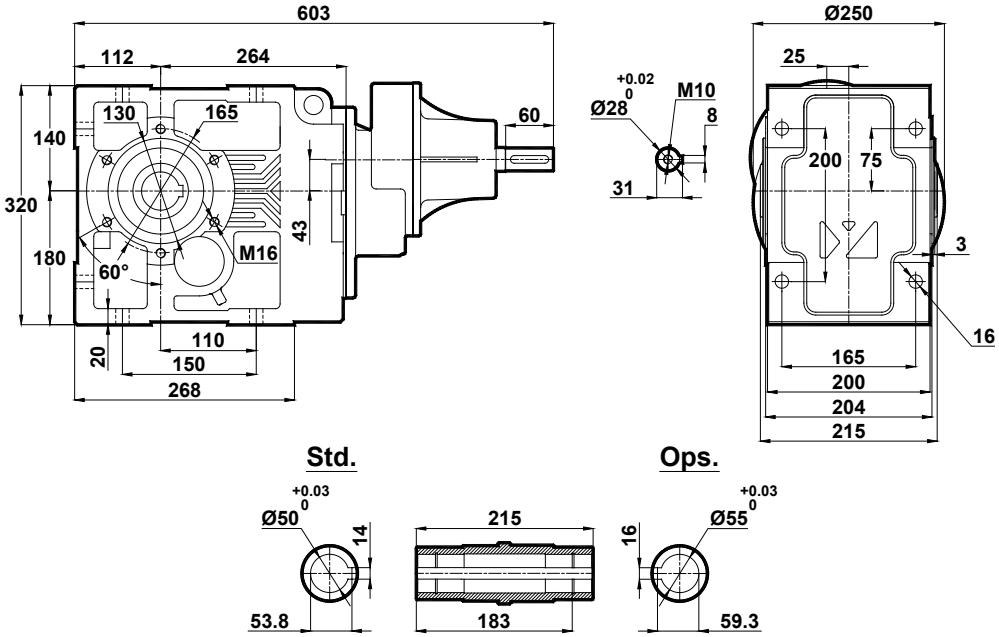
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KT473.08

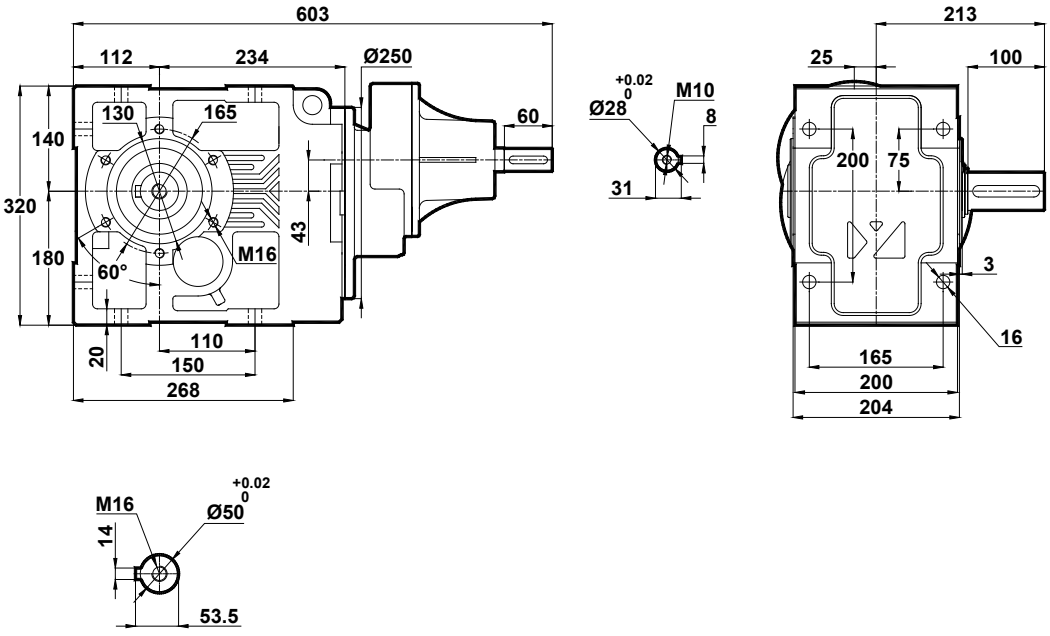


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KT474.00

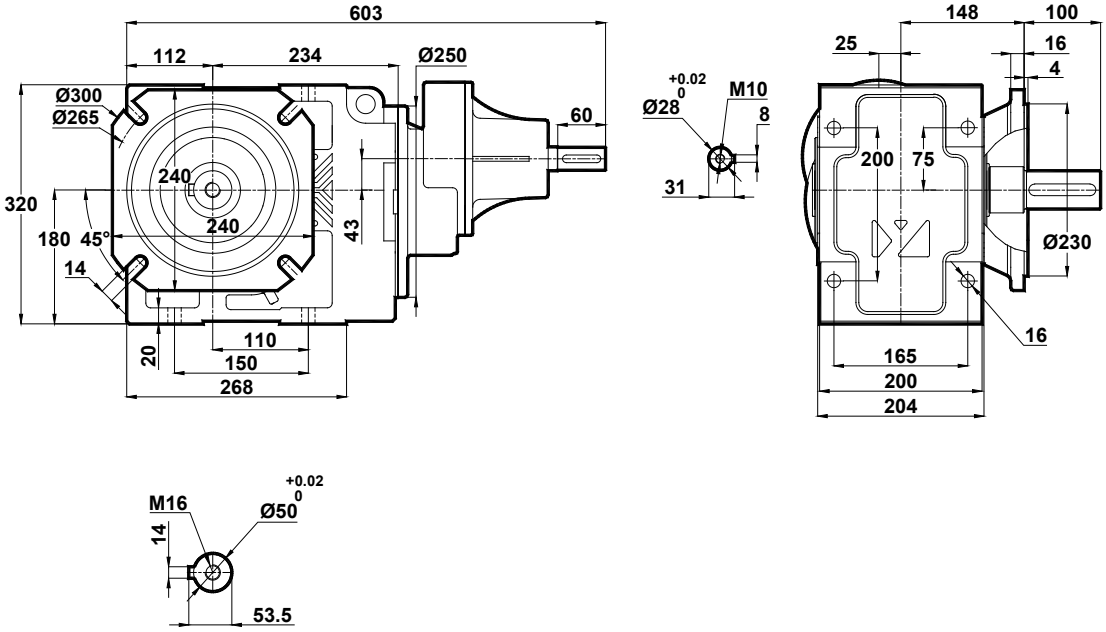


KT474.01

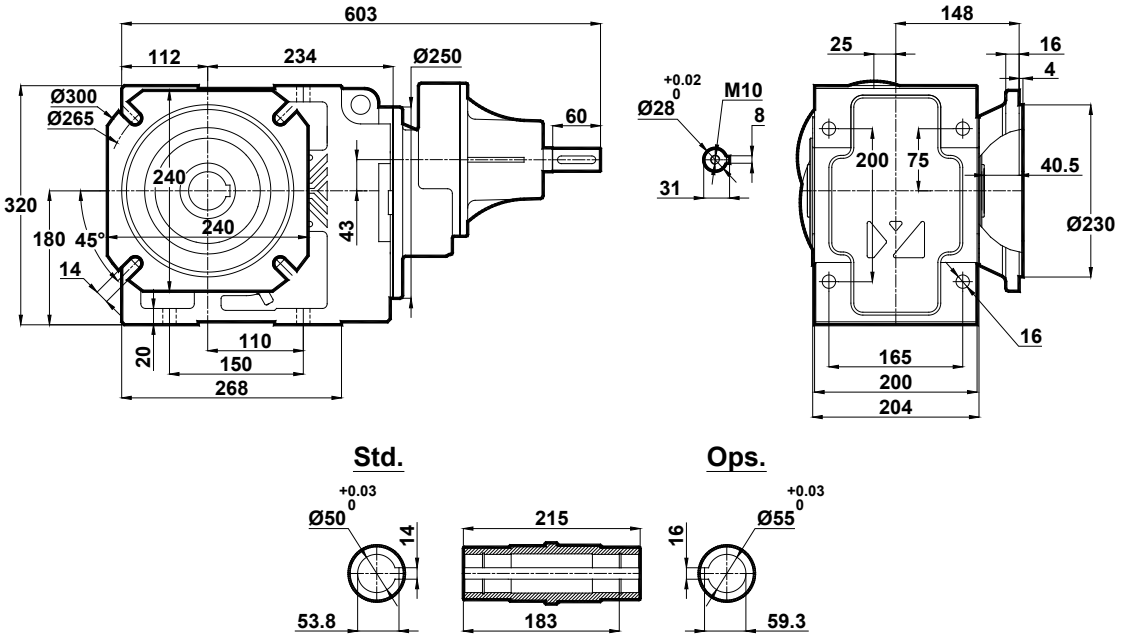


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KT474.02

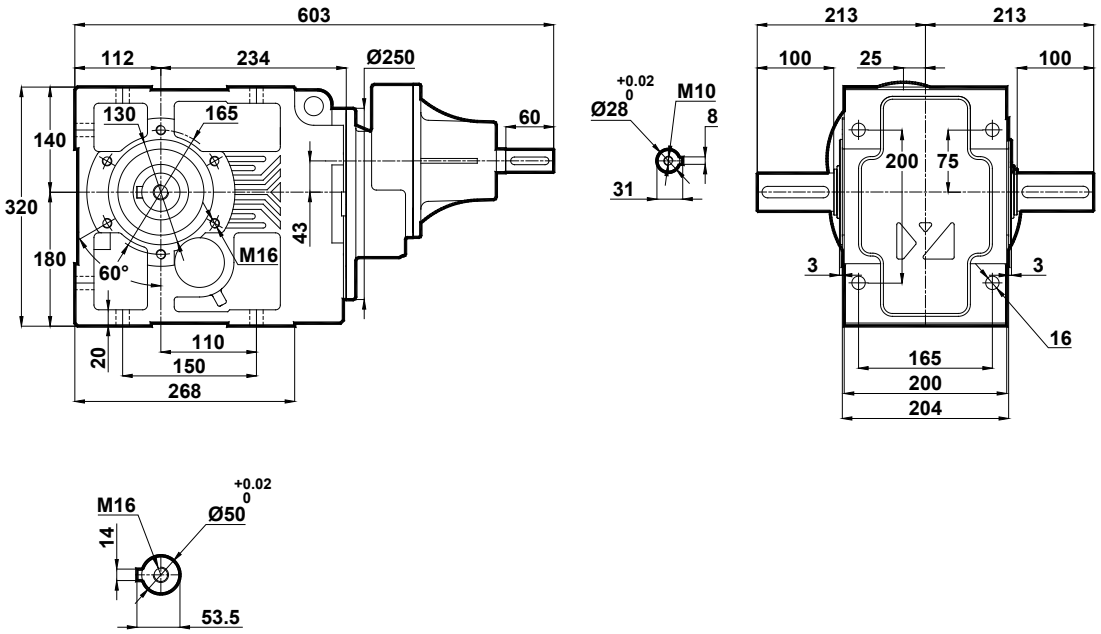


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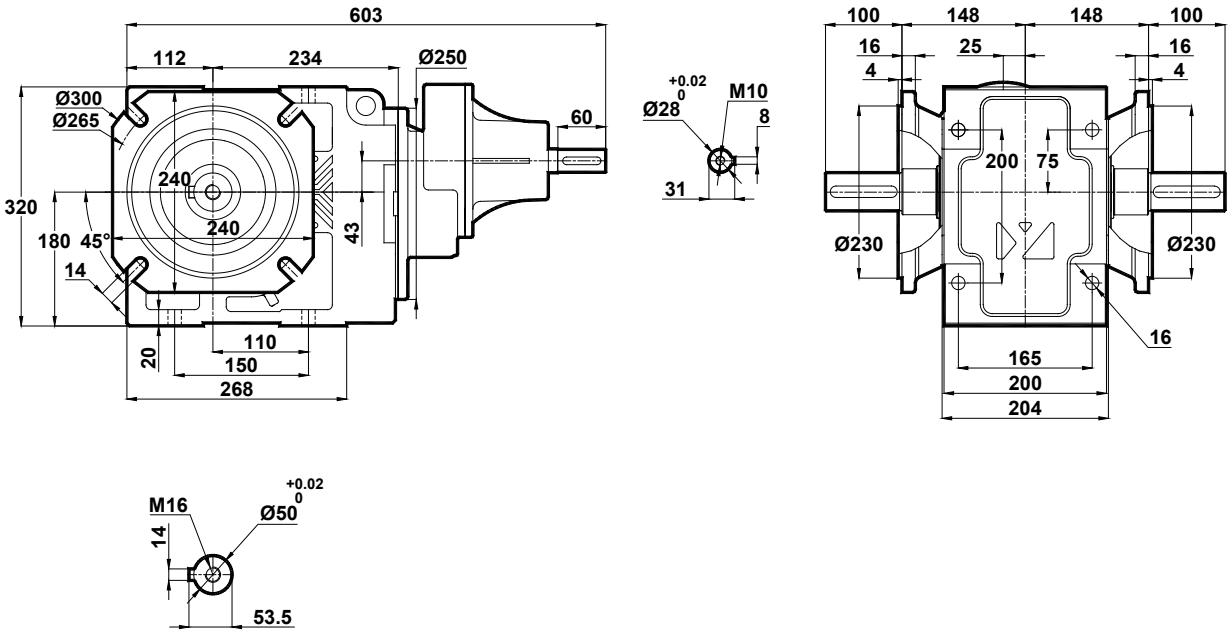


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT474.04

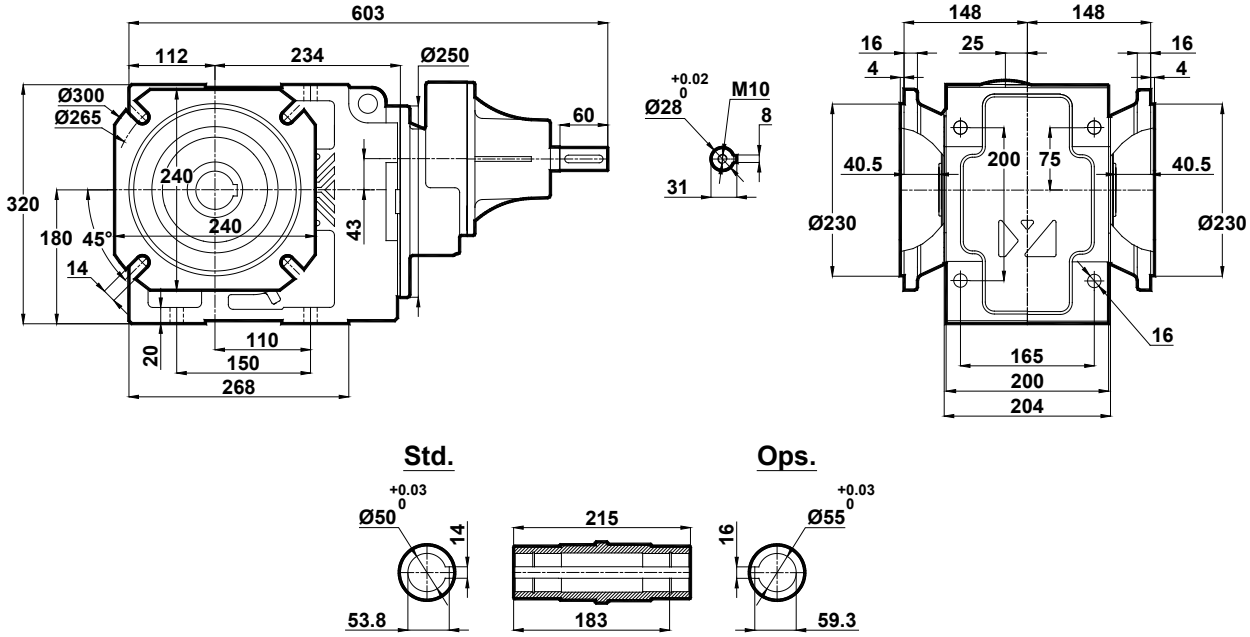


KT474.05



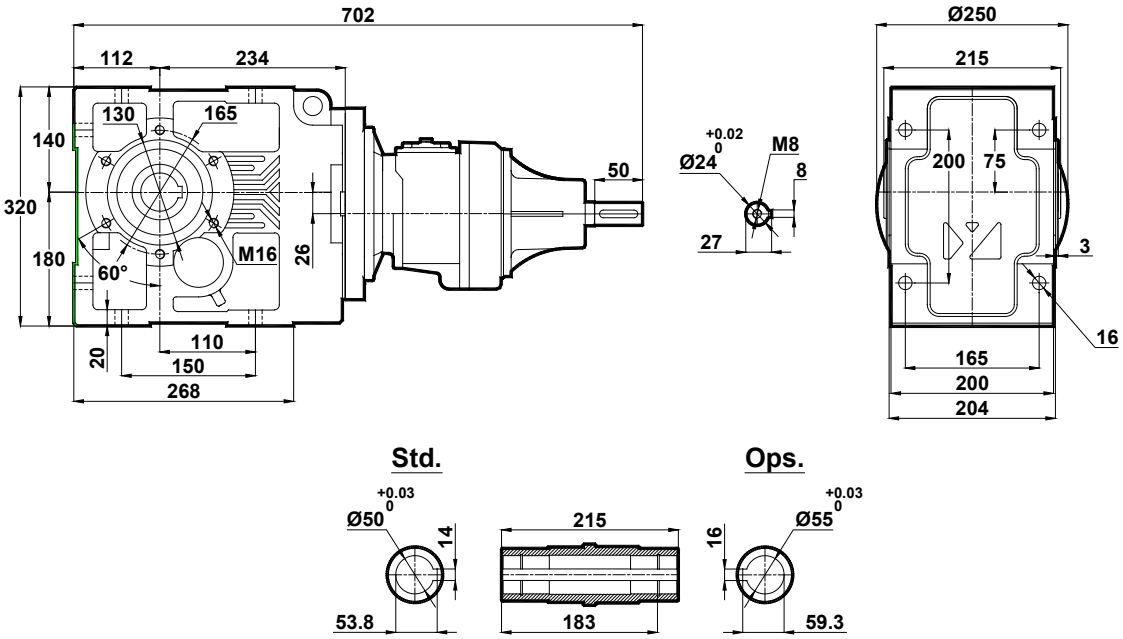
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT474.08

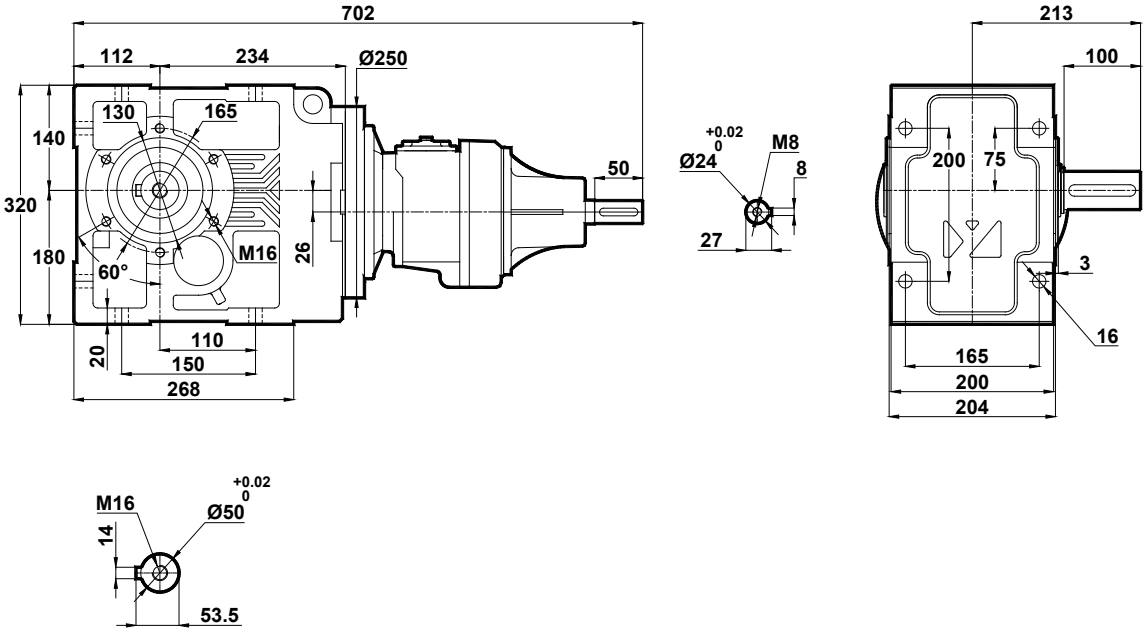


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT475.00
KT476.00

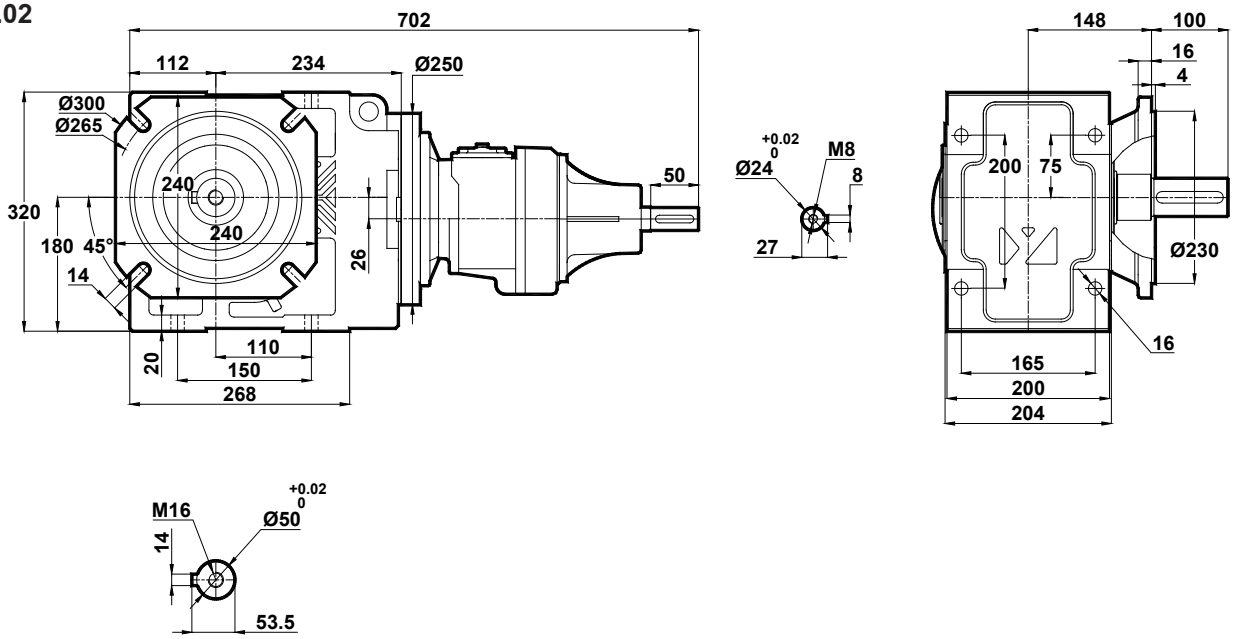


KT475.01
KT476.01

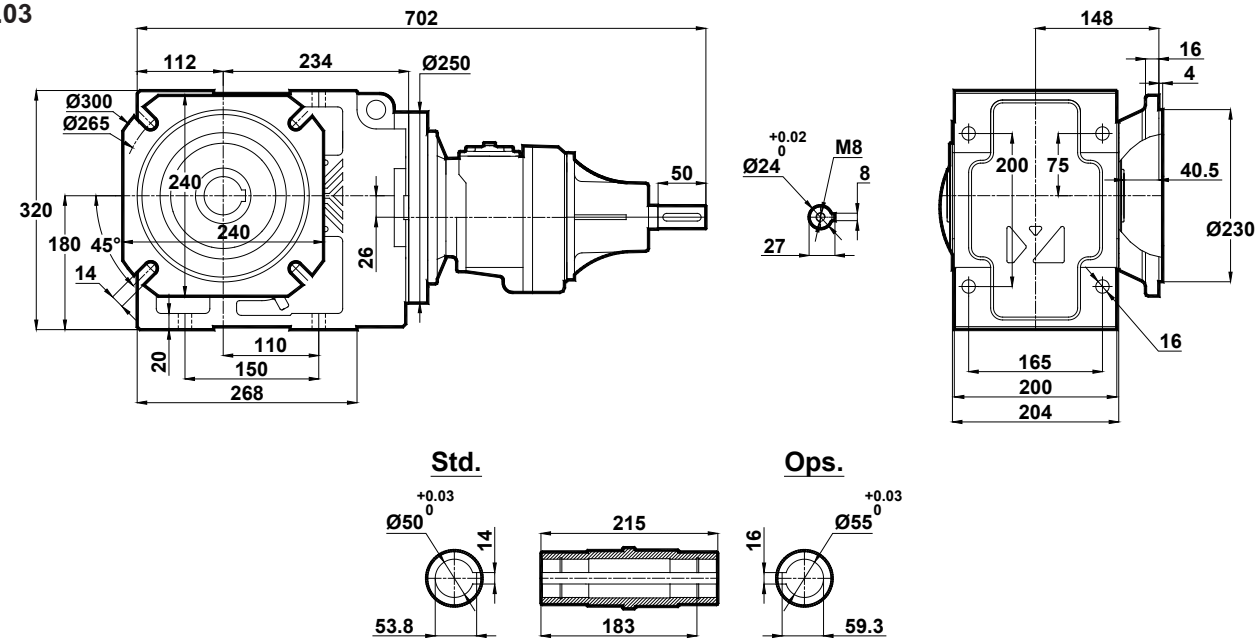


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT475.02
KT476.02



KT475.03
KT476.03

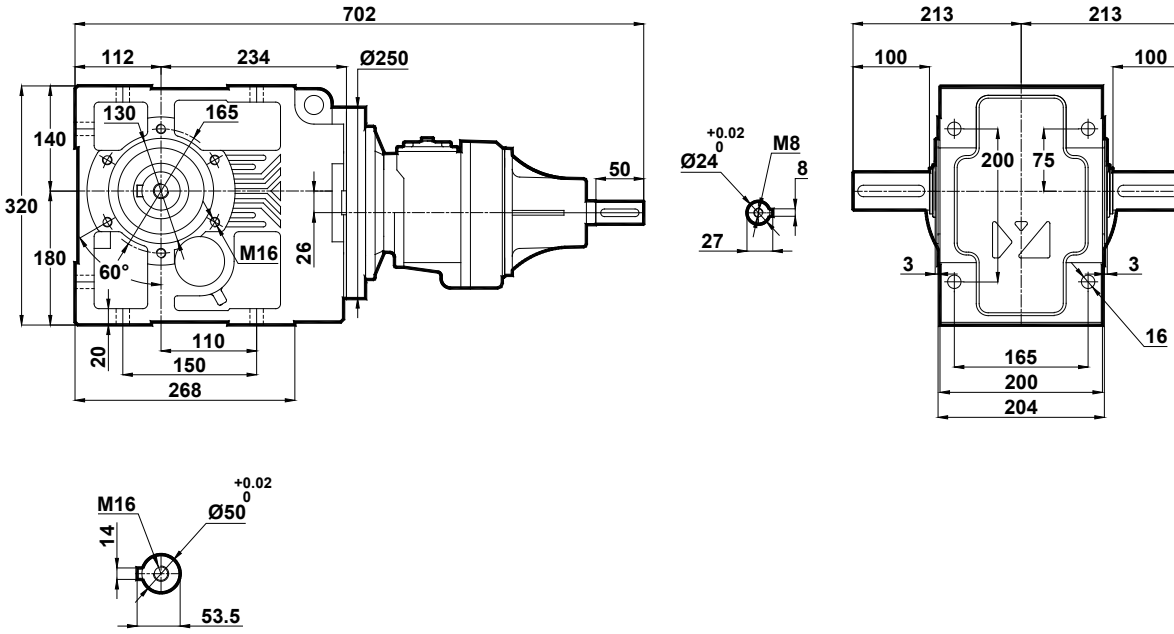


Std.

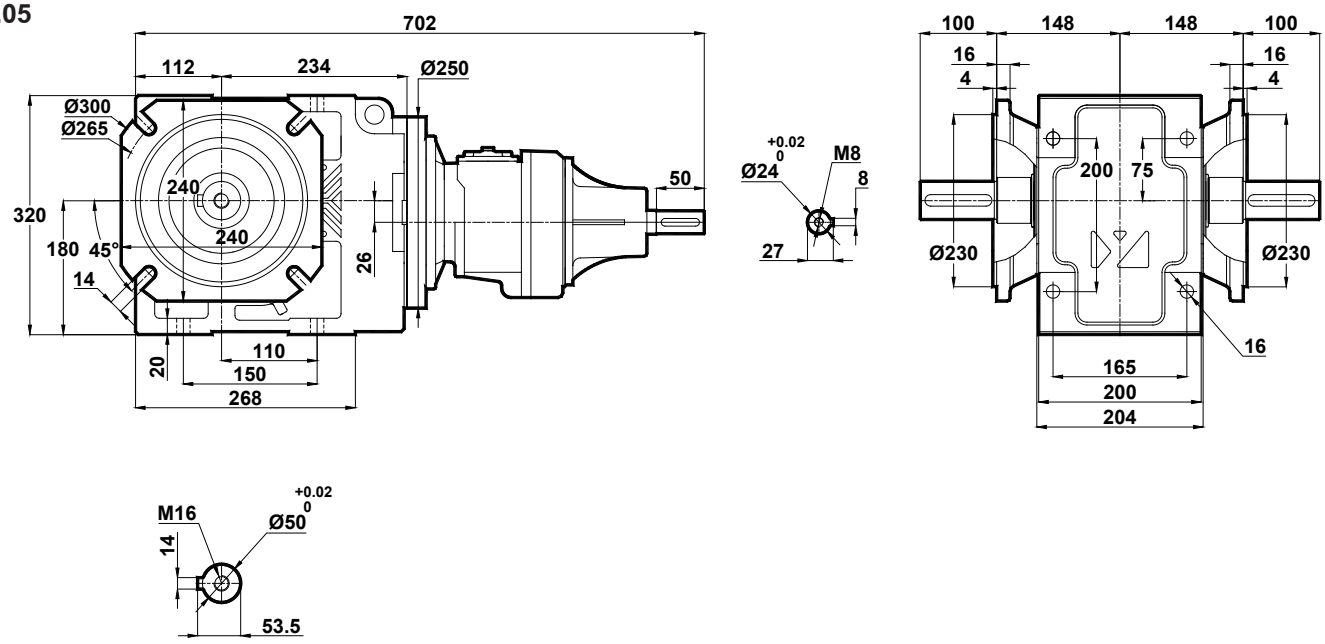
Ops.

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KT475.04
KT476.04

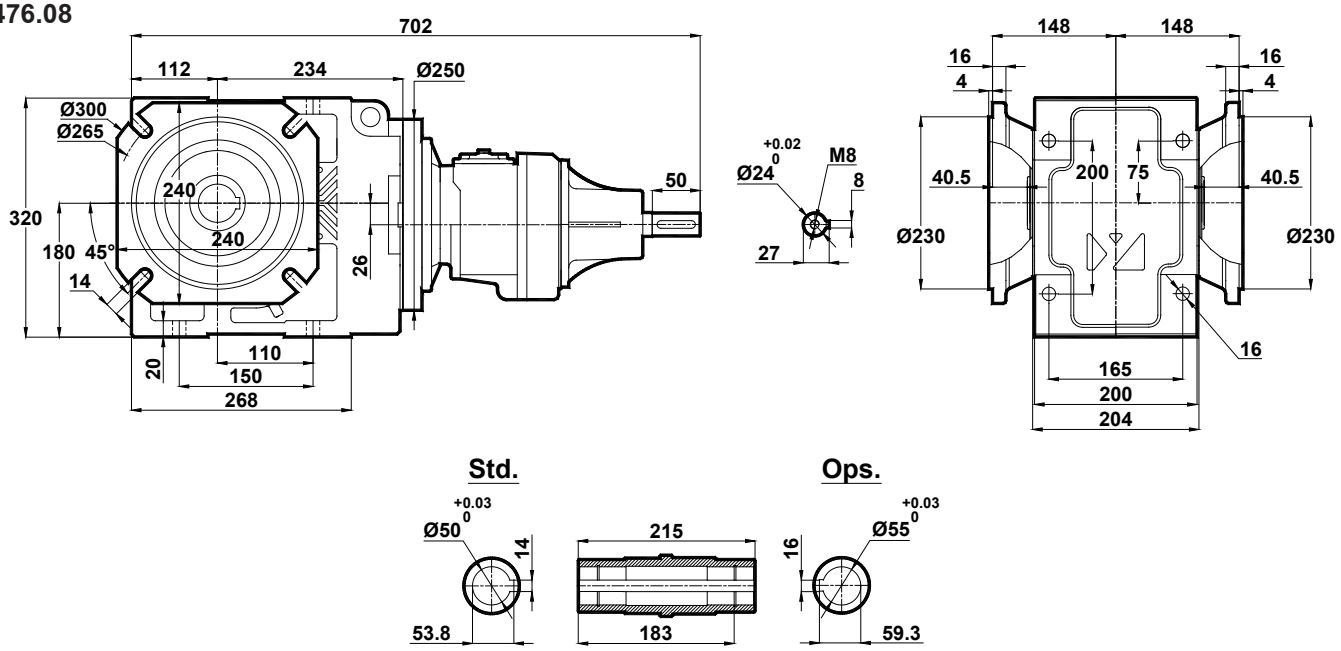


KT475.05
KT476.05



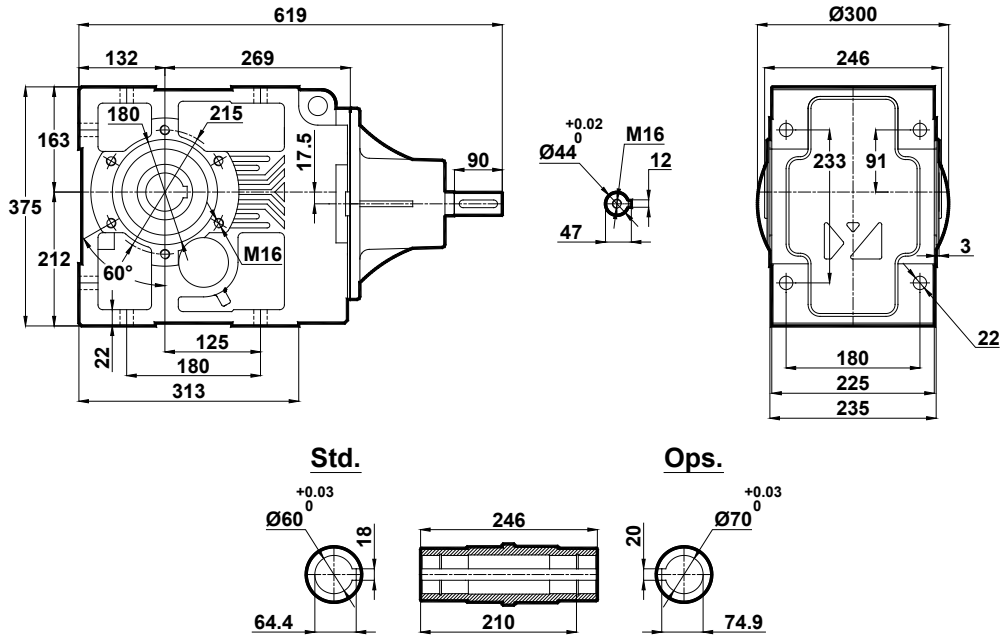
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT475.08
KT476.08



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

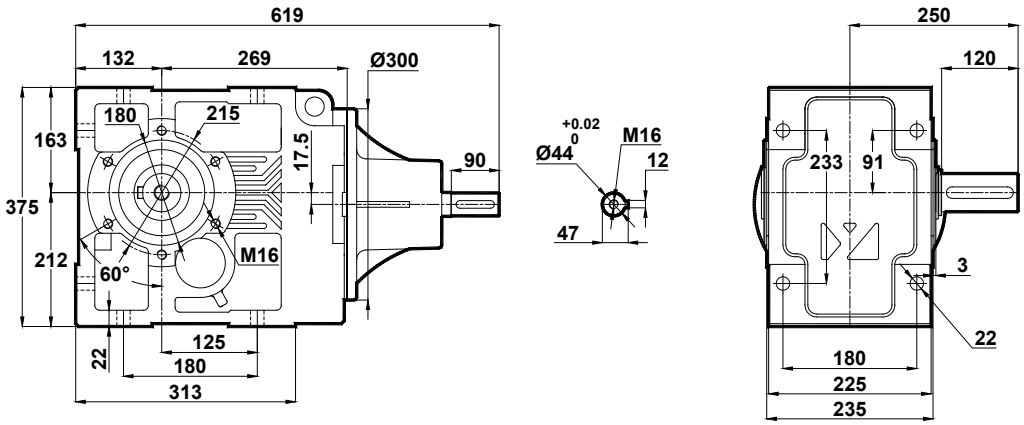
KT573.00

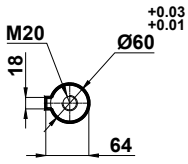


Std.

Ops.

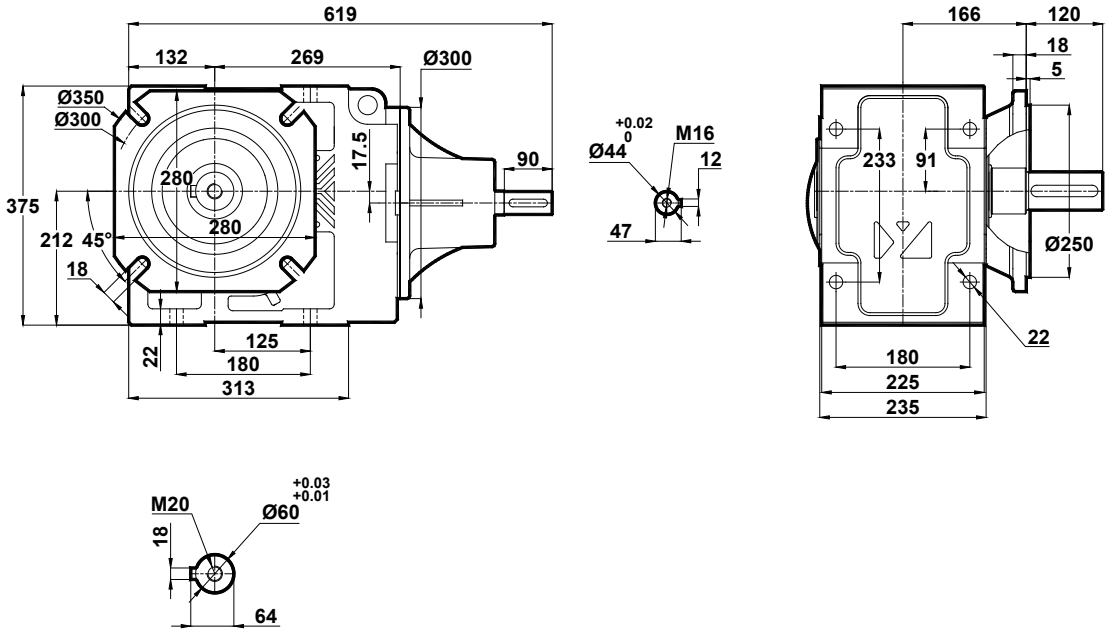
KT573.01



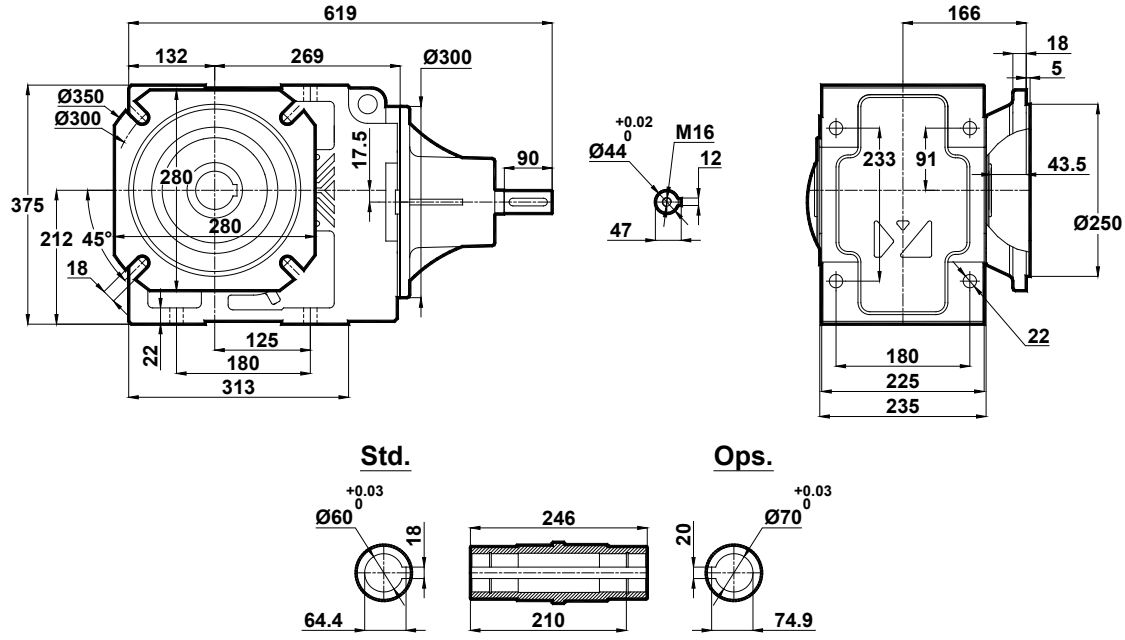


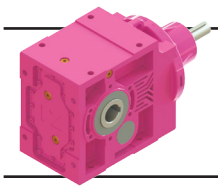
-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT573.02



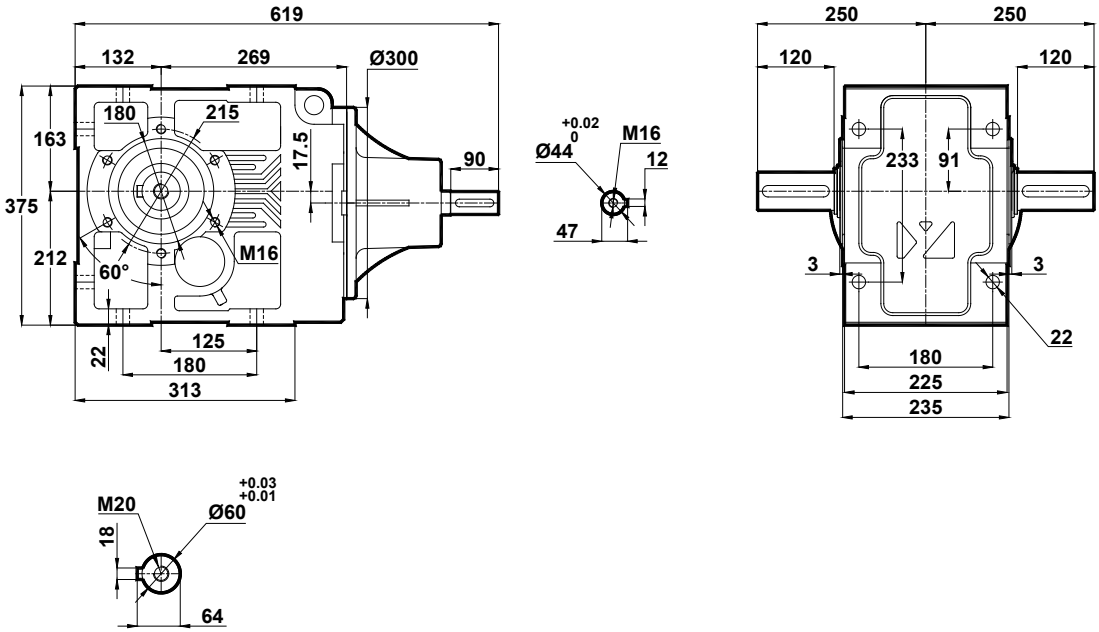
KT573.03



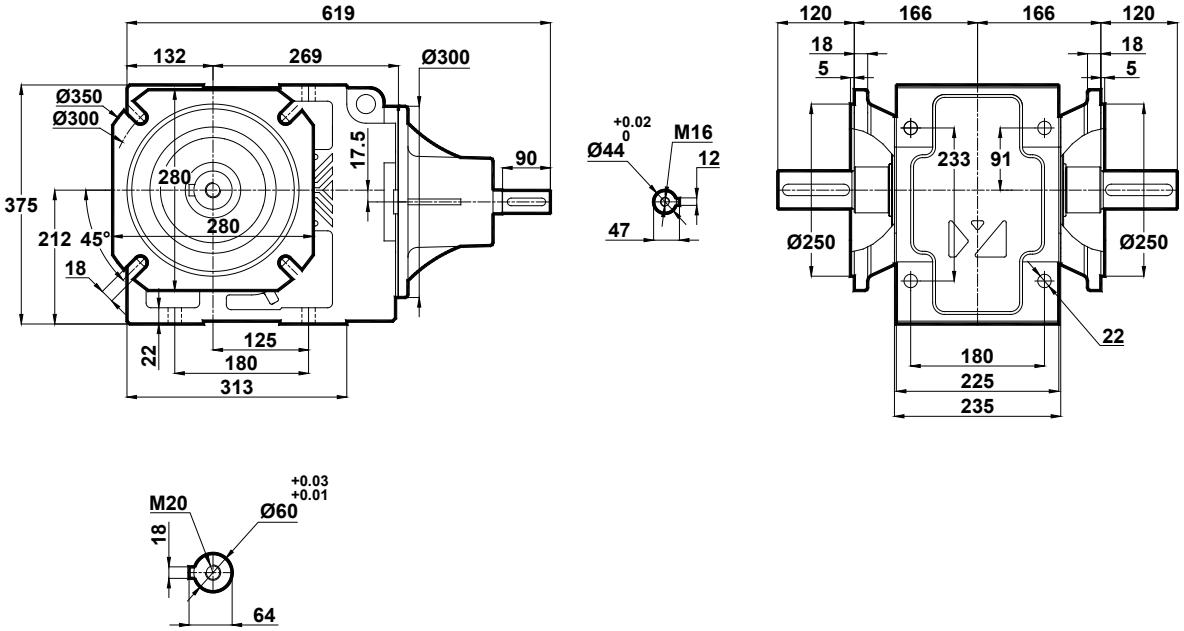


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT573.04

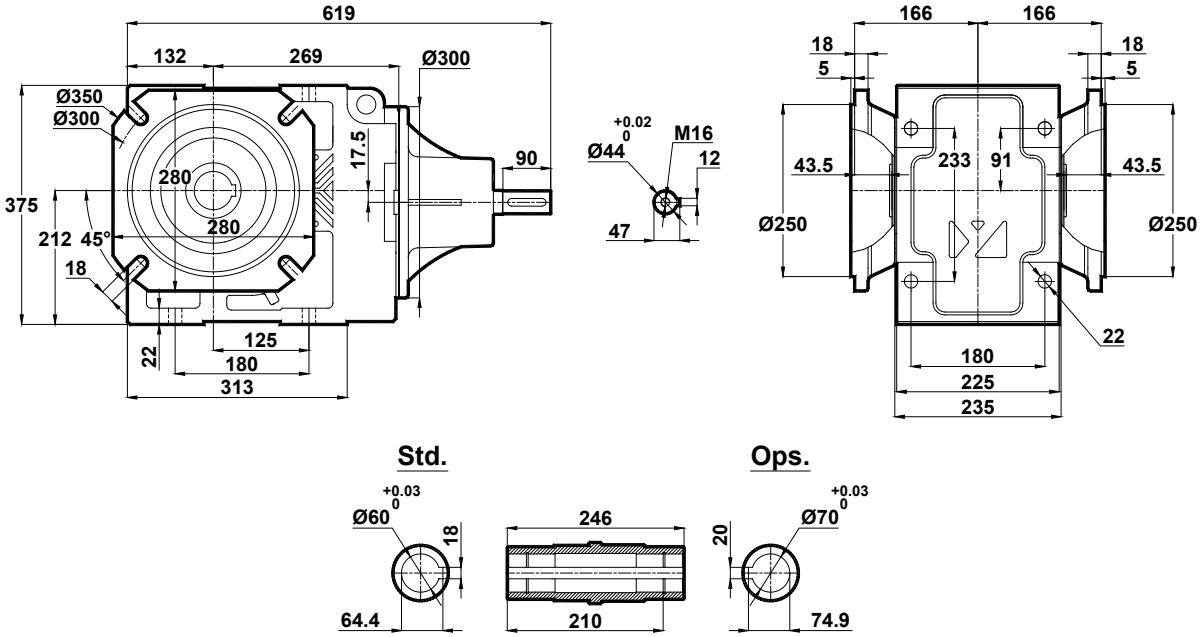


KT573.05



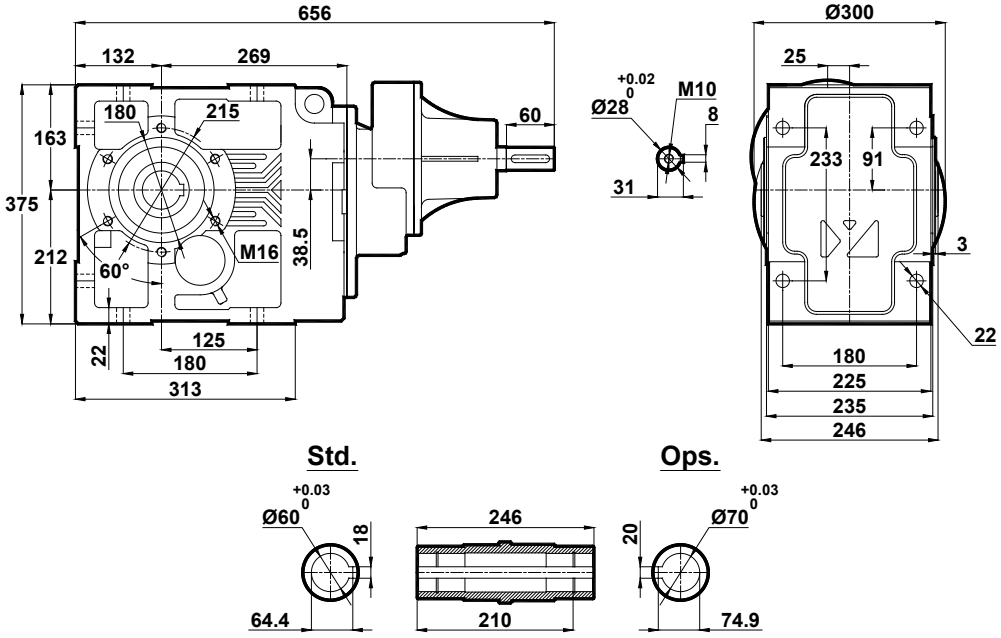
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KT573.08

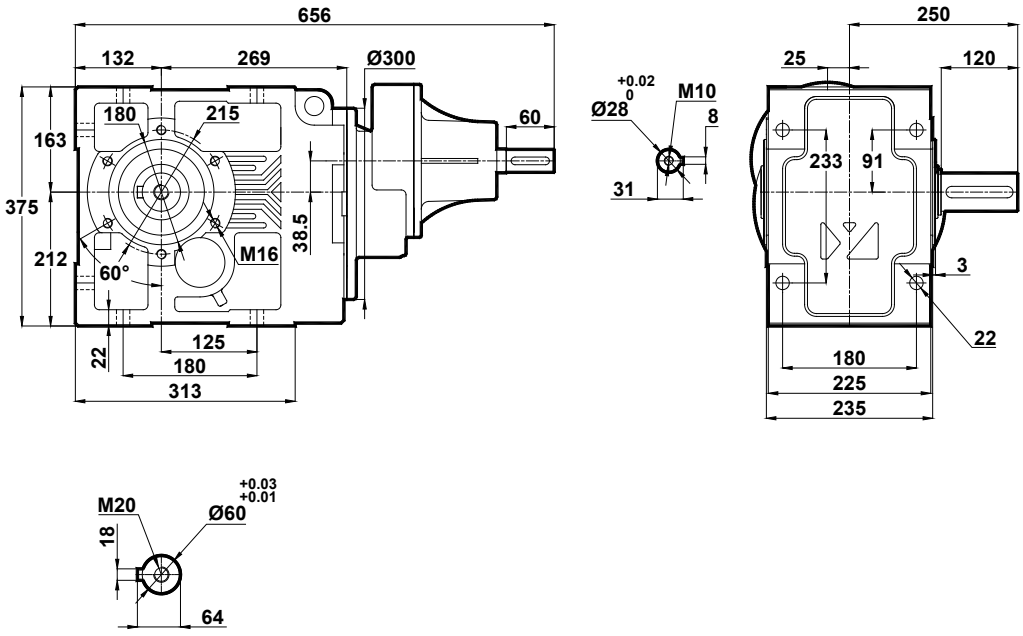


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KT574.00

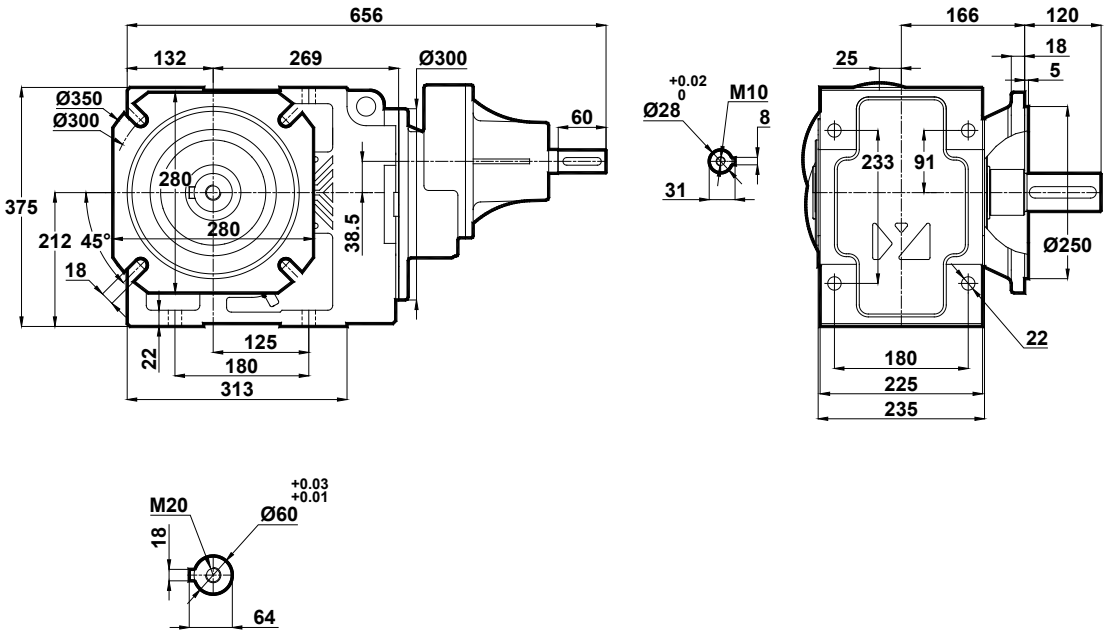


KT574.01

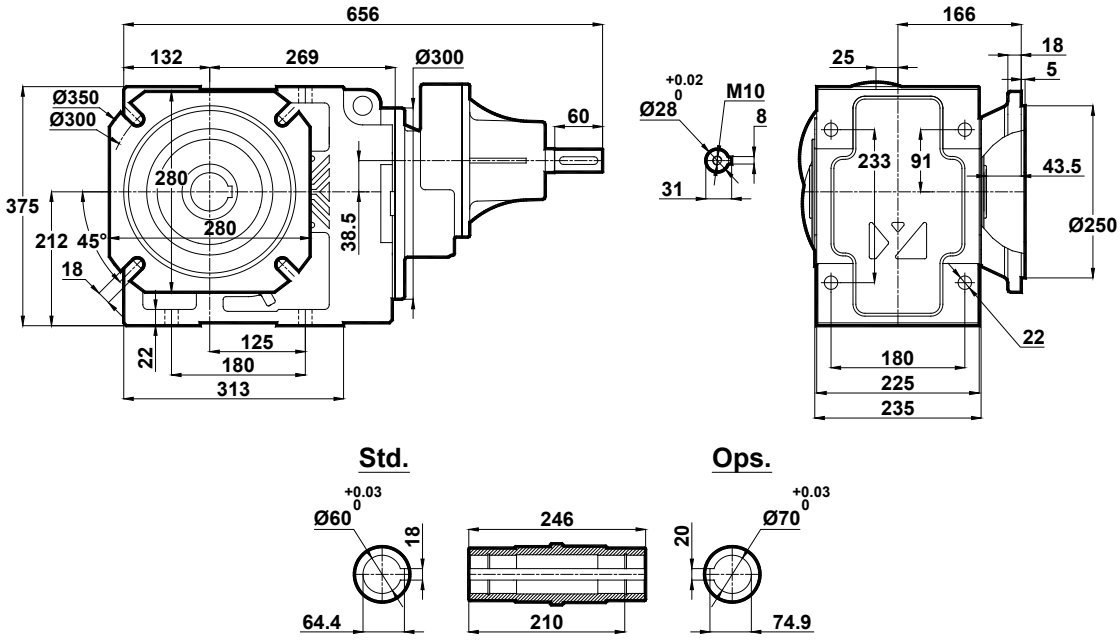


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KT574.02

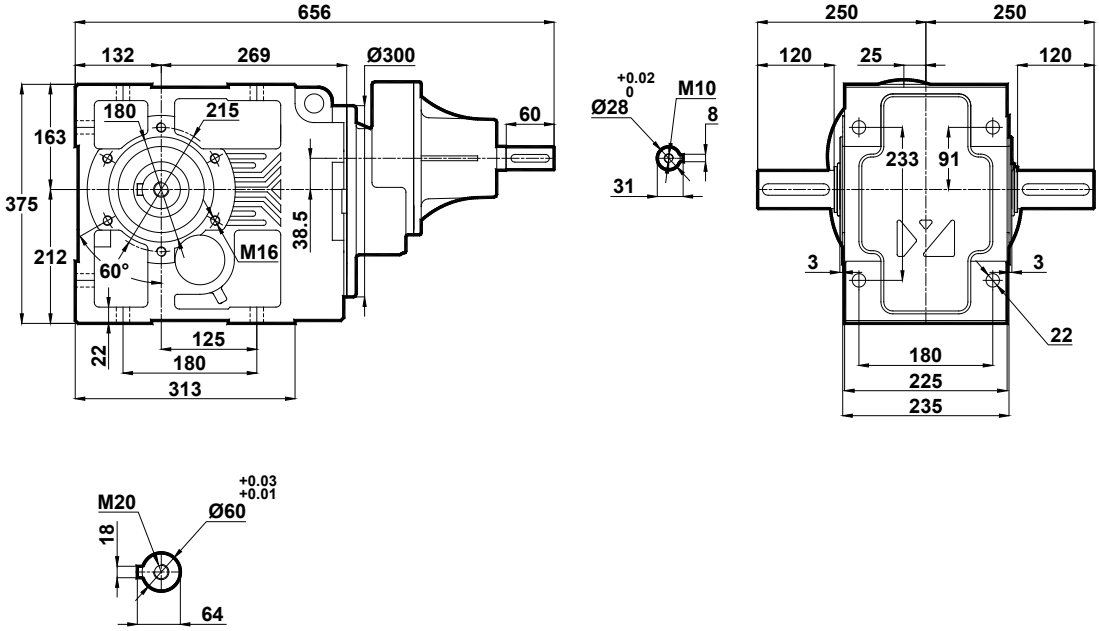


KT574.03

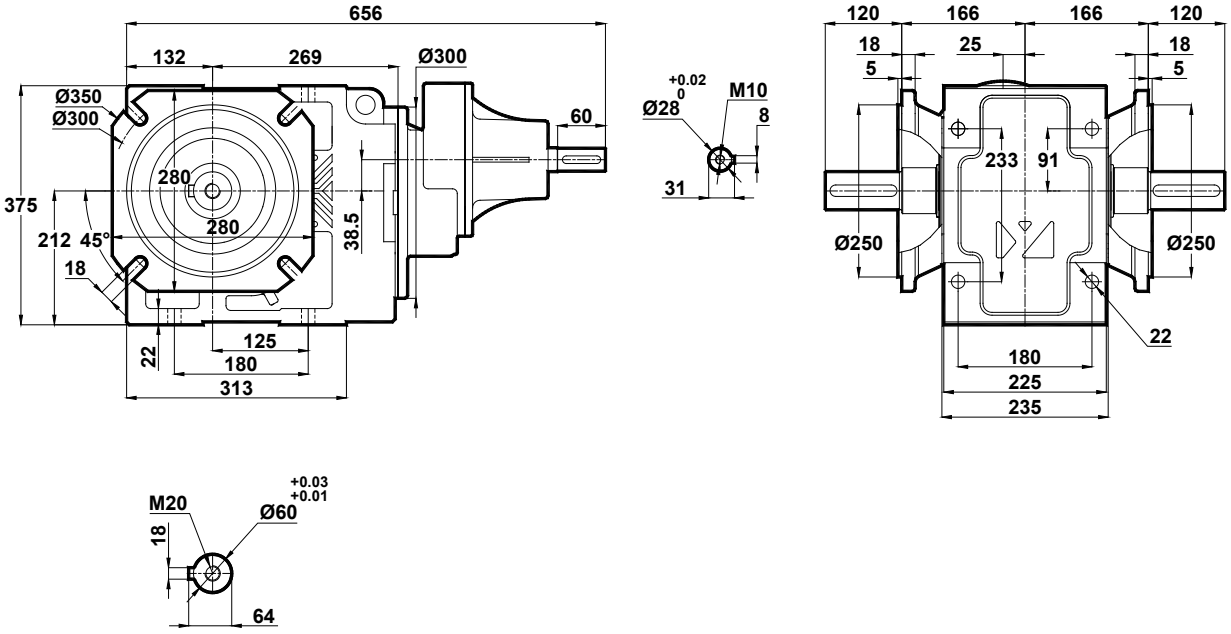


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KT574.04

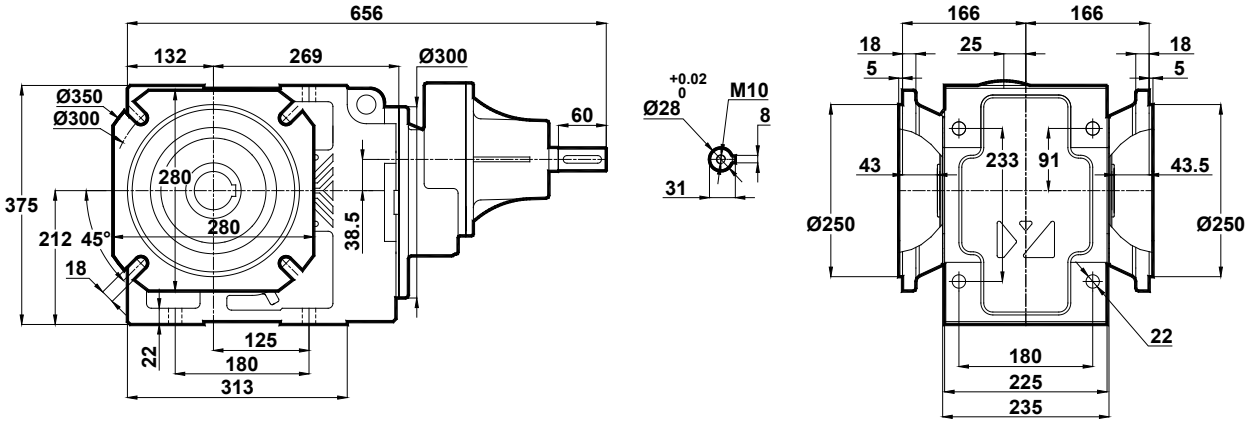


KT574.05

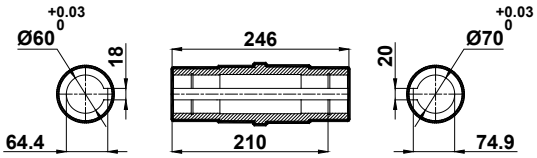


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KT574.08

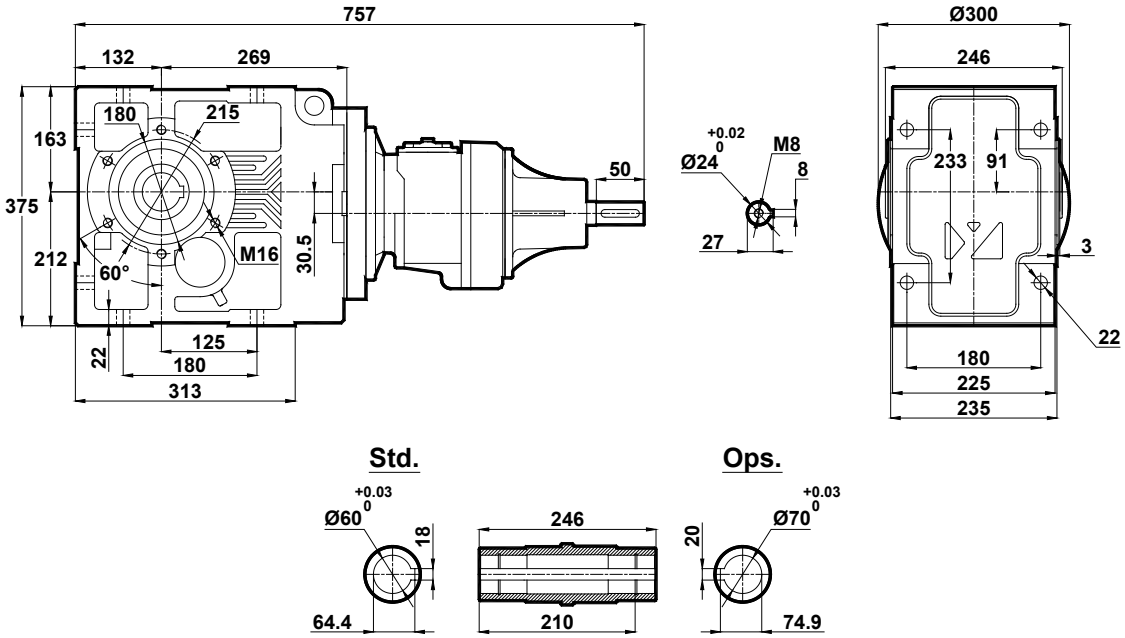


Std. **Ops.**

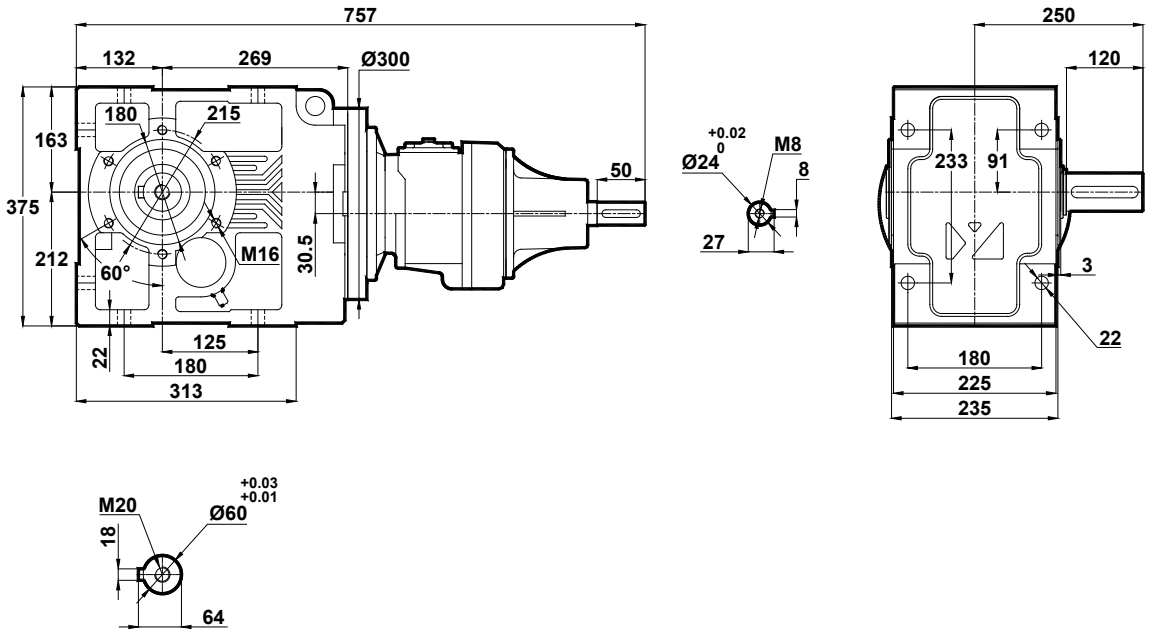


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KT575.00
KT576.00

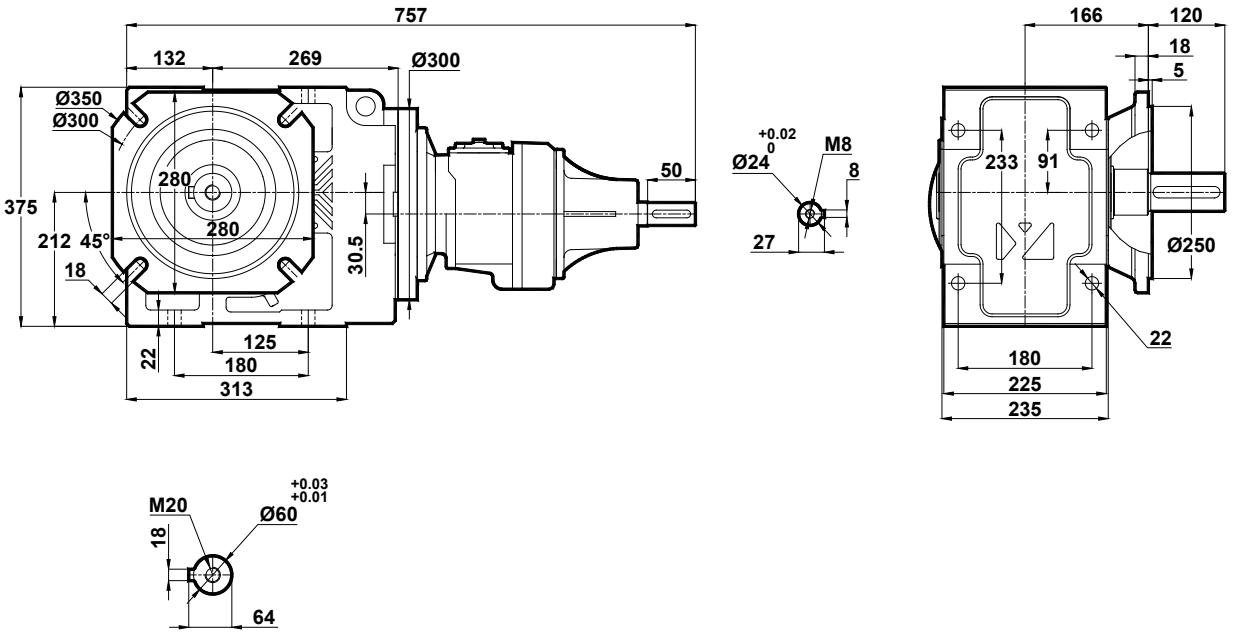


KT575.01
KT576.01

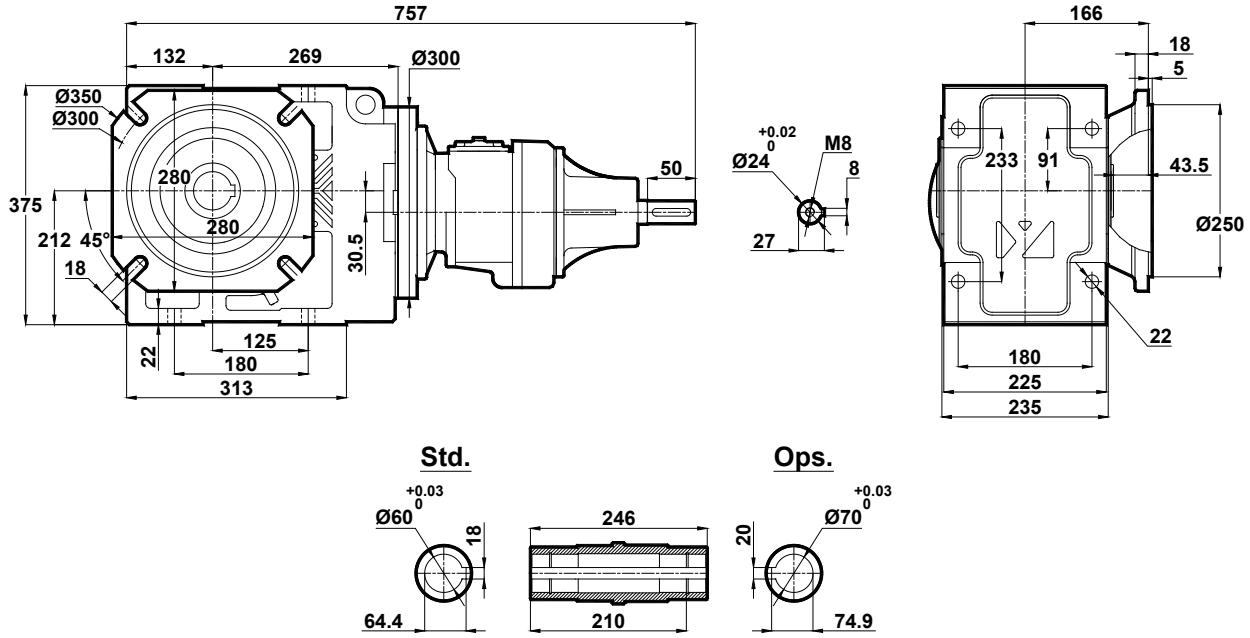


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KT575.02
KT576.02

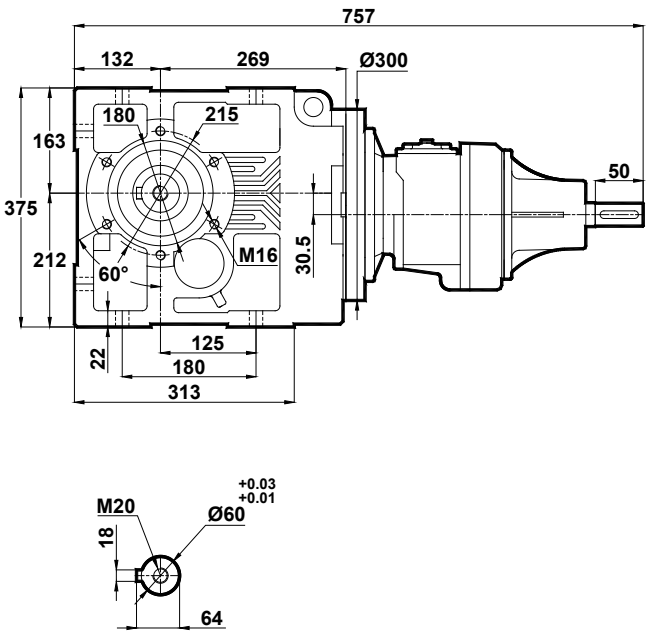


KT575.03
KT576.03

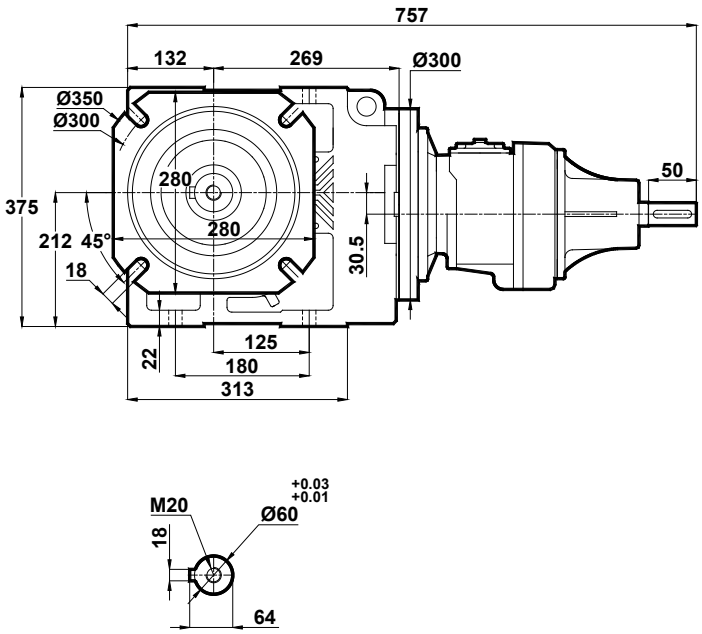


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KT575.04
KT576.04

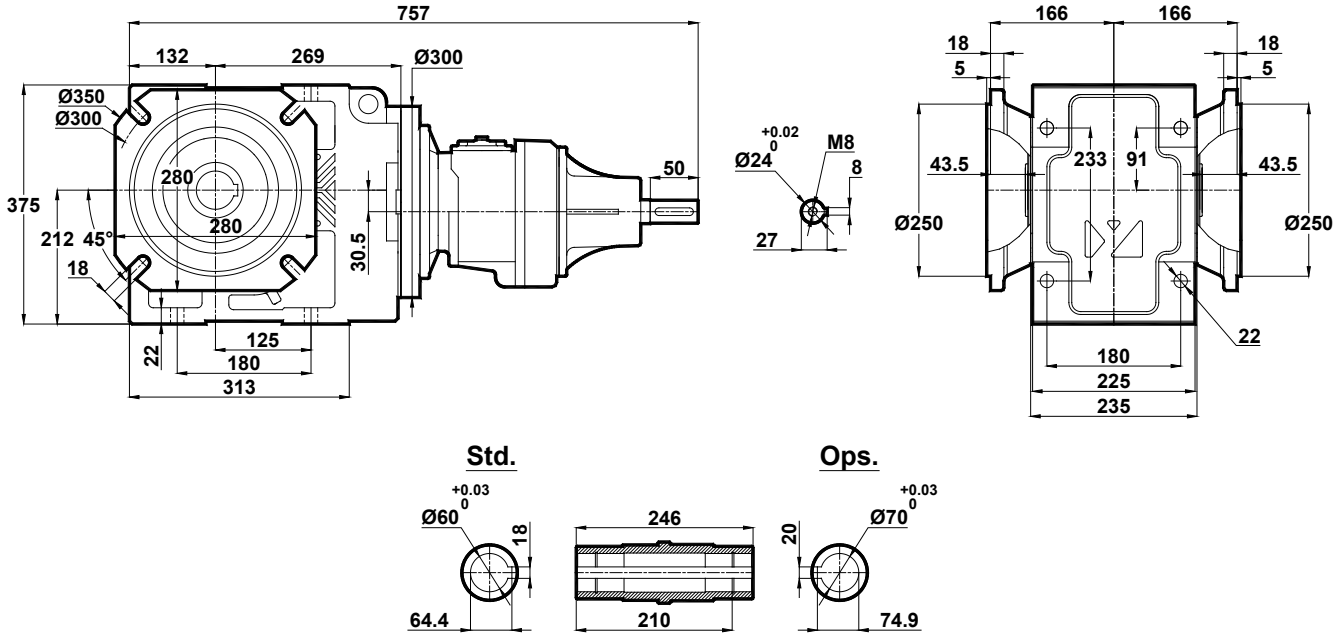


KT575.05
KT576.05



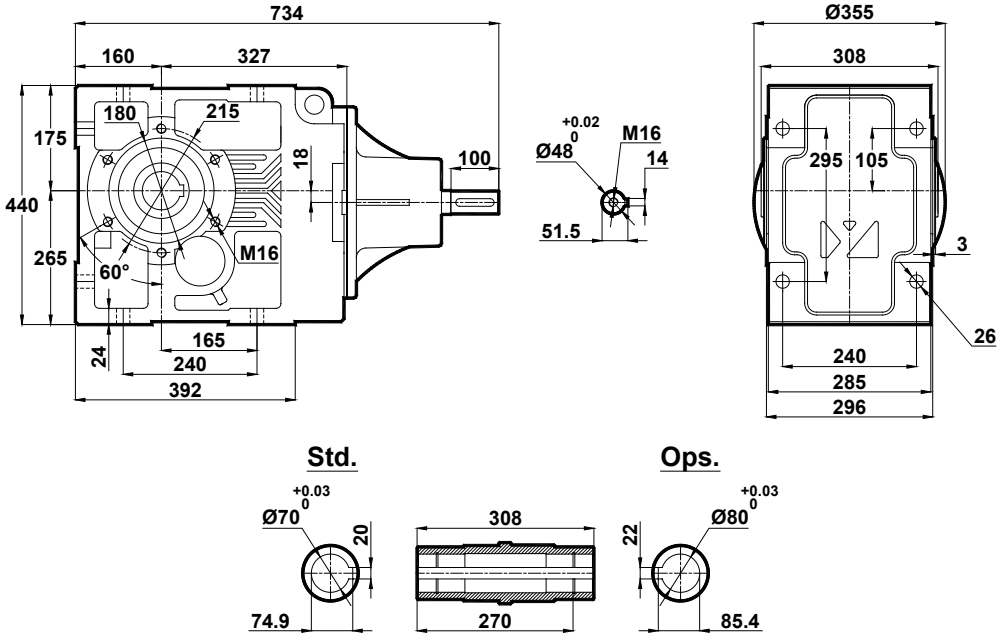
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KT575.08
KT576.08

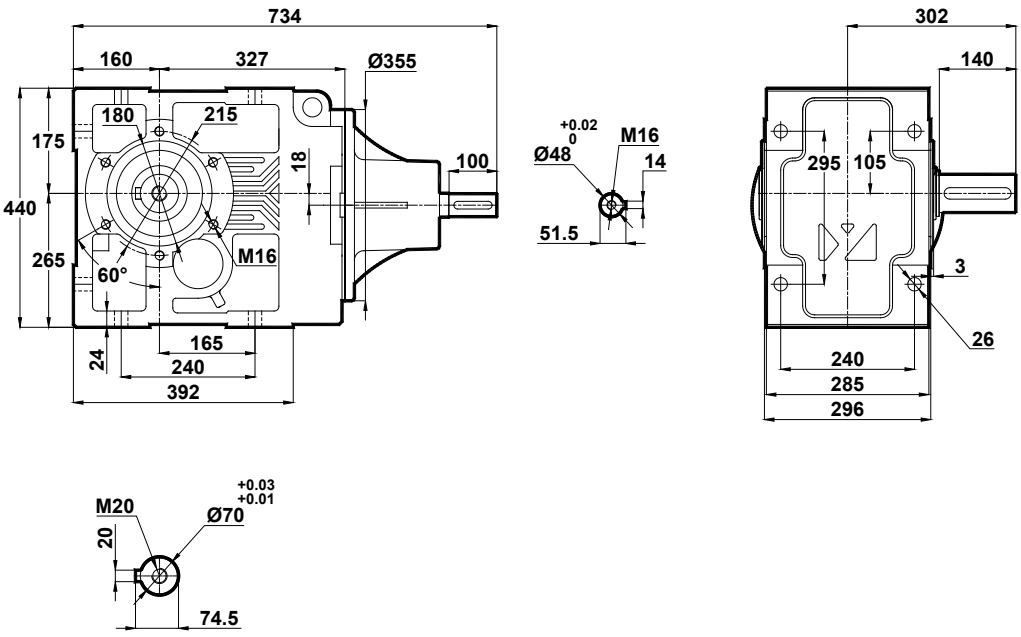


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KT673.00

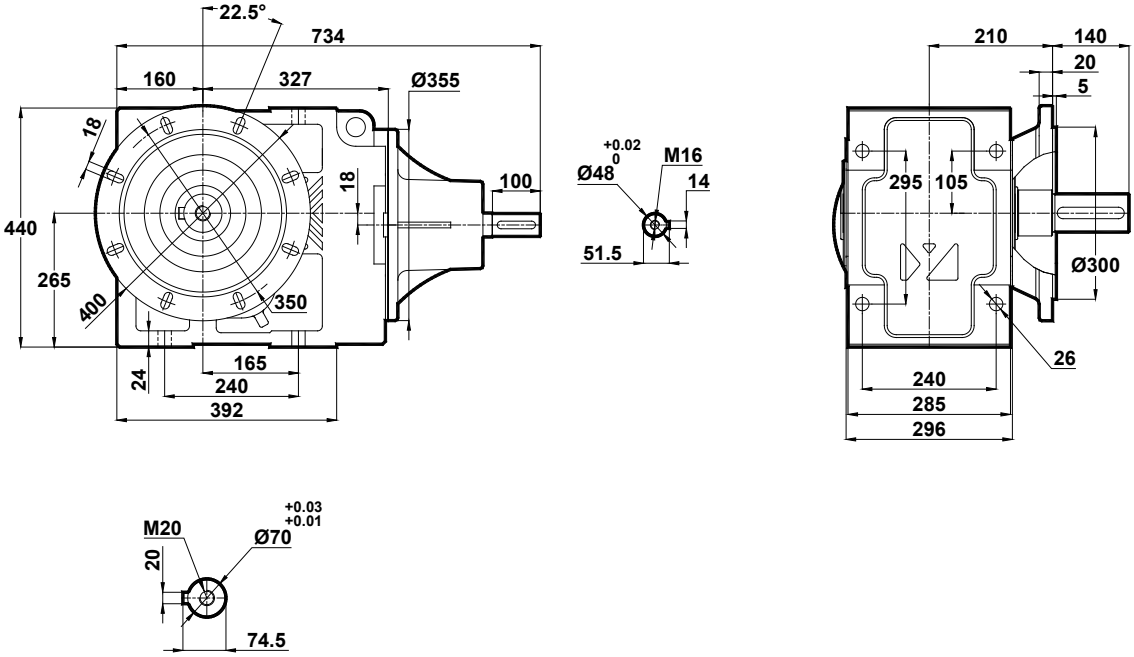


KT673.01

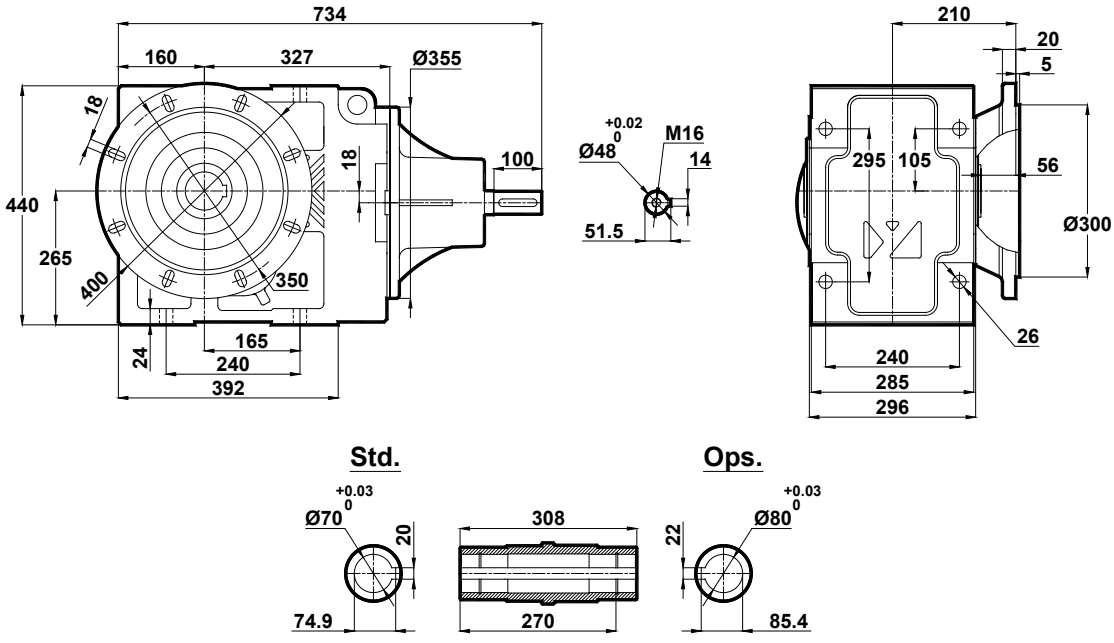


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT673.02

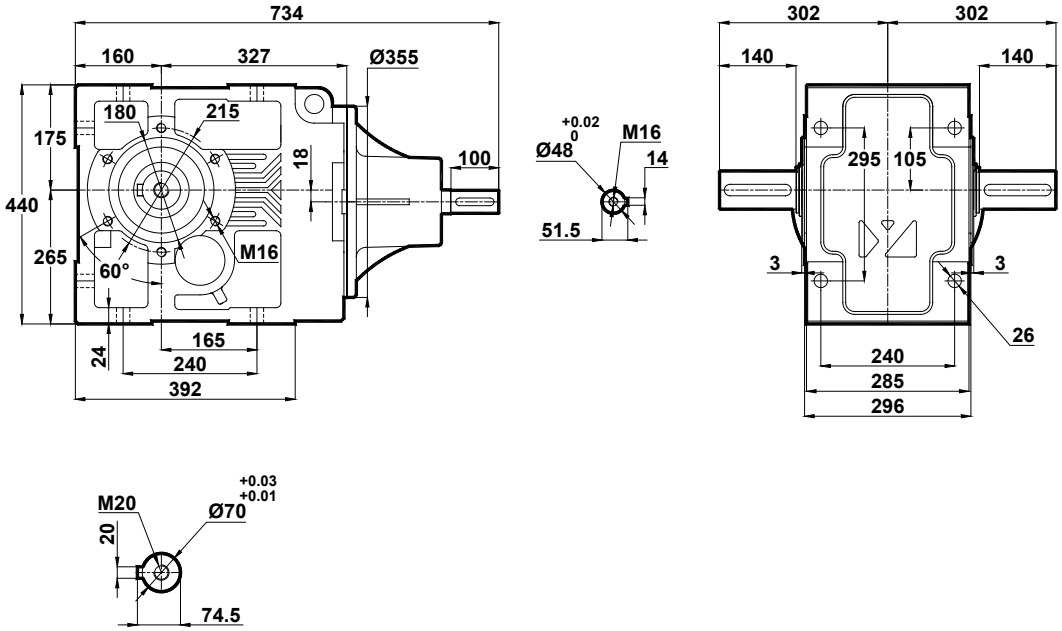


KT673.03

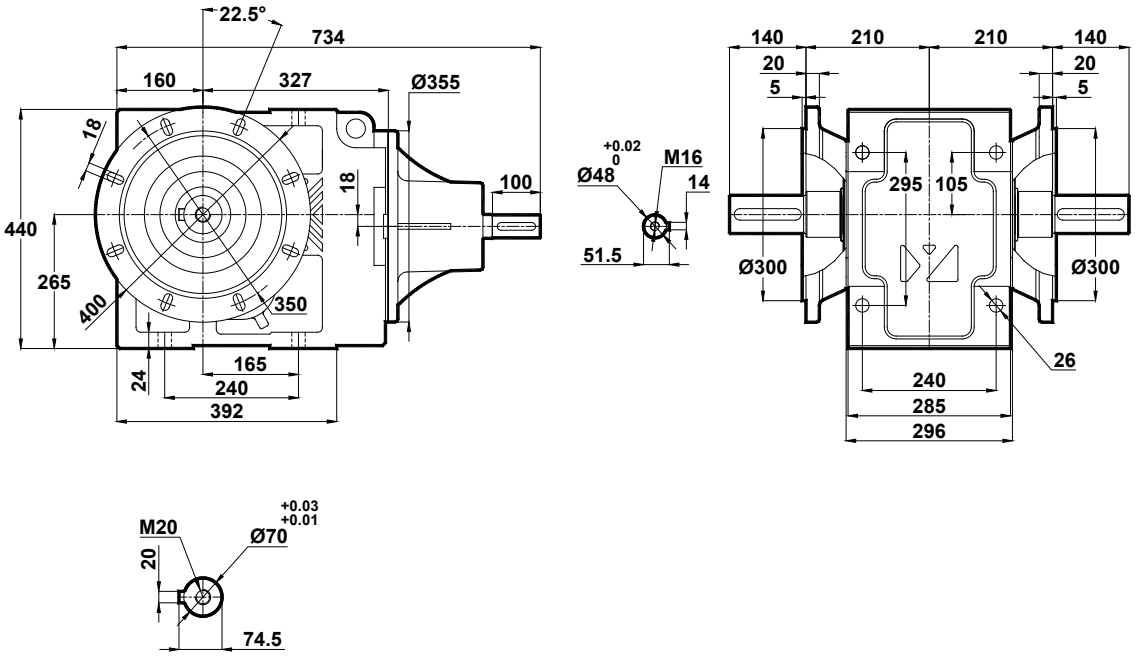


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KT673.04

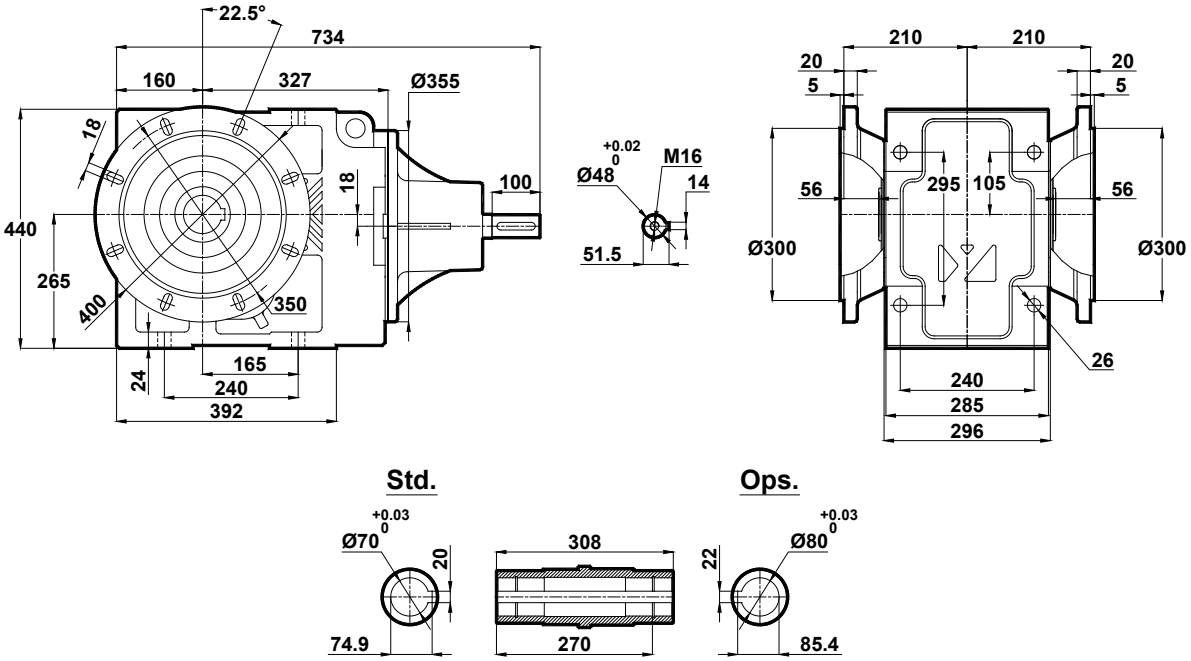


KT673.05



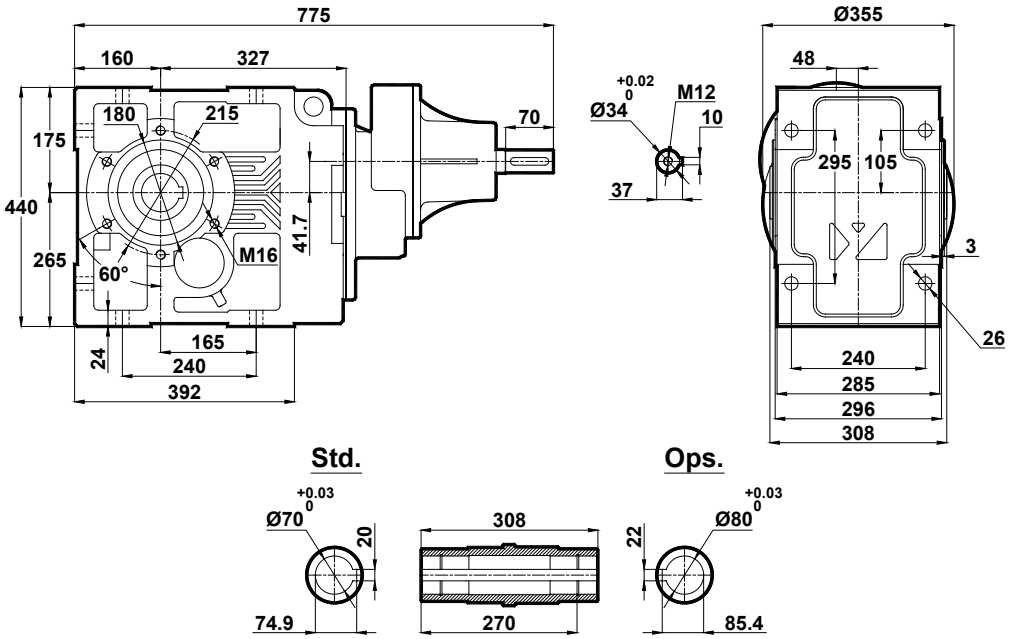
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KT673.08

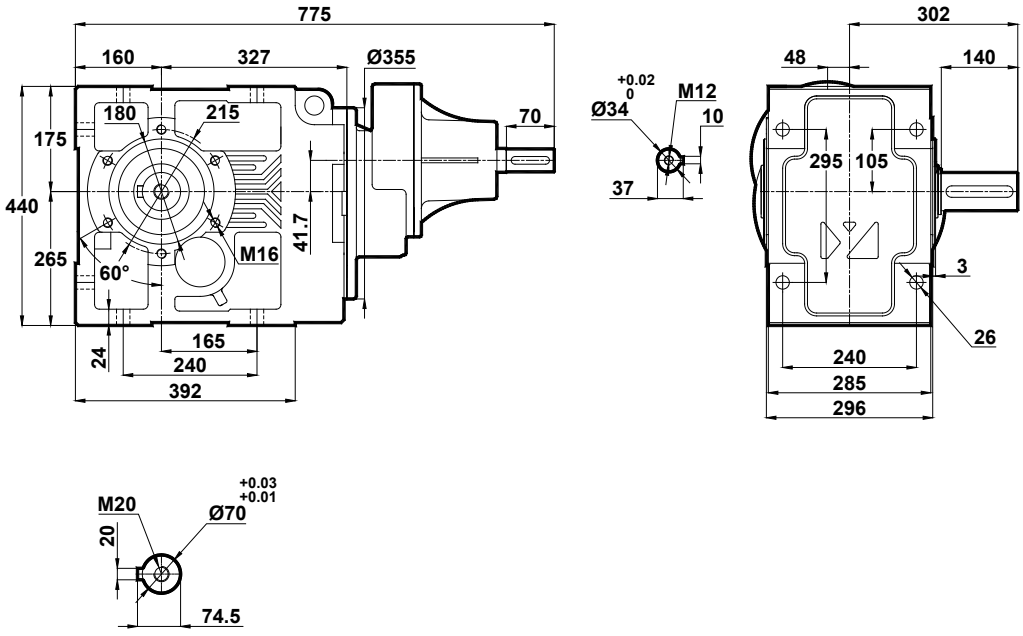


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KT674.00

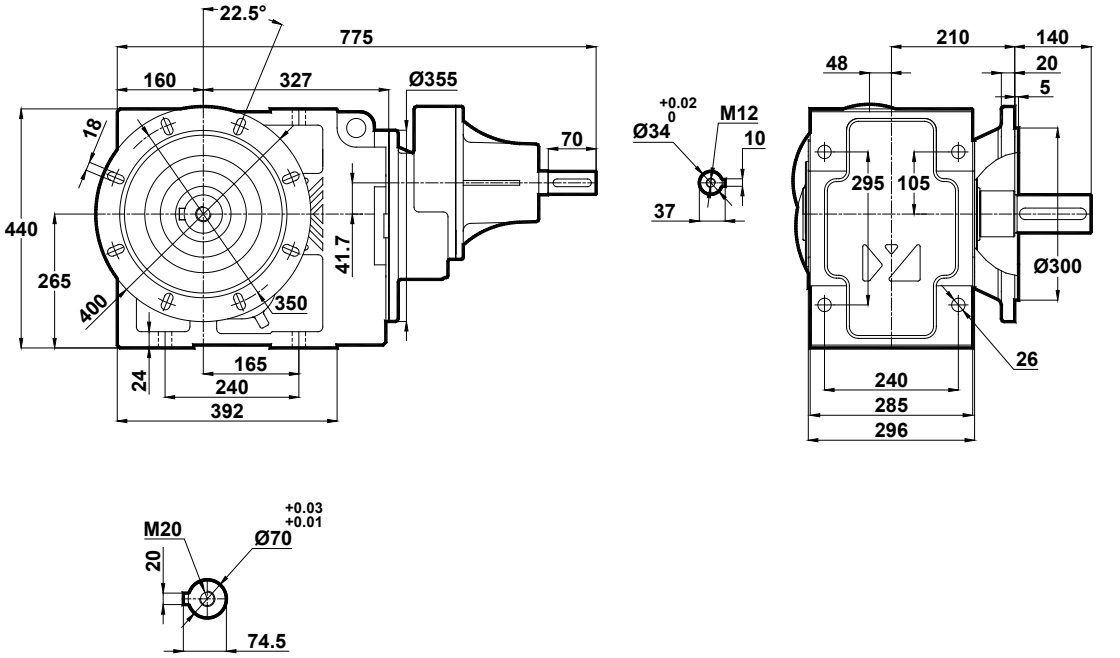


KT674.01

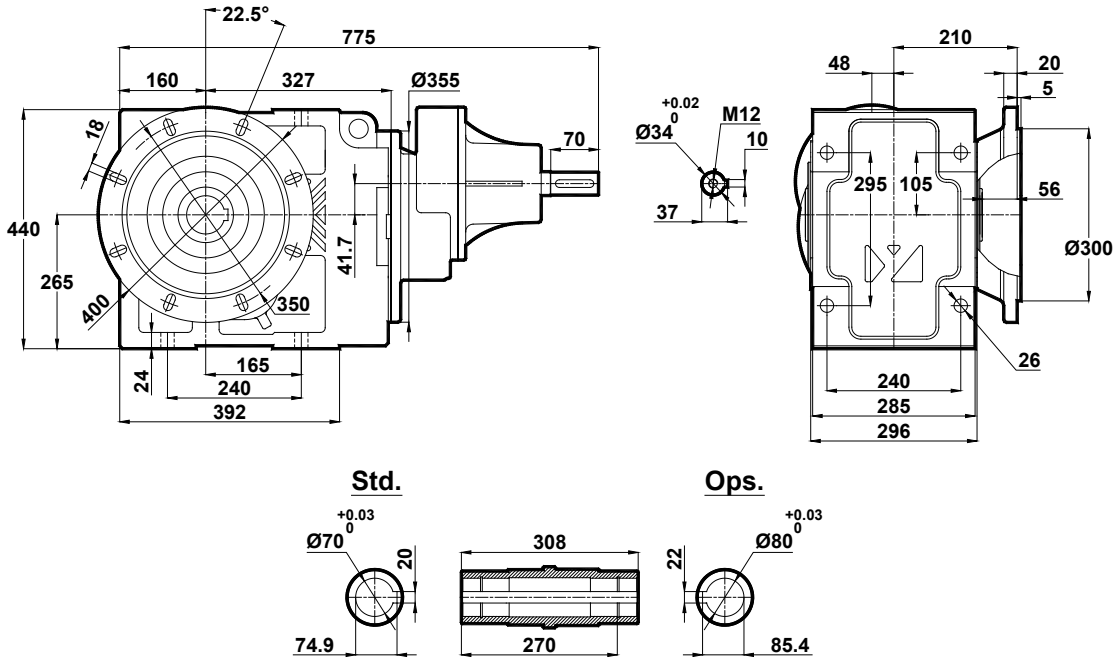


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KT674.02

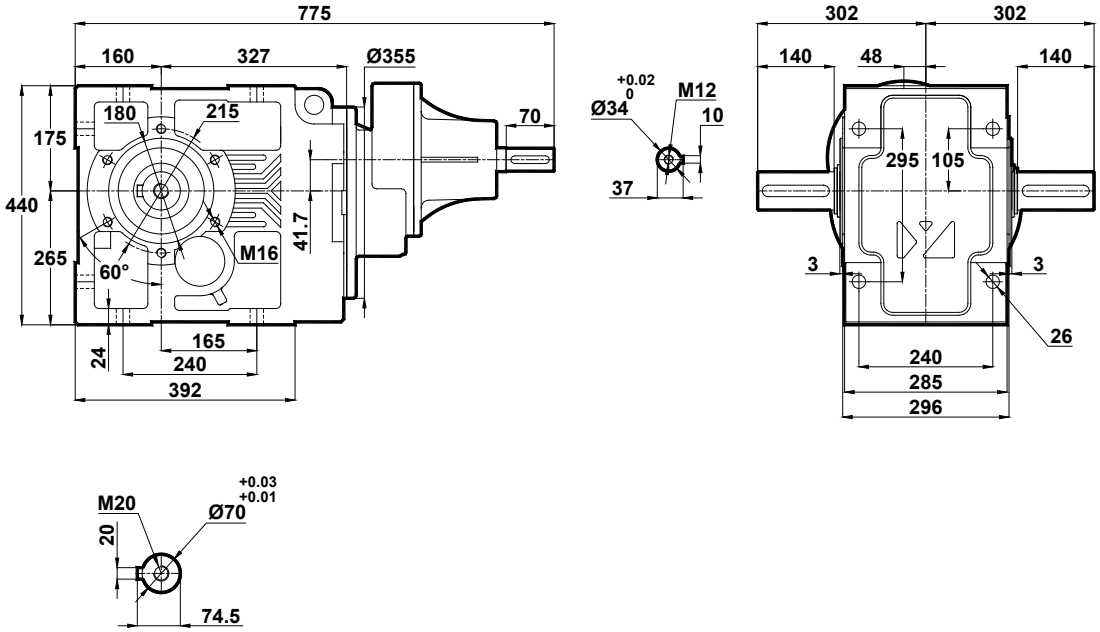


KT674.03

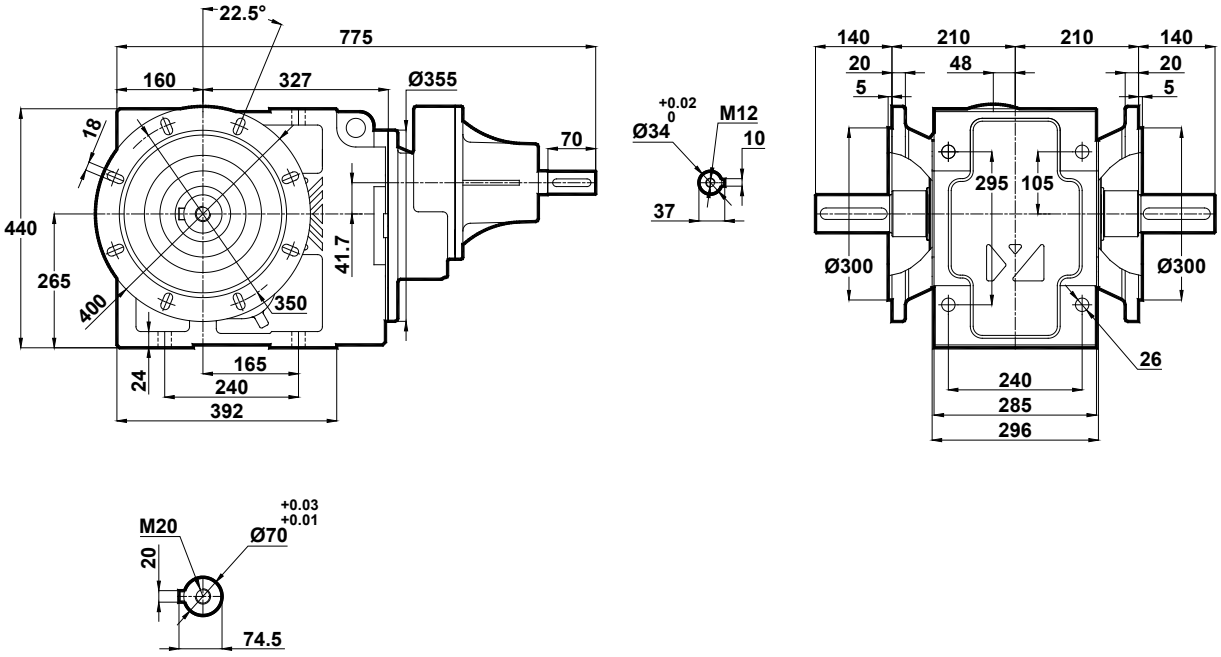


-Mil ucu çektirme deliği DIN 332 sayfa 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT674.04

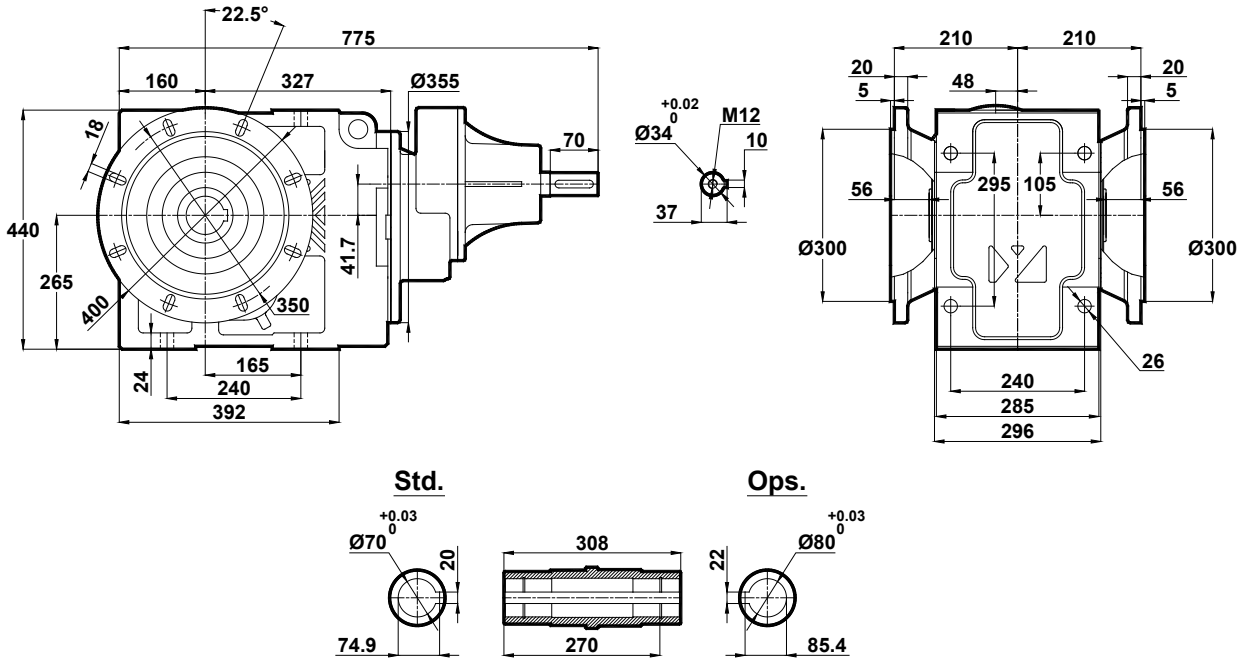


KT674.05



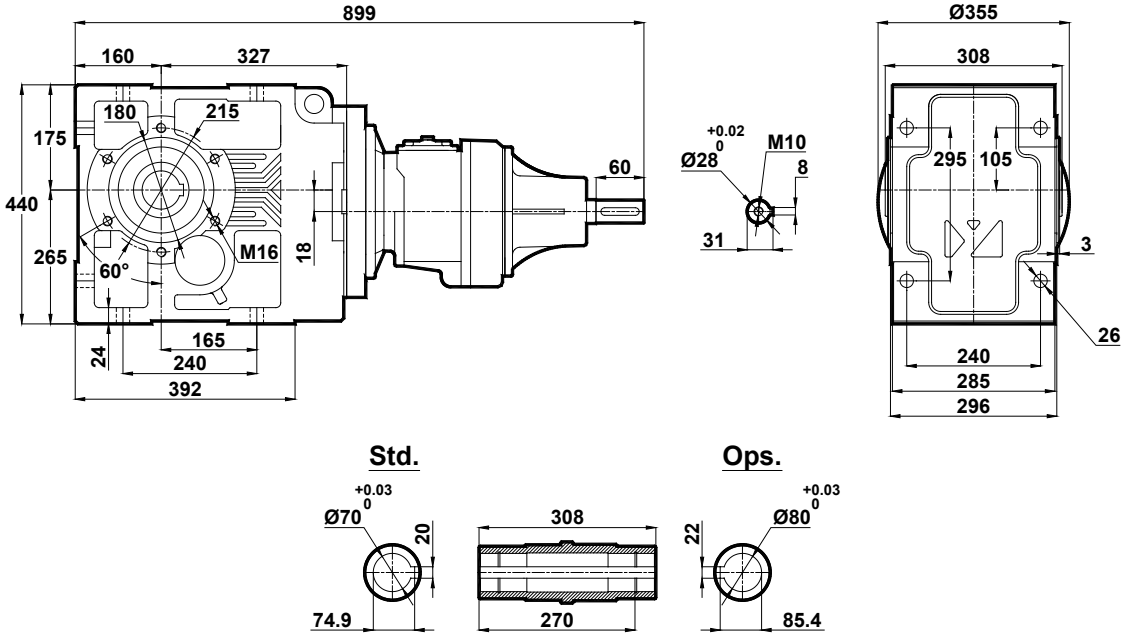
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KT674.08

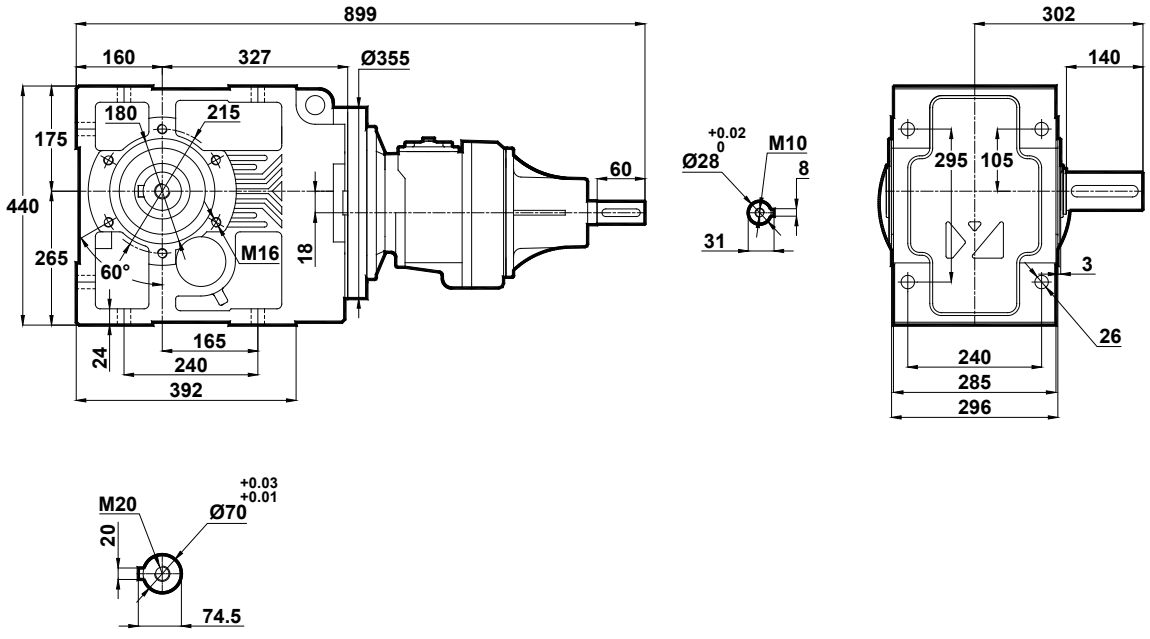


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KT675.00
KT676.00

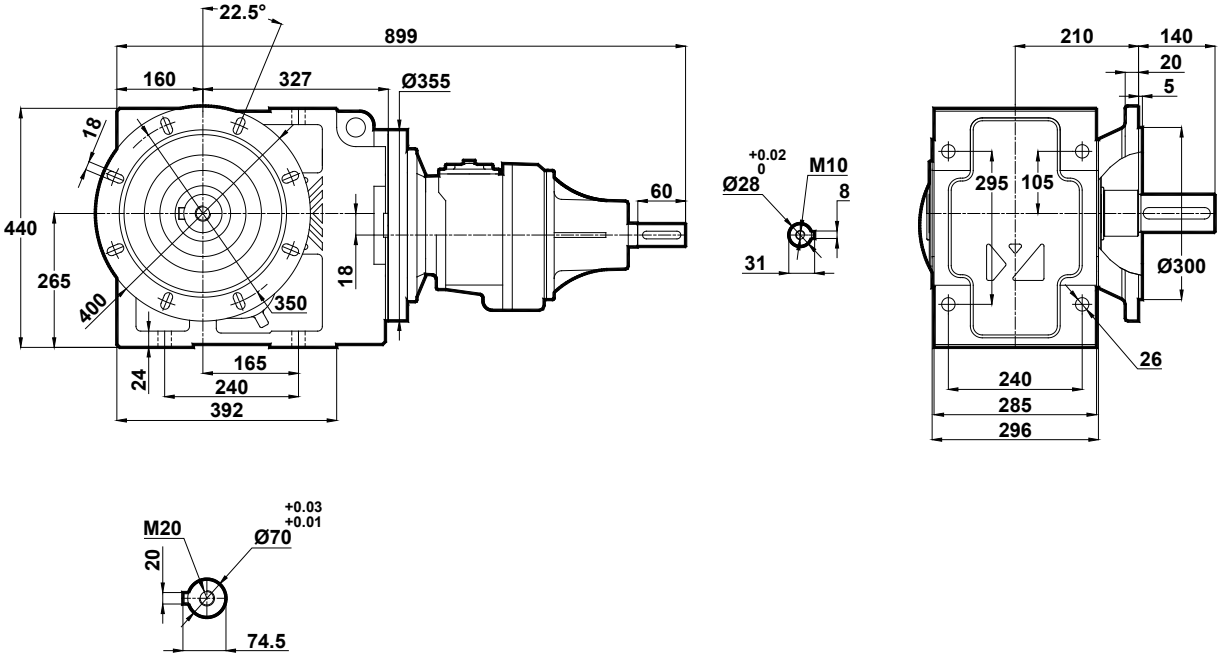


KT675.01
KT676.01

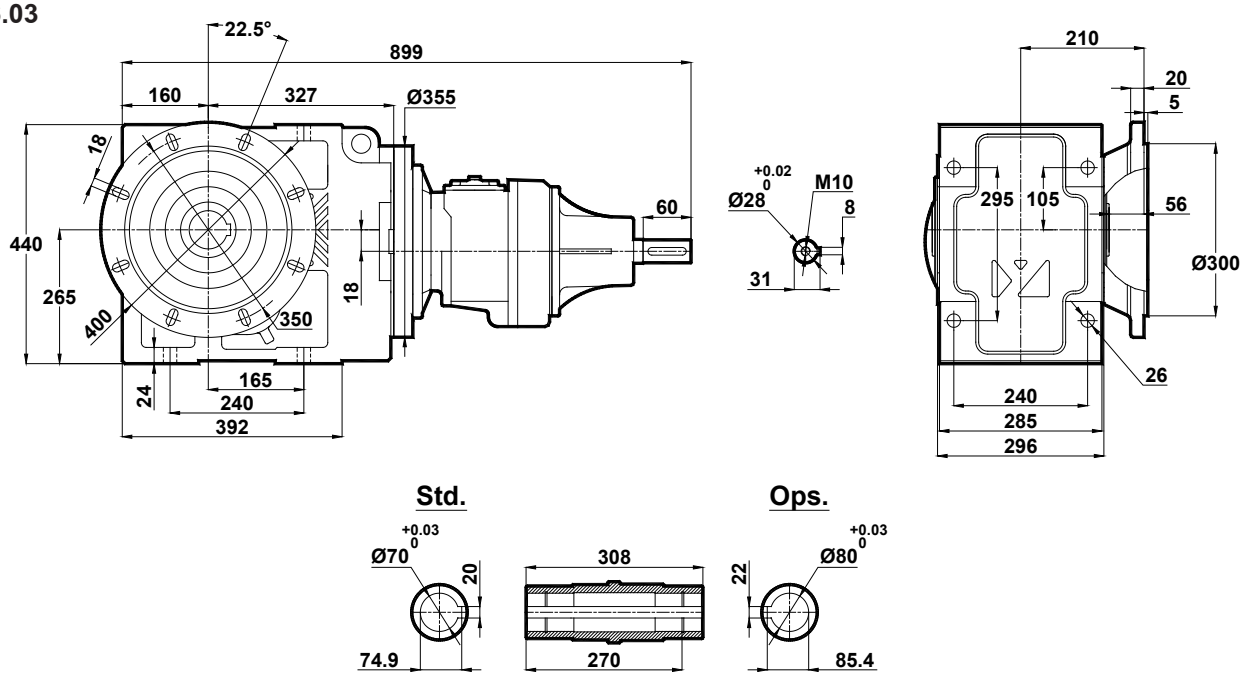


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KT675.02
KT676.02

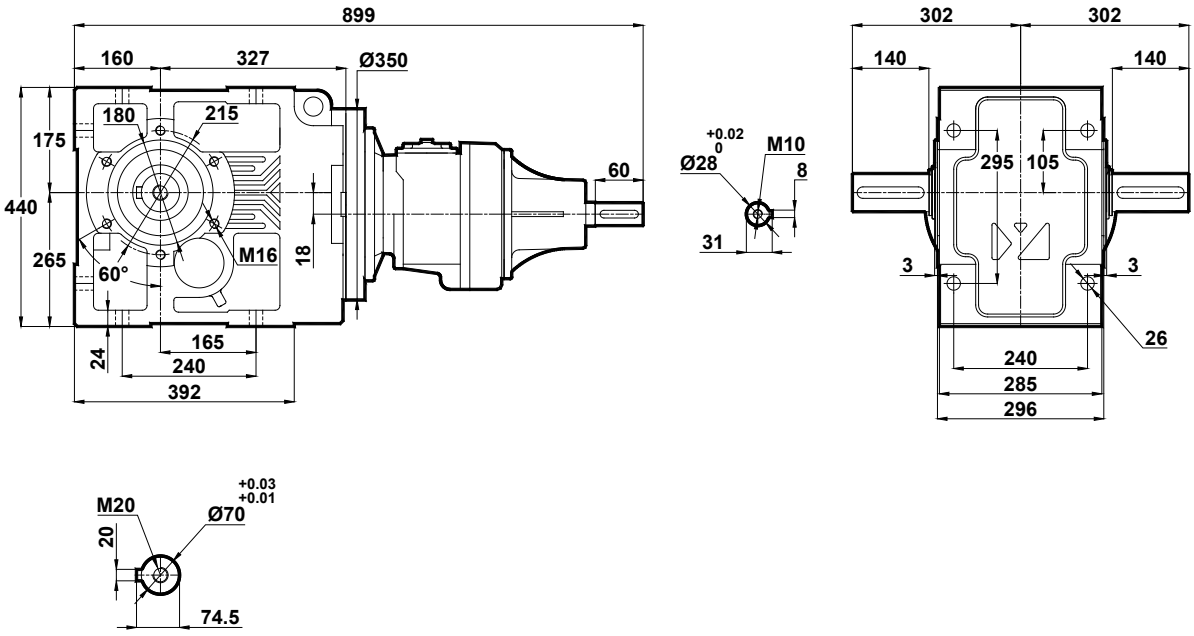


KT675.03
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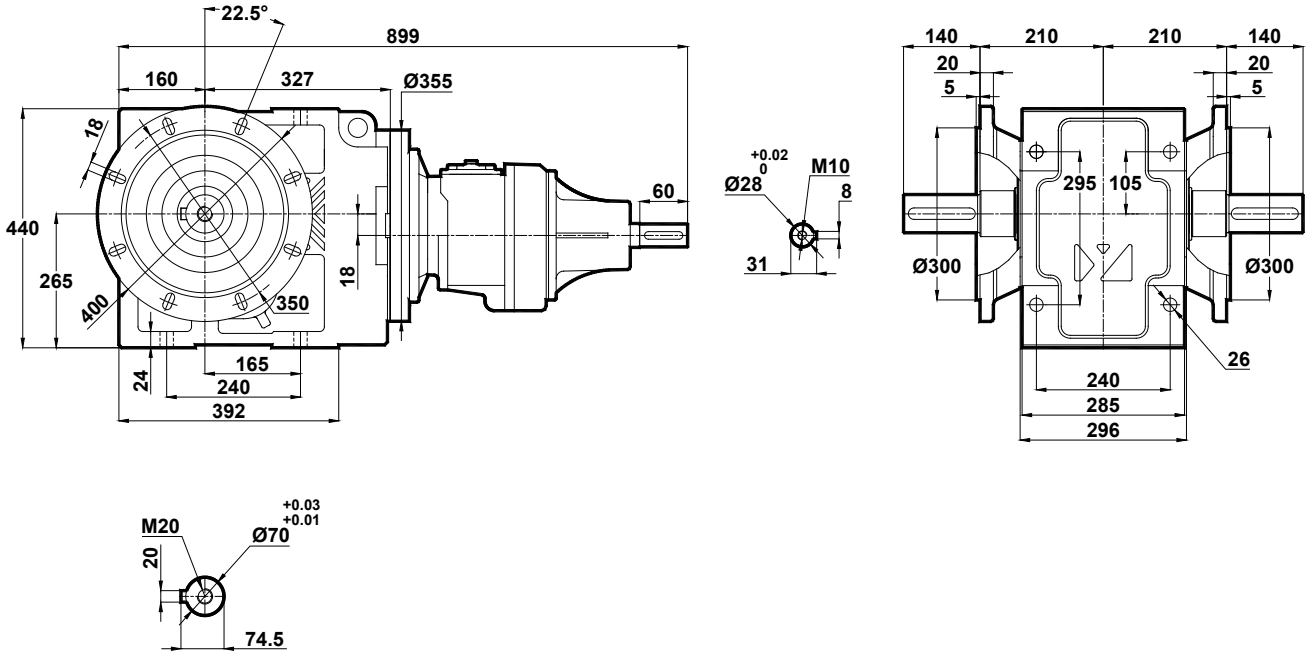


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KT675.04
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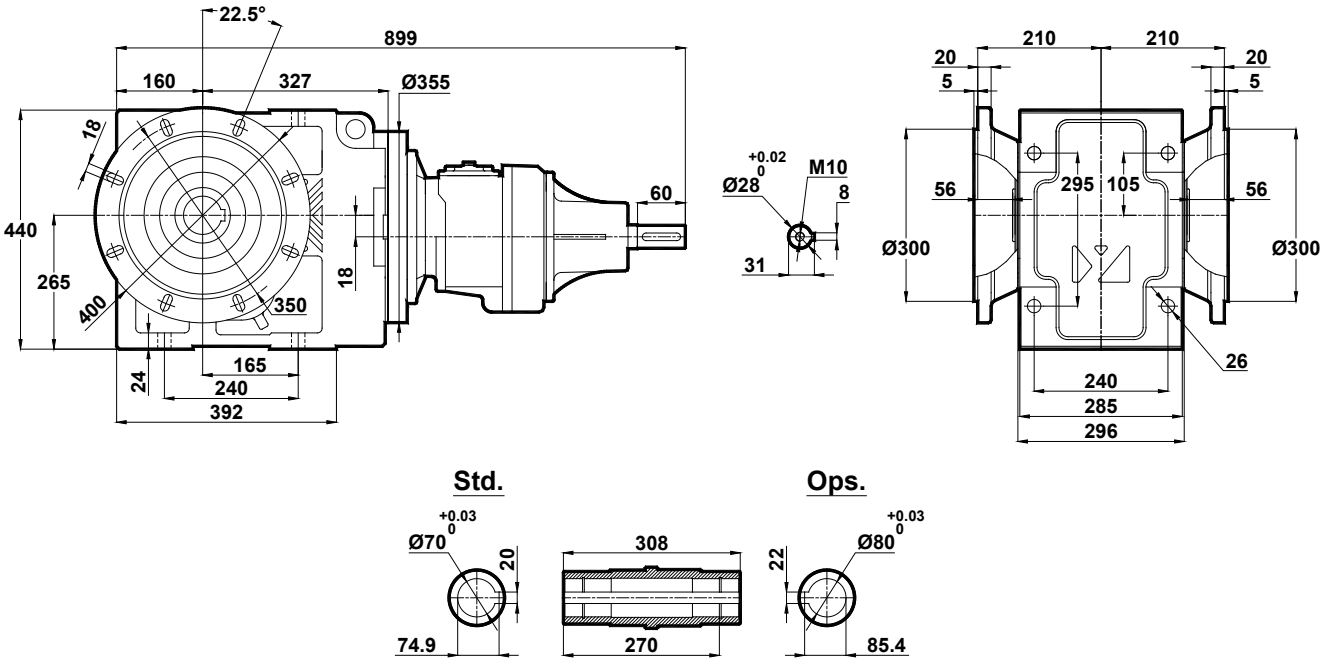


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KT676.05



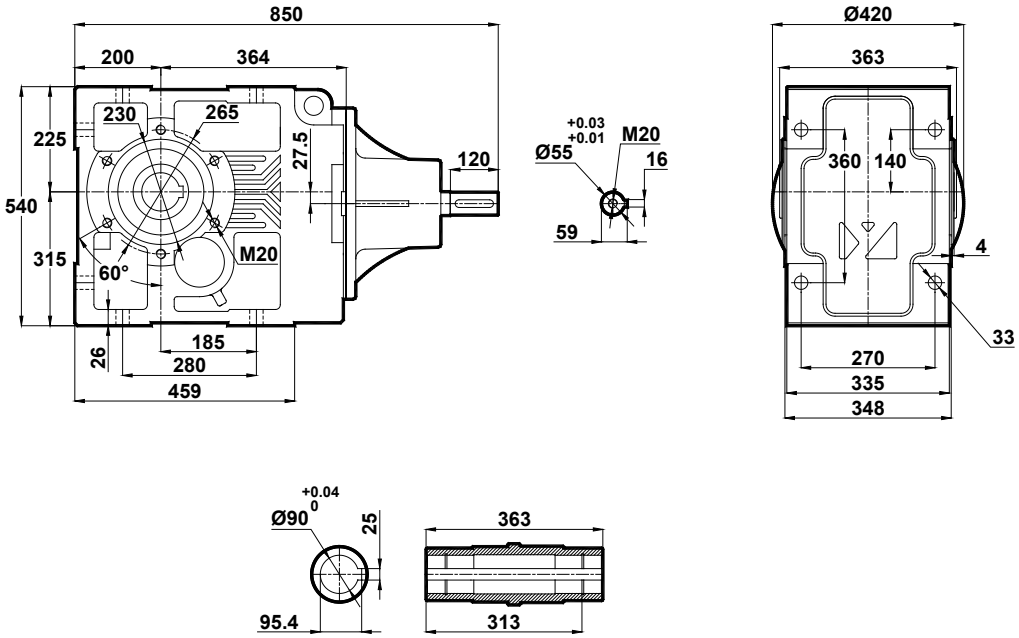
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KT675.08
KT676.08

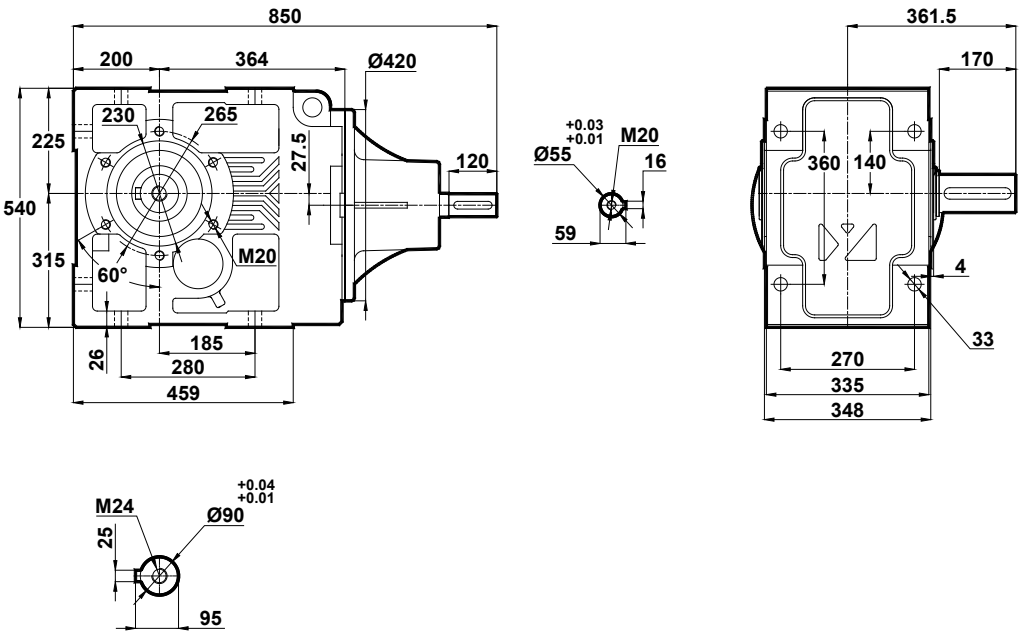


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KT773.00

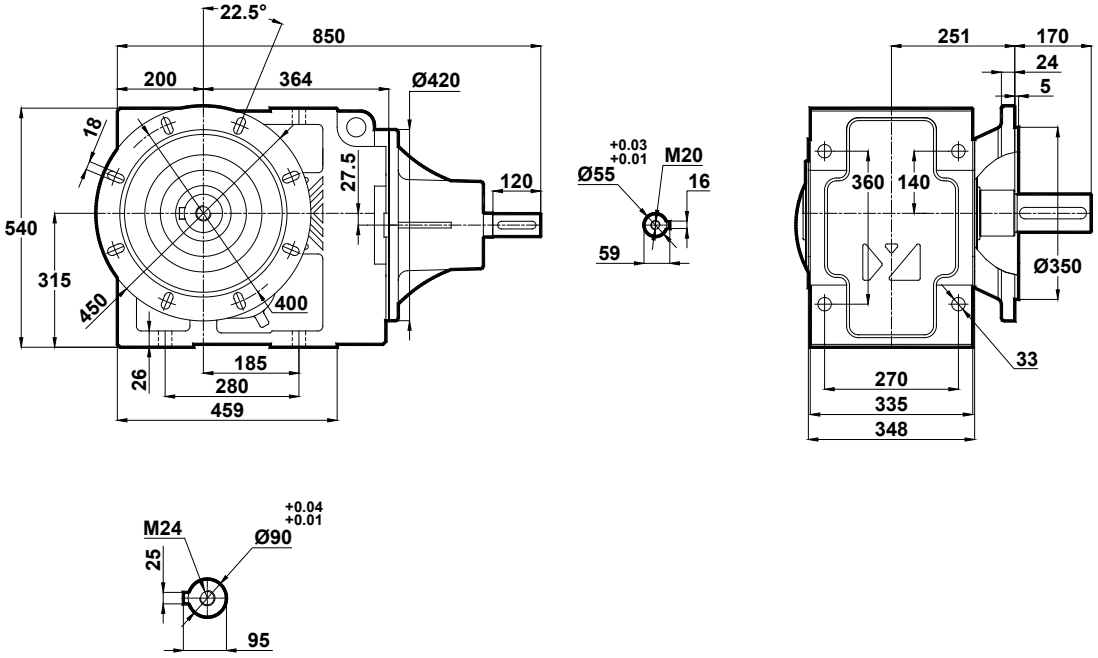


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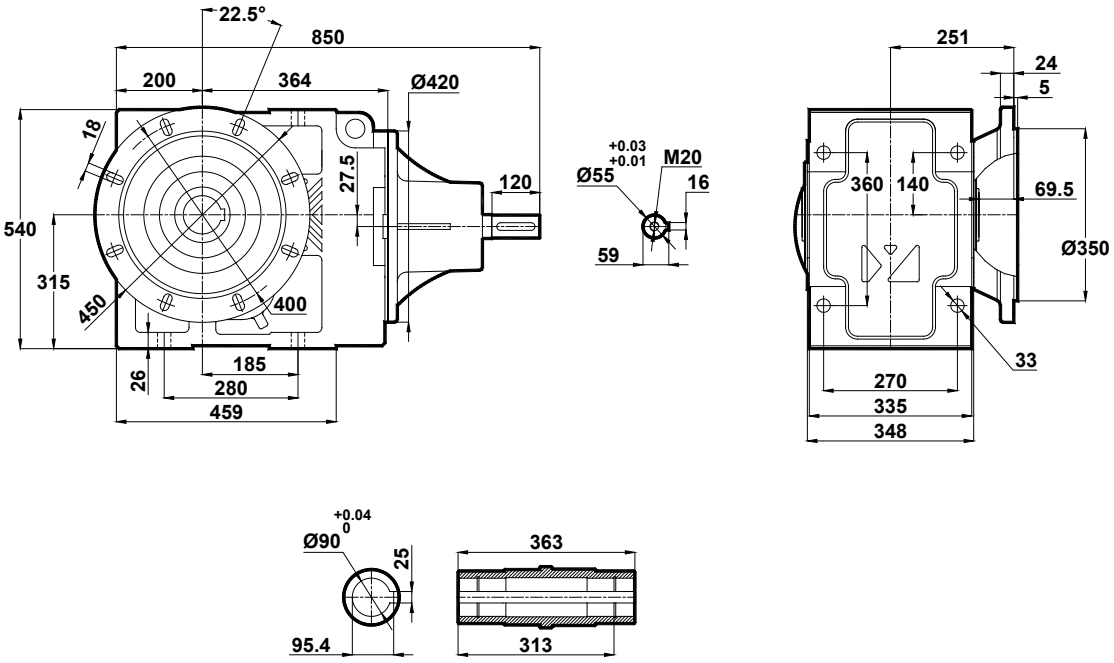


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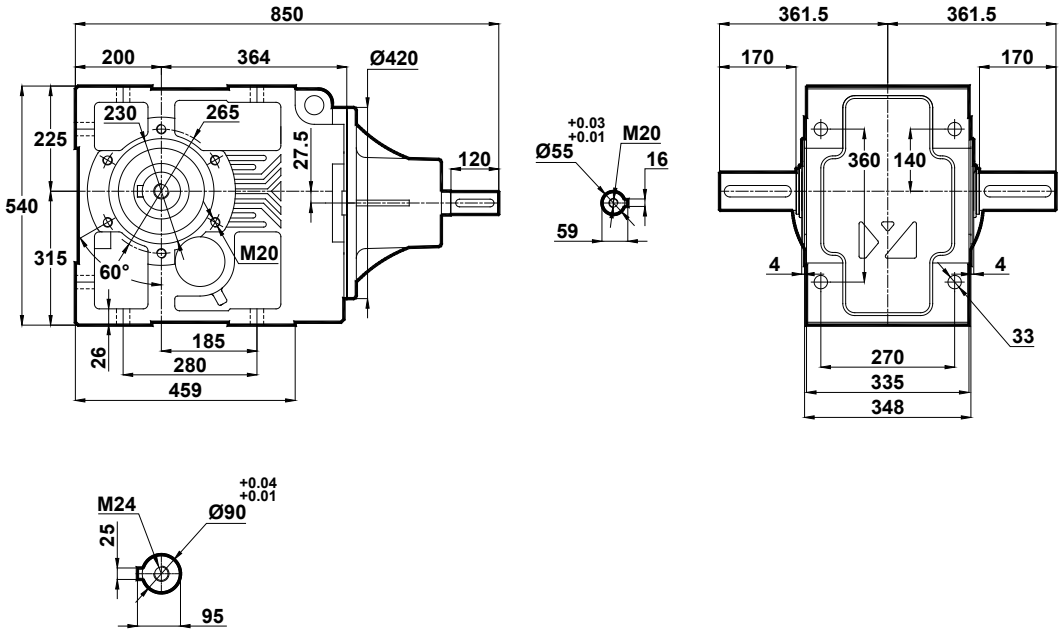


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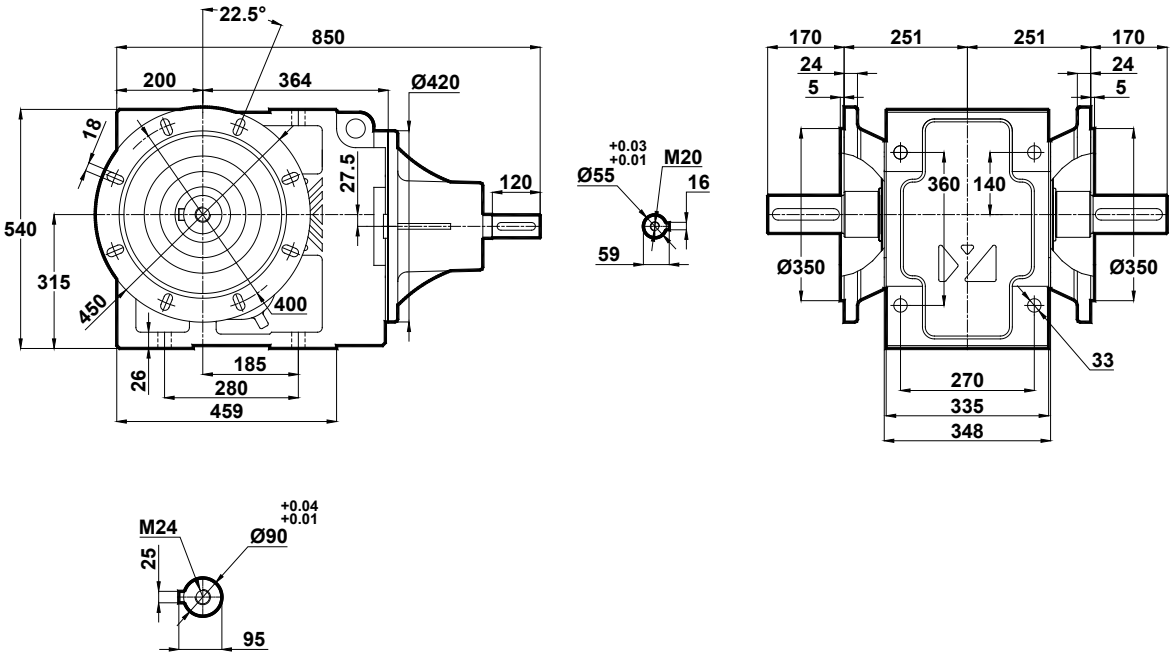


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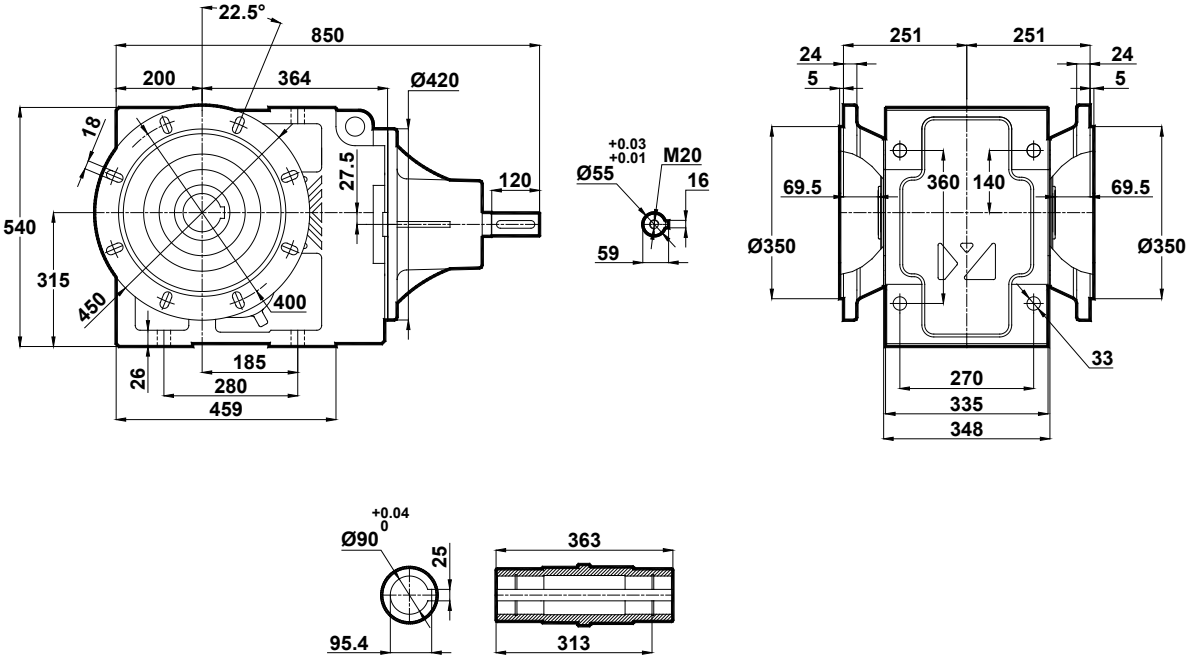


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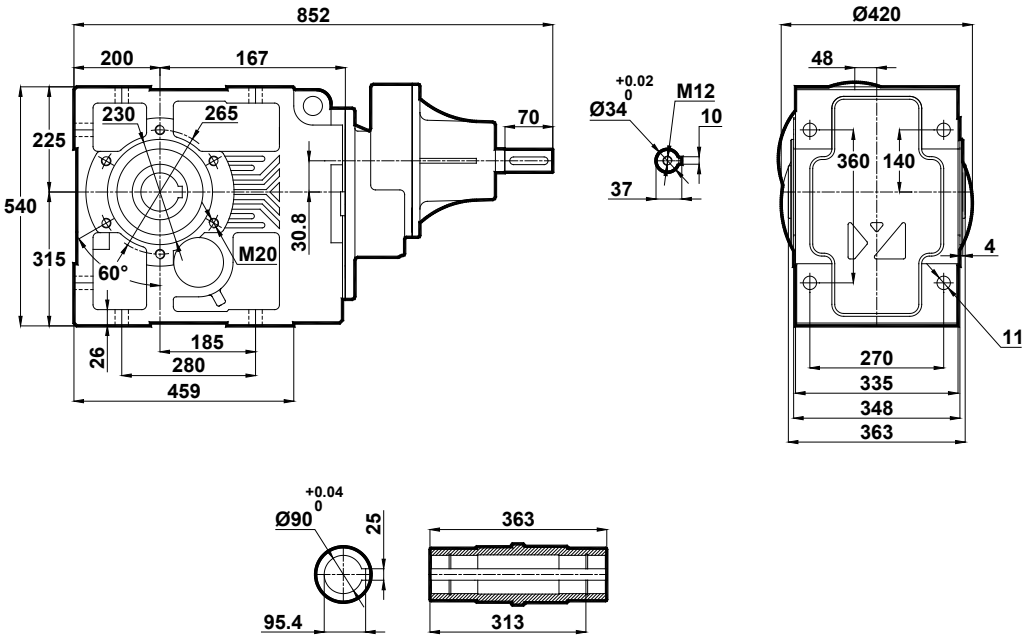
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KT773.08

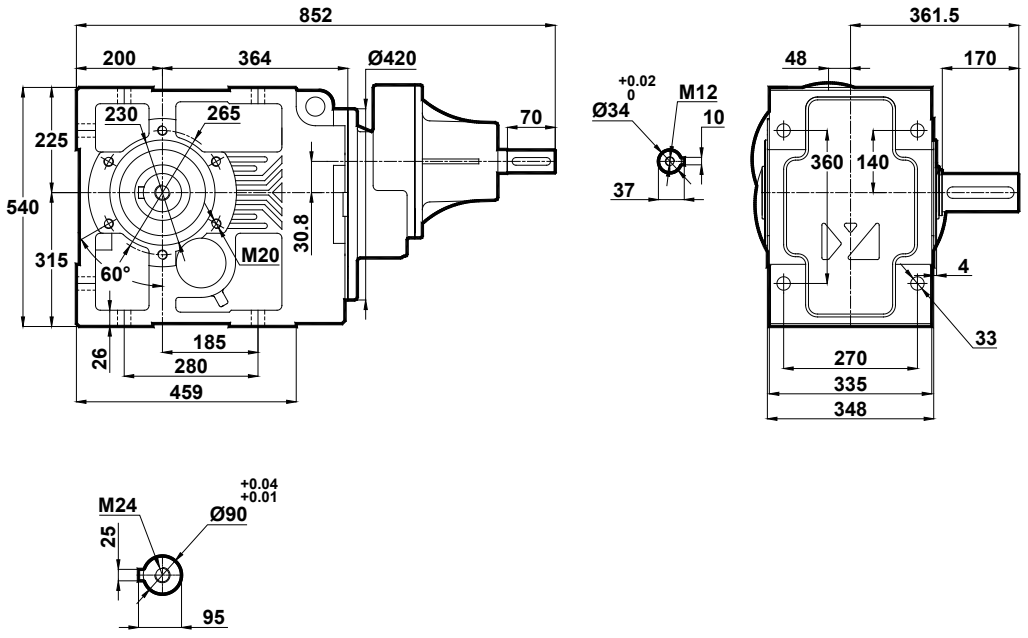


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KT774.00

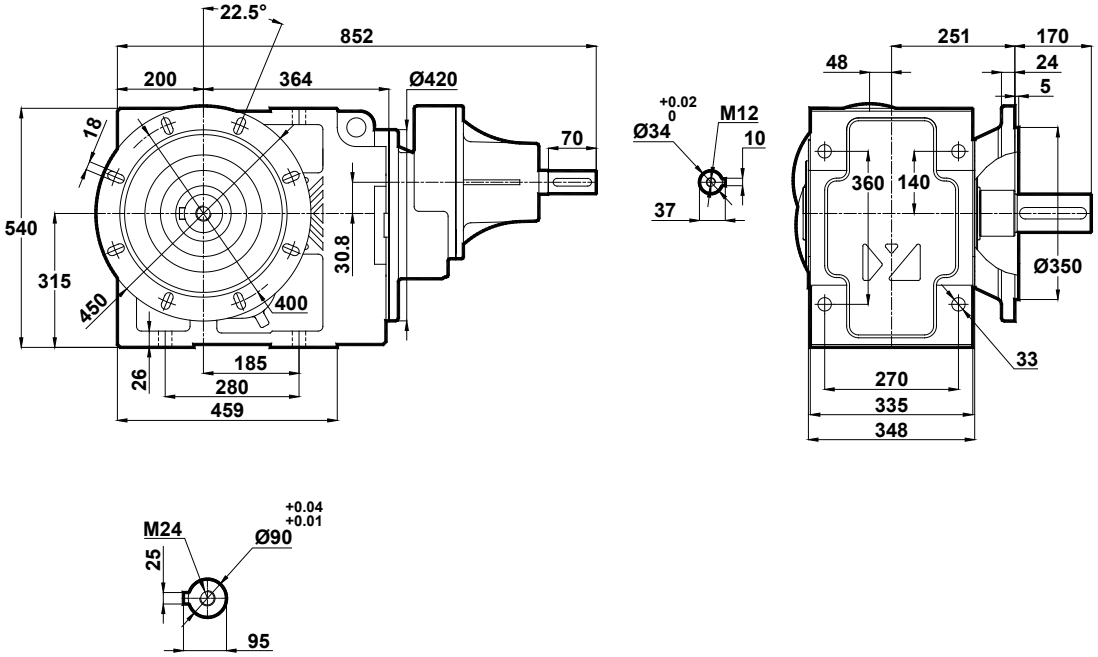


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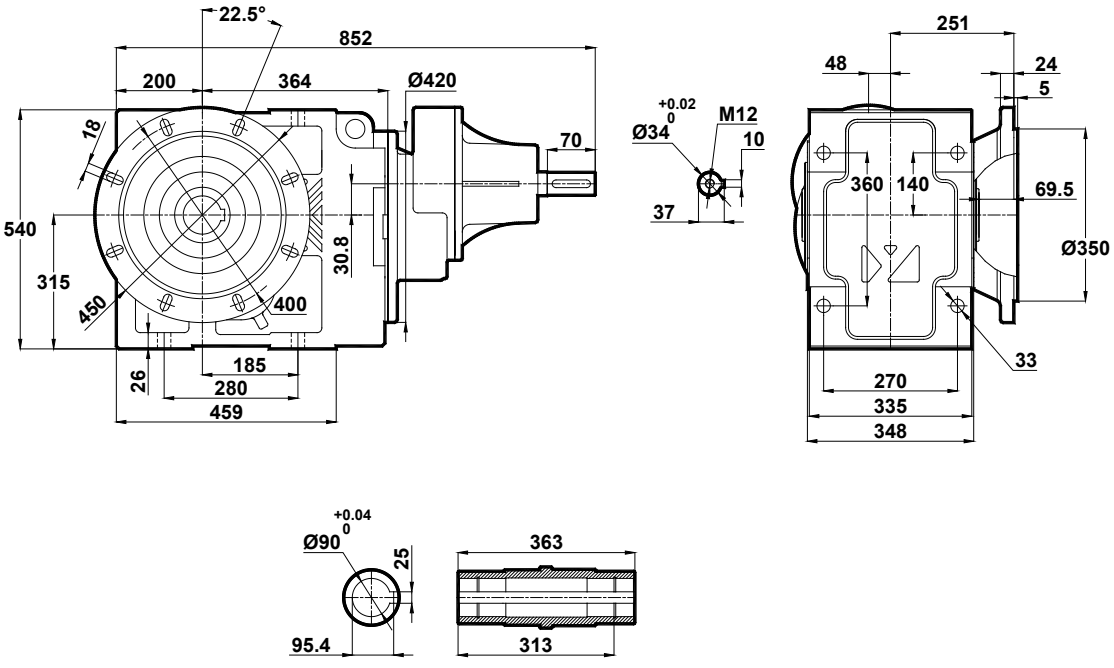


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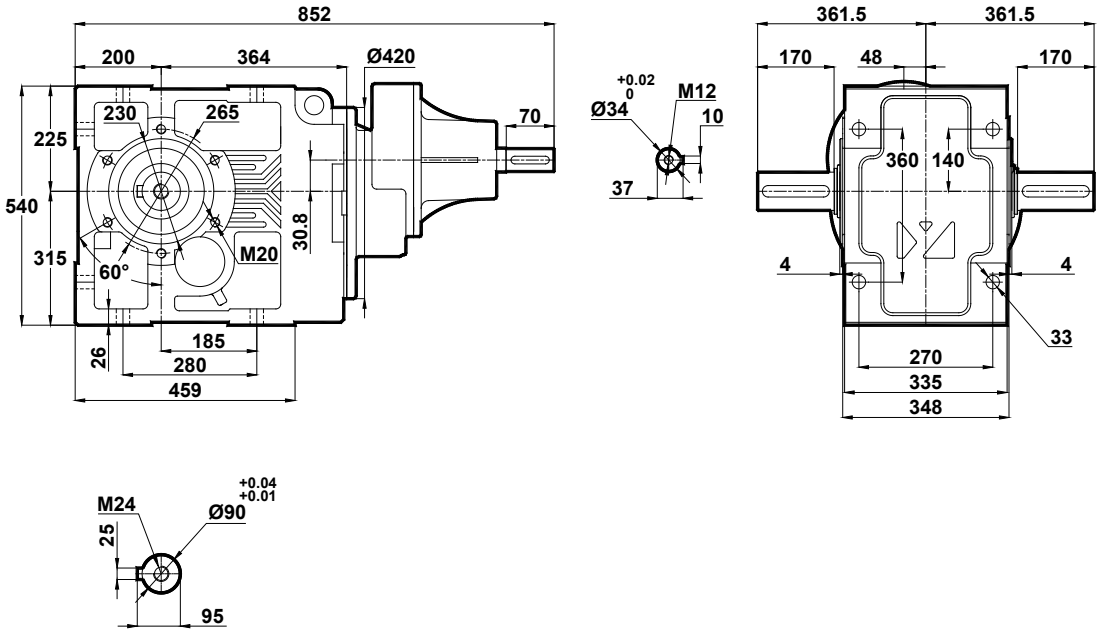


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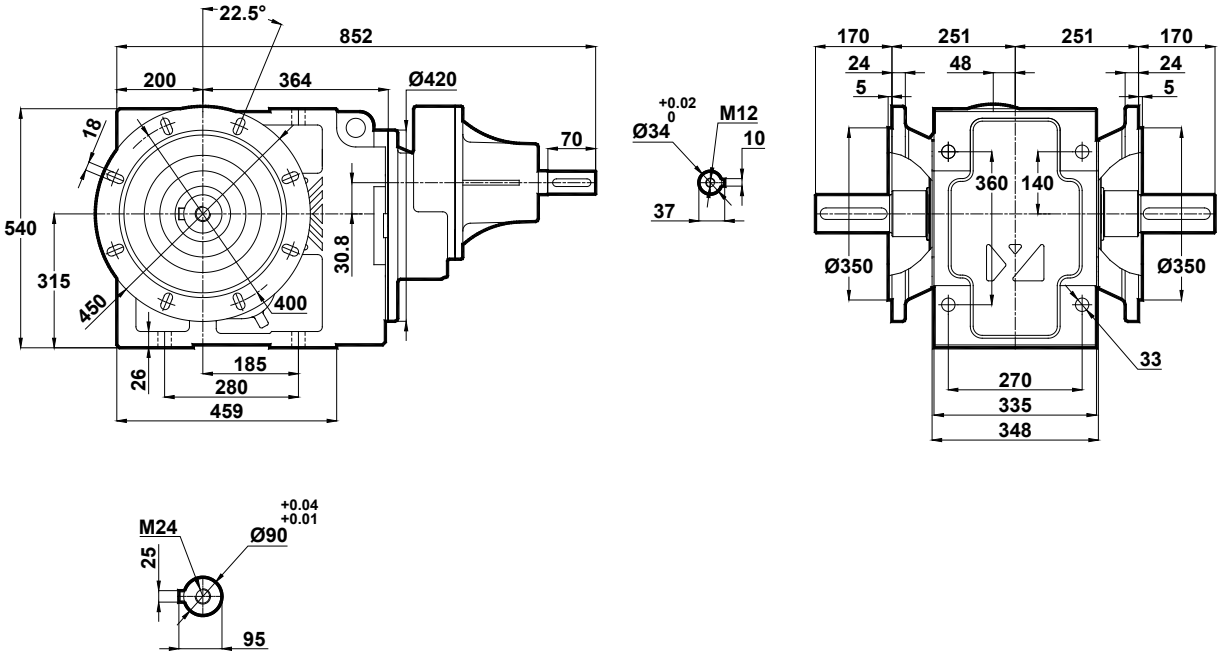


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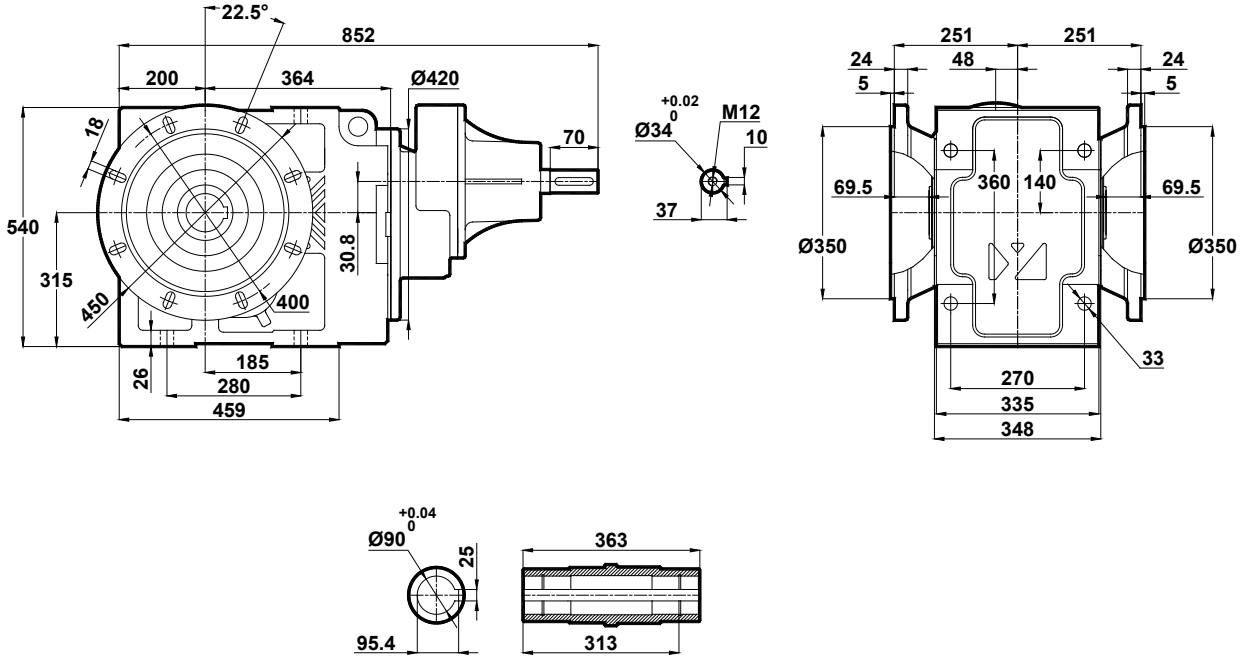


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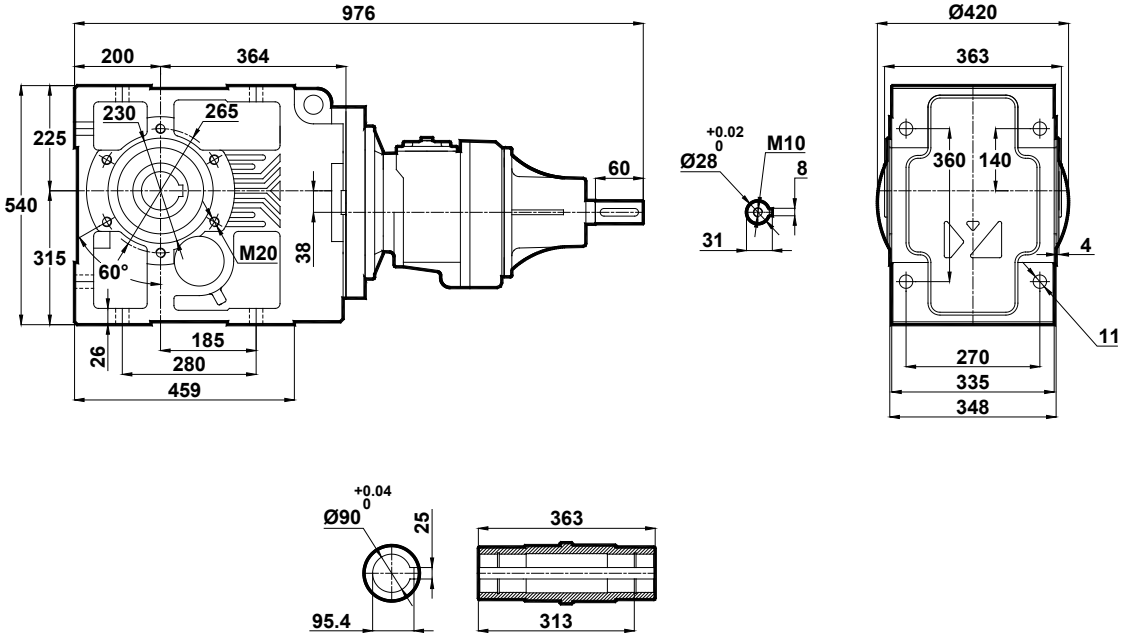
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KT774.08

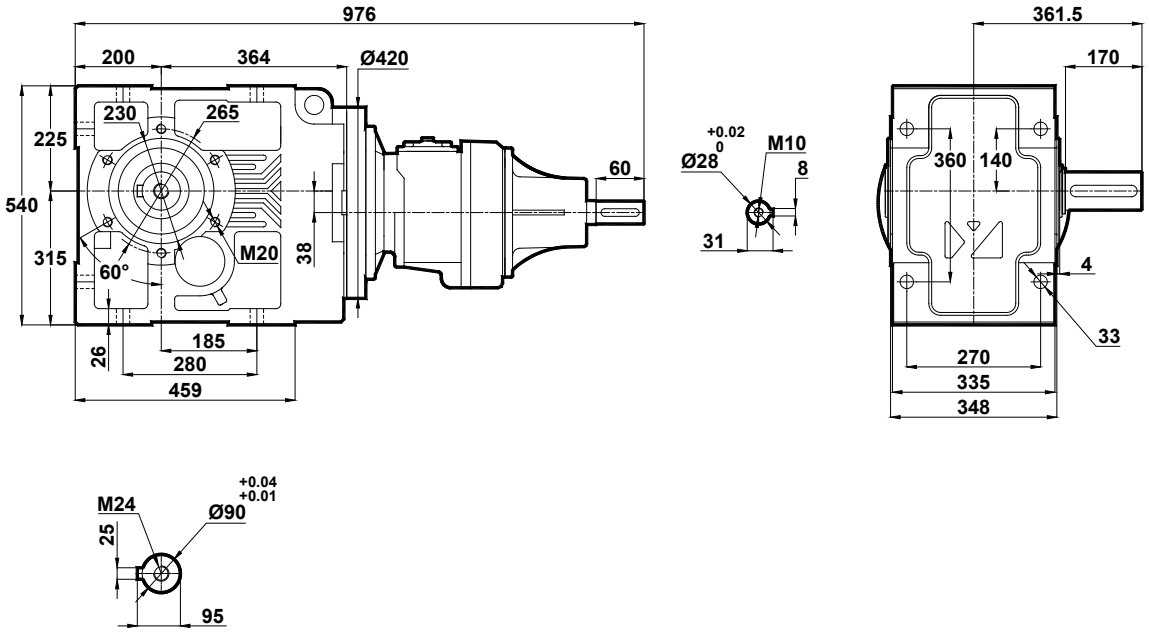


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KT775.00
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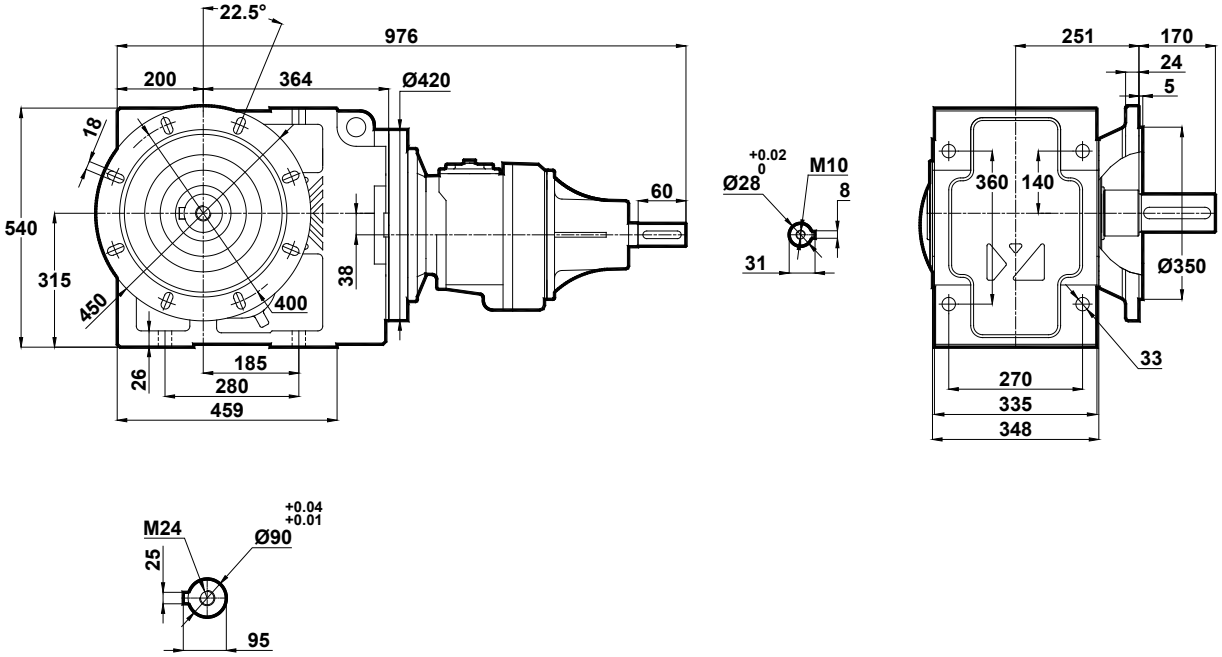


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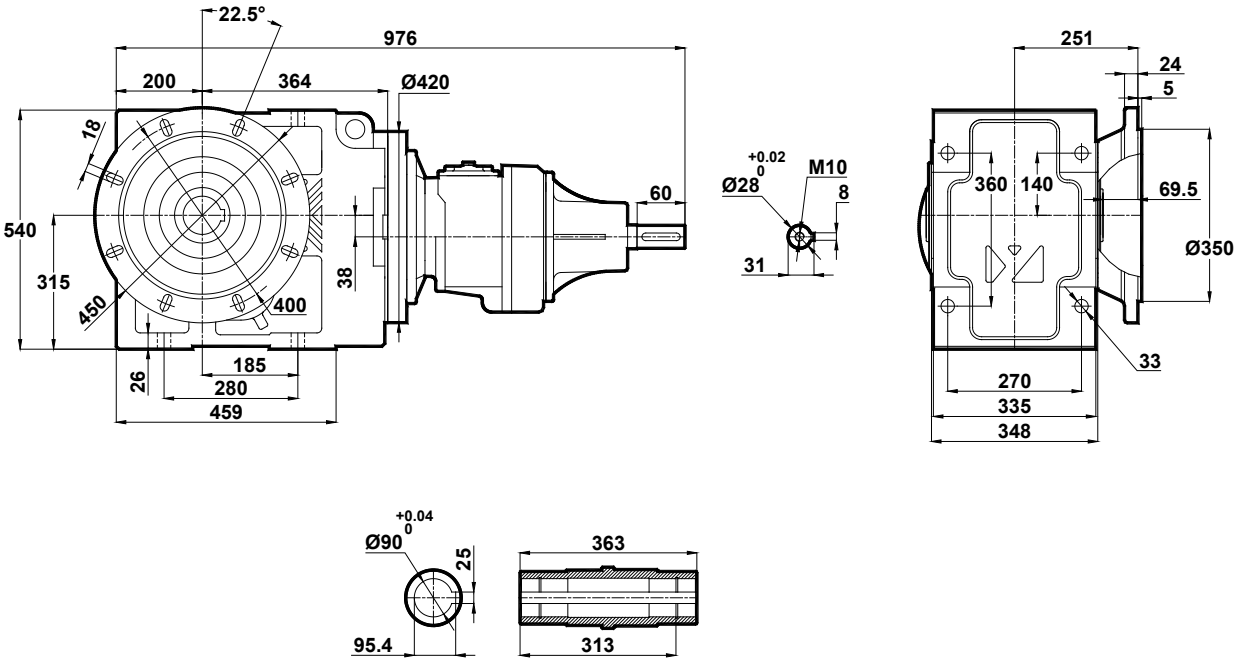


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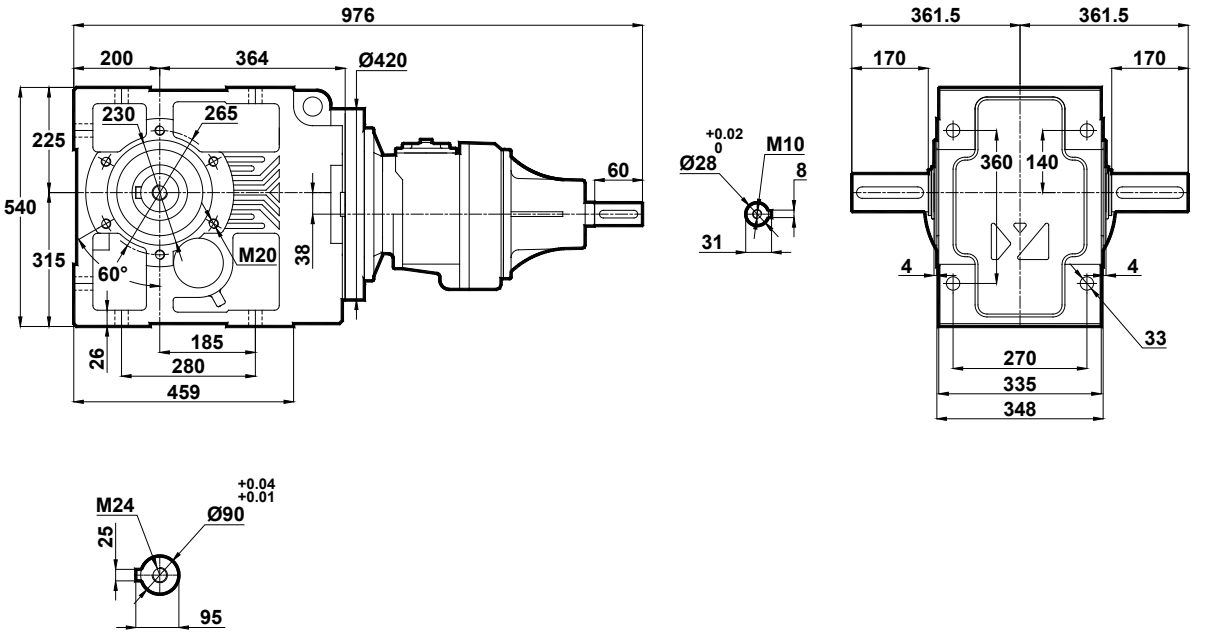


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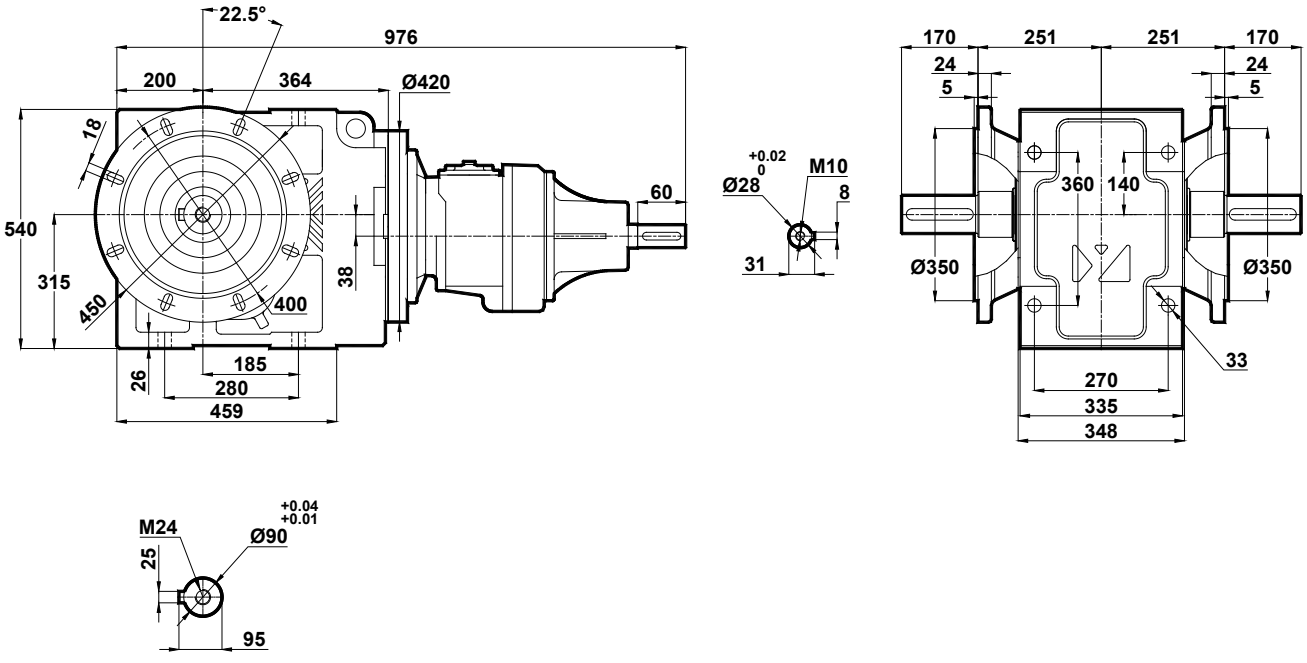


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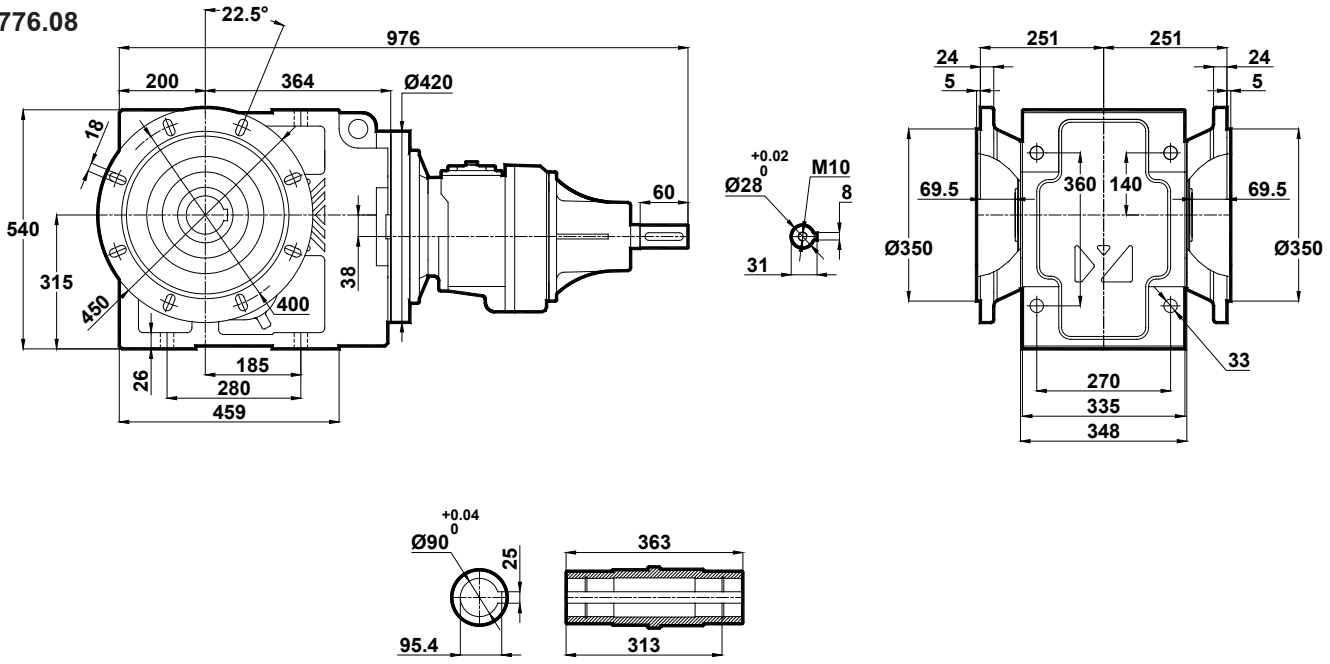


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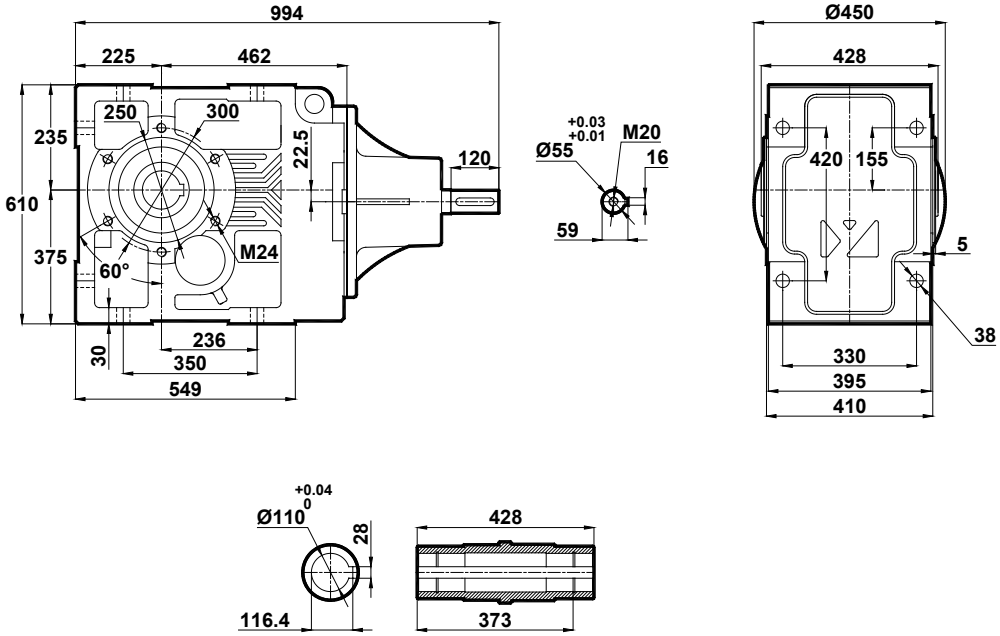
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KT775.08
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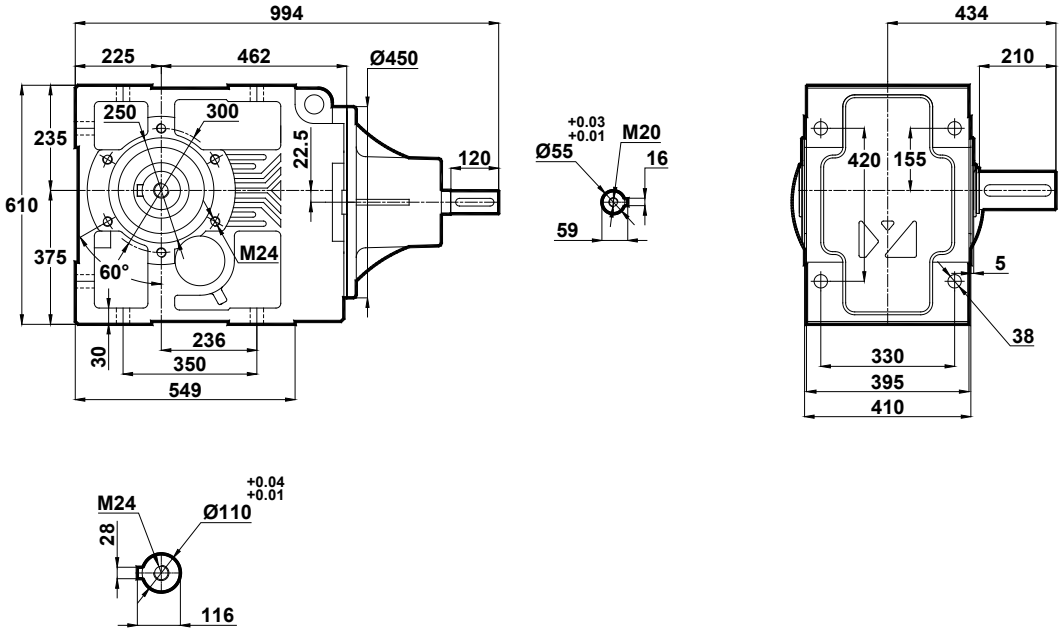


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KT873.00

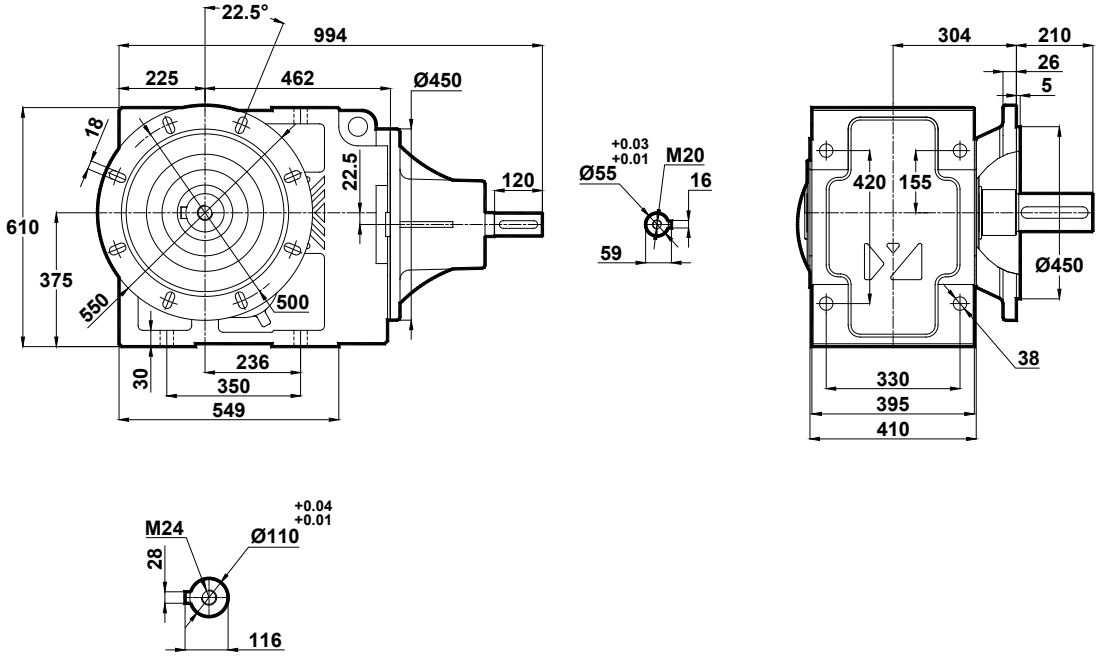


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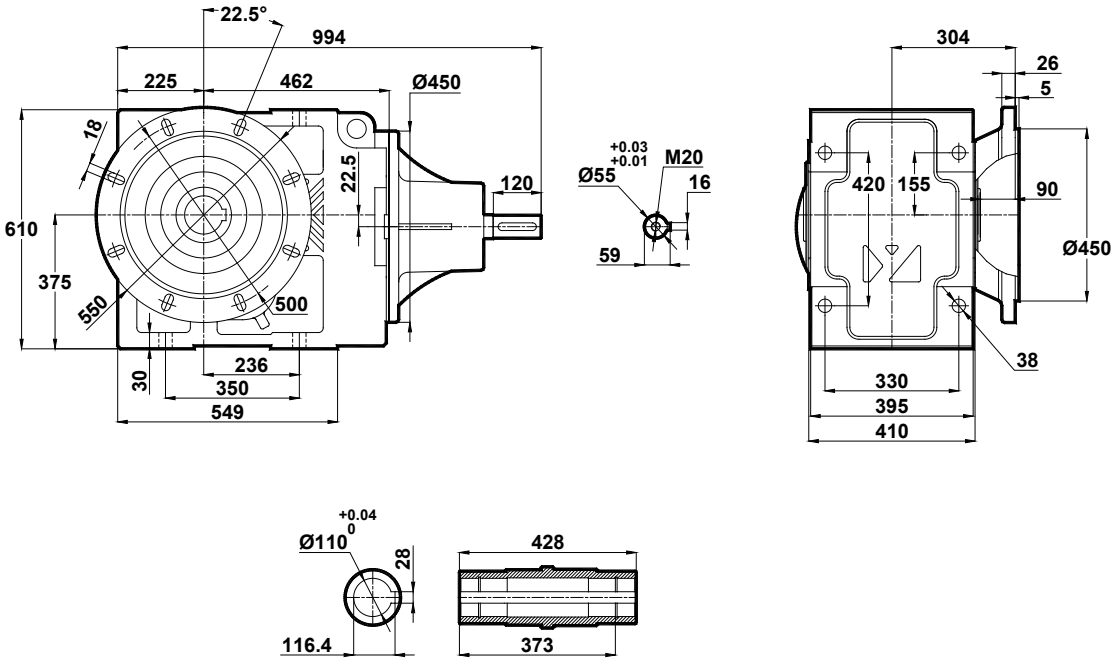


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KT873.02

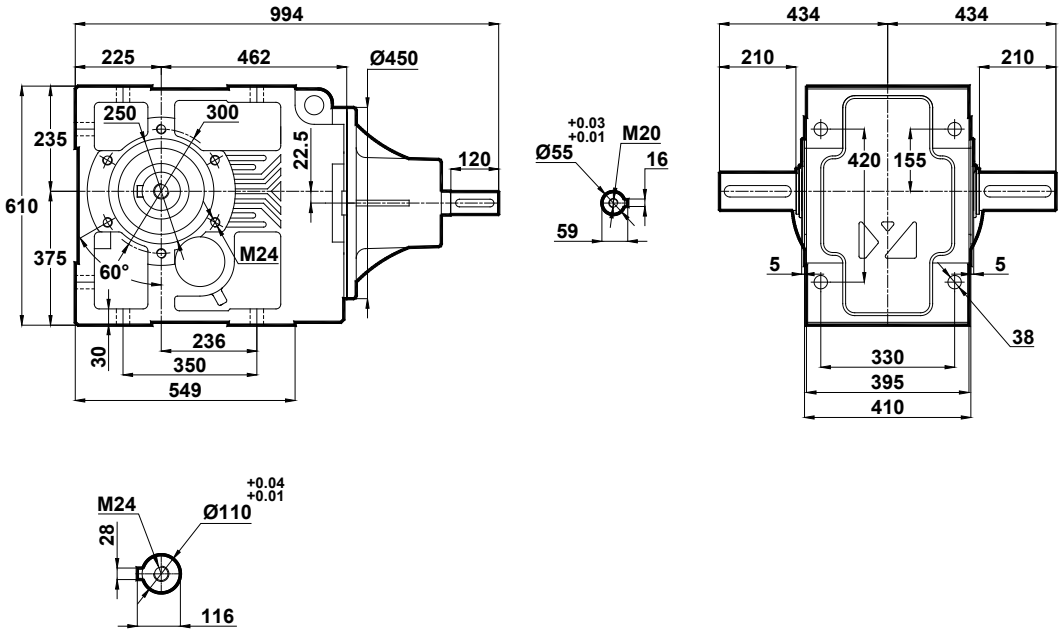


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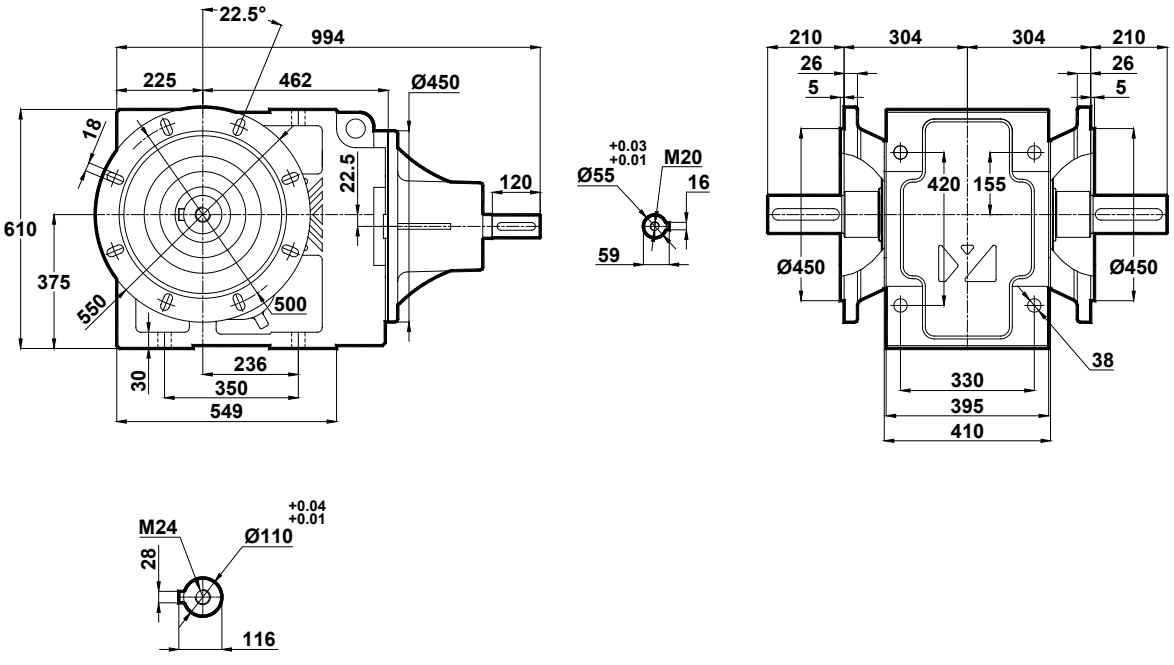


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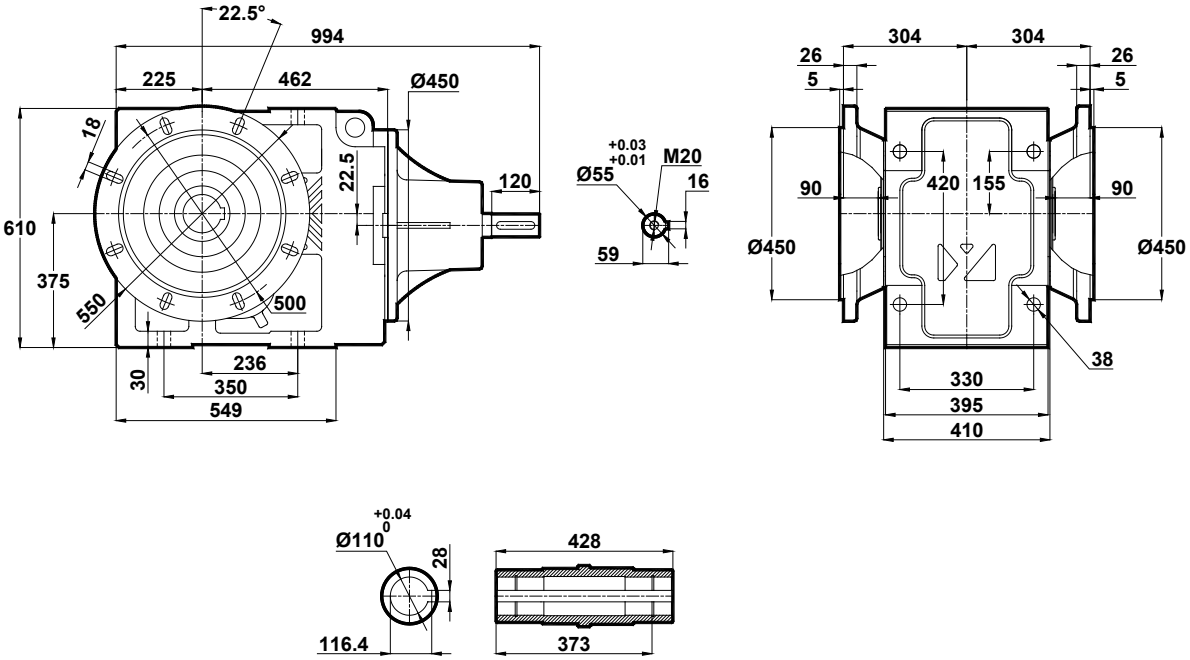


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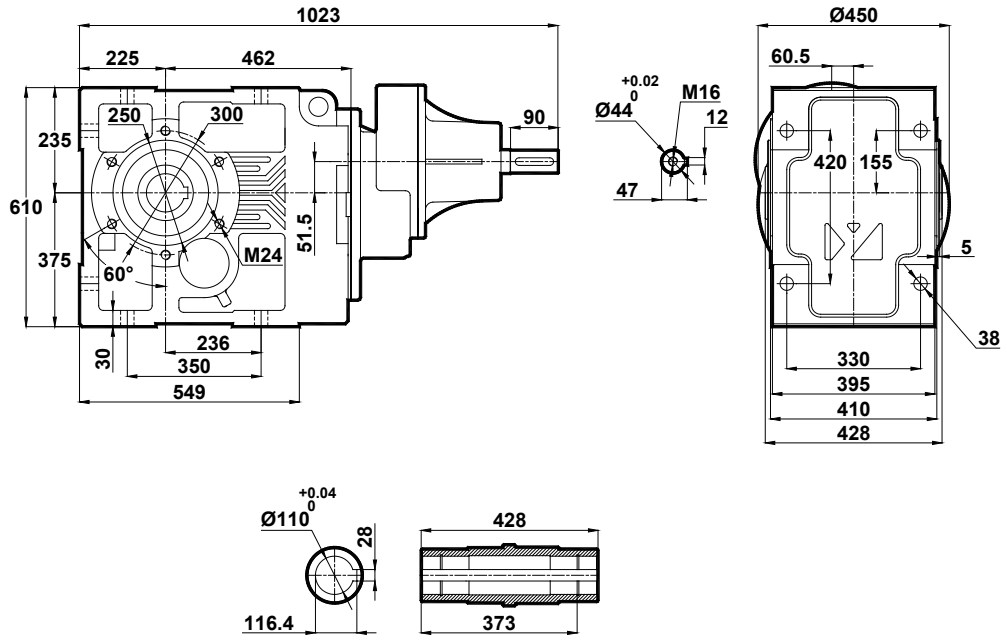
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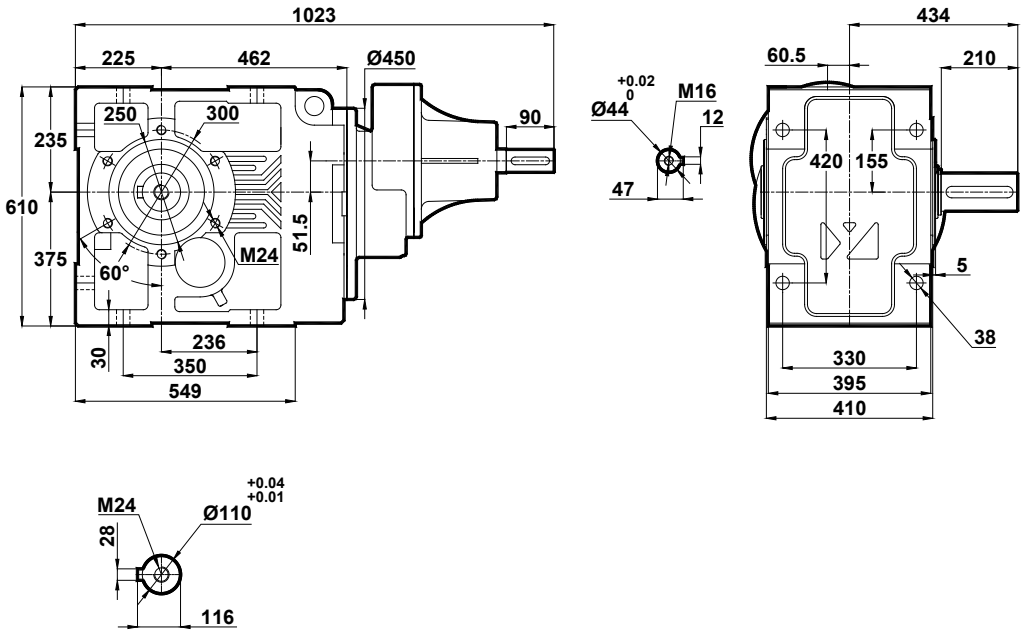


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KT874.00

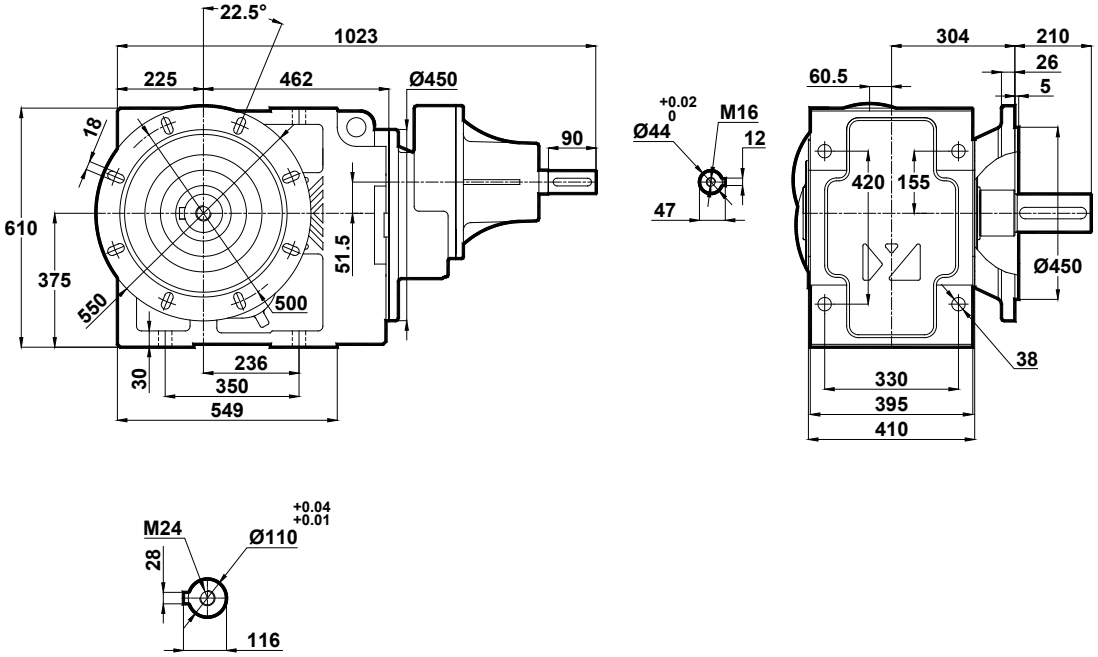


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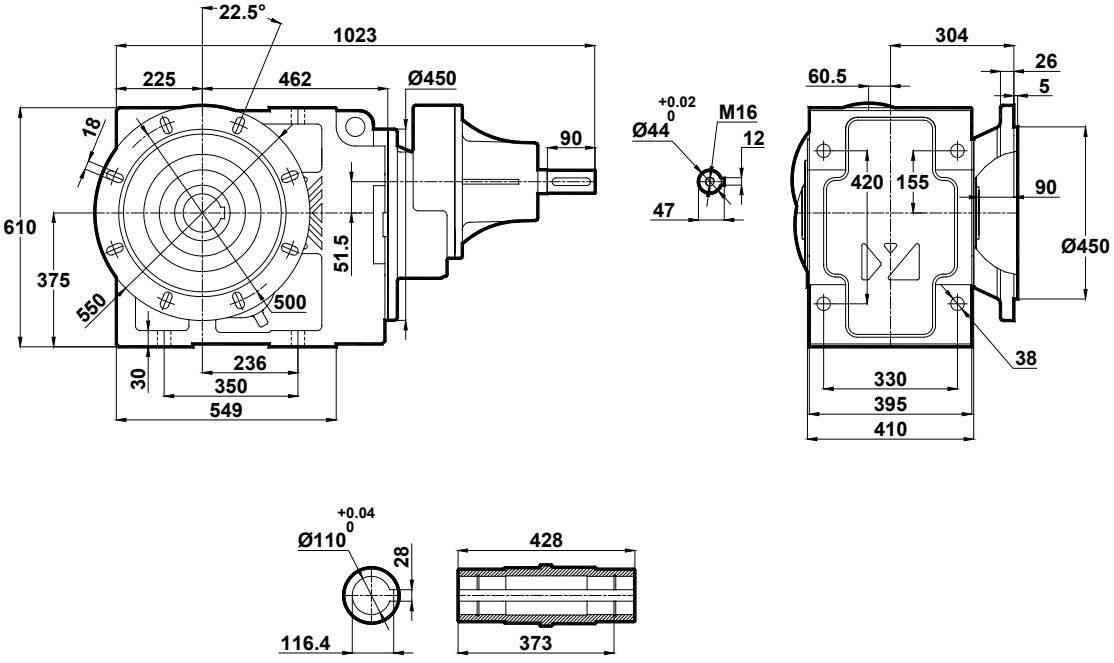


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KT874.02

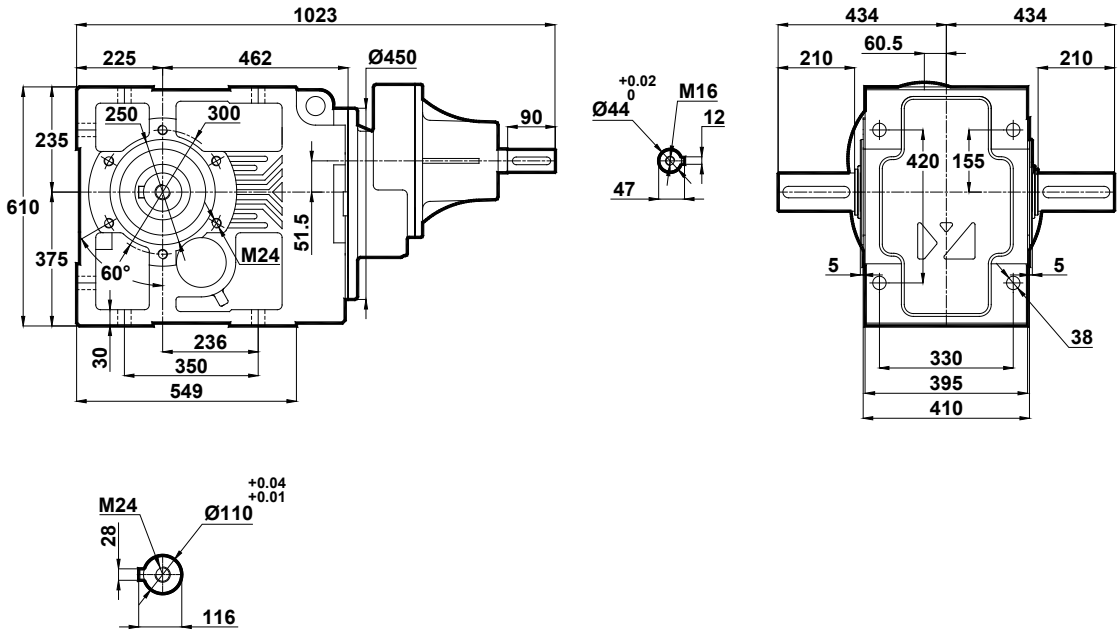


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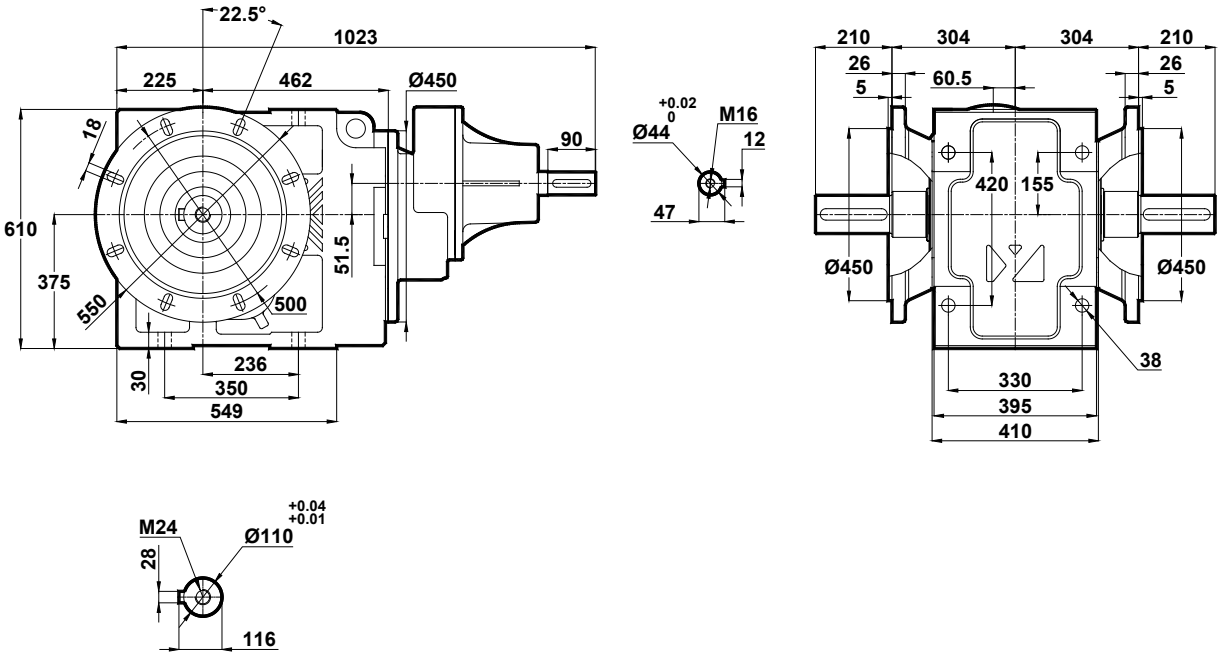


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KT874.04

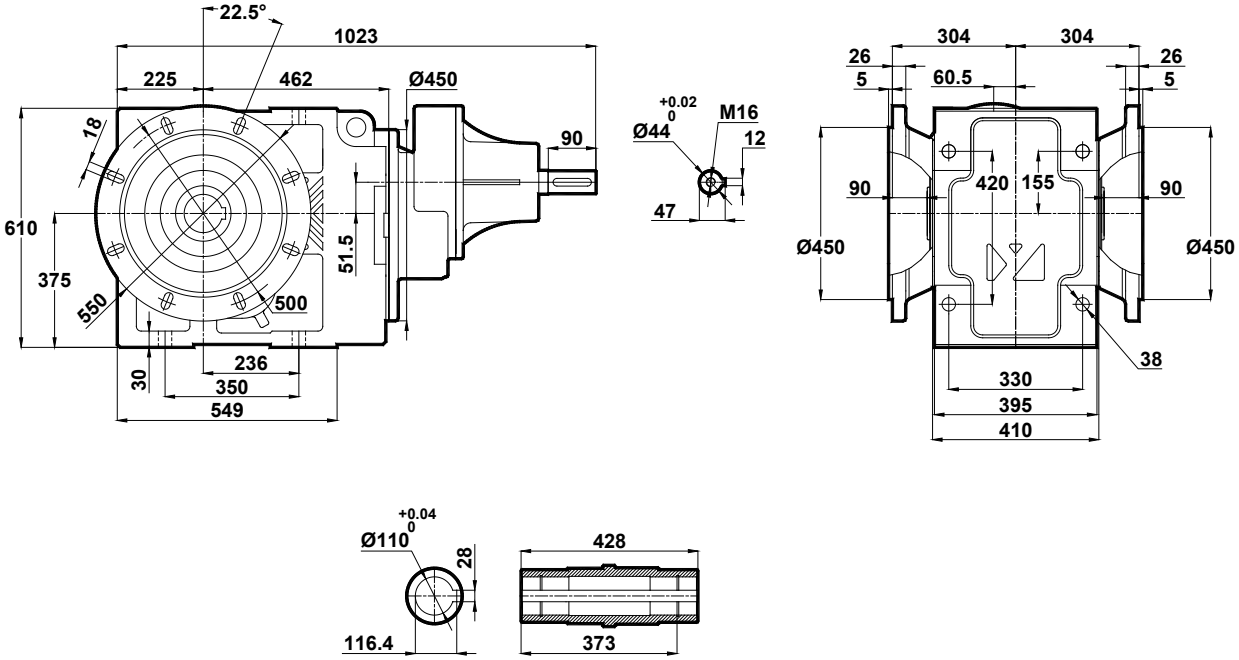


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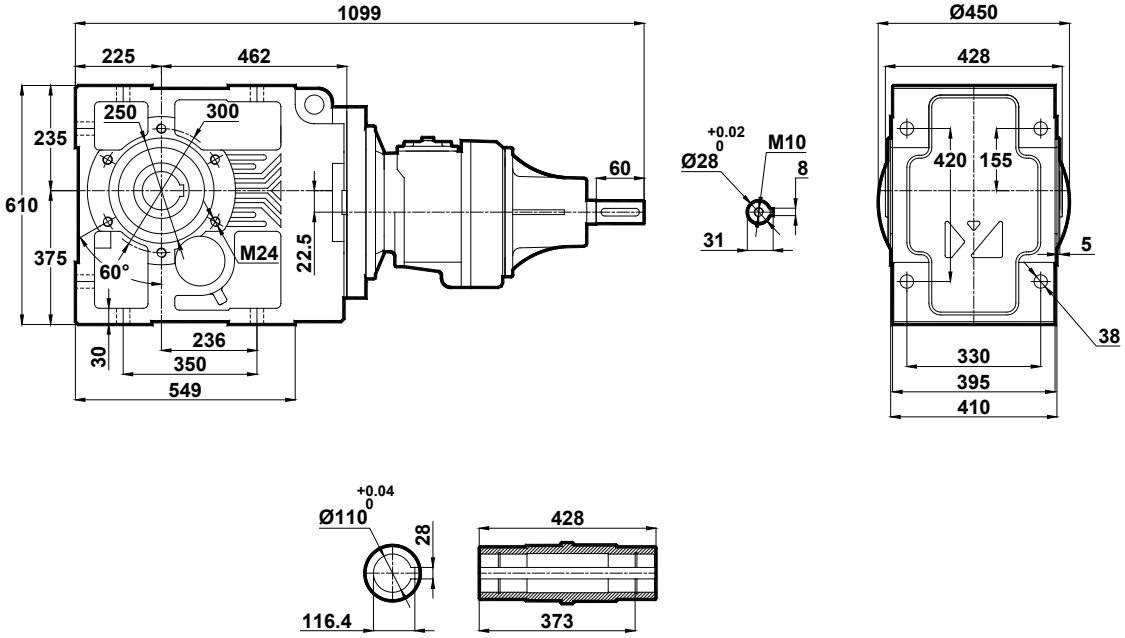
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KT874.08

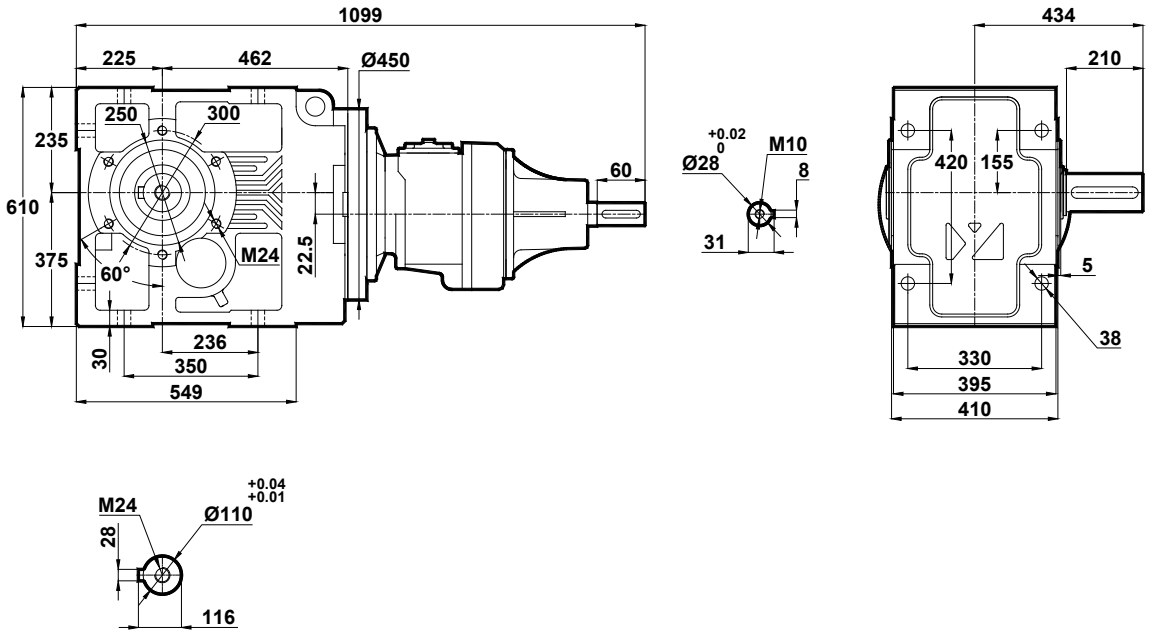


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KT875.00
KT876.00

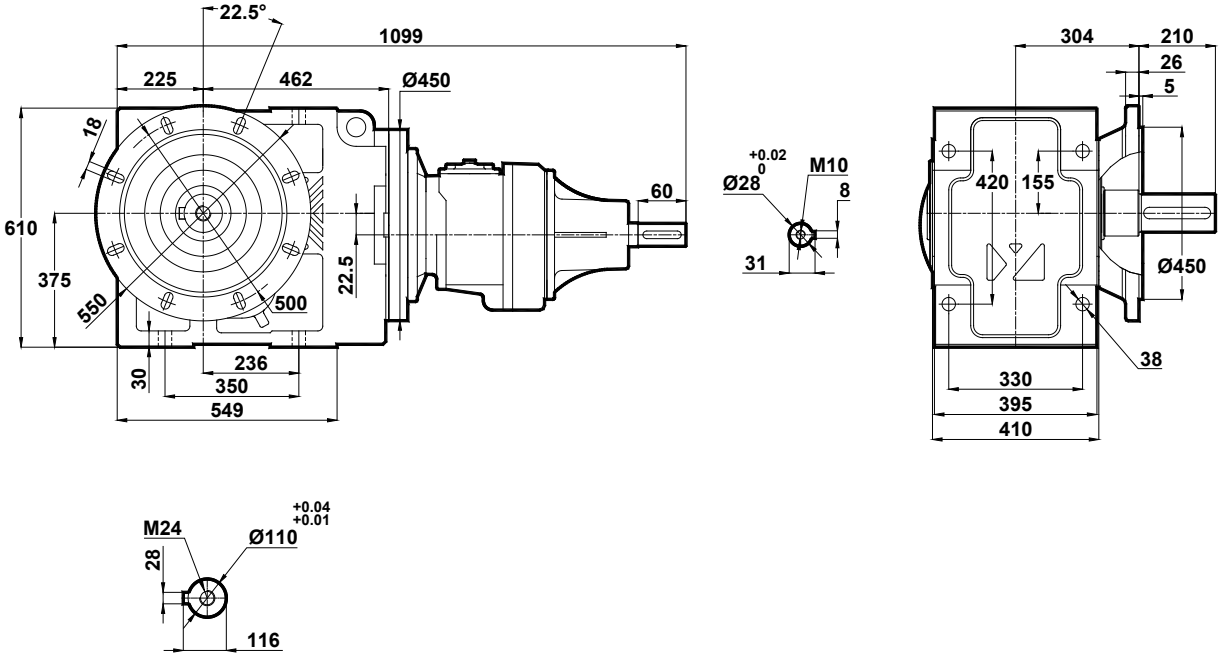


KT875.01
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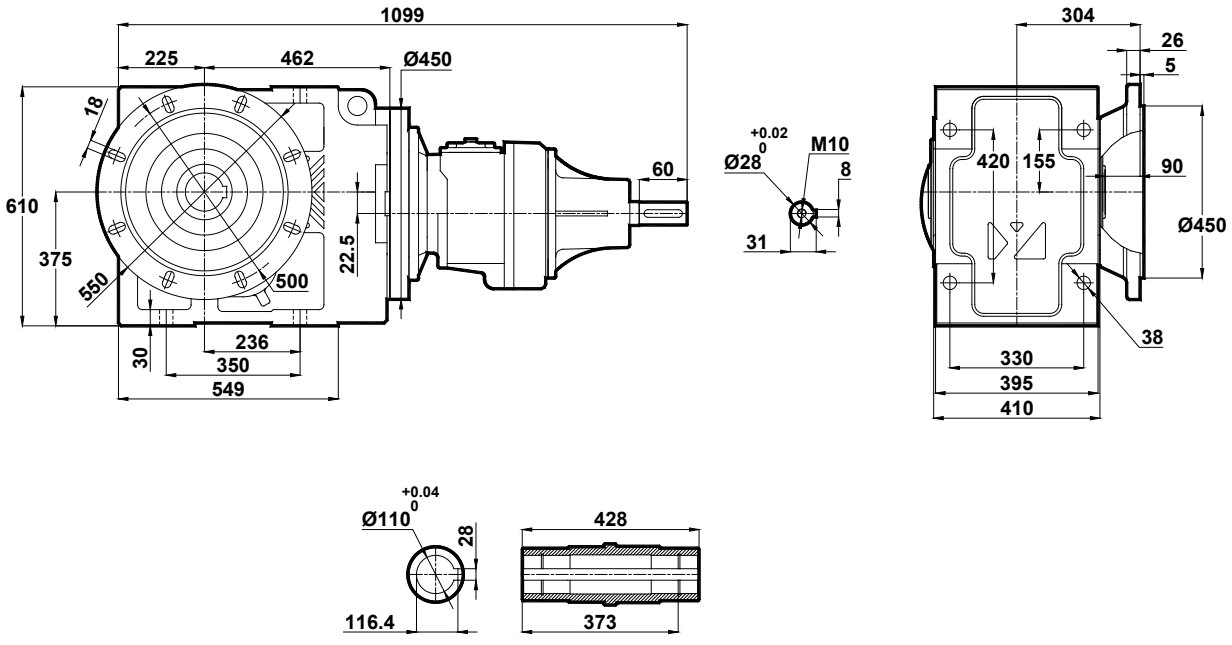


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KT875.02
KT876.02

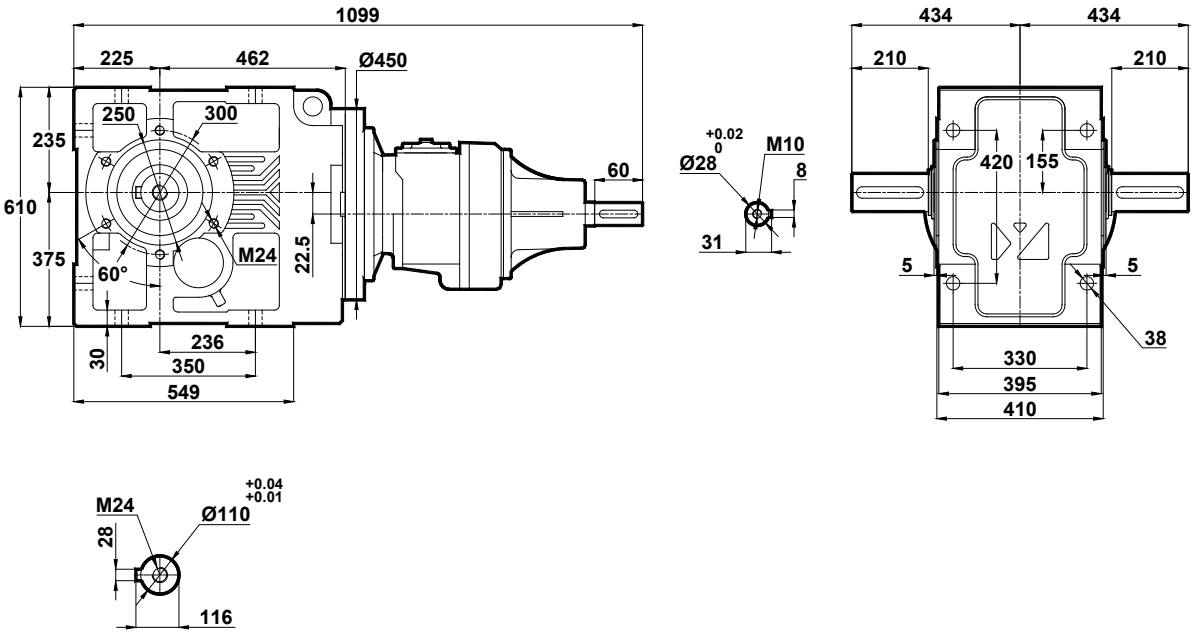


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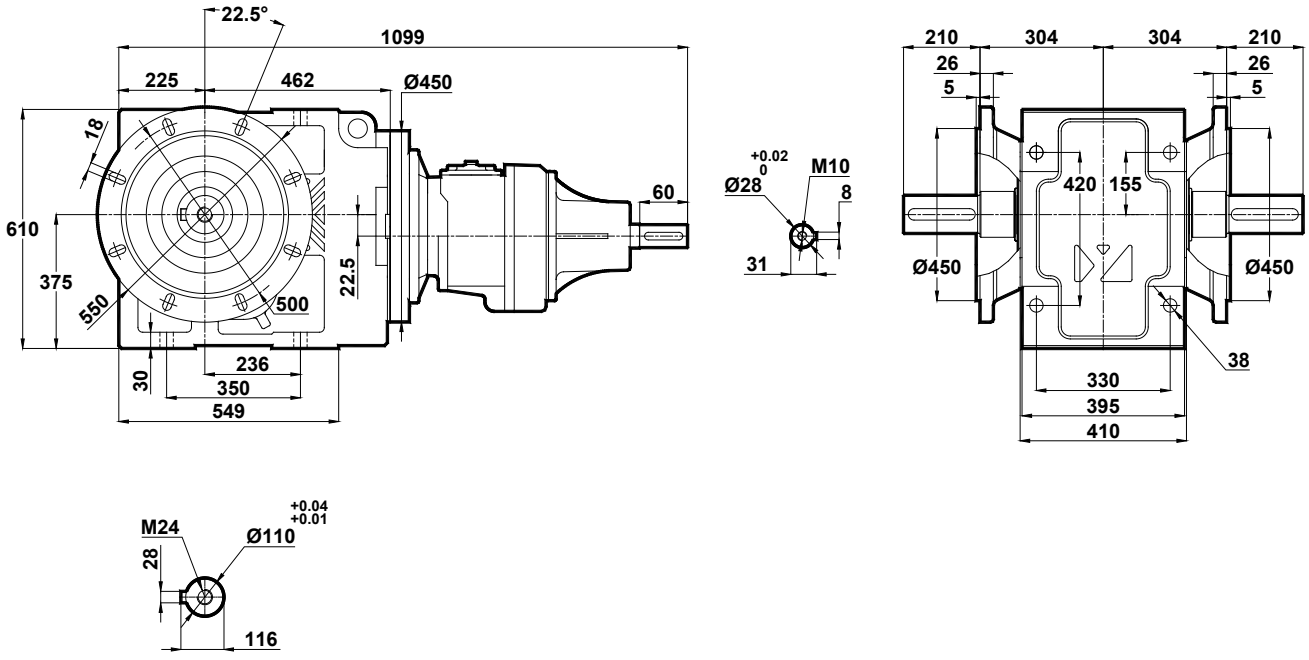


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KT875.04
KT876.04

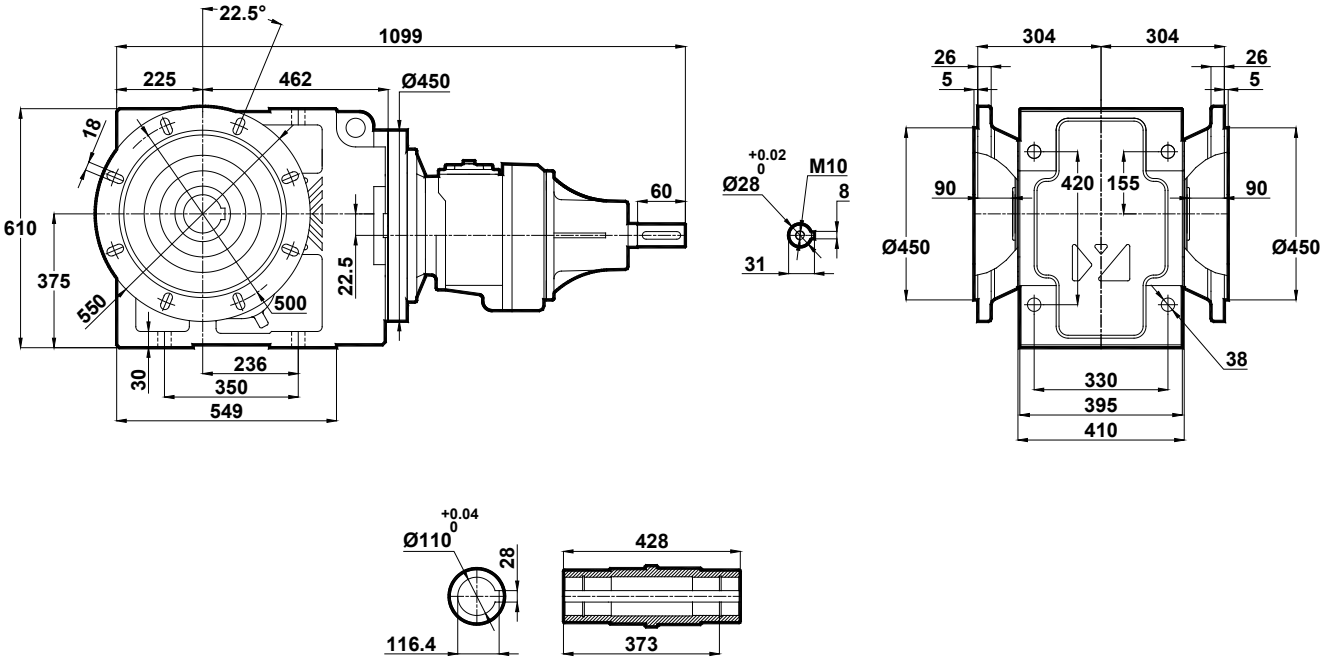


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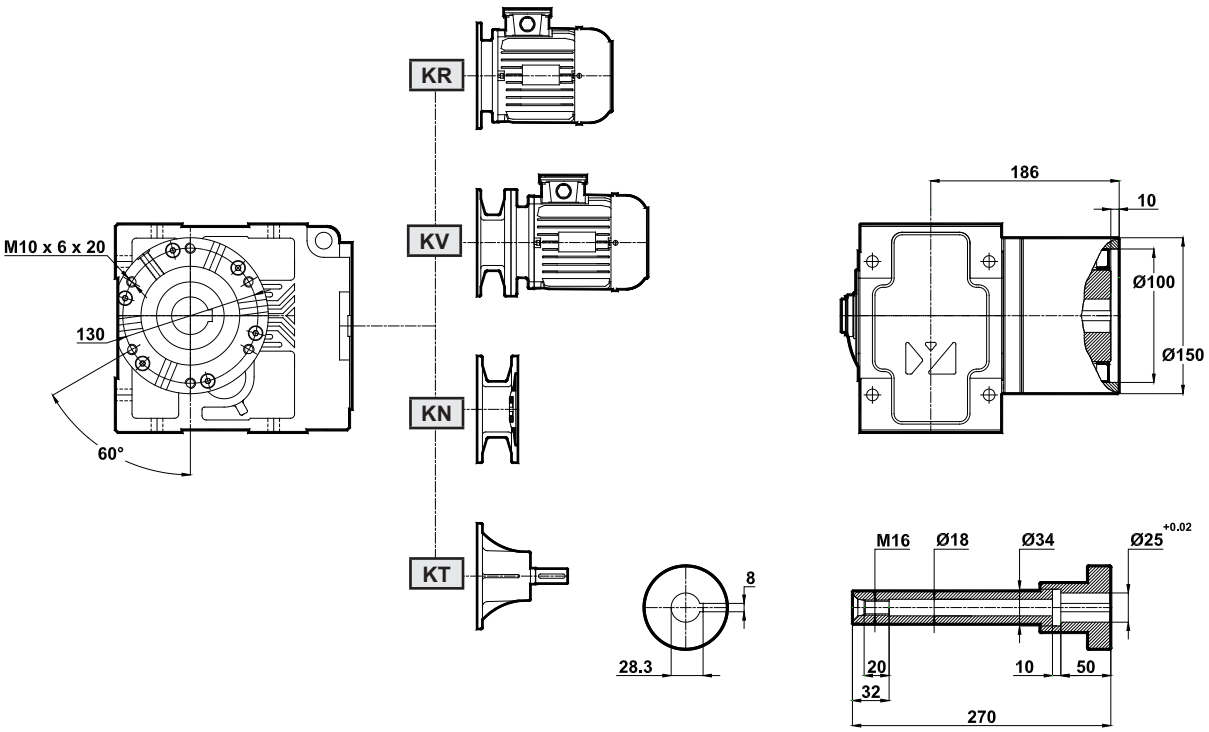
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KT875.08
KT876.08

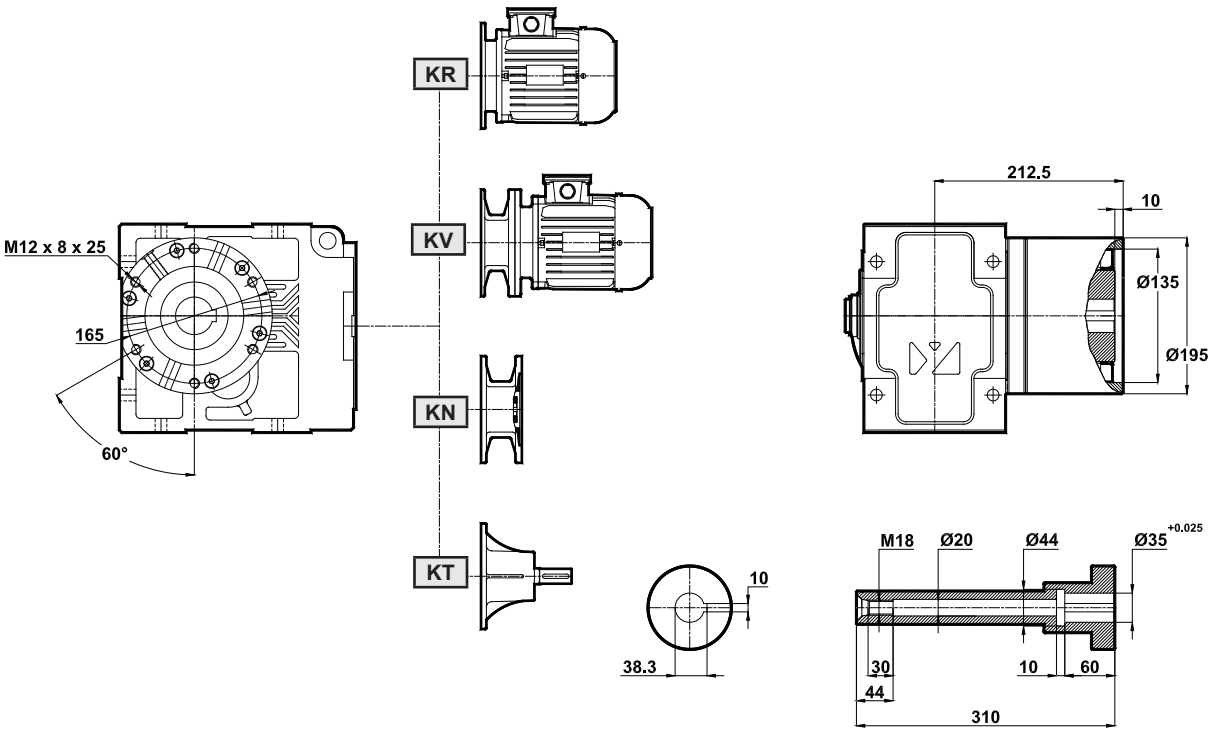


K SERİSİ EKSTRUDER TİP REDÜKTÖRLER
K SERIES EXTRUDER TYPE GEARBOXES
EXTRUDER GETRIEBEN VON K SERIE GETRIEBEN

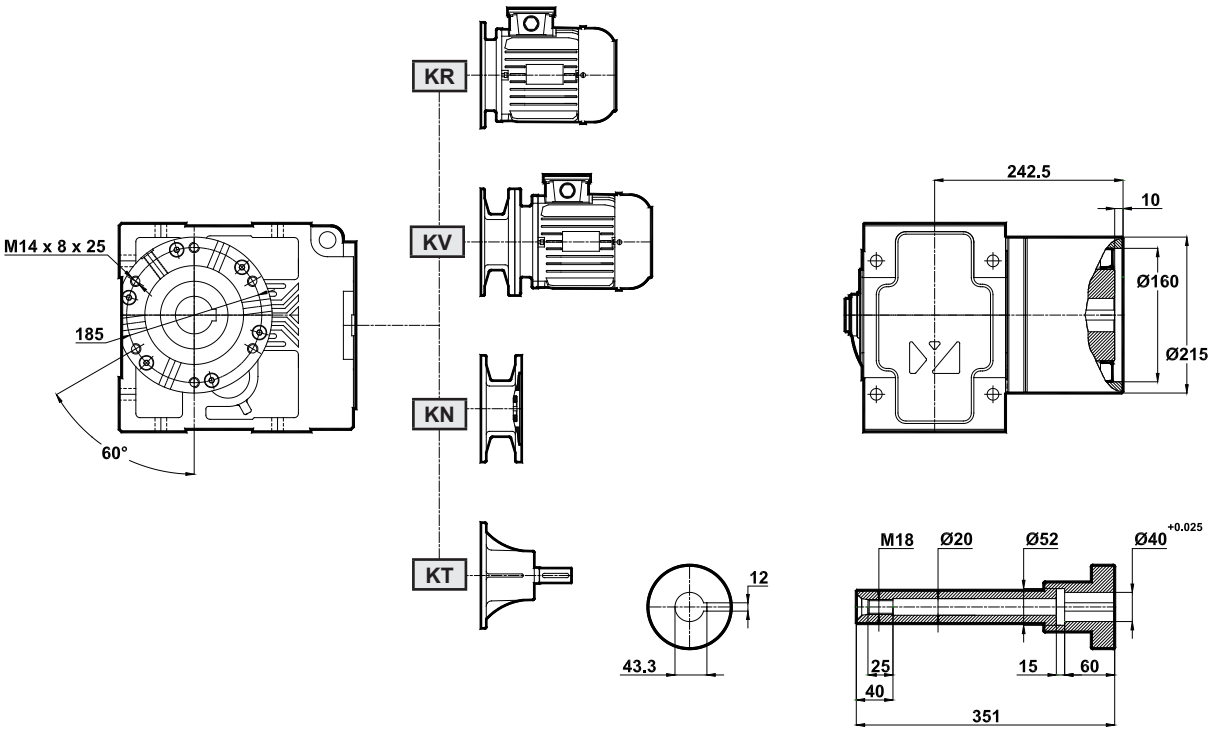
K.27.E



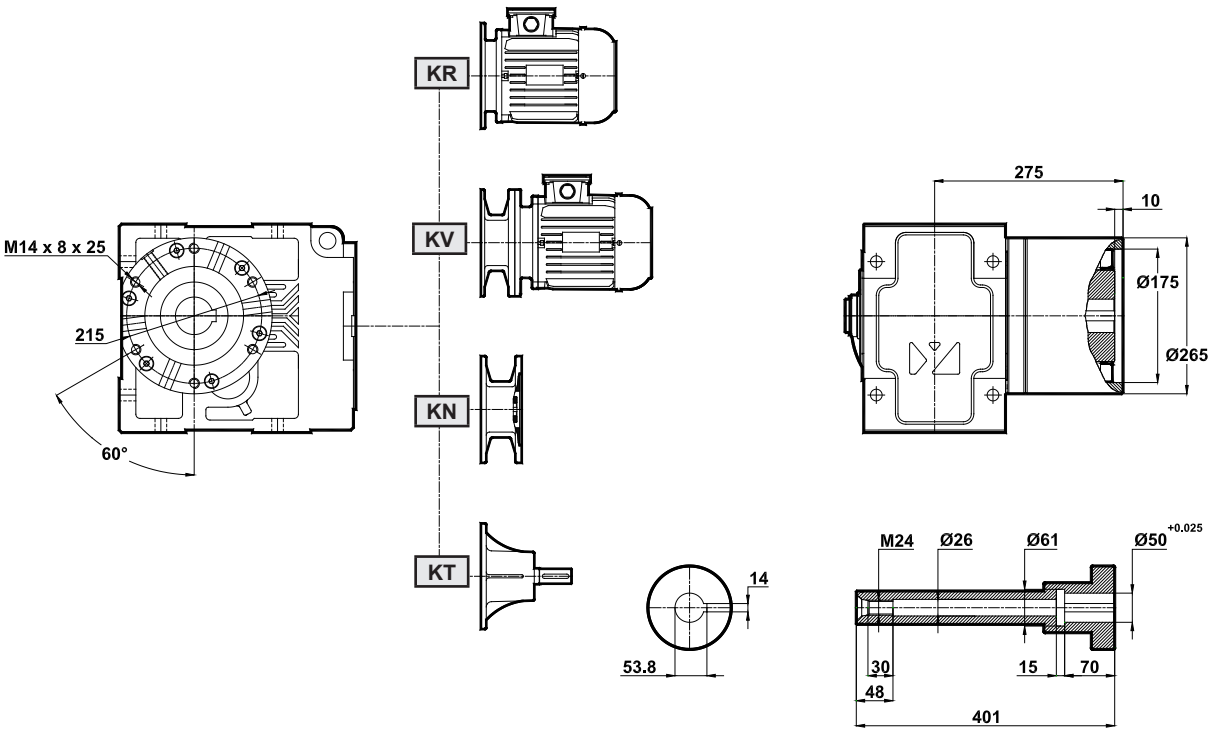
K.37.E



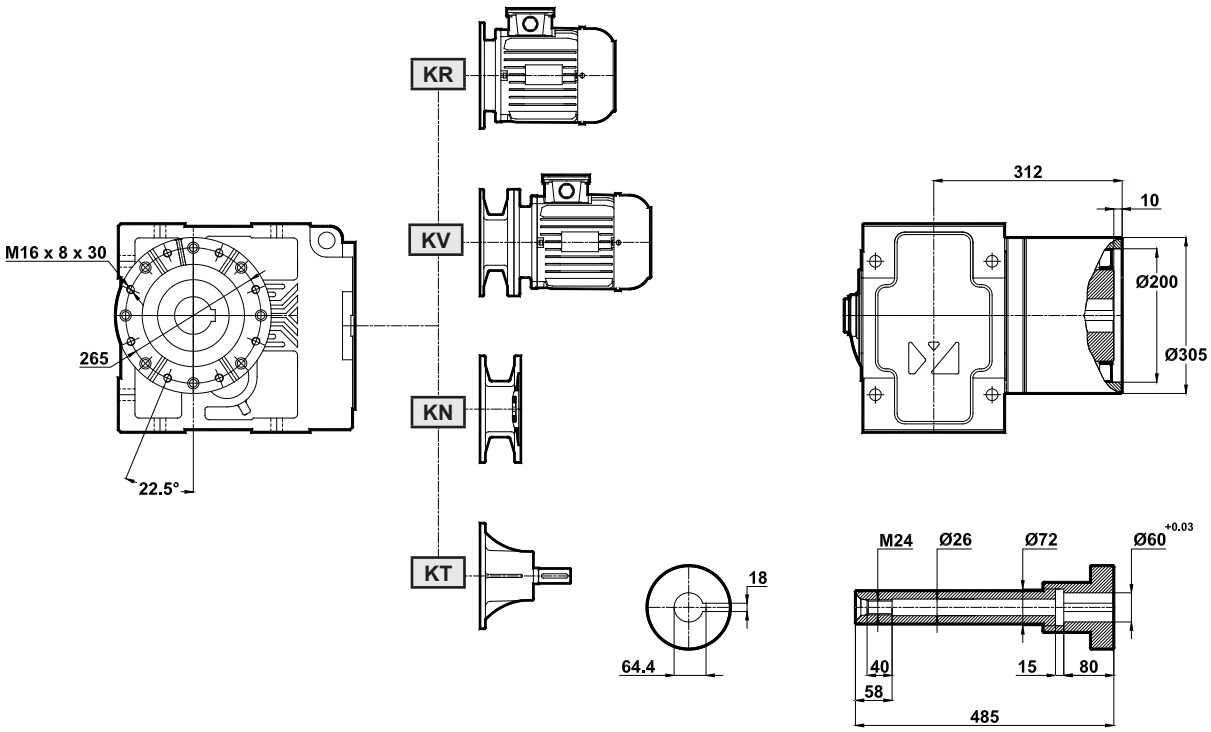
K.47.E


KR
KV
KN
KT
M14 x 8 x 25
185
60°
242.5
10
Ø160
Ø215
12
43.3
M18
Ø20
Ø52
Ø40 +0.025
25
15
60
40
351

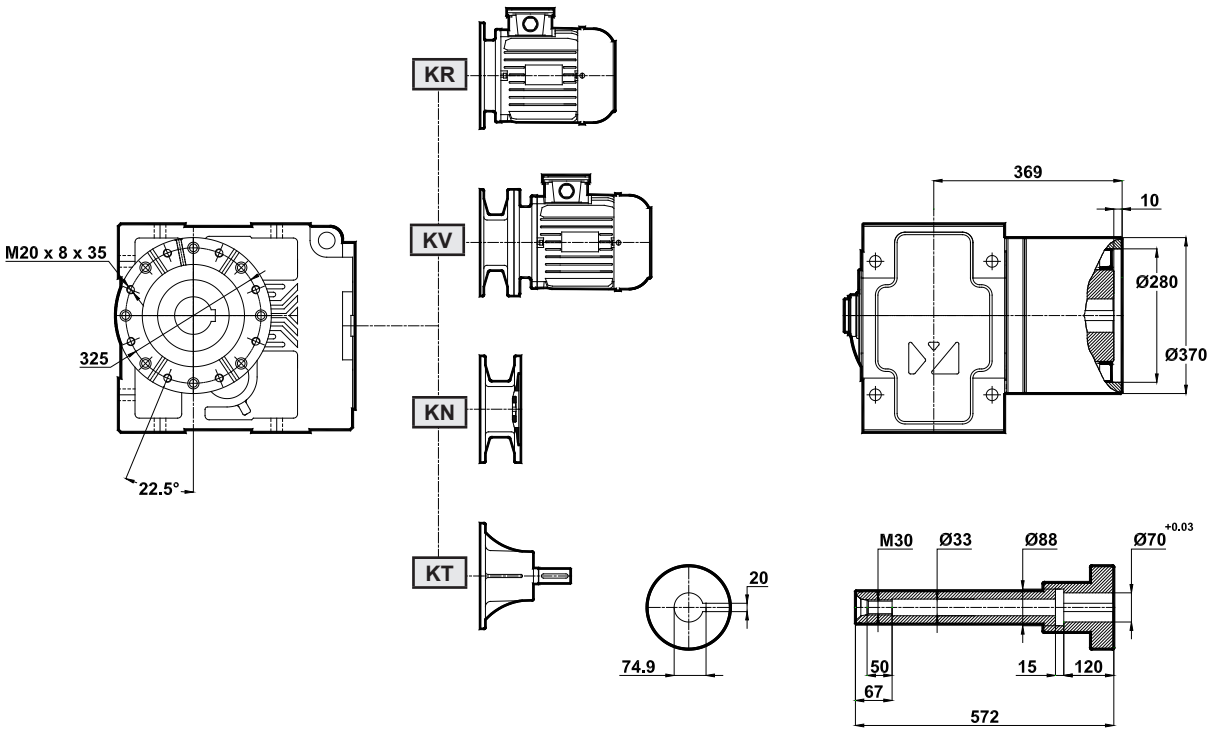
K.57.E


KR
KV
KN
KT
M14 x 8 x 25
215
60°
275
10
Ø175
Ø265
14
53.8
M24
Ø26
Ø61
Ø50 +0.025
30
15
70
48
401

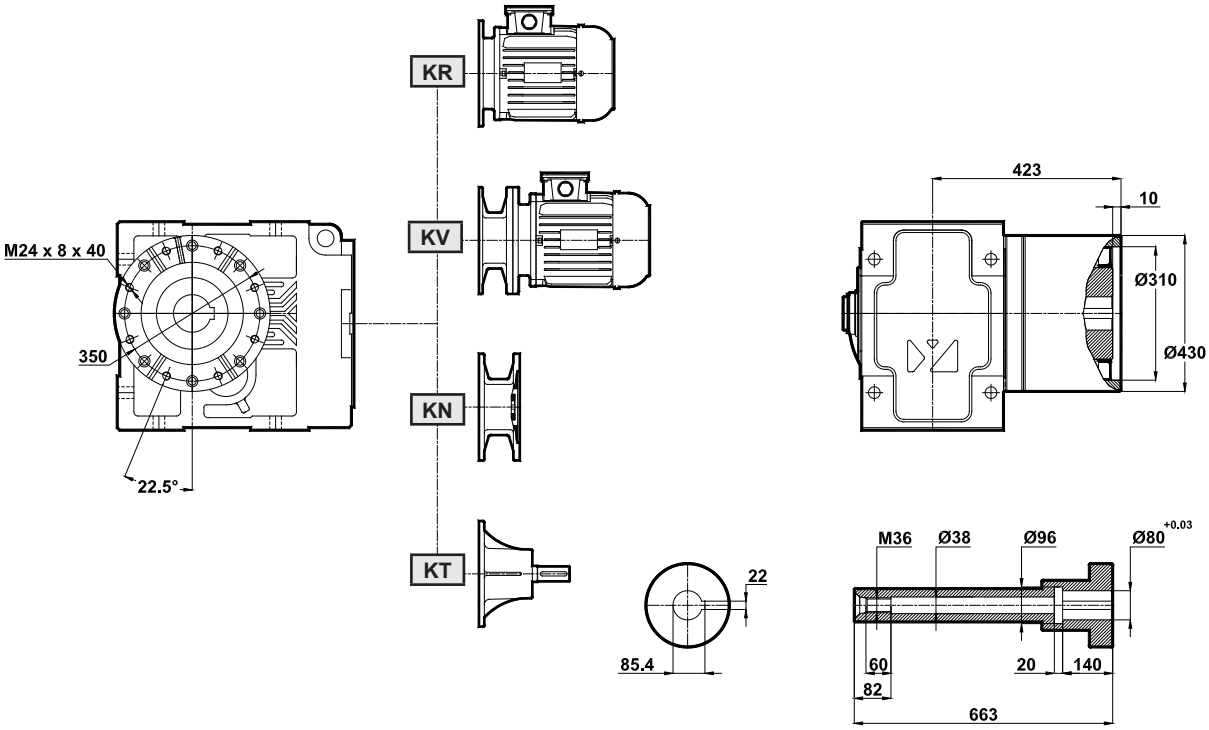
K.67.E


KR
KV
KN
KT
M16 x 8 x 30
265
22.5°
18
64.4
312
10
Ø200
Ø305
M24
Ø26
Ø72
Ø60 +0.03
40
58
15
80
485

K.77.E

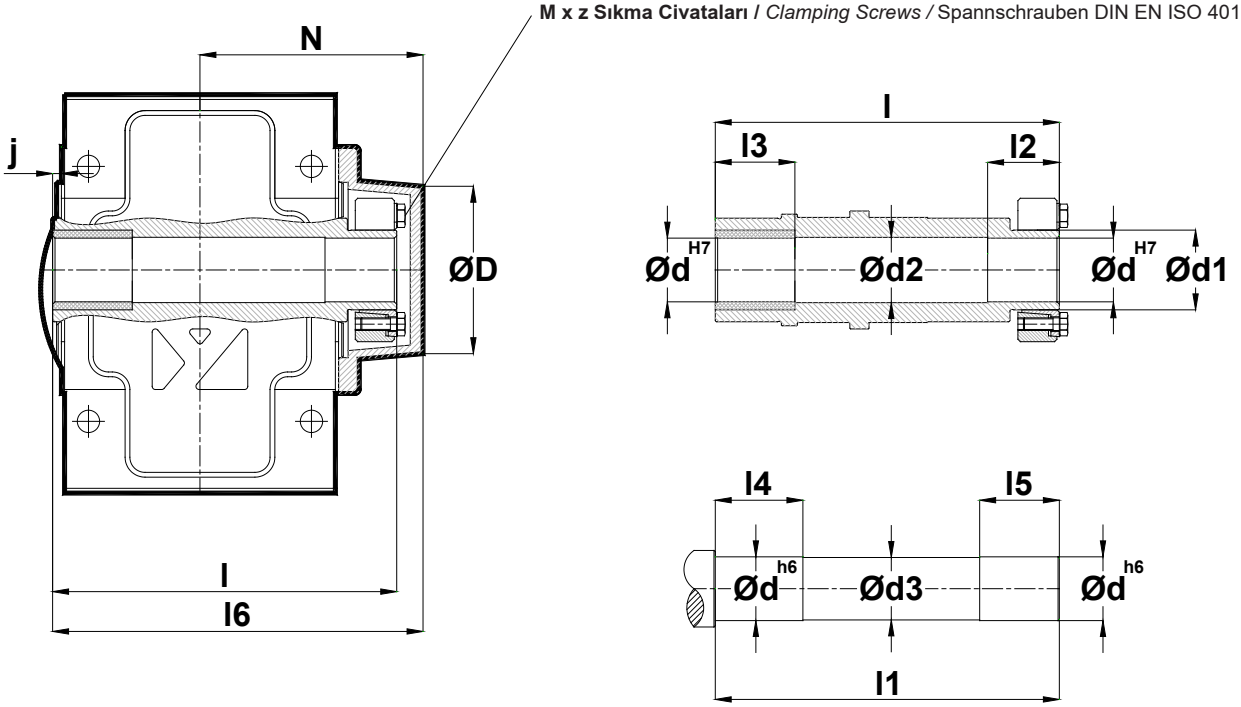

KR
KV
KN
KT
M20 x 8 x 35
325
22.5°
20
74.9
369
10
Ø280
Ø370
M30
Ø33
Ø88
Ø70 +0.03
50
67
15
120
572

K.87.E


KR
KV
KN
KT
M24 x 8 x 40
350
22.5°
423
10
Ø310
Ø430
22
85.4
M36
Ø38
Ø96
Ø80 +0.03
60
82
20
140
663

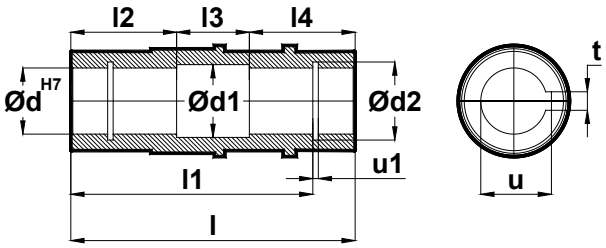
K SERİSİ DELİK MİLLİ SIKMA BİLEZİKLİ REDÜKTÖRLER
K SERIES HOLLOW SHAFT WITH SHRINK DISC CONNECTOR
K SERIE HOHLWELLE MIT SCHRUMPFSCHEIBE

M x z Sıkma Civataları / *Clamping Screws* / Spannschrauben DIN EN ISO 4017 - 10.9



	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	M6 x 5	12
K..10..0S	88	30	38	31	29	147	150	32	22	27	40	161	101	4	M8 x 5	30
K..20..0S	94	35	44	36	34	170	173	35	25	30	43	183	113	5	M8 x 6	30
K..27..0S	98	35	44	36	34	186	189	35	25	30	43	201	122.5	4.5	M8 x 6	30
K..37..0S	106	40	50	41	39	216	219	40	35	40	48	233	140.5	5.5	M8 x 8	30
K..47..0S	129	50	62	51	49	249	252	45	40	45	53	236.5	156	5.5	M8 x 9	30
K..57..0S	164	60	75	61	59	282	285	50	45	50	58	302.5	179.5	5.5	M10 x 10	59
K..67..0S	164	70	80	71	69	345	348	55	50	55	63	364	210	6	M10 x 10	59
K..77..0S	219	90	110	91	79	418	421	70	60	70	83	438.5	257	7.5	M12 x 12	100
K..87..0S	260	110	130	111	109	492	495	80	70	80	93	517	303	9	M14 x 9	160

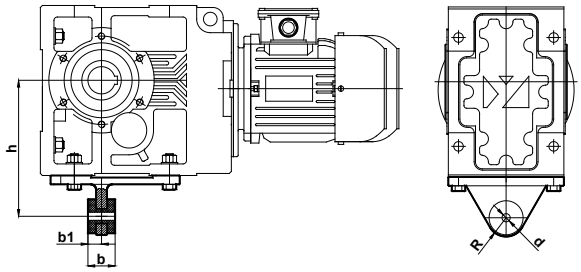
K SERİSİ REDÜKTÖR KOVAN ÖLÇÜLERİ
HOLLOW SHAFT DIMENSIONS FOR K SERIES GEARBOXES
HOHLWELLEABMESSUNGEN VON K SERIE GETRIEBEN



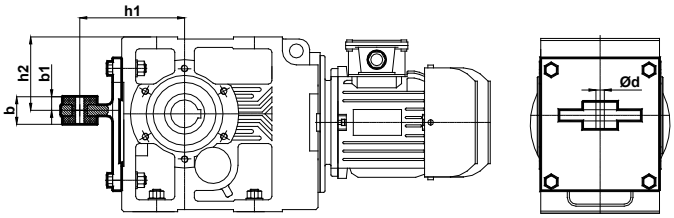
Tip *Type* Typ	d	d1	d2	l	l1	l2	l3	l4	u1	t	u
K.00..	20	21	21	115	100	40	35	40	1.1	6	22.8
K.10..	30	31	31.4	120	105	45	30	45	1.3	8	33.3
K.20..	35	36	36.4	140	120	55	30	55	1.6	8	38.3
K.27..	35	36	37	157	132	60	37	60	1.6	10	38.3
K.37..	40	41	42.5	185	156	70	45	70	1.85	12	43.3
K.47..	50	51	53	215	183	82	51	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.27.. - K.87.. MOMENT KOLU BAĞLANTI DETAYI
K.27.. - K.87.. TORGUE ARM ASSEMBLY DETAILS
K.27.. - K.87.. DREHMOMENTSTÜTZE MONTAGE ZEİCHNUNGEN

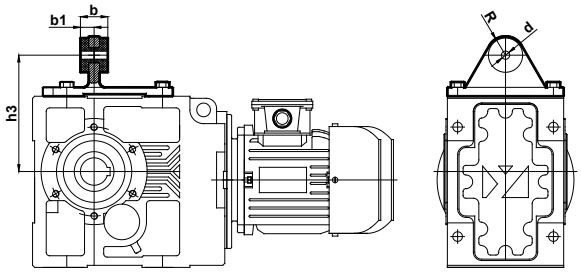
Std



T1

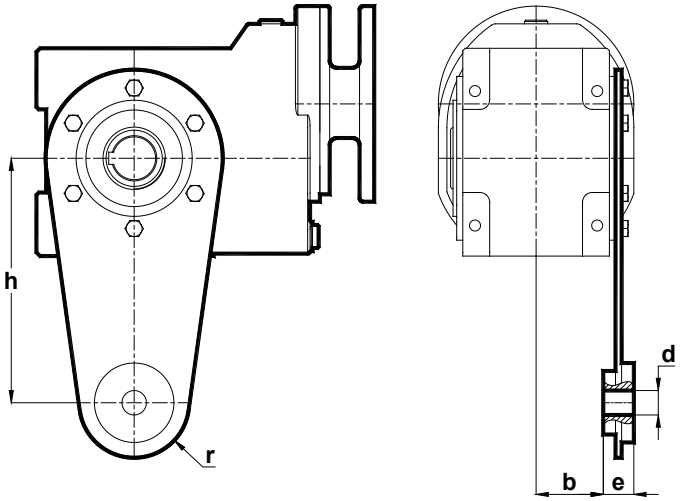


T2

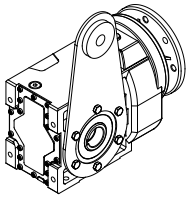


	Std / T1 / T2				Std.	T1	T2
Tip / *Type* / Typ	**b**	**b1**	**d**	**R**	**h**	**h1**	**h2**
K.273	40	20	9	22,5	160	119	141
K.373	40	20	12	27,5	200	150	170
K.473	50	25	14	27,5	250	182	210
K.573	55	27,5	14	27,5	300	220	251
K.673	60	30	16	27,5	350	245	260
K.773	95	47,5	26	50	450	335	360
K.873	100	50	26	55	550	400	410

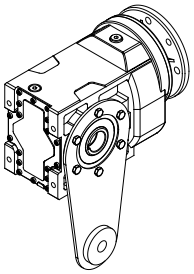
K.00.. - K.20.. MOMENT KOLU BAĞLANTI DETAYI
K.00.. - K.20.. TORGUE ARM ASSEMBLY DETAILS
K.00.. - K.20.. DREHMOMENTSTÜTZE MONTAGE ZEİCHNUNGEN



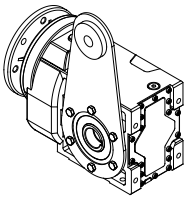
Tip / *Type* / Typ	b	e	d	r	h
K.00..	47	16	10	32	100
K.10..	49.5	16	10	36	150
K.20..	54.5	25	20	45	200



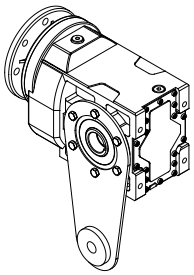
L1



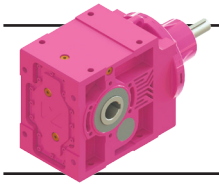
L2



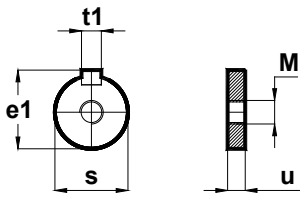
R1

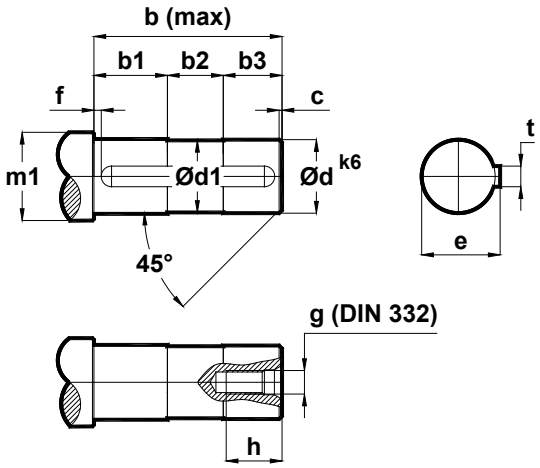


R2



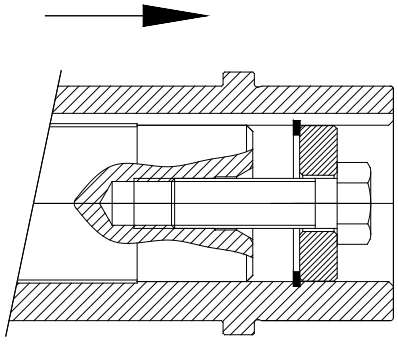
K SERİSİ REDÜKTÖRLERDE TAVSİYE EDİLEN MİL BOYU MONTAJ-DEMONTAJ ŞEKLİ VE AKSESUARLARI
ADVISED SHAFT DIMENSIONS AND ACCESORIES USED BY ASSEMBLING FOR K SERIES GEARBOXES
EMPFOHLENE WELLEN MASSEN UND VERBINDUNGSELEMENTE BEI MONTAGE FÜR K SERIE GETRIEBE



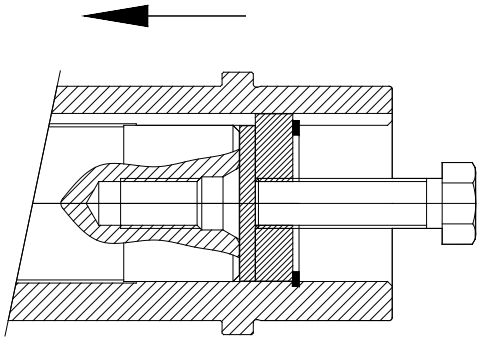


Tipi *Type* Typ	s	u	e1	t1	M	d	d1	m1	f	b	b1	b2	b3	c	g	h	e	t
K.00..	19.7	10	22	5.5	M10	20	19	24	5	86	45	25	16	0.5	M6	18	22.5	6
K.10..	29.7	10	33	7.5	M12	30	29	36		90	50	20	20	1	M10	24	33	8
K.20..	34.7	12	38	9.5	M16	35	34	43		102	60	20	22	1	M12	30	38	10
K.27..	34.7	12	38	9.5	M16	35	34	43		114	65	27	22	1	M12	30	38	10
K.37..	39.7	12	43	11.5	M20	40	39	50		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

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)

Notlar / *Notes* / Note

Notlar / *Notes* / Note

Notlar / *Notes* / Note

Notlar / *Notes* / Note

Notlar / *Notes* / Note