brevini power transmission

k SERIES

BREVINI GEARMOTORS

BREVINI GEARMOTORS

Bevel Helical Gearboxes



k SERIES

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Indice
Index
Inhaltsverzeichnis

Info generali *General Info.* Einführung	**Significato dei simboli**	*Key of Symbols*	Erklärung der Bezeichnungen	03
	Gamma di produzione	*Production Range*	Produktpalette	04
	Caratteristiche generali dei riduttori serie K	*General Specifications of K Series Gearboxes*	Allgemeine Eigenschaften Von K Serie Getrieben	06
	Spiegazioni tecniche	*Technical Explanations*	Technische Erläuterungen	07
	Caratteristiche tecniche	*Technical Specifications*	Technische Informationen	07
	Accessori	*Accessories*	Zubehör	08
	Designazione unità	*Unit Designation*	Typenbezeichnungen	10
	Esempi di designazione	*Sample Designations*	Typenbezeichnungsbeispiele	13
	Combinazioni di rapporti geometricamente possibili, in funzione della grandezza del motore	*Geomet. Possible Combinations of Ratios According to Motor Size*	Geomet. Mögliche Kombi. von Übersetz. nach Motorbaugröße	14
	Fattore di servizio	*Service Factor*	Betriebsfaktor	16
	Classificazione dei carichi	*Load Classification*	Belastungsart	17
	Senso di rotazione	*Direction of Rotation*	Getriebedrehrichtungen	19
	Carichi radiali	*Radial Loads*	Querkräfte	20
	Calcolo dei carichi radiali	*Calculation Of Radial Loads*	Berechnung der Querkräfte	21
	Carichi assiali ammessi per i tipi di riduttore con estrusore	*Permissible Axial Loads for Extruder Types*	Zulässige Axialkrüfte für Extruder Typ Getrieben	22
	Calcolo della potenza equivalente	*Equivalent Power Calculation*	Äquivalente Leistung	24
	Esempio di calcolo della potenza equivalente	*Equivalent Power Cal. Example*	Beispiel für Äquivalente Leistung	25
	Scelta del riduttore	*Gearbox Selection*	Getriebeauswahl	26
	Modulo di scelta del riduttore	*Gearbox Selection Form*	Formular für Getriebeauswahl	28
	Lubrificazione	*Lubrication*	Schmierung	32
	Tipi di olio	*Oil Types*	Schmierstoffe	33
	Posizioni di montaggio	*Mounting Positions*	Bauformen	34
	Tappi dell'olio	*Oil plugs*	Ölverschlussschrauben	35
	Quantità di olio	*Oil Quantities*	Ölmengen Tabellen	35
Motori *Motors* Motor	**Motori CA**	*AC Motors*	Drehstrommotoren	39
	a- Caratteristiche generali dei motori CA	*a- General Spec. of AC Motors*	a-Eigensc. des Drehstrommotors	39
	b- Modalità di funzionamento	*b-Modes of Operation*	b-Betriebsarten	40
	c- Classe di protezione	*c- Protection Class*	c- Schutzarten	41
	d- Classe di isolamento	*d- Insulation Class*	d- Isolationsklasse	41
	e- Classi di rendimento	*e- Efficiency Classes*	e- Energieeffizienzklassen	41



Indice
Index
Inhaltsverzeichnis

Motori *Motors* Motor	**f- Convertitori di frequenza in CA**	*f- AC Frequency Inverters*	f- AC Frequenz Umrichter	42
	Motori CC	*DC Motors*	DC Motoren	
	a- Caratteristiche generali dei motori CC	*a- DC Motors general specifications*	a- Eigenschaften von DC Motoren	43
	b- Principi di funzionamento dei motori CC	*b- DC Motors operating principles*	b- Funktionsprinzip der DC Motoren	43
	c- Tipi di motori CC	*c- Types of DC Motors*	c- Arten von DC Motoren	43
	d- Controllo della velocità di rotazione dei motori CC	*d- DC motors Speed Control*	d- Drehzahl Kontrolle DC Motoren	43
Freni *Brakes* Bremsen	**Freni elettromagnetici**	*Electromagnetic Brakes*	Elektromagnetische Bremsen	44
	Tipi di freni	*Brake Types*	Bremsenarten	45
	Tipi di connessione	*Connection Types*	Schaltungsarten	46
	Scelta dei freni	*Brake Selection*	Bremswahl	46
	Capacità termica dei freni	*Brake Thermal Capacity*	Therm. Kapazität der Bremsen	47
Tabelle prestazionali *Perform. Tables* Leistung-Drehahl Tabellen.	**Tabelle prestazionali dei motoriduttori**	*Geared Motors Performance Tables*	Getriebenmotoren Leistung und drehzahl Übersicht	49
	Tabelle prestazionali dei riduttori	*Gear Units Performance Tables*	Getriebe Leistung und Drehzahl-übersicht	363
Tabelle dimensionali *Dimension Pages* Abmesungs Tabellen	**Serie KR**	*KR series*	KR serie	85
	Serie KN	*KN series*	KN serie	178
	Serie KV	*KV series*	KV serie	270
	Serie KT	*KT series*	KT serie	373
Dimensioni corpi e alberi *Shaft and Parallel Shaft Dimensions* Wellen ung Gehäusemaße	**K....0E Riduttori con estrusore**	K....0E *Extruder Type Gearboxes*	K....0E Extruder Getrieben von K Serie	466
	K....0S Riduttori con connettore per giunto ad attrito	K....0S *Gearboxes with Shrink Disk Connector*	K....0S Serie Hohwelle mit Schrumpfscheibe	470
	Dimensioni albero cavo serie K	*K series Hollow Shaft Dimensions*	Gehäuseabmessungen von K Serie Getrieben	471
	Riduttori con braccio di torsione	*Gearboxes with Torque Arm*	Drehmomentstütze Montage-zeichnungen	471
	Consigli per il montaggio di riduttori ad assi paralleli	*Mounting Advices for Parallel Shaft Gearboxes*	Montagevorschläge Für D Serie Getrieben	473



Informazioni generali
General Information
Einführung

Significato dei simboli	*Key of Symbols*	Erklärung der Bezeichnungen
c_t ..... :Coefficiente tempo di attivazione.	*c_t ..... :Coefficient of switch on time.*	c_t ..... : Koeffizient der Betätigung von Schalter
f_s ..... : Fattore di servizio	*f_s ..... : Service factor*	f_s ..... : Betriebsfaktor
F_{ama} ..... : Carichi assiali ammessi sugli alberi in uscita [kN]	*F_{ama} ..... : Permissible axial loads which can be applied to output shafts [kN]*	F_{ama} ..... : Zulässige Axialkräfte auf Abtriebswelle [kN]
F_{ame} ..... : Carichi assiali ammessi sugli alberi in entrata [kN]	*F_{ame} ..... : Permissible axial loads which can be applied to input shafts [kN]*	F_{ame} ..... : Zulässige Axialkräfte auf Antriebswelle [kN]
F_{qam} ..... : Carichi radiali ammessi sugli alberi in uscita [N]	*F_{qam} ..... : Permissible radial loads which can be applied to output shafts [N]*	F_{qam} ..... : Zulässige Querkräfte auf Abtriebswelle [N]
F_{qem} ..... : Carichi radiali ammessi sugli alberi in entrata [N]	*F_{qem} ..... : Permissible radial loads which can be applied to input shafts [N]*	F_{qem} ..... : Zulässige Querkräfte auf Antriebswelle [N]
F_{qa} ..... : Carichi radiali applicati sull'albero in uscita [N]	*F_{qa} ..... : Radial loads applied to the output shaft [N]*	F_{qa} ..... : Querkräfte auf Abtriebswelle [N]
F_{qe} ..... : Carichi radiali applicati sugli alberi in entrata [N]	*F_{qe} ..... : Radial loads applied to the input shafts [N]*	F_{qe} ..... : Querkräfte auf Antriebswelle [N]
F_q ..... : Carichi radiali sull'albero in uscita [N]	*F_q ..... : Radial loads on output shaft [N]*	F_q ..... : Querkräfte auf Abtriebswelle [N]
F_a ..... : Carichi assiali sull'albero in uscita [N]	*F_a ..... : Axial loads on output shaft [N]*	F_a ..... : Axialkräfte auf Abtriebswelle [N]
i ..... : Rapporto di trasmissione	*i ..... : Transmission ratio*	i ..... : Übersetzungsverhältnis
J_{ext} ..... : Momento di inerzia totale sul lato di uscita, ridotto a livello dell'albero motore [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 ..... : Coppia trasmessa [N]	*M_2 ..... : Output torque [N]*	M_2 ..... : Ausgangsdrehmoment [N]
M_a ..... : Coppia nominale [Nm]	*M_a ..... : Nominal torque [Nm]*	M_a ..... : Nenndrehmoment [Nm]
n_1 ..... : Velocità di rotazione in entrata al riduttore [giri/min.]	*n_1 ..... : Input speed of gearbox [rpm]*	n_1 ..... : Antriebsdrehzahl [U/min]
n_2 ..... : Velocità di rotazione in uscita dal riduttore [giri/min.]	*n_2 ..... : Output speed of gearbox [rpm]*	n_2 ..... : Abtriebsdrehzahl [U/min]
P_e ..... : Potenza equivalente [kW]	*P_e ..... : Equivalent power [kW]*	P_e ..... : Äquivalente Leistung [kW]
P_N ..... : Potenza nominale (indicata nelle tabelle prestazionali) [kW]	*P_N ..... : Nominal power (given on per formance tables) [kW]*	P_N ..... : Getriebe Nennleistung (siehe Leistung- Drehzahltabellen) [kW]
P_M ..... : Consumo di potenza della macchina azionata dal riduttore (per potenze diverse fare riferimento alla potenza equivalente) [kW]	*P_M ..... : Power consumption of the driven machine (for alternating power, refer to equivalent power) [kW]*	P_M ..... : Benötigte Leistung an der Abtriebswelle (Zur Berechnung bei variabler Leistungen äquivalente Leistung benutzen) [kW]
t ..... : Tempo [s]	*t ..... : Time [s]*	t ..... : Zeit [s]
T_e ..... : Coppia equivalente [Nm]	*T_e ..... : Equivalent torque [Nm]*	T_e ..... : Minimales Drehmoment [Nm]



Informazioni generali
General Information
Einführung

Caratteristiche generali dei riduttori serie K

I riduttori della serie K sono riduttori ad assi ortogonali monoblocco. Sono progettati per applicazioni che richiedono un più alto rendimento e maggiore resistenza. L'albero in entrata e quello in uscita sono perpendicolari tra loro.

I riduttori della serie K hanno gli stessi vantaggi di quelli della serie E con le stesse opzioni di montaggio, hanno il corpo monoblocco e il vantaggio di un maggior rendimento come la serie M, con coppie superiori. Questi riduttori hanno possibilità di connessione flessibili: attacchi IEC B5 o B14, montaggio diretto o integrale con l'albero in entrata.

I riduttori serie K di piccole dimensioni possono essere bi- o tristadio. Quelli di dimensioni maggiori sono costruiti solo nella versione tristadio monoblocco. Utilizzando un doppio corpo, i riduttori serie K possono essere utilizzati per applicazioni che richiedono una forte riduzione fino a 6 stadi.

In sede di progettazione, in Brevini Power Transmission ci lasciamo guidare dai principi seguenti:
- Utilizzo di alta tecnologia
- Affidabilità
- Elevata densità di potenza
- Alto rendimento
- Compatibilità in sede di montaggio
- Soluzioni flessibili

Attenzione ai punti seguenti!

- I disegni hanno scopo puramente indicativo e i dettagli riportati nei disegni o nelle illustrazioni non sono vincolanti.

- Brevini Power Transmission S.p.A. si riserva il diritto di apportare qualsiasi tipo di cambiamento ai prodotti e ai cataloghi senza alcun preavviso.

- Prima della messa in funzione, leggere attentamente e attenersi alle istruzioni operative fornite assieme al riduttore.

- Le quantità di olio indicate sono solo indicative. L'esatta quantità di olio andrà verificata con l'aiuto dei tappi di livello olio forniti, a seconda delle posizioni di montaggio. Per conoscere la giusta viscosità dell'olio, si veda la targhetta applicata sull'apparecchio.

- Se nell'ordine di acquisto non è specificata la posizione di montaggio richiesta, il riduttore verrà fornito con posizione di montaggio M1. L'utilizzo del riduttore in una posizione di montaggio diversa da quella indicata sulla targhetta comporta il decadimento della garanzia. I pesi indicati nel presente catalogo sono valori medi. Il peso può variare in funzione del rapporto e degli accessori.

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 strength required operations. Input and output shafts are perpendicular to each other.

K Series gearboxes have the advantages of E Series and the same mounting options, monoblock housing and higher efficiency advantages of M series with higher torque capabilities. K Series have flexible connection possibilities which consists of IEC B5 or B14 connection, directly mounted or solid with the input shaft options .

Small sizes of K series gearboxes can be 2 and 3 stages. For bigger sizes only 3-stage types in monoblock housing.are manufactured. K series supplied for high reduction operations up to 6 stages by using double housings.

As Brevini Power Transmission S.p.A.,our design principals are:
- Use of high technology
- Reliability
- High power density
- High efficiency
- Compatible mounting
- Flexible solutions

Attention to the following points !

- Drawings are examples only and the details on the drawings or illustrations are not strictly binding.

- Brevini Power Transmission S.p.A. reserve the right to make all kinds of changes in products and catalogs 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 to the mounting positions. For correct oil viscosity refer to the nameplate.

- If the mounting position is not communicated in the order, the gear unit is delivered according to **M1** *mounting position. A different operation than the indicated mounting position on the name plate cancels the warranty. The weights given in this catalog 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 Einsatzgebiete geeignet bei denen ein hoherWirkungsgrad und eine hohe Festigkeit benötigt werden.
K Serie Getriebe haben umfangreiche Montagemöglichkeiten, wie E Serie, hohe Momenttragbarkeit mit hohem Wirkungsgrad und Monoblok-Gehäuse, wie M Serie, als Vorteil. Standart Motorverbindung (IEC B14 oder B5) oder Wellenantrieb ist möglich.

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

Als Brevini Power Transmission S.p.A. 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 Typenschieldes 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.



Informazioni generali
General Information
Einführung

Spiegazioni tecniche

- Coppia trasmessa (M_2): [Nm]
Moltiplicando la coppia in uscita dal motore per il rapporto di trasmissione e il rendimento si ottiene la coppia trasmessa a livello dell'albero in uscita dal riduttore.

- Coppia nominale (M_a): [Nm]
La coppia nominale è la coppia meccanica a cui il riduttore è in grado di resistere in condizioni di f_s=1.

- Potenza nominale (P_e): [kW]
La potenza nominale è la potenza a cui il riduttore, sottoposto a sollecitazioni meccaniche, è in grado di resistere in condizioni di f_s=1. I valori della potenza nominale sono indicati nelle tabelle prestazionali.

- Rapporto (i):
Rapporto tra il numero di giri dell'albero in uscita e quello dell'albero in entrata. I rapporti disponibili per i riduttori Brevini Power Transmission S.p.A. serie M sono compresi tra 3,5 e 23.500.

- Potenza e coppia equivalente
P_{eq}: [kW],T_e [Nm]
Per i riduttori con velocità di rotazione costante ma condizioni di lavoro variabili: corrisponde alla potenza o alla coppia calcolata, equivalente ai valori di esercizio in condizioni di lavoro costanti.

- Potenza richiesta (P_M): [kW]
Potenza richiesta per le applicazioni, necessaria per azionare il sistema.

- Coppia richiesta (T): [Nm]
Coppia richiesta per le applicazioni. La coppia richiesta deve sempre essere uguale o inferiore alla coppia in uscita per il riduttore scelto.

- Carichi assiali e radiali ammessi:
Fqem, Fqam [N]
Carico assiale e radiale ammesso sull'albero in uscita o in entrata dei riduttori.

- Fattore di servizio (f_s):
Il fattore di servizio è un coefficiente di sicurezza che tiene conto delle diverse condizioni di lavoro della macchina azionata. In presenza di carichi uniformi per 8 ore di funzionamento al giorno e fino a 100 cicli all'ora si utilizza il fattore f_s=1.

Caratteristiche tecniche:

- Livello di rumorosità:
Il livello di rumorosità dei nostri riduttori è inferiore ai valori ammessi così come definiti nella direttiva VDI 2159 per i riduttori.

- Verniciatura e protezione contro la corrosione:
I riduttori sono verniciati con vernice di colore RAL 7031 in accordo alla DIN1843. Su richiesta, sono disponibili altri colori. Su richiesta, sono disponibili anche verniciature idonee per ambienti ad alto tasso di umidità o chimicamente aggressivi.

Technical Explanations

- Output Torque (M_2): [Nm]
Multiplication of motor output torque by transmission ratio and efficiency gives the output torque result 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 the gearbox can mechanically 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 Brevini Power Transmission S.p.A. 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 working values 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. The required torque always must be equal or minor than the output torque for the selected gearbox.

- Permissible Axial and Radial Loads:
Fqem, Fqam [N]
Permissible axial and radial 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 working conditions of the driven machine. f_s=1 is used for uniform loads 8 working hours per day and up to 100 cycles 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 to DIN1843. Different colors are available upon request. Paint coating 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 Brevini Power Transmission S.p.A. 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.



Informazioni generali
General Information
Einführung

- Lubrificazione:

I riduttori della serie K utilizzano i tipi di olio riportati nelle tabelle di lubrificazione. Per maggiori informazioni sulla lubrificazione, fare riferimento alla sezione dedicata.

- Accessori:

I riduttori della serie K possono essere corredati dei seguenti accessori.
- Flangia di connessione motore IEC B5
- Flange di uscita
- Giunti ad attrito
- Dispositivi antiritorno
- Guarnizioni speciali di tenuta
- Indicatore livello olio trasparente
- Braccio di torsione
- Freni elettromagnetici.

Per altri accessori, si prega contattare Brevini Power Transmission S.p.A..

- Lubrication:

K series gearboxes are filled with oils indicated on the 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, Brevini Power Transmission S.p.A..

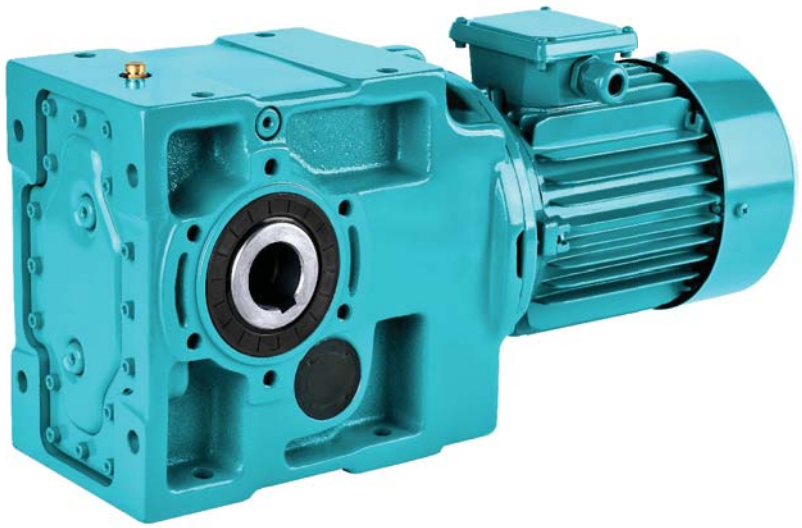
- Schmierung:

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, Brevini Power Transmission S.p.A..






transmission
power
brevini

Designazione unità / *Unit Designation* / Typenbezeichnung

K R 3 7 3 . 02 R - M2 T1 - 90S/4 - L05

Freno / *Brake* / Bremse

L-220 V **Con ventola** / *With Fan* / Mit Lüfter
P-24 V **Con ventola** / *With Fan* / Mit Lüfter
S-220 V **Senza ventola** / *Without Fan* / Ohne Lüfter
Z-24 V **Senza ventola** / *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

Grandezza motore / *Motor Size* / Motorbaugröße

Per tipi KV / *For KV types* / Für typen KV

90 S / 4

Numero di poli / *Pole Number* / Anzahl der polen
Lunghezza corpo / *Frame Length* / Gehäuselänge
Grandezza motore / *Motor size* / Motorbaugröße

Per tipi KN / *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	

Posizione braccio di torsione / *Torque Arm Position* / Position von Drehmomentstütze
Vedere alle pagine 471 e 472 / Please see pages 471 and 472 / Siehe seite 471 und 472

Posizione di montaggio / *Mounting Position* / Bauform
Vedere a pagina 34 / *Please see page 34* / Siehe seite 34

Albero in uscita - Posizione flangia / *Output Shaft - Flange Position* / Ausgangswelle - Seite von der Flansch

Caratteristiche dell'uscita / *Output Specification* / Eigenschaft der Ausgang

00 : **Albero in uscita cavo** / *Hollow output shaft* / Standarte Ausführung mit Hohlwelle
01 : **Albero in uscita pieno** / *Solid output shaft* / *Vollwelle*
02 : **Albero in uscita pieno con flangia** / *Solid output shaft with Flange* / Mit Flansch und Abtriebsvollwelle
03 : **Albero in uscita flangiato e cavo** / *Flanged and hollow output shaft* / Mit Flansch und Hohlausgangswelle
04 : **Con doppio albero in uscita**/ *With double output shaft* / Mit doppelte Abtriebswelle
05 : **Doppio albero in uscita e doppia flangia** / *Double flanged and double output shaft* / Mit doppelte Flansch unf doppelte Abtriebswelle
08 : **Doppio albero cavo in uscita e doppia flangia** / *Double flanged and hollow output shaft* / Doppelte Flansch und Aufsteckenwelle
0S : **Giunto ad attrito all'uscita** / *Shrink disk output* / Schrumpfscheibe
0E : **Estrusore all'uscita** / *Extruder output* / Extruder-Ausgang

Stadio / *Stage* / Anzahl der Stufen

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

Numero revisione / *Revision Number*/ Änderungsnummer

Grandezza corpo / *Housing Size* / Größe von Gehäuse

0...8

Tipo entrata / *Input Type* / Eingangstyp

R : **Con motore** / *With Motor* / Mit Motor
N : **Flangiato IEC B5 / B14 senza motore** / *IEC B5 / B14 Flanged without Motor* / Ohne Motor und mit IEC B5/B14 Eingangsflansch
V : **Flangiato IEC B5 / B14 con motore** / *IEC B5 / B14 Flanged with Motor* / Mit Motor und IEC B5/B14 Eingangsflansch
T : **Senza motore** / *Without Motor* / Eingang mit Vollwelle ohne Motor

Tipo riduttore / *Gearbox Type* / Getriebe

Serie K / *K Series*/ K Serie

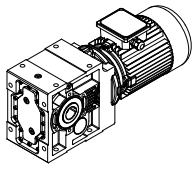
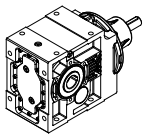
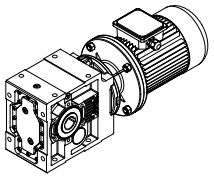
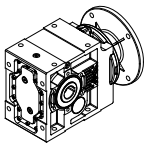
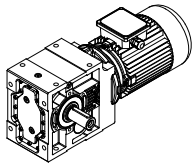
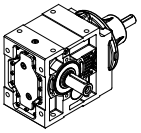
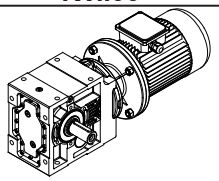
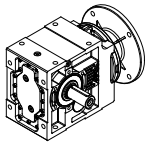
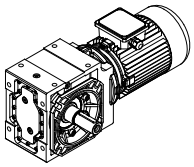
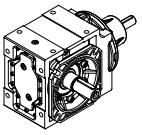
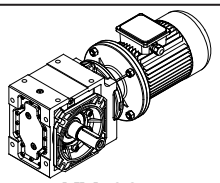
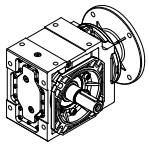
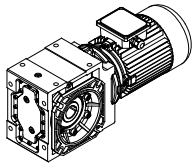
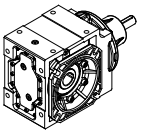
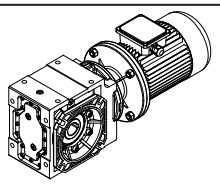
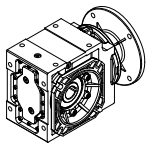
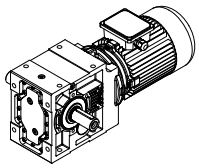
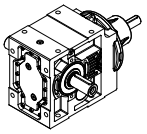
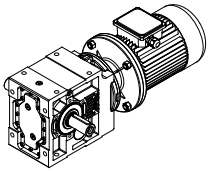
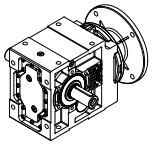
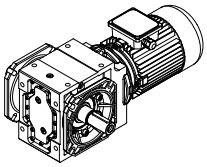
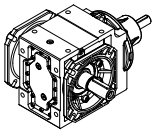
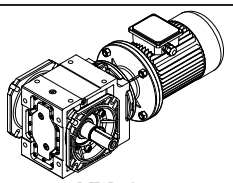
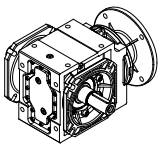
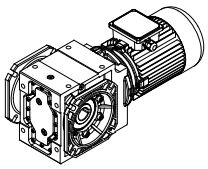
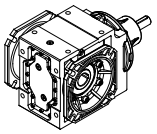
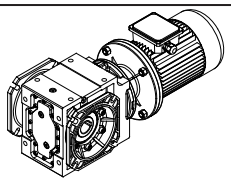
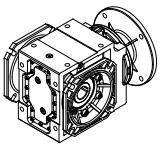
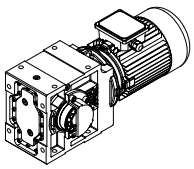
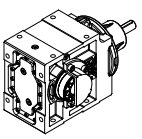
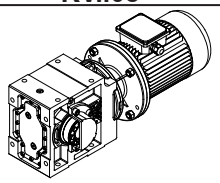
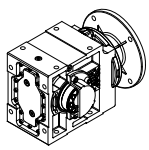
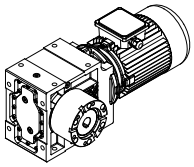
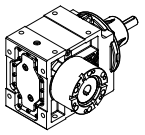
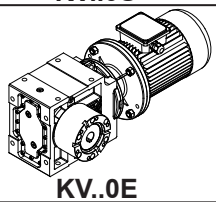
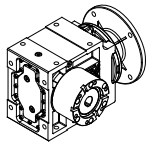


Informazioni generali
General Information
Einführung

Designazione unità / *Unit Designation* / Typenbezeichnung

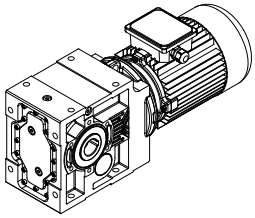
KR..00..	**Motoriduttori ad assi ortogonali, motore ad accoppiamento diretto, albero in uscita cavo** */ Bevel-Helical type geared motors, Direct coupled motor, Hollow shaft output/* Kegelradgetriebe, Verbunden mit Motor, Ausgang mit Hohlwelle.
KR..01..	**Motoriduttori ad assi ortogonali, motore ad accoppiamento diretto, albero in uscita pieno** */ Bevel-Helical type geared motors, Direct coupled motor, solid output shaft* / Kegelradgetriebe, Verbunden mit Motor, Ausgang mit Vollwelle.
KR..02..	**Motoriduttori ad assi ortogonali, motore ad accoppiamento diretto, albero in uscita pieno e flangia** */ Bevel-Helical type geared motors, Direct coupled motor, Solid output shaft and output flange* / Kegelradgetriebe, Verbunden mit Motor, Ausgang mit Vollwelle und Flasch.
KR..03..	**Motoriduttori ad assi ortogonali, motore ad accoppiamento diretto, albero in uscita cavo e flangia** */ Bevel-Helical type geared motors, Direct coupled motor, Hollow output shaft and output flange* / Kegelradgetriebe,Verbunden mit Motor, Ausgang mit Hohlwelle und Flansch.
KR..04..	**Riduttori ad assi ortogonali, motore ad accoppiamento diretto, doppio albero in uscita,** */ Bevel-Helical type gearboxes, Direct coupled motor, double output shaft, /* Kegelradgetriebe, Verbunden mit Motor, mit doppelter Ausgangswelle
KR..05..	**Motoriduttori ad assi ortogonali, motore ad accoppiamento diretto, doppio albero cavo in uscita e doppia flangia.** */ Bevel-Helical type geared motors, Direct motor coupled, double hollow output shaft and double flange output. /* Kegelradgetriebe,Verbunden mit Motor, Ausgang mit Hohlwelle und Flansch.
KR..08..	**Motoriduttori ad assi ortogonali, motore ad accoppiamento diretto, doppio albero cavo in uscita e doppia flangia.** */ Bevel-Helical type geared motors, Direct motor coupled, double hollow output shaft and double flange output. /* Kegelradgetriebe,Verbunden mit Motor, Ausgang mit Hohlwelle und Flansch.
KR..0S..	**Motoriduttori ad assi ortogonali, motore ad accoppiamento diretto, giunto ad attrito all'uscita** */ Bevel-Helical type geared motors Direct coupled motor, Shrink disk output /* Kegelradgetriebe, Verbunden mit Motor, Ausgang mit Schrumpfscheibe
KR..0E..	**Motoriduttori ad assi ortogonali, motore ad accoppiamento diretto, estrusore all'uscita** */ Bevel-Helical type geared motors Direct coupled motor, extruder output /* Kegelradgetriebe, Verbunden mit Motor, Ausgang mit Extruder
KN..00..	**Riduttori ad assi ortogonali, ingresso flangiato IEC B5/B14, senza motore, albero cavo all'uscita** */ 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..	**Riduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 senza motore, albero pieno all'uscita** */ 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..	**Riduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 senza motore, albero pieno all'uscita e flangia** */ 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..	**Riduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 senza motore, albero cavo all'uscita e flangia** */ 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..	**Riduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 senza motore, doppio albero all'uscita,** */ Bevel-Helical type gearboxes, IEC B5/B14 flanged without motor, double output shaft, /* Flachgetriebe, ohne Motor mit IEC B5/B14, mit doppelter Ausgangswelle
KN..05.	**Motoriduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 senza motore, doppio albero cavo all'uscita e flangia.** */ Bevel-Helical type geared motors, IEC B5/B14 flanged input without motor, double hollow output shaft and output flange. /* Flachgetriebemotoren,Verbunden mit Motor, Ausgang mit Hohlwelle und Flansch.
KN..08..	**Motoriduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 senza motore, doppio albero cavo all'uscita e doppia flangia.** */ Bevel-Helical type geared motors, IEC B5/B14 flanged input without motor ,double hollow output shaft and double output flange. /* Flachgetriebemotoren,Verbunden mit Motor, Ausgang mit Hohlwelle und Flansch.
KN..0S..	**Motoriduttori ad assi ortogonali, flangiati IEC B5/B14 senza motore, giunto ad attrito all'uscita** */ 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..	**Motoriduttori ad assi ortogonali, flangiati IEC B5/B14 senza motore, estrusore all'uscita** */ 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..	**Riduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 con accoppiamento al motore, albero cavo all'uscita** */ 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..	**Riduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 con accoppiamento al motore, albero pieno all'uscita** */ 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..	**Riduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 con accoppiamento al motore, con albero pieno all'uscita e flangia** */ 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..	**Riduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 con accoppiamento al motore, albero cavo all'uscita e flangia** */ 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..	**Riduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 con accoppiamento al motore, doppio albero all'uscita,** */ Bevel-Helical type gearboxes, IEC B5/B14 flanged input with coupled motor, double output shaft, /* Flachgetriebe, Verbunden mit IEC B5/B14 Motorverbindung, mit doppelter Ausgangswelle
KV..05..	**Riduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 con accoppiamento al motore, doppio albero all'uscita e doppia flangia** */ 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..	**Motoriduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 con accoppiamento diretto al motore, doppio albero cavo all'uscita e doppia flangia.** */ 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..	**Motoriduttori ad assi ortogonali flangiati IEC B5/B14 con accoppiamento diretto al motore, giunto ad attrito all'uscita** */ 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..	**Motoriduttori ad assi ortogonali flangiati IEC B5/B14 con accoppiamento diretto al motore, estrusore all'uscita** */ 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..	**Riduttore ad assi ortogonali, albero pieno all'entrata senza motore, albero cavo all'uscita** */ Bevel-Helical geared unit, Solid shaft input without motor, Hollow output shaft* / Flachgetriebe, Eingang mit Vollwelle ohne Motor, Ausgang mit Hohlwelle.
KT..01..	**Riduttori ad assi ortogonali, albero pieno all'entrata senza motore, albero pieno all'uscita** */ Bevel-Helical geared units, Solid shaft input without motor, Solid output shaft* / Flachgetriebe, Eingang mit Vollwelle ohne Motor, Ausgang mit Vollwelle.
KT..02..	**Riduttori ad assi ortogonali, albero pieno in entrata senza motore, albero pieno all'uscita e flangia** */ Bevel-Helical geared 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..	**Riduttori ad assi ortogonali, albero pieno in entrata senza motore, albero cavo all'uscita e flangia** */ Bevel-Helical geared 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..	**Riduttori ad assi ortogonali, albero pieno in entrata, doppio albero in uscita,** */ Bevel-Helical type gearboxes, solid input shaft, double output shaft, Flachgetriebe, Eingang mit Vollwelle,* mit doppelter Ausgangswelle
KT..05..	**Riduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 senza motore, doppio albero all'uscita e doppia flangia** */ 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..	**Motoriduttori ad assi ortogonali, ingresso flangiato IEC B5/B14 con motore, doppio albero cavo all'uscita e doppia flangia** */ Bevel-Helical type geared motors, IEC B5/B14 flanged input with, double hollow output shaft and double flange output. /* Flachgetriebemotoren,Verbunden mit Motor, Ausgang mit Hohlwelle und Flansch.
KT..0S..	**Motoriduttori ad assi ortogonali, albero pieno in entrata senza motore, giunto ad attrito all'uscita**/ *Bevel-Helical geared motors, Solid shaft input without motor, Shrink Disk Output /* Flachgetriebe, ohne Motor, Ausgang mit Schrumpfscheibe
KT..0E..	**Motoriduttori ad assi ortogonali, albero pieno in entrata senza motore, estrusore all'uscita**/ *Bevel-Helical gear motors, Solid shaft input without motor, Extruder Output /* Flachgetriebe, ohne Motor, Ausgang mit Extruder.

Designazione unità / *Unit Designation* / Typenbezeichnungen

 KR..00	 KT..00	 KV..00	 KN..00
 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
 KR..0E	 KT..0E	 KV..0E	 KN..0E

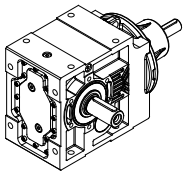
Esempi di designazione

KR273.00-90S/4-L05



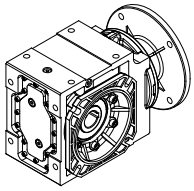
K.....: **Riduttore serie K**
R.....: **Accoppiamento diretto al motore**
2.....: **Grandezza riduttore**
7.....: **Numero revisione**
3.....: **Numero stadi**
00.....: **Albero cavo all'uscita**
90S/4.....: **Grandezza corpo motore**
L05.....: **Tipo di freni**

KT373.01



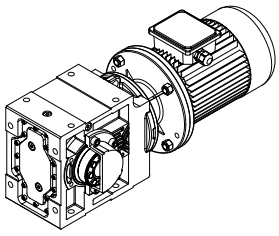
K.....: **Riduttore serie K**
T.....: **Albero pieno all'entrata**
3.....: **Grandezza riduttore**
7.....: **Numero revisione**
3.....: **Numero stadi**
01.....: **Albero pieno all'uscita**

KN473.03 - A11



K.....: **Riduttore serie K**
N.....: **Flangia IEC B5 senza motore all'entrata**
4.....: **Grandezza riduttore**
7.....: **Numero revisione**
3.....: **Numero stadi**
03.....: **Albero cavo flangiato all'uscita**
A11.....: **Motore tipo 112, flangia B5**

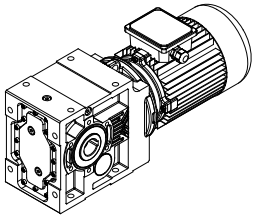
KV573.0S-100L/4



K.....: **Riduttore serie K**
V.....: **Motore all'entrata, con flangia B5/B14**
5.....: **Grandezza riduttore**
7.....: **Numero revisione**
3.....: **Numero stadi**
0S.....: **Albero cavo con giunto ad attrito all'uscita**
100L/4.....: **Grandezza motore e numero di poli**

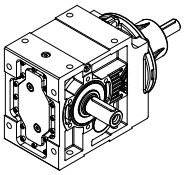
Sample Designations

KR273.00-90S/4-L05



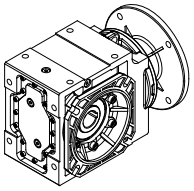
K.....: *K series gearbox*
R.....: *Direct motor coupled*
2.....: *Gear unit size*
7.....: *Revision number*
3.....: *Stage number*
00.....: *Hollow shaft output*
90S/4.....: *Motor frame size*
L05.....: *Brake type*

KT373.01



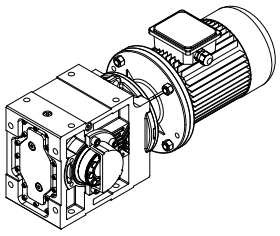
K.....: *K series gearbox*
T.....: *Solid input shaft*
3.....: *Gear unit size*
7.....: *Revision number*
3.....: *Stage number*
01.....: *Solid output shaft*

KN473.03 - A11



K.....: *K series 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

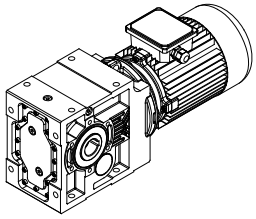
KV573.0S-100L/4



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

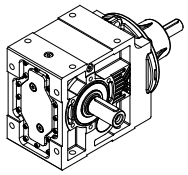
Typenbezeichnungsbeispiele

KR273.00-90S/4-L05



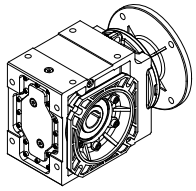
K.....: K Serie Getriebe
R.....: Motorverbindung
2.....: Größe von Gehäuse
7.....: Änderungsnummer
3.....: Stufenanzahl (2 stufig)
00.....: Hohlausgangswelle
90S/4.....: Motorbaugröße
L05.....: Bremse

KT373.01



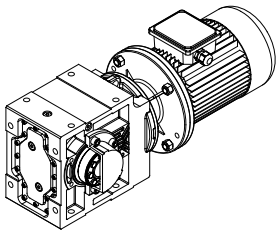
K.....: K Serie Getriebe
T.....: Vollwelleneingang ohne Motor
3.....: Größe der Gehäuse
7.....: Änderungsnummer
3.....: Stufenanzahl
01.....: Vollwelle

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

Combinazioni di rapporti geometricamente possibili, in funzione della grandezza del motore
Geometrically Possible Ratios Combinations According to Motor Size
Geometrisch mögliche Kombinationen von Übersetzungen nach Motorbaugröße

Grandezza motore / *Motor Size* / Motorbaugröße

Tipo *Type* Typ	**Stadi** *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

Combinazioni di rapporti geometricamente possibili, in funzione della grandezza del motore
Geometrically Possible Ratios Combinations According to Motor Size
Geometrisch mögliche Kombinationen von Übersetzungen nach Motorbaugröße

Grandezza motore / *Motor Size* / Motorbaugröße

Tipo *Type* Typ	**Stadi** *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	-	-	-	-	-	-



Informazioni generali
General Information
Einführung

Fattore di servizio

Il fattore di servizio (fs) è un coefficiente di sicurezza che tiene conto delle diverse condizioni di lavoro della macchina azionata dal riduttore. In presenza di carichi uniformi per 8 ore di funzionamento al giorno e fino a 100 avviamenti all'ora si utilizza il fattore "fs=1".

Il fattore di servizio dipende da:

- **Tempo di funzionamento**
- **Natura del carico**
- **Frequenza di avviamento**
- **Tipo di azionamento**
- **Altre considerazioni**

Per stabilire quale sia il giusto fattore di servizio per la propria macchina:
1. Determinare il tempo di funzionamento della macchina che viene azionata dal riduttore.
2. Selezionare la natura del carico della macchina che viene azionata (Pagina 17-18).

- **U - Carichi uniformi**
- **M - Carichi moderati**
- **H - Carichi con forti urti**

Per ottimizzare la scelta, si può calcolare la natura del carico utilizzando le formule a pagina 18.
3. Determinare la frequenza di avviamento.
4. Dopo aver determinato i fattori di cui sopra, si può facilmente ricavare il fattore di servizio dalla tabella qui sotto.
5. Il fattore di servizio scelto va poi moltiplicato per il fattore "k", il cui valore dipende dal tipo di azionamento;

k=1 : Motore elettrico o idraulico
k=1,25 : Motore multicilindrico a combustione interna
k=1,5 : Motore monocilindrico a combustione interna

Service Factor

Service Factor (fs) is a safety coefficient, which takes into account the different operating 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:

- *Operating time*
- *Nature of load*
- *Start-up frequency*
- *Driver type*
- *Other considerations*

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

2. Select the nature of load of the 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 start-up frequency.
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 by ''k''' factor according to the driver type;

k=1 :Electric motor or Hydrolic motor
k=1.25 :Multi-cylinder internal combustion engine
k=1.5 :Single cylinder inside the 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.

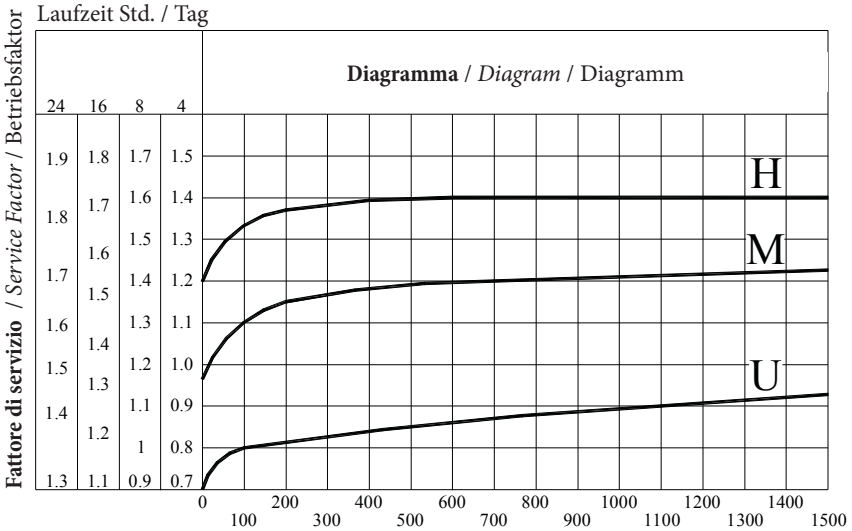
- U - Gleichförmige Belastung
- M - Ungleichförmige Belastung
- H - Stark Ungleichförmige Belastung

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

Tempo di Funzionamento ore / Giorno
Operating Time hour / Day
Laufzeit Std. / Tag



Cicli / Ora
Cycle / Hour
Schaltungen / Std.

Classificazione dei carichi		***Load Classification***		**Belastungsart**	
Gru:		***Cranes:***		**Krananlagen:**	
U	**- Meccanismi di montacarico**	*U*	*- Hoist Gears*	U	- Einziehwerke
	- Meccanismi di sollevamento		*- Lifting Gears*		- Hubwerke
M	**- Meccanismo del braccio di trivellazione**	*M*	*- Defrocking jib Gears*	M	- Schwenkwerke
			- Slowing Gears		- Wippwerke
	- Meccanismi girevoli	*H*	*- Traveling Gears*	H	- Fahrwerke
H	**- Meccanismi di traslazione**				
Pompe:		***Pumps:***		**Pumpen:**	
U	**- Pompe centrifughe (liquidi leggeri)**	*U*	*- Centrifugal Pumps (light liquids)*	U	- Kreiselpumpen (leichte Flüssigkeit)
M	**- Pompe centrifughe (liquidi viscosi)**	*M*	*- Centrifugal Pumps (semi liquid)*	M	- Kreiselpumpen (zahe Flüssigkeit)
H	**- Pompe a pressione**	*H*	*- Pressure Pumps*	H	- Prebpumpen
	- Pompe a pulsante		*- Plunger Pumps*		- Plungerpumpen
Macchine per la lavorazione della pietra e dell'argilla:		***Stone and Clay Working Machines:***		**Stein- und Erdebearbeitende Maschine**	
H	**- Mulini a martelli**	*H*	*- Hammer Mills*	H	- Hammermühler
	- Forni rotanti		*- Rotary Kilns*		- Drehofen
	- Laminatoi per raffinare		*- Beater Mills*		- Schlagmühlen
	- Interruttori		*- Breakers*		- Brecher
	- Mulini a palle		*- Ball Mills*		- Kugelmühlen
	- Presse per mattoni		*- Brick Presses*		- Ziegelpressen
	- Mulini a martelli		*- Hammer Mills*		- Rohrmühlen
Macchine tessili:		***Textile Machines:***		**Textilmaschinen:**	
M	**- Macchine per la stampa e la tintura**	*M*	*- Printing and Dyeing Machines*	M	- Drukerei
	- Telai per tessitura		*- Looms*		- Farbereimachinen
	- Battitoi		*- Willow*		- Aufwickler
	- Dosatori		*- Batchers*		- Webstuhle
	- Vasche per la concia		*- Tanning Vats*		- Gerbfasser
					- Reibwolfe
Industria petrolifera:		***Oil Industry:***		**Erdölgewinnung:**	
M	**- Pompe conduttrici**	*M*	*- Pipeline Pumps*	M	- Pipline Pumpen
	- Attrezzatura trapanatrice rotante		*- Rotary Drilling Equipment*		- Rotative Bohranlagen
Industria alimentare:		***Food Industry:***		**Nahrungsmittelmachinen:**	
M	**- Coltelli per canna da zucchero**	*M*	*- Sugar cane Knives*	M	- Rohrschneiden
	- Frantumatori di canna da zucchero		*- Sugar cane Crushers*		- Knetmaschinen
	- Serbatoi di fermentazione del vino		*- Wine fermenter tank*		- Maichen
H	**- Macine per canna da zucchero**	*H*	*- Sugar cane mills*	H	- Rohrmühlen
Lavanderie:		***Laundries:***		**Waschereimaschinen:**	
M	**- Invertitori**	*M*	*- Tumblers*	M	- Trommeltrockner
	- Lavatrici		*- Washing Machines*		- Waschmaschinen
Laminatoi per metalli:		***Metal Rolling Mills:***		**Wälzwerke:**	
M	**- Comandi di regolazione rulli**	*M*	*- Roller Adjustment Drives*	M	- Rollenrichtmaschinen
	- Raddrizzatrici a rulli		*- Roller Straightened*		- Walzenantriebe
	- Macchine avvolgitrici		*- Winding Machines*		- Drahtzuge
	- Banchi da disegno a filo		*- Wire Drawing Benches*		- Haspeln
H	**- Cesoie per laminatoi**	*H*	*- Billet Shears*	H	- Blechscheren
	- Tavole a rulli (pesanti)		*- Rotary Tables (heavy)*		- Rollgänge (schwer)
	- Treni sbozzatori e lingotti		*- Descaling Machines,*		- Knüppelscheren
	- Laminatoi per lamiera		*- Sheet Mills*		- Schöpfscheren
	- Manipolatori		*- Manipulators*		- Stranggubanlagen
	- Laminatoi a freddo		*- Cold Rolling Mills*		- Kaltwälzwerke



Informazioni generali
General Information
Einführung

Macchine per costruzione:	***Building Machines:***	**Baumaschinen:**
M - Betoniere	*M - Concrete Mixers*	M - Betonmischermaschinen
- Montacarichi	*- Hoist*	- Bauaufzüge
Macchine per la carta:	***Paper Machines:***	**Papiermaschinen:**
H - Presse a umido	*H - Wet Presses*	H - Naßpressen
- Spappolatori	*- Pulpers*	- Gautschen
- Tamburi essiccatori	*- Drying Cylinders*	- Trockenzylinder
- Cilindri essiccatori	*- Glazing Cylinders*	- Glattzylinder
Macchinari per la gomma:	***Rubber Machinery:***	**Kunststoffmaschinen:**
M - Calandre	*M - Calenders*	M - Kalender
- Miscelatori	*- Mixers*	- Mischer
H - Estrusori	*H - Extruders*	H - Extruder
- Impastatrici	*- Pug Mills*	- Knetwerke
- Laminatoi	*- Rolling Mills*	- Wälzwerke
Industria chimica:	***Chemical Ind.:***	**Chemische İndustrie:**
M - Agitatori (materiali semi-liquidi)	*M - Agitators (semi- liquid)*	M - Rührwerke (leichte Flüssig.)
- Tamburi di essicazione	*- Drying Drums.*	- Trockentrommeln
- Miscelatori e laminatoi	*- Mixers and Rolling Mills*	- Mischer und Wälzwerke
Convogliatori:	***Conveyors:***	**Förderanlagen:**
M - Convogliatori nastro a sacca	*M - Band Pocket Conveyors*	M - Gurttaschenbecherwerke
- Convogliatori a nastro d'acciaio	*- Steel Belt Conveyors*	- Stahlbandförderer
- Convogliatori a nastro	*- Belt Conveyors*	- Gurtbandförderer (Schüttgut)
H - Montacarichi	*H - Hoists*	H - Schrägaufzüge
- Convogliatori a nastro per materiali alla rinfusa	*- Bulk Belt Conveyors*	- Gurtbandförderer(Stückgut)

U	**Carichi uniformi** *Uniform Loads* Gleichförmige Last	$F_i < 0,25$
M	**Carichi moderati** *Moderate Loads* Ungleichförmige Last	$F_i < 3$
H	**Carichi con forti urti** *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} : **Momento d'inerzia esterno ridotto all'albero motore**
External moments of inertia reduced to the motor shaft
Externe Massenträgheitsmomente reduziert auf Motorwelle

i : **Rapporto di trasmissione**
Transmission ratio
Übersetzung

J_{rotor} : **Momento d'inerzia al motore**
Moments of inertia to the motor
Massenträgheitsmoment

Senso di rotazione

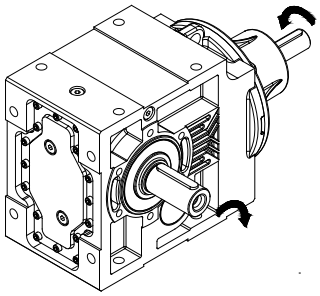
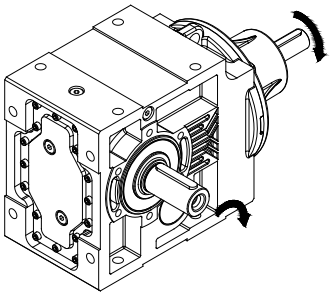
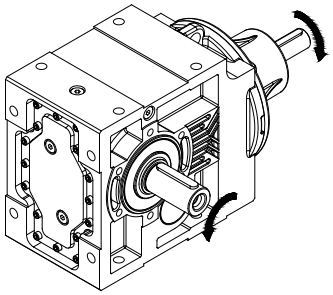
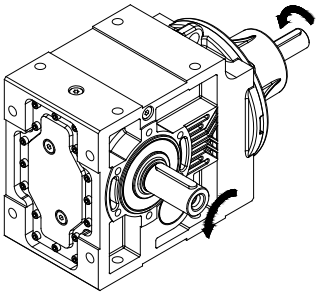
Il senso di rotazione dei prodotti Brevini serie K è definito come segue. Queste definizioni sono valide anche per i riduttori con dispositivo antiritorno.

Direction of Rotation

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

Getriebedrehrichtungen

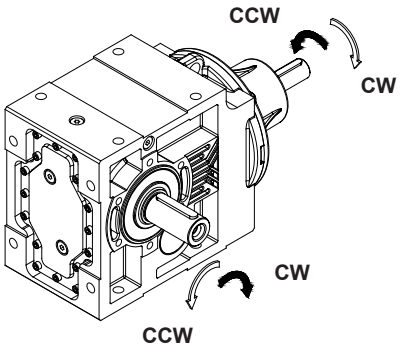
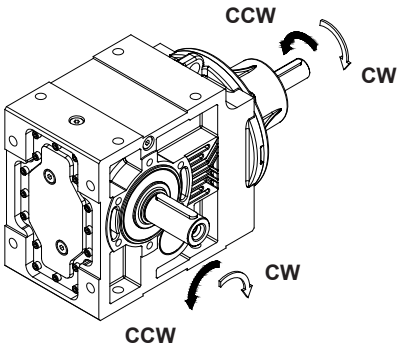
Die Drehrichtungen für K Serie Getriebe sind wie folgt definiert. Die Definition ist auch bei Getrieben mit Rücklaufsperre gültig.

	3-5 Stadi / *3-5 Stages* / 3-5 Stufig	**2-4-6 Stadi** / *2-4-6 Stages* / 2-4-6 Stufig
Senso orario *Clockwise* Rechtslauf **CW**		
Senso antiorario *Counter Clockwise* Linkslauf **CCW**		

Il senso di rotazione dell'albero in uscita in funzione del senso di rotazione dell'albero in entrata è come segue:

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 Stadi / *3-5 Stages* / 3-5 Stufig	**2-4-6 Stadi** / *32-4-6 Stages* / 2-4-6 Stufig
	



Informazioni generali
General Information
Einführung

Carichi radiali

I carichi radiali ammessi sono calcolati tenendo conto della durata operativa, e sono indicati nelle tabelle. I carichi radiali ammessi F_{qam} indicati sono basati su f_s=1 e sono validi per forze applicate al centro dell'albero.
Per applicazioni che prevedono carichi con urti si dovrà prendere in considerazione il fattore di servizio indicato in tabella. Il carico assiale ammesso (F_{ama} o F_{ame}) è pari al 25% del carico radiale ammesso (F_{qam} o F_{qem}). I carichi radiali ammessi indicati sono basati sulla direzione di carico peggiore. Carichi radiali maggiori possono essere applicati per direzioni di carico diverse (chiedere, se interessati). Il carico radiale effettivo sull'albero del riduttore Fq si determina con le formule indicate a pagina 21. Scegliendo:

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

si deve tener conto di queste formule.
Se il carico non è applicato al centro dell'albero, il carico ammesso indicato va corretto utilizzando le formule seguenti.

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

I valori "t" e "y" possono essere ricavati dalla tabella seguente. Il valore "u" corrisponde alla distanza del punto di applicazione del carico, come mostrato qui sotto.

Radial Loads

The permissible radial loads are calculated by considering working life and are listed on the tables. The given permissible radial 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 radial loads are based on the worst loading direction. Higher radial loads can be applied for different loading directions (Please ask if requested). The effective radial load at the gear box shaft Fq will be determined with the given formulas on page 21.

In Selection ;

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

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 following table. The value "u" is the length of the application point as shown below.

Querkräfte

Die in den nachfolgenden Tabellen ange-gebenen 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.

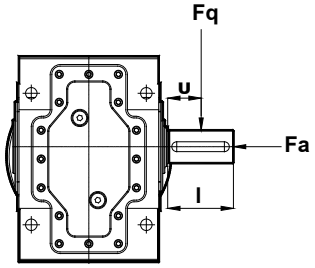
Bei dieser Auswahl;

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

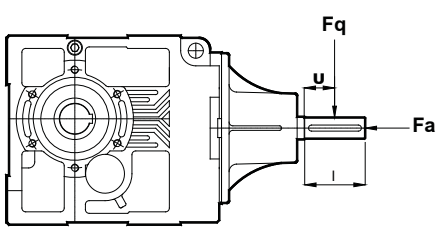
müßen die oben agegebenen Bedingungen berücksichtigt werden.Ist der Kraftangriff nicht auf Wellenmitte, so kann die zulässige Querkraft mit Hilfe der unten stehenden Formel auf jede beliebige Stelle umgerechnet werden.

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

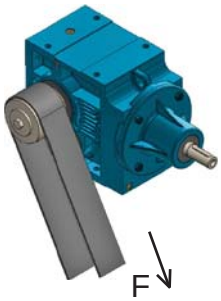
Die Werte "t" und "y" sind in den nacholgenden Tabellen angegeben. Der Wert "u" ist die Stelle des Kraftangriffs wie auf der nächsten Seite angegeben.



KR...01	Valori di correzione dei carichi radiali sull'albero in uscita *Radial Load correcting values on output shaft* Querkraft auf Ausgangwelle Korrigierungszahlen									
Tipo *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...	Valori di correzione dei carichi radiali sull'albero in entrata *Radial load correcting values on input shaft* Querkraft auf Einagangwelle korrigierungszahlen									
Tipo *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



Calc. dei carichi radiali

Il carico radiale Fq [N] si calcola con le equazioni seguenti, utilizzando il momento M [Nm] e il diametro D [mm] della puleggia o ingranaggio richiesti.

Calc. dei carichi radiali

Radial Load Fq [N] is calculated with the following equations where the 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. Giunto elastico
Se il giunto elastico lavora all'interno del suo range operativo affidabile, i carichi radiali possono essere trascurati.

1. Elastic Coupling
If the Elastic Coupling is working in its reliable working range, the radial loads can be neglected.

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

2



2. Per ingranaggi a denti diritti (angolo pressione 20°)

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

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. Per catena a bassa velocità (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. Per cinghia dentata

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

4. For Timing Belt

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

4. Zahnriemenantrieb

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

5



5. Per cinghia a gole V

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

5. For V Belt

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

5. Keilriemenantrieb

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

6



6. Cinghia piana con puleggia tendicinghia

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

6. Flat Belt With Belt tensioner pulley

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

6. Flachriemenantrieb mit Spannungstrommel

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



Carichi assiali ammessi per i tipi di riduttore con estrusore
Permissible Axial Loads for Extruder Types
Zulässige Axialkräfte für Extruder Typ Getriebe

KRE273				
n_2	F_{ama} [kN]			
	Durata di vita / *Lifetime* / Lebensdauer **Lh [ora]** / *[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 **Velocità di rotazione in uscita [giri/min.]**
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

KRE373				
n_2	F_{ama} [kN]			
	Durata di vita / *Lifetime* / Lebensdauer **Lh [ora]** / *[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 **Velocità di rotazione in uscita [giri/min.]**
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

KRE473				
n_2	F_{ama} [kN]			
	Durata di vita / *Lifetime* / Lebensdauer **Lh [ora]** / *[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 **Velocità di rotazione in uscita [giri/min.]**
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

KRE573				
n_2	F_{ama} [kN]			
	Durata di vita / *Lifetime* / Lebensdauer **Lh [ora]** / *[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 **Velocità di rotazione in uscita [giri/min.]**
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

Carichi assiali ammessi per i tipi di riduttore con estrusore
Permissible Axial Loads for Extruder Types
Zulässige Axialkräfte für Extruder Typ Getrieben

KRE673				
n_2	F_{ama} [kN]			
	Durata di vita / *Lifetime* / Lebensdauer **Lh [ora]** / *[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

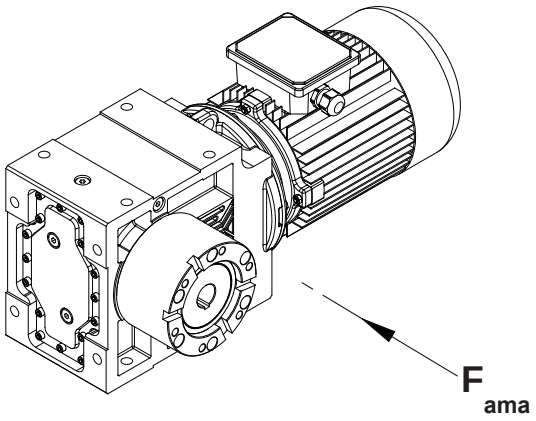
n_2
Velocità di rotazione in uscita [giri/min.]
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

KR773				
n_2	F_{ama} [kN]			
	Durata di vita / *Lifetime* / Lebensdauer **Lh [ora]** / *[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
Velocità di rotazione in uscita [giri/min.]
Output Speed [rpm]
Abtriebsdrehzahl [U/min]

KRE873				
n_2	F_{ama} [kN]			
	Durata di vita / *Lifetime* / Lebensdauer **Lh [ora]** / *[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
Velocità di rotazione in uscita [giri/min.]
Output Speed [rpm]
Abtriebsdrehzahl [U/min]



Calcolo della potenza nominale equivalente

La potenza equivalente con una coppia costante equivalente può essere calcolata per riduttori che lavorano con velocità di rotazione costante ma coppie (o potenze) variabili. Utilizzando questa potenza equivalente si può selezionare un riduttore con il consueto metodo di selezione dei riduttori con coppie costanti. La coppia equivalente si determina in base alla media delle coppie dominanti. Il riduttore che lavora con una coppia equivalente costante in teoria avrà la stessa durata di vita e lo stesso livello di sicurezza di uno con coppia variabile. Per calcolare le coppie equivalenti, occorre ordinare su una linea temporale orizzontale le coppie variabili all'interno di un ciclo, da quella massima a quella minima (si veda il diagramma qui sotto). Come da diagramma qui sotto, si può calcolare la coppia equivalente utilizzando la formula seguente:

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

Se T_n (la coppia più bassa) è inferiore al 50% di T_e, la coppia di questa parte del ciclo va eliminata dal diagramma, dopodiché va ripetuto il calcolo;

Se $T_n < T_e \times 0.5$ allora

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

Se tutti i valori T_n sono superiori al 50% di T_e, per calcolare la potenza equivalente si può allora utilizzare la formula seguente:

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

Una volta determinata la potenza equivalente, la scelta del riduttore viene fatta seguendo le procedure di selezione indicate nella sezione di questo catalogo dedicata alla scelta del riduttore.

Equivalent Power Rating Calculation

The equivalent power by an equivalent constant torque can be calculated for gearboxes working in constant speed but at 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 chart below). According to the chart 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 from the torque chart 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% T_e then the equivalent power can be calculated by the following formula;

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

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

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;

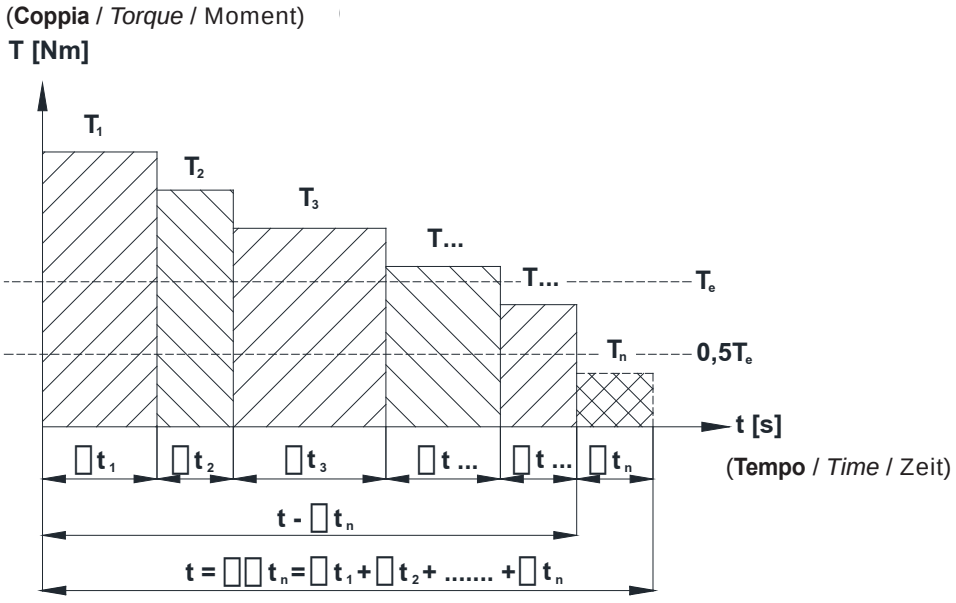
Wenn $T_n < T_e \times 0.5$ dann

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

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.



Esempio di calcolo della potenza nominale equivalente

I dati che seguono sono riferiti a un laminatoio blooming reversibile;

Livelli di coppia:
Durata totale di un ciclo: 2 min.
Coppia 1ª parte del ciclo: 48 kNm, 30 s
Coppia 2ª parte del ciclo: 32 kNm, 22 s
Coppia 3ª parte del ciclo: 28 kNm, 15 s
Coppia 4ª parte del ciclo: 16 kNm, 10 s
Coppia 5ª parte del ciclo: 5 kNm, 43 s
Macchina con velocità di rotazione costante: 50 giri/min.
Bisogna determinare la potenza equivalente necessaria per la scelta del riduttore.

Soluzione:
Durata totale di un ciclo:

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

Coppia equivalente:

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

=39,2 kNm

50% della coppia equivalente:

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

La coppia di ciascuna parte del ciclo deve essere inferiore a questo valore:

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

Ripetiamo il calcolo escludendo le coppie che sono inferiori al 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

Utilizzando la coppia equivalente e la velocità di rotazione costante calcoliamo la potenza equivalente:

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

Ora, sulla base della potenza equivalente appena calcolata e della velocità di rotazione costante si può procedere alla scelta del riduttore seguendo le procedure descritte in questo catalogo.

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
3rd 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 the gear unit selection, must be determined.

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;

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

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 it is possible to make the gearbox selection with the procedures described in this catalog.

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;

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

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.



Informazioni generali
General Information
Einführung

Scelta del riduttore

Per scegliere correttamente il riduttore più appropriato procedere come segue.

1. Determinare il fattore di servizio (fs) in funzione delle condizioni di lavoro (pagina 16).

2. Determinare la coppia M_2 (coppia richiesta in uscita dal riduttore) necessaria per azionare la macchina.
3. Determinare la velocità (numero di giri in uscita dal riduttore) necessaria per la macchina che il riduttore deve azionare.
4. Calcolare la potenza necessaria per la macchina (calcolare la potenza "P_2" necessaria sul lato di uscita del riduttore utilizzando la formula):

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

5. Calcolare il carico radiale necessario sull'albero in uscita in base al tipo di accoppiamento tra riduttore e macchina (fare riferimento alle indicazioni e ai valori a pagina 20). Una volta che i suddetti valori sono stati determinati, nelle tabelle prestazionali si può scegliere il riduttore che soddisfa i nostri requisiti (il fattore di servizio e il carico radiale ammesso dovranno essere inferiori o uguali ai valori da noi richiesti). La potenza in uscita dei riduttori elicoidali non è riportata nelle tabelle prestazionali perché questi riduttori hanno un rendimento elevato e come potenza in uscita si può considerare la potenza in entrata. Bisogna però verificare che la coppia trasmessa soddisfi i nostri requisiti. Se la coppia trasmessa è bassa, cercare un riduttore che abbia una potenza in entrata maggiore.

Esempio:
1. Tipo di macchina:
Convogliatore a nastro (materiali alla rinfusa)

2. Coppia richiesta:
La coppia richiesta calcolata per la macchina che si deve azionare è M_2=470 Nm.

3. Velocità di rotazione richiesta:
n_2 = 50 giri/min.

4. Tempo di funzionamento:
16 ore al giorno

5. Frequenza di avviamento:
1 avviamento ogni ora

6. Tipo di accoppiamento del riduttore
Catena (dimensione in uscita-130 mm)

- Dalla tabella di classificazione dei carichi (a pagina 17-18), si può selezionare la classe di carico M per l'applicazione nota.
- Dalla tabella dei fattori di servizio (pagina 16) si può selezionare il fattore di servizio fs = 1,3 che considera 16 ore di funzionamento, un avviamento ogni ora e un carico di classe M.

- Potenza richiesta per la macchina (potenza lato di uscita del riduttore):

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

Gearbox Selection

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

1.Determine the service factor (fs) according to the operating conditions (Page 16).

2. Determine the required Torque M_2 (required output torque of gearbox) for the driven machine.
3. Determine the 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 radial 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 radial load should be less than or equal to our requirement). The output power of Helical gears is not given on the performance tables because they have high efficiency and the output power can be taken as input power. It is necessary to check if the output torque meets 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. Operating time:
16 hours per day

5. Start-up frequency:
1 start per hour

6. Gear reducer connection type
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 working time, one start per hour, and load class M.

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

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

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)

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

- Per le applicazioni con accoppiamento a catena il carico radiale richiesto può essere calcolato da (pagina 21):

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

- Il riduttore richiesto è il seguente:

$P_2 \geq$ 2,46 kW
$M_2 \geq$ 470 Nm
fs ≥ 1,3
$n_2 \approx$ 50 giri/min.
Fq ≥ 7592 N

Nella tabella prestazionale

il riduttore scelto è il modello KR373-100L/4b (Pagina 72).

P_2=3kW > 2,46 kW
M_2= 555 Nm > 470 Nm
fs=1,5
n_2=49 giri/min.
fq=13213 Nm < 7592 Nm
i=28,85

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

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

- The required gearbox is as follows:

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

From the performance table,

***KR373-100L/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 ≥ 1.3
$n_2 \approx$ 50 U/min
Fq ≥ 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

Modulo di scelta del riduttore

Settore industriale.....
Applicazione.....
Velocità di rotazione media richiesta..... giri/min.

Potenza richiesta alla macchina azionata:
-Normale..... kW
-Massima..... kW
-Minima..... kW

Azionamento macchina:
Motore CA [ ]
Motore CA + Inverter [ ]
Motore CC [ ]
Motore idraulico [ ]
Motore a pistoni con 1-3 cilindri [ ]
Motore a pistoni con 4-24 cilindri [ ]

Tipo di accoppiamento motore (motori elettrici):
Flangia IEC B5 [ ]
Flangia NEMA [ ]

Codice flangia IEC o NEMA.....

Potenza motore:
-Nominale.....kW

Velocità di rotazione del motore:
-Normale.....giri/min.
-Massimo.....giri/min.
-Minimo.....giri/min.

Coppia motore:
-Normale.....Nm
-Massima.....Nm
-Minima.....Nm

Senso di rotazione:
orario [ ] antiorario [ ] variabile [ ]

Ore di funzionamento al giorno:
<4 [ ] 4-8 [ ] 8-16 [ ] >16 [ ]

N. di avviamenti per ciclo:
0-50 [ ] 50-100 [ ] 100-200 [ ]
200-300 [ ] 300-500 [ ] 500-700 [ ]
700-1000 [ ] >1000 [ ]

Rapporto di trasmissione tra motore e riduttore.....

Coppia di avviamento richiesta.....Nm

Coppie di picco per ora:
1-5 [ ] 6-30 [ ] 31-100 [ ] >100 [ ]

Tempo effettivo di lavoro in un ciclo (ED):
%100 [ ] %80 [ ] %60 [ ] 40% [ ]
20%[ ]

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

Luogo di installazione:
Locale chiuso di piccole dimensioni (w<1m/sn) [ ]
Locale chiuso (w<3m/sn) [ ]
Locali di grandi dimensioni e capannoni (w>=3m/sn) [ ]
All'esterno [ ]

Condizioni ambientali:
Normale [ ] Polveroso [ ] Umido [ ]
Corrosivo [ ] Secco [ ]

Temperatura ambiente:
Media.....^{0}C
Massima.....^{0}C
Minima.....^{0}C

Dispositivo antiritorno necessario:
Si [ ] No [ ]

Opzioni entrata riduttore:
R..[ ] V..[ ] N..[ ] T..[ ]

Opzioni uscita riduttore:
00 [ ] 01 [ ] 02 [ ] 03 [ ] 04 [ ] 05 [ ] 08 [ ]
0S [ ] 0E [ ]

Posizione di montaggio:

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

Tipo di accoppiamento albero in entrata:
Giunto elastico [ ]
Giunto a tamburo [ ]
Giunto idraulico [ ]
Giunto rigido flangiato [ ]
Puleggia [ ]
Rocchetto e catena [ ]
Pignone [ ]
Diametro dell'elemento di raccordo.....mm
Carico radiale.....N
Distanza "u" del carico radiale.....mm
Carico assiale (in direzione dell'albero) .....N

Tipo di accoppiamento albero in uscita:
Giunto elastico [ ]
Giunto a tamburo [ ]
Giunto rigido flangiato [ ]
Puleggia [ ]
Rocchetto e catena [ ]
Pignone [ ]
Albero cavo con braccio di torsione [ ]
Giunto ad attrito con braccio di torsione [ ]
Diametro dell'elemento di raccordo.....mm
Carico radiale.....N
Distanza "u" del carico radiale.....mm
Carico assiale (in direzione dell'albero) .....N

Assemblaggio riduttore tramite:
Piede [ ] Flangia [ ] Braccio di torsione [ ]

Caratteristiche albero in uscita:
Albero pieno con scanalatura per chiavetta [ ]
Albero pieno senza scanalatura per chiavetta [ ]
Albero cavo con giunto ad attrito [ ]
Albero cavo [ ]
Albero speciale [ ]

Caratteristiche albero in entrata:
Albero pieno con scanalatura per chiavetta [ ]
Albero pieno senza scanalatura per chiavetta [ ]
Albero speciale [ ]
Braccio di torsione necessario Si[ ] No[ ]

Alimentazione elettrica:
Monofase in CA [ ] Trifase in CA [ ] CC [ ]
Tensione.....Volt
Frequenza..... Hz

Classe di protezione:
IP55 [ ] IP65 [ ] Antidefl. [ ]
Altra classe IP.....

Allegati:
Diagramma di carico [ ]
Progetto [ ]
Dimensioni richieste [ ]
Specifiche tecniche [ ]

Note:

Gearbox Selection Form

Industry sector.....
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 cylinders [ ]
Piston Engine with 4-24 cylinders [ ]

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 [ ]

Start-ups 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 Start-up 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 [ ]
Parallel Shaft with Torque Arm [ ]
Shrink 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 [ ]
Parallel Shaft with Shrink Disc [ ]
Parallel 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 [ ]
Kolbenmaschinen mit 1-3 Zylinder [ ]
Kolbenmaschinen 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:

Note / *Notes* / Notizen



Informazioni generali
General Information
Einführung

Lubrificazione

Affinché il regolatore possa lavorare nelle condizioni migliori e il più a lungo possibile bisogna utilizzare il tipo di lubrificante adeguato e sostituirlo con regolarità.

Quando si sceglie l'olio da utilizzare è importante tener conto di fattori quali la velocità di rotazione, la temperatura ambiente, la temperatura dell'olio nel riduttore, le condizioni di lavoro e la durata che ci si aspetta dal lubrificante. Tutti gli apparecchi vengono riempiti di olio lubrificante prima di essere spediti. Se il riduttore deve essere stoccato in magazzino per lungo tempo o prima di metterlo in funzione rimuovere il tappo superiore (a seconda della posizione di lavoro) e sostituirlo con il tappo di sfiato supplementare fornito a corredo. Questo evita che si crei sovrappressione nell'apparecchio, con conseguenti perdite di olio.

L'olio lubrificante per la linea standard è specificato nella tabella a pagina seguente relativa ai lubrificanti standard. Verificare sulla targhetta apposta direttamente sul riduttore qual è il tipo di olio da utilizzare per lo specifico riduttore. I riduttori montati su piedini e quelli montati con flangia vengono riempiti con olio adatto per la posizione di montaggio M1. Se la posizione di montaggio è diversa, fare riferimento alla tabella nelle pagine seguenti. Per condizioni di lavoro particolari vi invitiamo a contattarci.

Se il lubrificante è di tipo minerale va sostituito ogni 10.000 ore di servizio, se invece è di tipo sintetico ogni 20.000 ore. In presenza di condizioni di lavoro estremamente gravose (p.es. forti escursioni termiche, alto tasso di umidità) si consiglia di ridurre i tempi tra una sostituzione e l'altra. L'olio minerale e quello sintetico non devono essere mischiati. Quando si procede alla sostituzione dell'olio lubrificante si consiglia di effettuare anche una pulizia completa. La sostituzione dell'olio è bene venga fatta al termine di una fase di lavoro perché, in queste condizioni, l'olio è caldo e le impurità sono in sospensione. La regolare sostituzione dell'olio permette al riduttore di lavorare con risultati migliori e all'olio di defluire facilmente.

Lubrication

To work in perfect condition and ensure gearbox long life, the lubricant must be chosen correctly and changed in time.

When selecting the oil it is important to consider speed, ambient temperature, gearbox oil temperature, 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 vent plug must be replaced. This prevents excessive pressure which causes oil leakages.

The lubricant for the standard line is shown on the table on next page for standard fillings. Please look at the label of your gear unit to check the oil type for filling the gear unit. The foot mounting gearboxes and flange mounted gearboxes are filled for M1 mounting position.. 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 every 10.000 service hours and the synthetic lubricant should be changed 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. When changing the lubricant a complete cleaning is recommended. The oil change should be done after a working period. Because oil in this condition is hot and the impurities are mixed with it. If oil is changed the unit will work with better results 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.

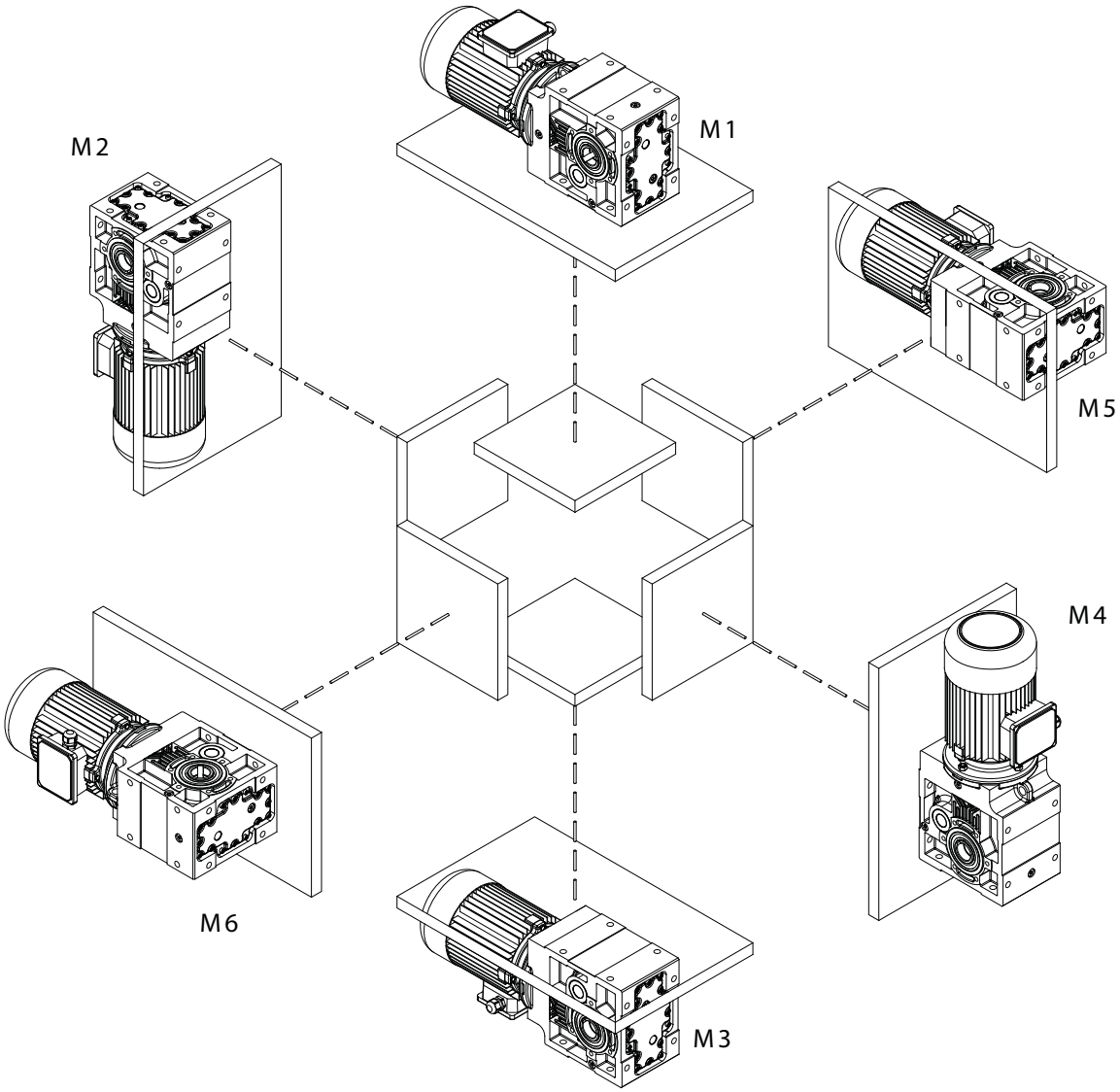
Ohne besondere Bestellangaben werden die Getriebe grundsätzlich mit den auf der folgenden Seite in der grau unterlegten Spalte angegebenen Schmierstoffen gefüllt. Bitte im Getriebe verwendetes Öl von dem Namenschild ablesen. Die fußbefestigten Getriebe sind befüllt für Bauform und die flanschbefestigten 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.

Tipi di olio / *Oil Types* / Schmierstoffe

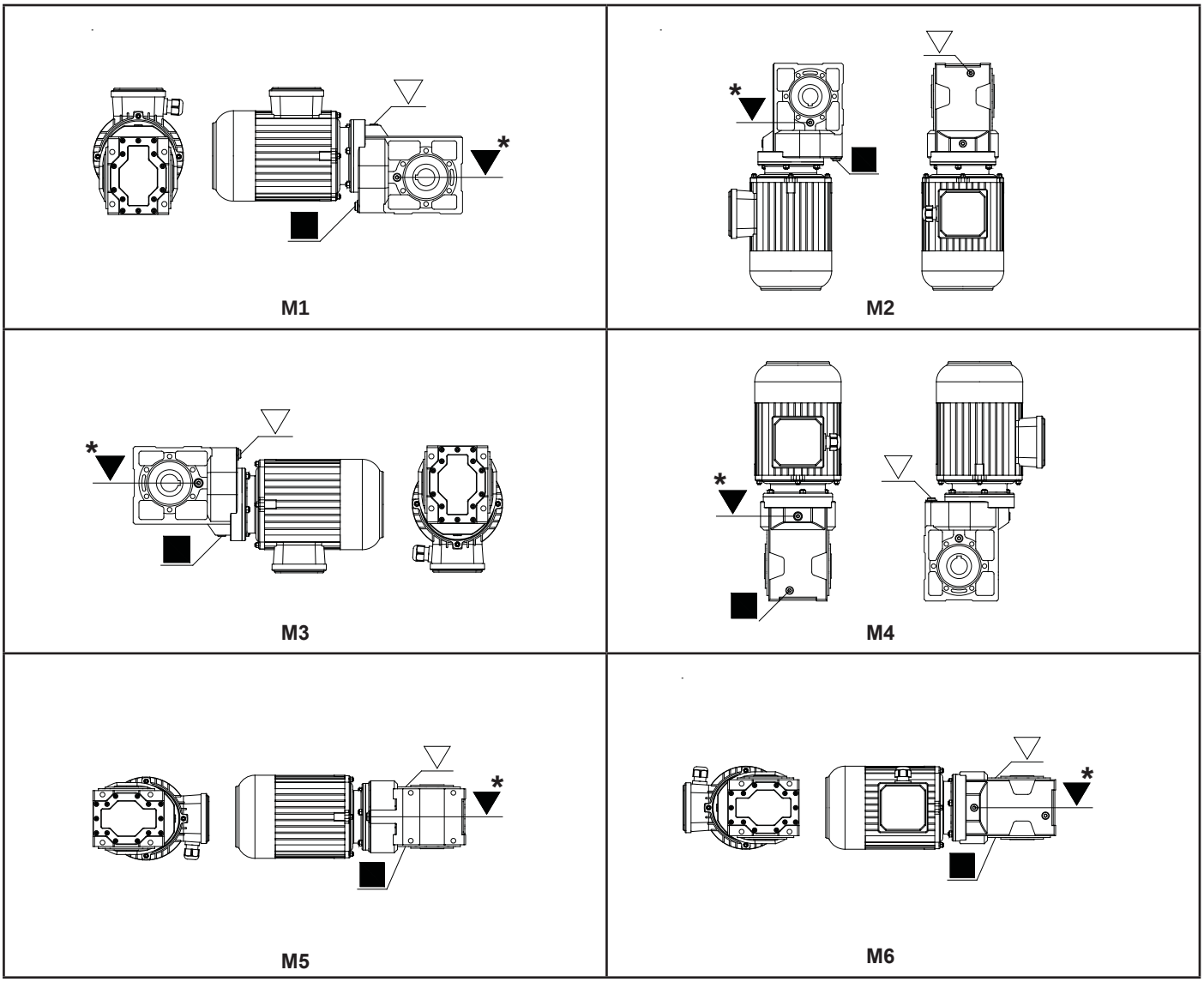
Lubrificante *Lubricant* Art des Schmiers	**DIN 51517-3**	**Temp. ambiente [°C]** *Ambient Temp. [°C]* Umgebungstemp. [°C] / **Lubrificazione per immersione** *Dip Lubrication* Tauchschmier.	**ISO VG**	**Aral**	**Beyond Petroleum**	**Castrol**	**Klüber Lubrication**	**Mobil**	**Shell**	**Total**
Olio minerale *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	Mobilgear XP 100	Omala 100	Carter EP 100
Olio sintetico *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	Mobil Glygoyle 30	Tivela S 220	Carter SY 220
		-35 ... +20	150	Degol GS 150	Energsyn SG-XP 150	Aphasyn PG 150	Klübersynth GH 6 -150	Mobil Glygoyle 22	Tivela S 150	Carter SY 150
		-40 ... +10	100	–	–	–	Klübersynth GH 6 -100	Mobil Glygoyle 100	–	–
	CLP HC	-10 ... +60	680	–	–	–	Klübersynth GEM 4-680 N	Mobilgear SHC Gear 680	–	Carter SH 680
		-20 ... +50	460	Degol PAS 460	Enersyn EP-XF 460	Alphasyn T 460	Klübersynth GEM 4-460 N	Mobilgear SHC Gear 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 Gear 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 Gear 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 Gear 150	Omala HD 150	Carter SH 150
		-40 ... +10	100	–	–	–	Klübersynth GEM 4-100 N	Mobil SHC 627	–	–
Olio alimentare *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
Olio biodegradabile *Biodegradable Oil* Biologisch abbaubares Öl	**CLP E**	-25 ... +40	320	–	–	Tribol BioTop 1418-320	Klübersynth GEM 2-320	–	–	Carter Bio 320
Grasso minerale [temperatura di esercizio -20 .... +120°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
Grasso sintetico [temperatura di esercizio -30 .... +100°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

Posizioni di montaggio / *Mounting Positions* / Bauformen



Le posizioni di montaggio M1 a M6 ipotizzate sono raffigurate come riferimento della posizione direzionale del riduttore. Le superfici di montaggio non sono vincolanti.
The supposed 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. Tappi di livello olio per riduttori ad assi ortogonali bi-/tristadio
K.00. - K.20. Two - Three Stage Helical-Bevel Geared Motor Oil Level Plugs
K.00. - K.20. Zwei-Dreistufig Stirn-Kegelradgetriebe Ölverschlußschrauben



*: **Questo tappo non è presente nei tipi K002 e K003. Fare riferimento alle quantità di olio.**

*: *For K002 and K003 this plug does not exist. Please refer to oil quantities.*

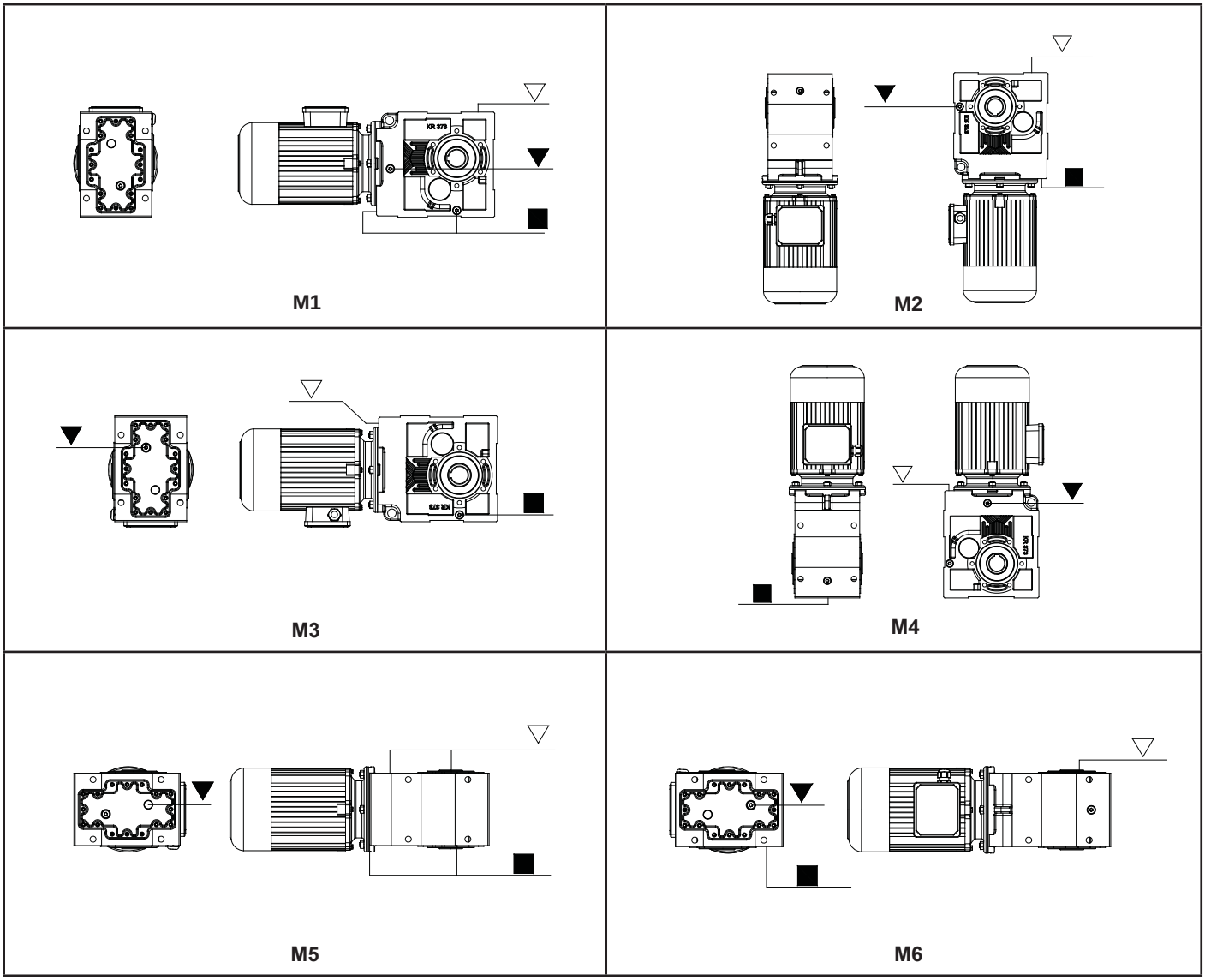
*: Bei K002 und K003 eksistiert dieser Ölstandschraube nicht. Bitte nach Ölmenge füllen.

Quantità di olio (l) / *Oil Quantities (lt)* / Ölmengen (liter)

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

Simboli : **: Tappo di scarico** **: Riempimento olio e tappo di sfiato** **: Livello olio**
Symbols : ■ : *Drain plug* ∇ : *Oil Filling and Vent plug* ▼ : *Oil level*
Symbole : : Ölauslass : Ölfüllung und Entlüftung : Ölstand

K.273 - K.873 Tappi di livello olio per riduttori ad assi ortogonali tristadio
K.273 - K.873 Three Stage Helical-Bevel Geared Motor Oil Level Plugs
K.273 - K.873 Dreistufig Stirn-Kegelradgetriebe Ölverschlußschrauben



Quantità di olio (l) / *Oil Quantities (lt) / Ölmengen (liter)*

Tipo /*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

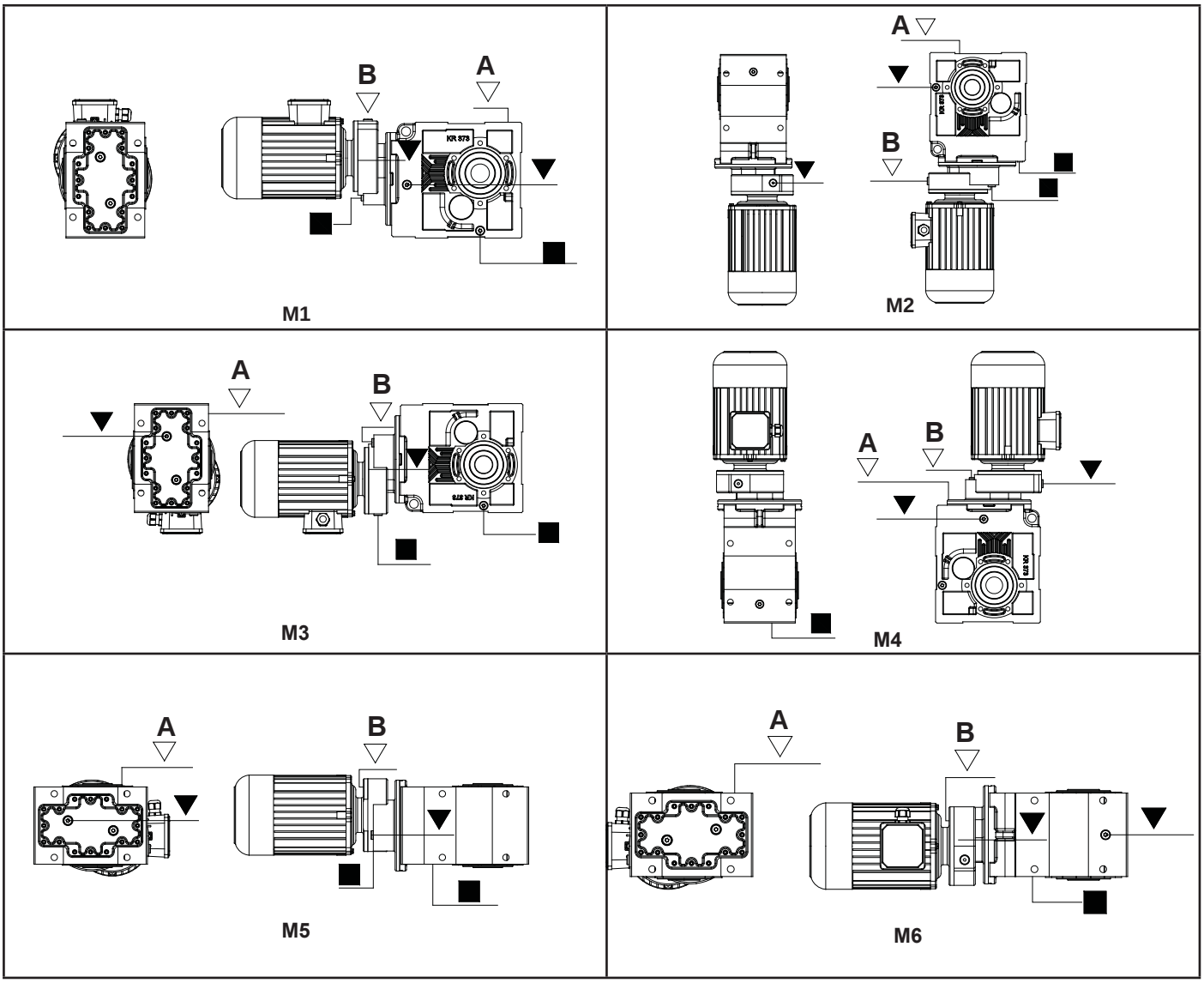
Simboli :
Symbols :
Symbole :

■ **: Tappo di scarico**
: *Drain plug*
: Ölauslass

▽ **: Riempimento olio e tappo di sfiato**
: Oil Filling and Vent plug
: Ölfüllung und Entlüftung

▼ **: Livello olio**
: Oil level
: Ölstand

K.374 - K.874 Tappi di livello olio per riduttori ad assi ortogonali a quattro stadi
K.374 - K.874 Four Stage Reduction Helical-Bevel Geared Motor Oil Level Plugs
K.374 - K.874 Vierstufig Stirn-Kegelradgetriebe Ölverschlußschrauben



Quantità di olio (l) / *Oil Quantities (lt) / Ölmengen (liter)*

Tipo /*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

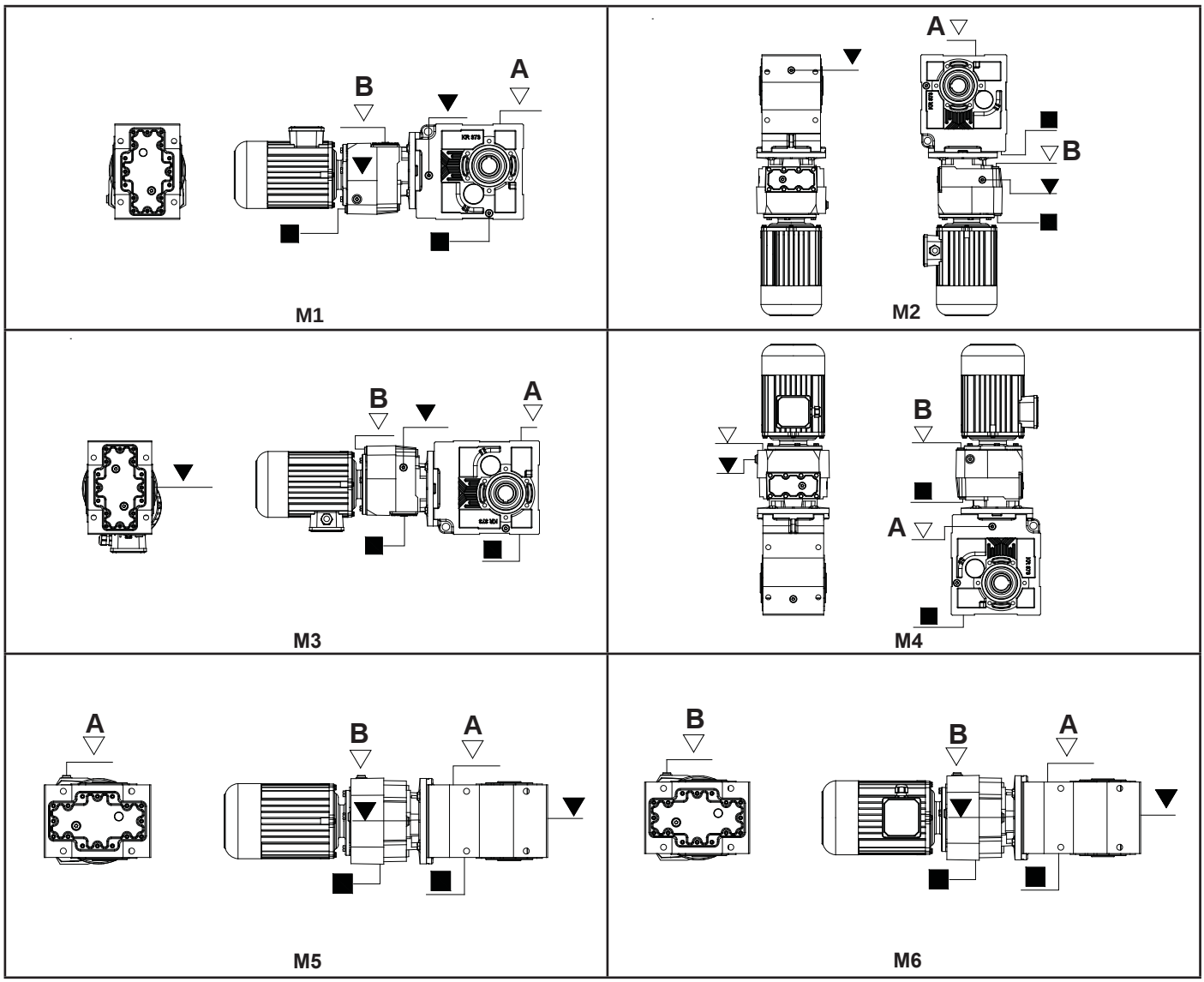
Simboli :
Symbols :
Symbole :

■ : **Tappo di scarico**
: *Drain plug*
: Ölauslass

▽ : **Riempimento olio e tappo di sfiato**
: *Oil Filling and Vent plug*
: Ölfüllung und Entlüftung

▼ : **Livello olio**
: *Oil level*
: Ölstand

K.27. - K.87. Tappi di livello olio per riduttori ad assi ortogonali a cinque-sei stadi
K.27. - K.87. Five-Six Stage Helical-Bevel Geared Motor Oil Level Plugs
K.27. - K.87. Fünf-Sechsstufig Stirn-Kegelradgetriebe Ölverschlußschrauben



Quantità di olio (l) / *Oil Quantities (lt)* / *Ölmengen (liter)*

Tipo /*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

Simboli :
Symbols :
Symbole :

■ **: Tappo di scarico**
: Drain plug
: Ölauslass

▽ **: Riempimento olio e tappo di sfiato**
: Oil Filling and Vent plug
: Ölfüllung und Entlüftung

▼ **: Livello olio**
: Oil level
: Ölstand

MOTORI
Motori CA
a- Caratteristiche generali:

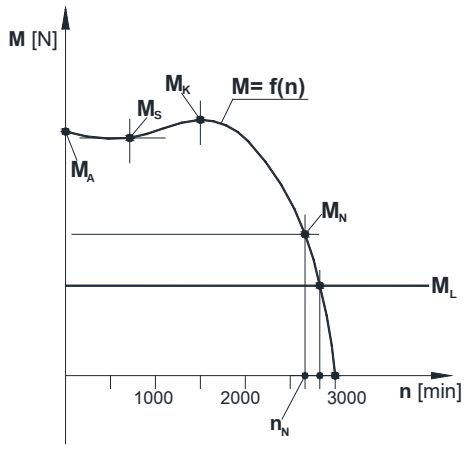
Grazie alla sua semplicità di costruzione, al fatto che non necessita di manutenzione, alla sua buona affidabilità e al prezzo interessante, il motore trifase a gabbia di scoiattolo è uno dei motori elettrici maggiormente utilizzati. Il comportamento di un motore trifase a gabbia di scoiattolo durante il funzionamento è rappresentato dalla curva caratteristica coppia-velocità. La figura qui sotto ne mostra un esempio.

MOTORS
AC Motors
a- General Specifications:

Due to 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 operating 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: **Coppia di avviamento** / *Starting torque* / Anlaufmoment

M_S: **Coppia d'insellamento** / *Pull-up torque* / Anziehungsmoment

M_K: **Coppia massima** / *Pull -out torque* / Bremsmoment

M_N: **Coppia nominale motore** / *Motor rated torque* / Treibmoment

M_L: **Coppia di carico** / *Load torque* / Lastmoment

Il motore segue questa coppia caratteristica finché non raggiunte il punto di stabilizzazione ogni volta che viene acceso. Il punto di funzionamento è il punto in cui la curva della velocità istantanea interseca la linea della coppia di carico M_L.
Il campo magnetico all'interno dello statore ruota a una velocità sincrona n_s. Lo sfasamento di ciascun polo è di 120° nei motori trifase.

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

f.....: frequenza di alimentazione [Hz]
p_s.....: numero dei poli dello statore

Attivato dal campo magnetico alternato presente al suo interno, il rotore inizia a ruotare nella stessa direzione seguita dal flusso nello statore e cerca di mettersi alla pari del flusso rotante. Il rotore non raggiunge mai il campo statorico. Il rotore avanza a una velocità inferiore a quella del campo statorico. Questa velocità è nota come velocità base n_N.
Una diminuzione del carico porterà il rotore ad accelerare o a ridurre lo scorrimento. Lo scorrimento è definito come segue:

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

A seconda dello scorrimento, i valori nominali del motore elettrico possono modificarsi come segue:
Scorrimento s .....:± 20%
Corrente di avviamento.....:± 20%
Coppia di avviamento .....:-15 /+25%
Momento di inerzia.....:± 10%
Rendimento (fino a 37 kW).....:-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 working 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 known as 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%
Start-up current.....:± 20%
Start-up 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. Phasen-verschiebung 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:

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

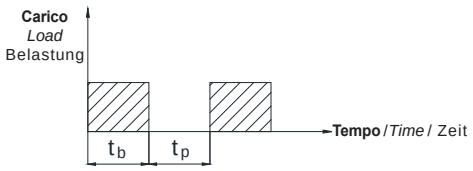
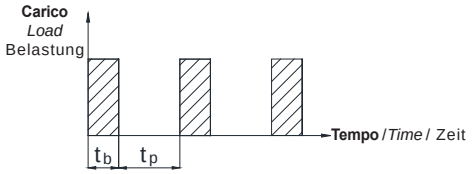
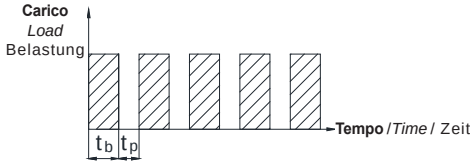
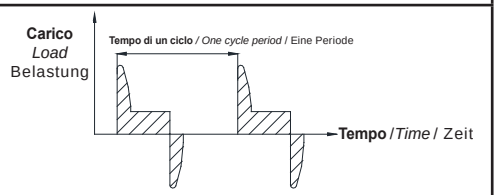
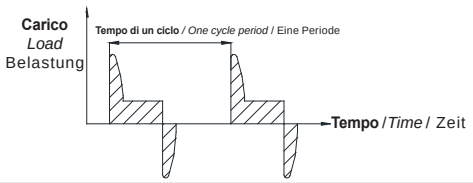
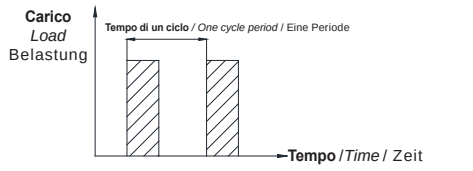
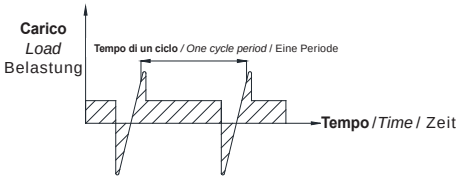
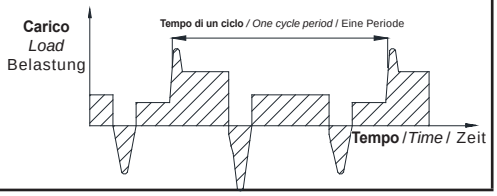
Für die nominale Werte der Drehstrommotoren sind folgende Abweichungen zulässig:

Schlumpf s .....:± 20%
Anzugsstrom .....:± 20%
Anzugsmomet .....:-15 /+25 %
Massentägheitsmoment .....:± 10%
Wirkungsgrad (bis 37 kW).....:-0,15 (1-η)

b- Modalità di funzionamento
Tutti i motori presentati in questo catalogo sono stati predisposti per operare in servizio S1 (servizio continuativo). Altri tipi di servizio sono riportati nella tabella seguente.

b-Modes of Operation
All motors of the catalog have been arranged 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.

Servizio *Operation* Betriebsarten	**Spiegazione** *Explanation* Erläuterung	**Diagramma di carico** *Load Chart* Lastverläufe
S1	**Servizio continuativo con carico costante** *Continuous operation under constant load* Dauerbetrieb mit konstanter Belastung	
S2	**Servizio di durata limitata con carico costante** *Short-time duty under constant load* Kurzbetrieb mit konstanter Belastung	
S3	**Servizio periodico senza avviamenti che influiscono sulla temperatura** *Periodic duty without influence of start-up on temperature* Aussetzbetrieb ohne Einfluß des Anlaufens auf die Temparatur	
S4	**Servizio periodico con avviamenti che influiscono sulla temperatura** *Periodic duty with influence of start up on temperature* Aussetzbetrieb mit Einfluß des Anlaufes auf die Temparatur	
S5	**Servizio periodico con avviamenti e frenature che influiscono sulla temperatura** *Periodic duty with influence of startup and braking on temp.* Aussetzbetrieb mit Einfluß des Anlaufens / Bremsung auf die Temp.	
S6	**Servizio continuativo con carico intermittente** *Continuous operation with intermittent loading* Durchlaufbetrieb mit Ausetzungsbelastung	
S7	**Servizio continuativo con carico intermittente e frenature** *Continuous operation with intermittent loading and breaking* Ununterbrochener Betrieb mit Anlauf und Bremsung	
S8	**Servizio di tipo continuativo con variazioni correlate di carico e velocità** *Continuous operation duty type with related load-speed changes* Ununterbrochener periodischer Betrieb mit Drehzahländerung	

c- Classe di protezione:
Brevini Power Transmission S.p.A. utilizza di serie motori elettrici con classe di protezione IP54 (IEC 34-5). Se sono richieste classi di protezione diverse, vi invitiamo a contattarci.

d- Classe di isolamento:
Brevini Power Transmission S.p.A. utilizza di serie motori elettrici con classe di isolamento F (IEC 317-8). Su richiesta, è disponibile anche la classe di isolamento H.

e- Classi di rendimento:
Il metodo per misurare il rendimento dei motori asincroni trifase in bassa tensione è stato modificato con l'entrata in vigore della nuova norma IEC 60034-2-1:2007. La nuova classe IE si applica per i motori CA di potenza compresa tra 0,75 e 375 kW. Diversamente da quanto avviene per la classe EFF, la classe IE può essere utilizzata per motori CA a 6 poli. Riportiamo qui sotto la tabella delle classi di rendimento. Le direttive per le classi di rendimento possono essere diverse da un Paese all'altro. Vi invitiamo a contattarci se avete bisogno di maggiori informazioni. I requisiti concernenti il rendimento dei motori che sono completamente integrati in un prodotto (p.es. riduttore, pompa) e il cui rendimento energetico non può quindi essere identificato separatamente non si applicano in Europa.

c- Protection Class:
Brevini Power Transmission S.p.A. uses IP54 (IEC 34-5) protection class electric motors for standard products. If different kind of protection class is required please contact us.

d- Insulation Class:
Brevini Power Transmission S.p.A. uses F (IEC 317-8) insulation class electric motors for standard products. H insulation class is available upon request.

e- Efficiency Classes:
The method for measuring the low voltage three-phase asynchronous motors efficiency was revised with the new IEC 60034-2-1:2007 standard. The new IE class is valid for AC Motors in power range from 0,75 to 375 kW. Unlike the EFF class IE class 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. The efficiency requirements for motors, which are fully integrated into a product (for example gear, pump) so their energy efficiency can not be recognized independently, are not valid in Europe.

c- Schutzarten:
Brevini Power Transmission S.p.A. Getriebemotoren werden serienmäßig mit Schutzart IP54 (IEC34-5) ausgeführt. Für andere Schutzarten bitte rückfragen.

d- Isolationsklasse:
Brevini Power Transmission S.p.A. Getriebemotoren werden serienmäßig in Wärmeklasse F (IEC317-8) ausgeführt. H Wärmeklasse ist möglich auf Kundenwunsch.

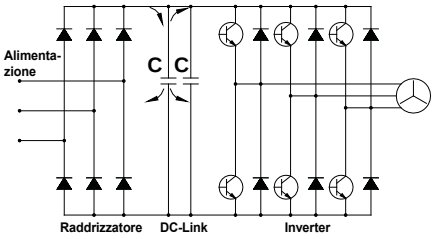
e- Energieeffizienzklassen:
Die Methode für Messung die Effizienz von drei phasigen gering Spannung Asynchronmotoren hat neu mit IEC 60034-2-1:2007 Norm festgestellt. Die neue IE-Klassen gelten für alle Drehstrommotoren im Leistungsbereich von 0,75 bis 375 kW. Anders als EFF-Klassen die IE-Klassen können 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.

Classi di rendimento *Efficiency Classes* Energieeffizienzklassen			**Calcolo dei valori di rendimento di motori a 4 poli** *Calculating Efficiency Values of 4-Pole Motors* Berechnung der Wirkungsgrade von Elektromotoren mit 4 Polen	
IE1	EFF 2	**Rendimento standard** *Standard 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	**Rendimento elevato** *High Efficiency* Hohe Energieeffizienz	A=0,0278 B=-1,9247 C=10,4395 D=80,9761	P_L : **Carico nominale [kW]** / *Nominal Load [kW]* / Nennlast [kW]
IE3	-	**Rendimento Premium** *Premium Efficiency* Premium Energieeffizienz	A=0,0773 B=-1,8951 C=9,2984 D=83,7025	η_{Mn} : **Rendimento nominale [kW]** / *Nominal Efficiency [kW]* / Sollwirkungsgrad
IE4	-	**Rendimento Super Premium** *Super Premium Efficiency* Super Premium Energieeffizienz	-	

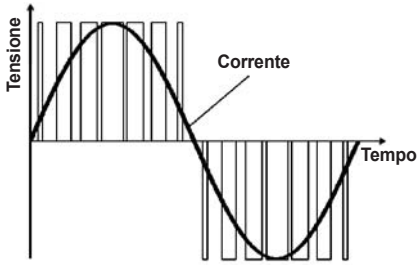
Valori di rendimento di motori a 4 poli *Efficiency Values of Motor with 4 poles* Sollwirkungsgrad des Motors mit 4 Polen	**Carico nominale [kW]** *Nominal Load [kW]* Nennlast [kW]	**Classe di rendimento** / *Efficiency Class* / Energieeffizienzklasse		
		IE1	IE2	IE3
	0,75	72,1%	79,6%	82,5%
	1,5	77,2%	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- Convertitori di frequenza in CA

Un convertitore elettronico che converte la corrente continua (CC) in corrente alternata (CA) è chiamato inverter. I controller elettronici di velocità per motori CA generalmente convertono la corrente CA in corrente CC utilizzando un rettificatore, dopodiché la riconvertono in corrente CA a frequenza e tensione variabili utilizzando un inverter bridge. Il collegamento tra il rettificatore e l'inverter è chiamato DC-link. Qui sotto è raffigurato lo schema a blocchi di un controller di velocità (spesso chiamato inverter).

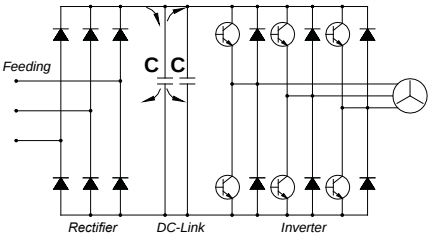


La corrente trifase arriva a un raddrizzatore a onda intera che, a sua volta, alimenta i condensatori del DC-link. I condensatori riducono l'ondulazione della tensione (soprattutto con alimentazioni singole) e forniscono energia da utilizzare in caso di brevi interruzioni di corrente. La tensione nei condensatori non è controllata e varia in funzione del picco della tensione di alimentazione in CA. La tensione in CC viene riconvertita in tensione in CA utilizzando la modulazione ad ampiezza di impulsi (Pulse Width Modulation, PWM). La forma d'onda desiderata si ottiene attivando e disattivando i transistor in uscita (Transistor bipolari a gate isolato; IGBTs, Insulated Gate Bipolar Transistors in inglese) con una frequenza fissa (frequenza di commutazione). Variando la frequenza di attivazione e disattivazione degli IGBT si riesce a generare la corrente desiderata. La tensione in uscita corrisponde a una serie di impulsi ad onda quadra e l'induttanza degli avvolgimenti del motore determina una corrente sinusoidale nel motore stesso. La figura qui sotto mostra la modulazione ad ampiezza di impulsi.

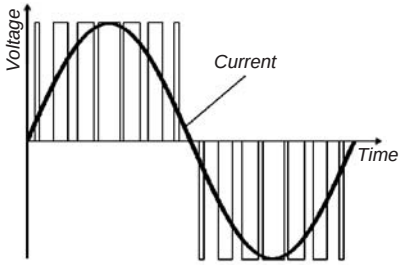


f- AC Frequency Inverters

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 converts it back to a variable frequency, variable voltage AC supply using an inverter bridge. The connection between the rectifier and inverter is called DC link. The block diagram of a speed controller (often called inverter) is shown below.

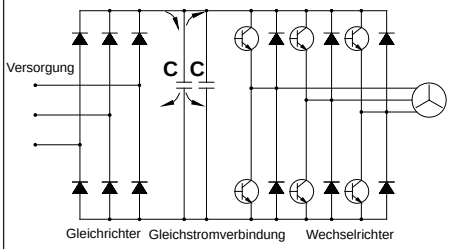


The three phase supply is fed into a full wave rectifier which supplies the DC link capacitors. The capacitors reduce the voltage ripple (especially on single supplies) and supply energy for short mains breaks. The voltage on the capacitors is uncontrolled and depends on the AC supply voltage peak. The 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 (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 sinusoidal motor current. Pulse Width Modulation is shown in the figure below.

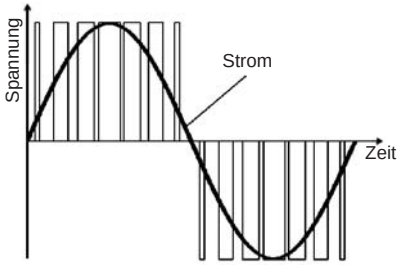


f- AC Frequenz Umrichter

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



MOTORI CC

a- Caratteristiche generali dei motori CC

A seguito dello sviluppo del settore dei componenti elettronici, i sistemi di azionamento a CC hanno trovato nuove possibili applicazioni. Ciò che un tempo era estremamente costoso e in alcuni casi economicamente non fattibile, oggi viene realizzato grazie alla tecnologia dei convertitori di potenza miniaturizzati. Ulteriori funzioni quali l'avviamento guidato dopo un tempo prestabilito, il monitoraggio delle coppie e della corrente con dispositivi elettronici di protezione contro i sovraccarichi e molte applicazioni tutt'altro che costose hanno fatto crescere l'interesse per i sistemi di azionamento in CC.

b- Principi di funzionamento dei motori CC

Il motore CC ha bisogno di un convertitore con uscita in CC. Il motore include degli avvolgimenti come per esempio quelli di indotto, di campo, di commutazione e di compensazione, che sono posizionati sia nello statore che sul rotore. Il rotore viene alimentato in tensione e corrente tramite le spazzole al carbonio e il commutatore. Le spazzole al carbonio sono componenti soggetti a usura, pertanto un motore CC necessita di interventi di manutenzione a intervalli stabiliti. Per via delle sue buone caratteristiche di controllo, il motore CC è un elemento essenziale della tecnologia dell'automazione.

c- Tipi di motori CC

A seconda del cablaggio dell'avvolgimento di eccitazione o dell'avvolgimento di campo si distinguono due varianti sostanzialmente diverse sotto il profilo delle caratteristiche di coppia e velocità di rotazione.

d- Controllo della velocità di rotazione dei motori CC

Nei motori CC la velocità di rotazione viene regolata modificando la tensione CC. I motori CC eccitati in derivazione funzionano in maniera simile ai motori trifase a induzione in servizio senza carico e con carico massimo. La velocità di rotazione diminuisce man mano che aumenta il carico sul motore. Questa differenza è maggiore nei motori di piccole dimensioni, ed è minore nei motori di dimensioni più grandi. La differenza di velocità di rotazione può essere compensata nel convertitore CC regolando (I x R). Laddove è necessaria una grande precisione di controllo, si può utilizzare un controller di velocità con misurazione dei valori effettivi da parte di una dinamo tachimetrica. Potenza di un motore CC:

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

P_g : Potenza in entrata W
P_c : Potenza in uscita W
U : Tensione di armatura V
I : Corrente di armatura A
η : Rendimento motore

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 the miniaturized 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 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 the 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. Due to 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 regarding torque speed characteristics may be distinguished.

d- DC motors Speed Control

In DC motors the speed is adjusted by altering the DC voltage. DC shunt wound motors operate similarly to three phase induction motors in no load and maximum load operation. The speed drops with increased loading on the motor. This difference is greater in small motors and smaller in larger motors. The speed difference can be 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

Freni elettromagnetici

Questo tipo di freni ha due superfici di attrito. Se non viene applicata tensione, la coppia frenante viene generata da molle. Il freno è azionato elettromagneticamente. Eccitando l'unità elettromagnetica di corrente l'ancora viene attirata verso l'elettromagnete, caricando con spinta assiale la molla di pressione e consentendo al disco frizione, che può muoversi sulla chiavetta in direzione assiale, di ruotare liberamente. In caso di assenza di corrente, le molle pressurizzate azionano l'ancora spingendola verso il disco, frenando così l'albero motore.

Tipi di freni
a) Freni senza raffreddamento
Questo tipo di freno viene montato sulla calotta posteriore del motore elettrico. In questo caso il motore è privo di ventola. Questo tipo di freno viene generalmente scelto quando si hanno tempi di funzionamento brevi e cicli di lavoro corti.
b) Freni con ventola di raffreddamento
Questo tipo di freno viene montato sulla calotta posteriore del motore elettrico togliendo la ventola del motore elettrico. Al lato posteriore del freno viene fissata una ventola allungando l'albero del rotore del motore elettrico. Si preferisce utilizzare freni con ventola di raffreddamento quando si hanno lunghi tempi di funzionamento e il motore è installato in ambienti chiusi privi di ventilazione.
c) Freni con azionamento manuale
Questo freno può essere azionato a mano. Può essere montato su entrambe le tipologie di freni sopra descritte e utilizzato in casi particolari (mancanza di corrente elettrica, problemi meccanici, ecc.). Questi freni vengono generalmente scelti se c'è bisogno di poterli utilizzare (azionare) in assenza di corrente (porte a controllo automatico, cancelli, elevatori per operazioni di verniciatura dei muri di edifici, ecc.).

Tensioni di esercizio
I freni elettromagnetici possono essere ordinati nelle versioni con tensione di alimentazione da 230 V CA o 400 V CA. La bobina dei freni ha bisogno di tensione CC pertanto, a seconda del tipo di freno, è opportuno inserire un raddrizzatore a mezz'onda, un raddrizzatore a onda intera o un trasformatore tra la tensione di alimentazione e la tensione della bobina. In assenza di specifica richiesta, i freni vengono forniti come standard con una tensione di alimentazione a 230 V e un raddrizzatore a mezz'onda. Per applicazioni particolari si prega contattare Brevini Power Transmission S.p.A.
a) <u>Freni con tensione di alimentazione a 230 V</u>
La tensione di alimentazione in CA a 230 V proveniente dalla morsettiera del motore viene portata alla tensione idonea per la bobina da un raddrizzatore a mezz'onda o a onda intera, a seconda del tipo di freno. La tensione CC della bobina del freno è indicata sulla targhetta.
B) <u>Freni con tensione di alimentazione a 400 V</u>
La tensione di alimentazione in CA a 400 V proveniente dalla morsettiera del motore viene portata alla tensione idonea per la bobina da un raddrizzatore a mezz'onda. La tensione CC della bobina del freno è indicata sulla targhetta.
c) <u>Freni in CC a 24 V</u>
Le dimensioni del trasformatore sono scelte in base al valore della coppia frenante. La corrente viene presa dalla morsettiera del motore elettrico o dal quadro elettrico e viene trasformata in corrente CC a 29 V. Questa, a sua volta, viene trasformata in corrente CC a 24 V con un raddrizzatore a mezz'onda e va ad alimentare la bobina del freno.

Electromagnetic Brakes

This type of brake has two friction surfaces. The brake torque is generated by springs when no voltage is applied. The brake is electromagnetically released. On exciting the current electromagnet unit, 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. In case of current failure, the pressured springs drive the armature plate towards the disc, thus braking the motor shaft.

Brake Types
a) Brakes without cooling
This type of brake is 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 brake is 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 brake can be released by using an arm. It can be applied to both above mentioned brakes and used in special cases (electric current failure, mechanical problems etc.). These brakes are mostly preferred if operation (releasing) without 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 the 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 Brevini Power Transmission S.p.A..

a) <u>Brakes with 230V supply voltage</u>
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) <u>Brakes with 400V supply voltage</u>
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) <u>24V DC Brakes</u>
The transformer size is selected according to the brake torque value. 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 the 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) <u>Bremsen mit 230V Versorgungsspannung</u>
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) <u>Bremsen mit 400V Versorgungsspannung</u>
400V AC Versorgungsspannung von Klemmenkasten wird auf die Wicklungsspannung mit Halbwellengleichrichter reduziert. Wicklungsspannung ist auf dem Etikett angegeben.

c) <u>24 V DC Bremsen</u>
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) <u>Trasformatore generante tensioni d'urto</u>
I freni che hanno potenza e coppie elevate impiegano molto tempo per generare il campo elettromagnetico. I trasformatori generanti tensioni d'urto provvisti di relè temporizzato servono per vincere la pressione della molla che ritarda l'azionamento dei freni. Questi trasformatori, inoltre, aprono repentinamente il sistema applicando una tensione di alimentazione doppia (in CC a 48 V) per un breve lasso di tempo e impedendo le perdite di attrito che si verificano quando l'apertura è rallentata.

Tipi di connessione
a) Frenatura ritardata
Generalmente questo tipo di connessione viene utilizzato per sistemi in cui è richiesta una frenatura lenta e graduale. Tipo di connessione ritardata usata per prevenire carichi con urti in sistemi di azionamento di gru. In assenza di richieste diverse da parte del cliente, vengono montati freni con connessione ritardata

b) Immediata/Rapida
Questo tipo di connessione è generalmente adottata per sistemi in cui sono richiesti tempi di frenatura brevi. La coppia frenante si genera immediatamente nel momento in cui il sistema non riceve più corrente. Questi freni sono per lo più utilizzati per apparecchiature di sollevamento e ascensori.

d) <u>Shock voltage supply transformer</u>
Brakes which consist of high power and torques take long time to obtain the electromagnetic field. Shock voltage supply transformers with time relay aim to overcome spring pressure delaying for brakes. Also these transformers open the system suddenly by double power supply (48V DC) voltage in a short time and preventing frictional losses that occur in delayed opening.

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

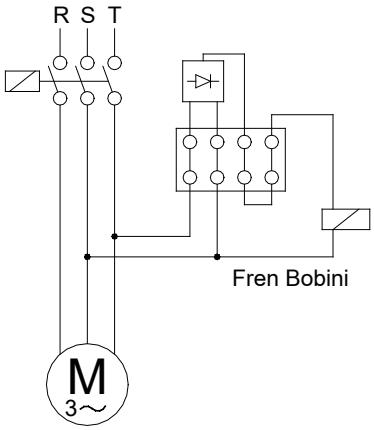
b) Immediate/Fast
This type of connection is mostly used in systems when short braking times are needed. The braking torque will be produced as soon as there is a current failure. These brakes are mostly used in hoisting operations of lifting units and elevators.

d) <u>Trafos mit Schock-Spannung</u>
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.

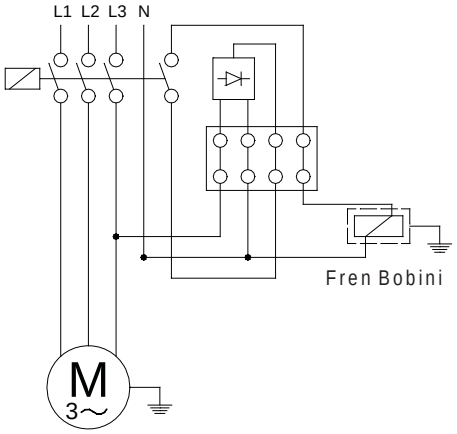
Schaltungsarten:
a) Verspätetes Bremsen
Diese Schaltung wird benutzt, wenn ein langsames und gleitendes Bremsen erforderlich ist. Am meisten wird es bei Fahrgetriebemotoren von Aufzügen verwendet. Wenn keine Angabe bei der Bestellung gegeben wird, werden die Bremsen mit verspäteter Schaltung geliefert.

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.

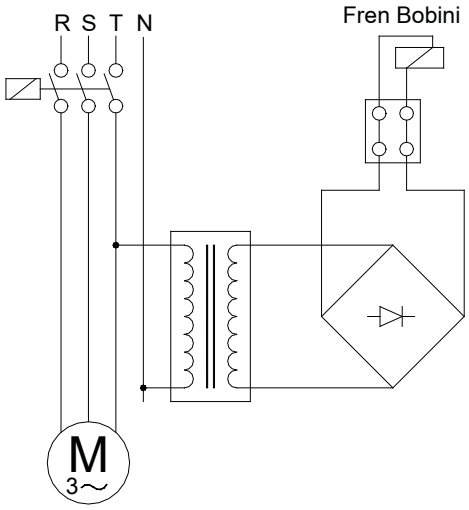
Frenata ad effetto ritardato / *Delayed Operation Brake* / Verspätete Bremsung
(230 V)



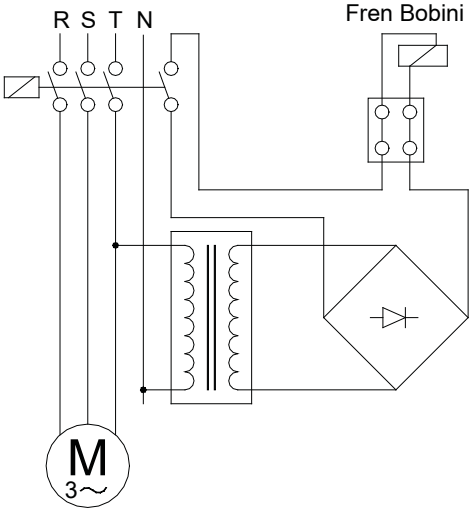
Frenata improvvisa / *Sudden Brake* / Plötzliche Bremsung
(230 V)



Frenata ad effetto ritardato / *Delayed Operation Brake* / Verspätete Bremsung
(24 V)



Frenata improvvisa / *Sudden Brake* / Plötzliche Bremsung
(24 V)





Informazioni generali
General Information
Einführung

Scelta dei freni:

Per scegliere correttamente i freni sono necessari i dati seguenti:

- I_{tot} **[kg . m²]** : **L'inerzia totale delle parti rotanti ridotta all'albero motore**
- n_0 **[giri/min.]**: **Velocità massima di rotazione del motore.**
- t_f **[s]** : **Il tempo massimo di frenata consentito.**
- c_t : **Coefficiente tempo di attivazione (valore medio 0,995).**
- M_L **[Nm]** : **Coppia statica richiesta per il sistema.**
- C_s : **Fattore di sicurezza ($C_s \geq 2$)**

La coppia frenante necessaria si calcola come segue:

a) La coppia di carico statica M_L, stesso senso di rotazione del motore (riduzione del carico o coppia resistente costante per favorire la rotazione del motore)

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

b) La coppia di carico statica M_L, opposta al senso di rotazione del motore (aumento del carico o coppia resistente costante per resistere alla rotazione del motore)

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

La coppia frenante necessaria si calcola con l'equazione seguente, utilizzando C_s ($C_s \geq 2$):

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

Scelta orientativa dei freni
Se si conoscono solo la potenza del motore e la sua velocità di rotazione massima:

W [Watt]: Potenza nominale motore

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

Brake Selection:

To correctly select a brake the following data is 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 braking time.*
- c_t : *Coefficient of switch on time (average 0.995).*
- M_L ***[Nm]*** : *Required static torque of the system.*
- C_s : *Safety coefficient ($C_s \geq 2$)*

The necessary braking torque is calculated below;

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

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

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

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

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
It is only the motor power and its maximum speed is 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;

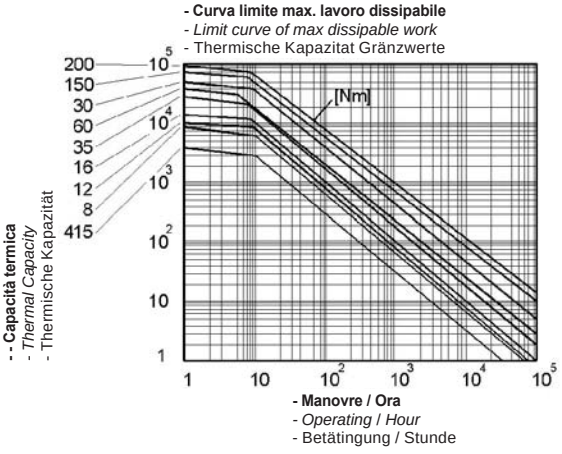
$$M_f = M_{fc} \times C_s$$

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

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

Freni Standard / *Standard Brakes* / Standart Bremsen

Coppia Frenante Statica [Nm] *Brake Static Torque [Nm]* Statische Bremskraft [Nm]	4,5	8	12	16	35	60	80	150	200
Coppia Frenante Dinamica [Nm] *Brake Dynamic Torque [Nm]* Dynamische Bremskraft [Nm]	3,6	6,4	9,6	12,8	28	48	64	120	160
Velocità di Rotazione Massima del Motore [giri/min.] *Maximum Motor Speed [rpm]* Maximale Motordrehzahl [U/min]	3000	3000	3000	3000	3000	3000	3000	1500	1500
Potenza in Entrata [W] *Input Power [W]* Antriebsleistung [W]	15	20	25	30	45	50	55	60	65



Capacità termica dei freni

Dopo aver effettuato i calcoli suddetti occorre verificare anche la capacità termica dei freni. L'energia di dissipazione del calore L (joule) la si può calcolare utilizzando l'equazione seguente, e va verificata se il risultato si situa al di sotto della curva limite illustrata nel diagramma "Curva limite max. lavoro dissipabile".

a) La coppia di carico statica M_L, favorisce la rotazione del motore (riduzione del carico)

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

b) La coppia di carico statica M_L, resiste alla rotazione del motore (aumento del carico)

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

c) La coppia di carico statica M_L, è costante e resiste o favorisce la rotazione del motore (eccetto aumento del carico)

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

Regolazione dell'air-gap:

Affinché le prestazioni dei freni rimangano inalterate per tutta la loro durata di vita è necessario che l'air-gap venga regolato dopo un certo numero di ore di lavoro. Vi invitiamo a contattarci per maggiori dati sull'air-gap e sull'intervallo di tempo tra una regolazione e l'altra.

Esempio di selezione:
Tempo massimo di frenata consentito 0,5 s
Velocità di rotazione del motore: 1400 giri/min.
Inerzia totale ridotta all'albero motore: 0,08 kgm^2

Coppia di lavoro richiesta: 50 Nm
Natura del carico: la direzione di carico è uguale alla direzione di rotazione del motore (processo di scarico: tempo di avvio-arresto per ora: 30)

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

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

In base alla tabella di selezione dei freni, la scelta si porta su un freno standard da 150 Nm.
Capacità termica necessaria

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

=1302,0<18000 Joule (dalla curva dei 150 Nm)
Il freno selezionato, da 150 Nm, è adeguato.

Brake Thermal Capacity

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 possible dissipable work".

a) The static load torque M_L , favors the motor rotation of the (load descent which favors the motor rotation)

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

b) The static load torque M_L , opposes the motor rotation (load lifting which opposes the motor rotation)

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

c) The static load torque M_L ,is constant and opposes or favors the motor rotation (except load lifting)

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

Adjustment of the air-gap:

In order to obtain the same performance from the brake during its lifetime,the brake air-gap 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:
Maximum permitted braking time for 0.5 s
Motor speed: 1400 rpm
Total inertia reduced at motor shaft: 0.08 kgm^2

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

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

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

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

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

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

Thermische Kapazität der Bremsen

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

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

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

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

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

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

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

Einstellung des Luftspaltes:

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

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

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

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

Eine Bremse von 150 Nm kann man auswählen.

Die thermische Kapazität;

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

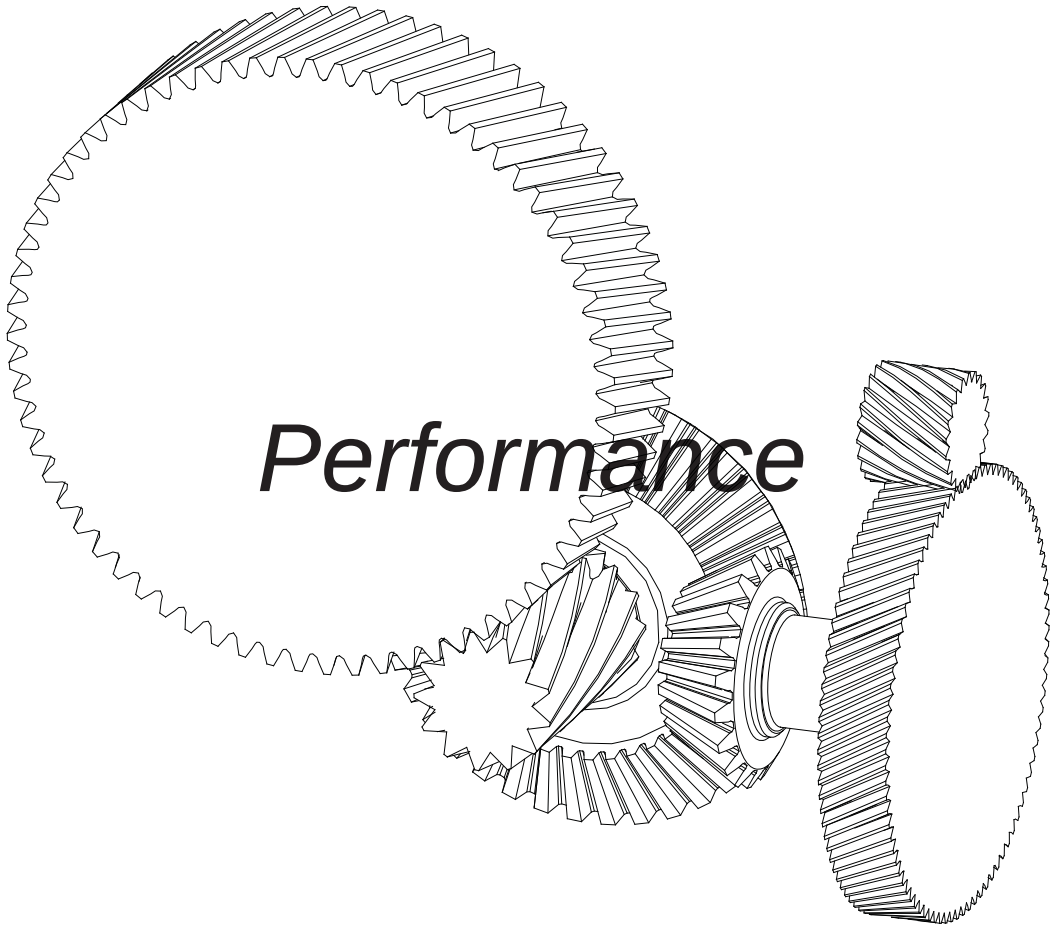
=1302,0<18000 Joule (von 150 Nm Kurve) Die ausgewählte 150 Nm Bremse ist ausreichend.

Note / *Notes* / Notizen

Note / *Notes* / Notizen

Note / *Notes* / Notizen

Prestazioni



Performance

Leistung und
Drehzahlübersicht



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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	777	**472,63**	22032	2,0	**KR474-71/6a**	0,61	98	122	KR013
	2,1	695	**422,88**	22449	2,2					
	2,4	611	**371,35**	22851	2,5					
	2,9	511	**310,16**	23301	3,0					
	3,1	483	**293,03**	23456	3,2					
	1,3	1123	**1094,97**	6953	0,7	**KR375-63/4b**	0,60	70	114	KR014
	1,4	994	**968,01**	9575	0,8					
	1,7	837	**814,20**	11846	1,0					
	2,0	712	**692,22**	13265	1,2					
	2,4	610	**593,11**	14238	1,3					
	2,4	604	**367,43**	14278	1,4	**KR374-71/6a**	0,61	60	110	KR015
	3,0	486	**295,76**	15262	1,7					
	3,5	427	**259,36**	15695	1,9					
	3,8	388	**367,43**	15965	2,1	**KR374-63/4b**	0,60	59	110	KR016
	4,7	313	**295,76**	16444	2,6					
	5,4	274	**259,36**	16666	3,0					
	2,4	589	**573,99**	11013	0,8	**KR275-63/4b**	0,60	29	102	KR017
	2,8	512	**498,55**	11626	0,9					
	3,2	449	**436,24**	12072	1,0					
	3,9	371	**360,73**	12546	1,2					
	4,7	310	**300,85**	12878	1,5					
	5,6	260	**252,20**	13141	1,7					
	6,5	223	**215,91**	13314	2,0					
	7,0	207	**200,35**	13385	2,2					
	7,9	190	**113,65**	13452	2,4	**KR273-71/6a**	0,61	21	98	KR018
	9,3	162	**96,68**	13566	2,8					
	11	140	**83,48**	13649	3,2					
	12	122	**113,65**	13715	3,7	**KR273-63/4b**	0,60	21	98	KR228
	14	104	**96,68**	13795	4,0					
	6,5	244	**138,53**	8460	1,1	**KR203-71/6a**	0,61	17	94	KR238
	7,5	211	**119,62**	9139	1,3					
	8,6	185	**104,49**	9589	1,5					
	9,2	173	**98,01**	9751	1,6					
	10	157	**138,53**	9876	1,8	**KR203-63/4b**	0,60	16	94	KR239
	12	135	**119,62**	9522	2,1					
	13	118	**104,49**	9196	2,4					
	14	111	**98,01**	9042	2,5					
	17	94	**83,32**	8656	3,0					
	8,5	185	**105,26**	4121	0,8	**KR103-71/6a**	0,61	13	90	KR240
	10	157	**88,87**	5320	0,9					
	11	146	**129,27**	5662	1,0	**KR103-63/4b**	0,60	12	90	KR241
	12	131	**116,34**	6004	1,1					
	13	119	**105,26**	6349	1,2					



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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	324	**138,53**	5913	0,9	**KR203-71/4b**	1,15	18	94	KR253
	12	280	**119,62**	7486	1,0					
	13	245	**104,49**	8073	1,1					
	14	230	**98,01**	7994	1,2					
	17	196	**83,32**	7778	1,4					
	19	170	**72,37**	7570	1,6					
	22	149	**63,33**	7362	1,9					
	27	123	**52,37**	7054	2,3					
	32	103	**43,67**	6753	2,7					
	37	90	**38,16**	6458	3,1					
	18	178	**76,13**	4454	0,8	**KR103-71/4b**	1,15	14	90	KR254
	21	158	**67,22**	5283	0,9					
	22	147	**62,79**	5610	1,0					
	26	125	**53,07**	6252	1,1					
	32	104	**44,32**	6029	1,3					
	37	90	**38,22**	5836	1,5					
	40	83	**35,22**	5728	1,6					
	43	77	**32,90**	5636	1,7					
	50	65	**27,81**	5409	1,9					
	55	61	**25,50**	5307	2,0	**KR102-71/4b**	1,15	13	90	KR255
	66	51	**21,25**	5055	2,3					
	73	46	**19,13**	4933	2,4					
	81	41	**17,30**	4777	2,7					
	96	35	**14,61**	4554	3,2					
	31	107	**45,41**	2720	0,8	**KR003-71/4b**	1,15	13	86	KR256
	40	83	**35,34**	3809	1,0					
	47	70	**29,95**	3749	1,1					
	55	60	**25,64**	3676	1,3					
	59	56	**23,79**	3636	1,4					
	70	47	**19,88**	4117	1,7	**KR002-71/4b**	1,15	12	86	KR257
	87	39	**16,18**	3882	1,9					
	95	35	**14,73**	3777	2,1					
	106	32	**13,26**	3661	2,4					
	126	27	**11,09**	3469	2,8					
	149	22	**9,40**	3298	3,1					
	174	19	**8,04**	3143	3,4					
	188	18	**7,46**	3070	3,6					
	190	18	**14,73**	3058	3,4	**KR002-71/2a**	1,05	11	86	KR258
	211	16	**13,26**	2959	3,8					
	253	13	**11,09**	2796	4,0					
	298	11	**9,40**	2652	4,0					
	348	9,6	**8,04**	2524	4,0					
	375	8,9	**7,46**	2464	4,0					
0,55 0,75	0,41	11095	**3396,71**	100240	1,4	**KR876-80/4a**	1,1	652	174	KR055
	0,47	9795	**2996,39**	105018	1,5					
	0,53	8720	**2665,68**	108622	1,7					
	0,59	7816	**2387,89**	111455	1,9					
	0,67	6784	**2074,42**	114492	2,2					
	0,74	6301	**1891,08**	115874	2,4	**KR875-80/4a**	1,1	648	174	KR056



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *Price Ref.* Preis No.
0,55	0,84	5578	**1671,18**	117767	2,7	**KR875-80/4a**	1,1	648	174	KR056
0,75	0,94	4992	**1495,27**	119246	3,0					
	1,1	4391	**1313,07**	120680	3,4					
	1,3	3676	**1096,71**	122279	4,0					
	1,5	3213	**957,34**	123454	4,0					
	0,44	10636	**3203,12**	34128	0,8	**KR775-80/4a**	1,1	390	162	KR057
	0,49	9424	**2838,16**	45311	0,8					
	0,55	8436	**2539,01**	52216	0,9					
	0,68	6884	**2066,04**	60727	1,2					
	0,78	5942	**1786,65**	65067	1,3					
	0,90	5150	**1547,01**	68285	1,6					
	1,0	4508	**1353,02**	70633	1,8					
	1,2	3978	**1192,77**	72440	2,0					
	1,3	3531	**1058,16**	73857	2,3					
	1,5	3150	**943,49**	74993	2,5					
	1,7	2789	**833,78**	76015	2,9					
	1,9	2496	**746,01**	76918	3,2					
	0,88	5297	**1597,25**	14881	0,8	**KR675-80/4a**	1,1	317	150	KR058
	1,0	4558	**1373,07**	25741	0,9					
	1,2	3959	**1191,60**	31458	1,1					
	1,3	3464	**1041,68**	35315	1,2					
	1,5	3047	**915,75**	38041	1,4					
	1,7	2697	**809,27**	40111	1,6					
	1,9	2414	**724,08**	41693	1,8					
	2,2	2124	**635,86**	43065	2,0					
	2,5	1939	**363,81**	43918	2,2	**KR674-80/6b**	1,5	204	146	KR059
	2,8	1717	**321,51**	44897	2,5					
	3,3	1461	**273,88**	45969	2,9					
	3,8	1257	**235,44**	46774	3,4					
	1,5	3085	**932,00**	18145	0,9	**KR575-80/4a**	1,1	152	138	KR060
	1,8	2611	**787,70**	23541	1,0					
	1,9	2485	**469,74**	24708	1,1	**KR574-80/6b**	1,5	155	134	KR061
	2,3	2103	**397,01**	27837	1,3					
	2,7	1745	**328,56**	30251	1,5					
	3,0	1598	**469,74**	31147	1,7	**KR574-80/4a**	1,1	152	134	KR062
	3,5	1352	**397,01**	32517	2,0					
	4,3	1122	**328,56**	33679	2,4					
	5,0	960	**281,00**	34445	2,8					
	5,7	843	**246,42**	34969	3,2					
	2,4	1966	**371,35**	11705	0,8	**KR474-80/6b**	1,5	100	122	KR063
	3,0	1608	**472,63**	16042	1,0	**KR474-80/4a**	1,1	98	122	KR064
	3,3	1438	**422,88**	17603	1,1					
	3,8	1264	**371,35**	19018	1,2					
	4,5	1057	**310,16**	20407	1,5					
	4,8	999	**293,03**	20770	1,6					
	5,9	831	**153,47**	21838	1,9	**KR473-80/6b**	1,5	92	118	KR065
	6,6	736	**135,98**	22314	2,1					



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min / *rpm* / U/min.]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht **~ [kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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					



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *Price Ref.* Preis No.
1,1	10	950	**135,98**	21166	1,6	**KR473-90S/4**	2,6	96	118	KR104
1,5	13	775	**110,65**	22110	2,0					
	14	685	**97,79**	22573	2,3					
	16	613	**87,49**	22899	2,5					
	18	539	**76,83**	23251	2,9					
	22	451	**64,17**	23612	3,4					
	8,1	1199	**110,61**	4985	0,7	**KR373-90L/6**	3,0	66	106	KR105
	9,2	1055	**97,26**	8585	0,8					
	12	850	**78,29**	11723	1,0					
	13	773	**110,61**	12699	1,1	**KR373-90S/4**	2,6	65	106	KR106
	14	680	**97,26**	13655	1,2					
	18	548	**78,29**	14817	1,5					
	20	481	**68,65**	15331	1,7					
	23	426	**60,69**	15726	1,9					
	27	359	**51,05**	16173	2,3					
	32	305	**43,40**	16514	2,7					
	38	262	**37,19**	16759	3,1					
	17	583	**83,48**	11082	0,8	**KR273-90S/4**	2,6	31	98	KR107
	19	510	**72,92**	11637	0,9					
	20	479	**68,40**	11862	0,9					
	24	407	**58,15**	12328	1,1					
	28	354	**50,51**	12633	1,3					
	32	310	**44,20**	12888	1,5					
	38	257	**36,55**	13155	1,8					
	46	215	**30,48**	13348	2,1					
	55	180	**25,55**	13573	2,4					
	61	163	**23,08**	13711	2,5					
	73	135	**19,08**	13895	2,9					
	88	113	**15,92**	14030	3,3					
	105	95	**13,34**	14141	3,7					
	117	85	**12,00**	14289	2,9					
	141	70	**9,92**	13589	3,4					
	169	59	**8,28**	12942	3,9					
	202	49	**6,94**	12334	4,0					
	27	367	**52,37**	3288	0,8	**KR203-90S/4**	2,6	24	94	KR273
	32	307	**43,67**	4803	0,9					
	37	268	**38,16**	4860	1,0					
	44	222	**31,55**	4859	1,3					
	53	186	**26,31**	4805	1,4					
	59	169	**23,79**	4871	1,7	**KR202-90S/4**	2,6	23	94	KR274
	69	144	**20,23**	4745	1,9					
	80	125	**17,47**	4619	2,2					
	92	109	**15,26**	4496	2,4					
	98	102	**14,32**	4436	2,5					
	115	87	**12,17**	4281	2,8					
	132	76	**10,57**	4142	3,1					
	62	162	**14,61**	4111	0,8	**KR102-90L/6**	3,0	20	90	KR275
	72	139	**12,51**	4051	0,9					
	81	123	**17,30**	3994	0,9	**KR102-90S/4**	2,6	18	90	KR276
	96	104	**14,61**	3894	1,1					
	112	89	**12,51**	3791	1,2					



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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	3400	**363,81**	35740	1,3	**KR674-90L/4**	3,5	298	146	KR116
	4,4	3010	**321,51**	38334	1,4					
	5,1	2561	**273,88**	40848	1,7					
	5,9	2205	**235,44**	42678	2,0					
	6,9	1916	**204,32**	44093	2,2					
	7,8	1677	**178,62**	45118	2,6					
	8,9	1476	**157,02**	45936	2,9					
	4,3	3059	**328,56**	18493	0,9	**KR574-90L/4**	3,5	158	134	KR117
	5,0	2618	**281,00**	23465	1,0					
	5,7	2300	**246,42**	26295	1,2					
	5,9	2218	**237,97**	26951	1,2					
	6,6	1974	**211,51**	28762	1,4					
	7,2	1857	**125,51**	29594	1,5	**KR573-100L/6**	3,5	151	130	KR118
	8,2	1627	**109,86**	31010	1,7					
	9,3	1441	**97,19**	32115	1,9					
	11	1219	**82,14**	33229	2,2					
	13	1000	**67,37**	34273	2,7					
	15	884	**59,49**	34795	3,1					
	8,1	1638	**110,65**	15902	0,9	**KR473-100L/6**	3,5	105	118	KR119
	9,1	1464	**153,47**	17616	1,1	**KR473-90L/4**	3,5	98	118	KR120
	10	1297	**135,98**	18904	1,2					
	13	1057	**110,65**	20504	1,5					
	14	935	**97,79**	21250	1,7					
	16	837	**87,49**	21778	1,9					
	18	736	**76,83**	22263	2,1					
	22	615	**64,17**	22880	2,5					
	23	582	**60,63**	23035	2,7					
	13	1055	**110,61**	8645	0,8	**KR373-90L/4**	3,5	67	106	KR121
	14	928	**97,26**	10733	0,9					
	18	748	**78,29**	12947	1,1					
	20	657	**68,65**	13855	1,2					
	23	581	**60,69**	14526	1,4					
	27	489	**51,05**	15258	1,7					
	32	417	**43,40**	15795	2,0					
	38	357	**37,19**	16179	2,3					
	42	324	**33,65**	16391	2,5					
	24	556	**58,15**	11297	0,8	**KR273-90L/4**	3,5	33	98	KR122
	28	483	**50,51**	11830	0,9					
	32	423	**44,20**	12228	1,1					
	38	351	**36,55**	12652	1,3					
	46	293	**30,48**	12978	1,5					
	55	246	**25,55**	13298	1,7					
	61	223	**23,08**	13483	1,8					
	73	184	**19,08**	13706	2,1					
	88	154	**15,92**	13898	2,4					
	105	129	**13,34**	14041	2,7					
	117	116	**12,00**	14005	2,2					
	141	96	**9,92**	13354	2,5					
	169	80	**8,28**	12746	2,9					
	202	67	**6,94**	12170	3,3					



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *Price Ref.* Preis No.
2,2	2,9	6672	**311,14**	61797	1,2	**KR774-112M/6**	5,1	386	158	KR128
3,0	3,2	5975	**278,35**	64946	1,3					
	3,5	5447	**396,00**	67094	1,5	**KR774-100L/4a**	5,1	375	158	KR129
	4,0	4875	**354,32**	69412	1,6					
	4,5	4289	**311,14**	71470	1,9					
	5,0	3841	**278,35**	72940	2,1					
	5,8	3318	**240,71**	74563	2,4					
	6,7	2877	**208,42**	75853	2,8					
	7,7	2520	**182,29**	76924	3,2					
	3,9	4987	**363,81**	20298	0,9	**KR674-100L/4a**	5,1	272	146	KR130
	4,4	4414	**321,51**	27260	1,0					
	5,1	3756	**273,88**	33105	1,1					
	6,0	3234	**235,44**	36863	1,3					
	6,9	2810	**204,32**	39478	1,5					
	7,0	2800	**128,24**	39572	1,5	**KR673-112M/6**	5,1	227	142	KR131
	8,9	2204	**100,90**	42770	2,0					
	10	1973	**90,21**	43814	2,2					
	11	1806	**128,24**	44531	2,4	**KR673-100L/4a**	5,1	215	142	KR229
	14	1422	**100,90**	46131	3,0					
	16	1273	**90,21**	46707	3,4					
	5,7	3373	**246,42**	13572	0,8	**KR574-100L/4a**	5,1	163	134	KR132
	5,9	3254	**237,97**	15643	0,8					
	6,6	2895	**211,51**	20454	0,9					
	7,7	2478	**180,90**	24775	1,1					
	8,2	2389	**109,86**	25640	1,1	**KR573-112M/6**	5,1	158	130	KR133
	9,3	2116	**97,19**	27777	1,3					
	11	1758	**125,51**	30269	1,5	**KR573-100L/4a**	5,1	148	130	KR134
	13	1541	**109,86**	31595	1,8					
	15	1365	**97,19**	32524	2,0					
	17	1155	**82,14**	33531	2,3					
	21	948	**67,37**	34536	2,8					
	24	838	**59,49**	35013	3,2					
	13	1551	**110,65**	16830	1,0	**KR473-100L/4a**	5,1	103	118	KR135
	14	1372	**97,79**	18310	1,1					
	16	1228	**87,49**	19362	1,3					
	18	1080	**76,83**	20338	1,4					
	22	903	**64,17**	21391	1,7					
	23	854	**60,63**	21666	1,8					
	24	832	**59,19**	21782	1,9					
	27	721	**51,22**	22388	2,1					
	31	629	**44,64**	22814	2,5					
	36	552	**39,11**	23162	2,8					
	47	427	**30,11**	23702	3,6					
	18	1097	**78,29**	7744	0,7	**KR373-100L/4a**	5,1	74	106	KR136
	20	964	**68,65**	10182	0,9					
	23	853	**60,69**	11716	1,0					
	27	718	**51,05**	13236	1,1					



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *Price Ref.* Preis No.
3,0	4,5	5849	**311,14**	65476	1,4	**KR774-100L/4b**	6,45	380	158	KR143
4,0	5,0	5238	**278,35**	67947	1,5					
	5,8	4524	**240,71**	70592	1,8					
	6,7	3924	**208,42**	72636	2,0					
	7,7	3437	**182,29**	74253	2,3					
	8,1	3330	**111,63**	74513	2,4	**KR773-132S/6**	6,9	382	154	KR144
	9,1	2957	**99,00**	75617	2,7					
	10	2648	**88,57**	76488	3,0					
	12	2288	**76,59**	77512	3,5					
	5,1	5121	**273,88**	18223	0,8	**KR674-100L/4b**	6,45	275	146	KR145
	6,0	4409	**235,44**	27179	1,0					
	6,9	3832	**204,32**	32506	1,1					
	7,0	3815	**128,24**	32717	1,1	**KR673-132S/6**	6,9	232	142	KR146
	8,9	3003	**100,90**	38324	1,4					
	10	2688	**90,21**	40196	1,6					
	11	2464-	**128,24**	41421	1,7	**KR673-100L/4b**	6,45	217	142	KR230
	14	1940	**100,90**	43864	2,2					
	16	1736	**90,21**	44832	2,5					
	17	1549	**80,38**	45620	2,8					
	7,7	3379	**180,90**	13438	0,8	**KR574-100L/4b**	6,45	166	134	KR147
	9,3	2883	**97,19**	20736	0,9	**KR573-132S/6**	6,9	178	134	KR148
	11	2399	**125,51**	25717	1,1	**KR573-100L/4b**	6,45	151	130	KR149
	13	2102	**109,86**	27992	1,3					
	14	1862	**97,19**	29610	1,5					
	17	1576	**82,14**	31337	1,7					
	21	1293	**67,37**	32874	2,1					
	24	1143	**59,49**	33619	2,4					
	26	1017	**52,88**	34244	2,7					
	29	931	**97,19**	34621	2,9	**KR573-100L/2**	6,0	149	130	KR150
	34	788	**82,14**	35608	3,3					
	14	1873	**97,79**	13340	0,8	**KR473-100L/4b**	6,45	107	118	KR151
	16	1675	**87,49**	15567	0,9					
	18	1473	**76,83**	17437	1,1					
	22	1232	**64,17**	19260	1,3					
	23	1165	**60,63**	19785	1,3					
	24	1136	**59,19**	19957	1,4					
	27	984	**51,22**	20938	1,6					
	31	859	**44,64**	21638	1,8					
	36	753	**39,11**	22191	2,1					
	46	583	**30,11**	23018	2,7					
	56	488	**25,15**	23442	3,2					
	27	980	**51,05**	9894	0,8	**KR373-100L/4b**	6,45	77	106	KR152
	32	834	**43,40**	11945	1,0					
	38	716	**37,19**	13261	1,1					
	42	648	**33,65**	13915	1,3					
	49	555	**28,85**	14728	1,5					



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *Price Ref.* Preis No.
4,0	7,0	5091	**128,24**	19073	0,8	**KR673-132M/6a**	9,0	232	142	KR159
5,5	8,9	4008	**100,90**	31129	1,1					
	10	3587	**90,21**	34457	1,2					
	11	3286	**128,24**	36660	1,3	**KR673-112M/4**	8,2	227	142	KR160
	14	2588	**100,90**	40811	1,7					
	16	2316	**90,21**	42194	1,9					
	17	2066	**80,38**	43322	2,1					
	13	2804	**109,86**	21813	1,0	**KR573-112M/4**	8,2	158	130	KR161
	14	2484	**97,19**	24908	1,1					
	17	2102	**82,14**	27930	1,3					
	21	1725	**67,37**	30497	1,6					
	24	1525	**59,49**	31617	1,8					
	26	1357	**52,88**	32561	2,0					
	31	1150	**44,73**	33973	2,3					
	37	982	**38,16**	35260	2,5					
	42	864	**67,37**	35960	2,8	**KR573-112M/2**	7,8	154	130	KR162
	47	764	**59,49**	36700	3,1					
	22	1644	**64,17**	15837	0,9	**KR473-112M/4**	8,2	114	118	KR163
	23	1554	**60,63**	16692	1,0					
	24	1515	**59,19**	17042	1,0					
	27	1313	**51,22**	18715	1,2					
	31	1146	**44,64**	19888	1,4					
	36	1005	**39,11**	20778	1,5					
	46	778	**30,11**	22058	2,0					
	56	651	**25,15**	22805	2,4					
	59	615	**23,76**	22529	2,5					
	60	600	**23,19**	22412	2,6					
	70	520	**20,07**	21705	2,9					
	80	454	**17,49**	21029	3,1					
	32	1113	**43,40**	7361	0,7	**KR373-112M/4**	8,2	83	106	KR164
	38	955	**37,19**	10281	0,9					
	42	865	**33,65**	11543	0,9					
	49	741	**28,85**	12988	1,1					
	57	636	**24,72**	14054	1,3					
	64	567	**21,90**	14639	1,4					
	75	483	**18,62**	15299	1,7					
	88	414	**15,96**	15789	2,0					
	97	375	**14,44**	16059	2,2					
	113	322	**12,38**	16395	2,5					
	132	276	**10,60**	16295	2,9					
	61	595	**23,08**	11305	0,7	**KR273-112M/4**	8,2	49	98	KR165
	73	493	**19,08**	12169	0,8					
	88	412	**15,92**	12773	0,9					
	105	346	**13,34**	12831	1,0					
	117	310	**12,00**	12228	0,8					
	141	256	**9,92**	11885	0,9					
	169	214	**8,28**	11521	1,1					
	202	180	**6,94**	11143	1,2					
	210	173	**13,34**	12831	1,7	**KR273-112M/2**	7,8	44	98	KR166
	233	155	**12,00**	12228	1,4					
	282	129	**9,92**	11885	1,6					



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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
	7,8 8,7 9,7 11	6360 5673 5105 4456	**115,87** **103,24** **92,80** **81,06**	110541 112371 113801 115346	2,4 2,6 2,9 3,4	**KR873-132M/6b**	12,3	645	166	KR231
	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 61	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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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
	12 14 15 17	5598 4994 4494 3923	**115,87** **103,24** **92,80** **81,06**	112586 114025 115152 116543	2,7 3,0 3,3 3,8	**KR873-132M/4**	15,3	665	166	KR232
	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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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 61 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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *Price Ref.* Preis No.
11	7,6	12828	**184,83**	88871	1,2	**KR874-160M/4**	21,5	746	170	KR187
15	8,7	11217	**161,34**	95464	1,3					
	9,8	9910	**142,32**	100048	1,5					
	7,8	12730	**115,87**	89385	1,2	**KR873-160L/6**	22	746	166	KR188
	8,7	11356	**103,24**	94825	1,3					
	9,7	10218	**92,80**	98922	1,5					
	11	8919	**81,06**	103233	1,7					
	12	8213	**115,87**	105498	1,8	**KR873-160M/4**	21,5	725	166	KR189
	14	7327	**103,24**	108095	2,0					
	15	6593	**92,80**	110090	2,3					
	17	5756	**81,06**	112392	2,6					
	20	5032	**70,76**	114064	3,0					
	22	4445	**62,42**	115398	3,4					
	10	9735	**88,57**	42764	0,8	**KR773-160L/6**	22	430	154	KR190
	12	8412	**76,59**	52182	1,0					
	13	7897	**111,63**	55500	1,0	**KR773-160M/4**	21,5	460	154	KR191
	14	7012	**99,00**	60322	1,1					
	16	6280	**88,57**	63717	1,3					
	18	5427	**76,59**	67275	1,5					
	21	4707	**66,32**	69977	1,7					
	24	4123	**58,00**	72021	1,9					
	27	3639	**51,13**	73568	2,2					
	31	3232	**45,36**	73881	2,5					
	35	2885	**40,44**	72236	2,8					
	36	2780	**39,00**	71706	2,9					
	41	2411	**33,78**	69585	3,3					
	20	4840	**68,47**	22665	0,9	**KR673-160M/4**	21,5	306	142	KR192
	24	4168	**58,86**	29790	1,0					
	27	3622	**51,08**	34245	1,2					
	31	3171	**44,65**	37332	1,4					
	36	2791	**39,26**	39583	1,5					
	43	2331	**32,68**	42035	1,8					
	50	2008	**28,10**	43626	2,1					
	57	1745	**24,38**	42628	2,5					
	66	1528	**21,32**	41620	2,8					
	75	1345	**18,74**	40611	3,2					
	31	3164	**44,73**	18368	0,8	**KR573-160M/4**	21,5	241	130	KR193
	37	2703	**38,16**	24612	0,9					
	40	2500	**35,34**	26928	1,0					
	46	2143	**30,25**	30251	1,1					
	54	1839	**25,78**	29858	1,3					
	61	1626	**22,77**	29459	1,4					
	69	1447	**20,24**	29020	1,5					
	75	1342	**18,80**	28718	1,5					
	88	1136	**15,88**	27970	1,7					
	104	969	**13,53**	27193	1,9					
	121	831	**11,58**	26400	2,0					
	125	802	**11,22**	25849	1,8					
	148	679	**9,48**	25015	2,0					
	173	579	**8,07**	24193	2,2					
	203	497	**6,91**	23384	2,5					



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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 61 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



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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
	61	2736	**22,77**	24253	0,8	**KR573-180M/4**	36	294	130	KR206



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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



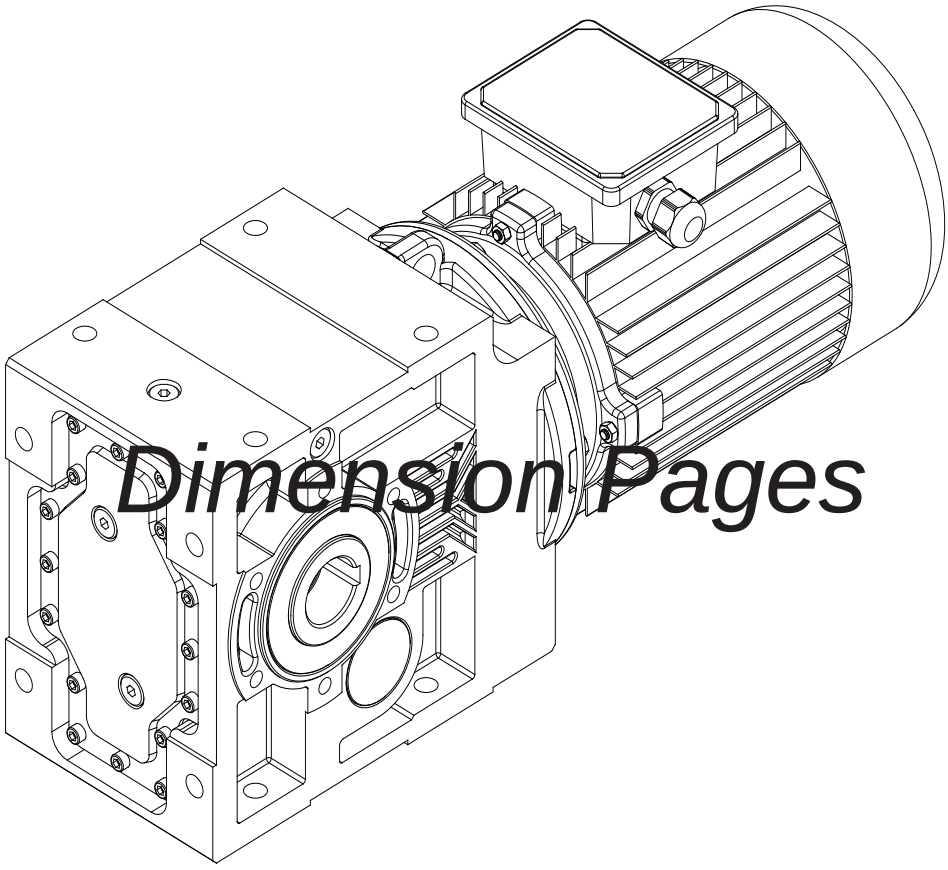
Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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
	31 35 36 41 48 53 60 67 69 80 92 109 122 137 142 164 189	8820 7873 7585 6580 5734 5182 4603 4110 3960 3435 2994 2525 2243 2003 1929 1674 1459	**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**	49772 54591 54691 54846 54676 54378 53876 53261 53043 52082 51029 48032 47150 46248 45952 44746 43534	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

Tabelle dimensionali



Dimension Pages

Abmessungsseiten



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min** / *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *Price Ref.* Preis No.
37 50	36 41 48 53 60 67 69 80 92 109 122 137 142 164 189	9356 8116 7073 6392 5678 5069 4884 4237 3693 3115 2767 2470 2380 2065 1799	**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**	45952 49416 49950 50115 50094 49890 49792 49266 48578 45587 44981 44314 44087 43131 42129	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
	75 85 148 169	4527 4001 2288 2014	**18,74** **16,54** **9,45** **8,31**	26359 27024 27119 26992	0,9 1,1 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
	48 53 60 67 69 80 92 109 122 137 142 164 189	8603 7775 6906 6165 5940 5154 4491 3788 3365 3005 2895 2511 2189	**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**	44549 45244 45773 46037 46076 46048 45777 42793 42502 42104 41956 41285 40522	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
	148 169	2783 2450	**9,45** **8,31**	24770 24927	0,9 1,0	**KR673-225M/4**	80	496	142	KR222
55 75	32 37 41 47 58 66 73	15440 13595 12281 10717 8719 7677 6935	**43,22** **38,00** **34,28** **29,88** **24,28** **21,34** **19,26**	77807 88781 88585 87954 86353 85047 83867	1,0 1,0 1,1 1,2 1,6 1,8 1,9	**KR873-250M/4**	97	1023	166	KR223



Tabelle prestazionali dei motoriduttori serie K

K Series Geared Motors Performance Tables

K Serien Getriebemotoren Leistung und Drehzahlübersicht

Potenza *Power* Leistung **P_g [kW]** P_g [HP]	**Velocità di rotazione in uscita** *Output Speeds* Abtriebswelle Drehzahlen **n_2 [giri/min /** *rpm* / U/min.**]**	**Coppia trasmessa** *Output Torque* Abtriebswelle Drehmomente **M_2 [Nm]**	**Rapporto** *Ratio* Übersetzung **i**	**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) **F_{qam} [N]**	**Fattori di servizio** *Service Factors* Betriebsfaktor **f_s**	**Tipo** *Type* Typ	**Corrente nominale** *Rated Current* Nennstrom **[A]**	**Peso** *Weight* Gewicht ~ **[kg]**	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *Price Ref.* Preis No.
55 75	83 101 114 127 145	6052 5013 4414 3988 3480	**16,78** **13,93** **12,25** **11,05** **9,63**	82133 77718 76054 74658 72718	2,1 1,7 1,9 2,0 2,3	**KR873-250M/4**	97	1023	166	KR223
	60 67 69 80 92 109 122 137 142 164 189	8441 7536 7261 6299 5490 4631 4114 3672 3538 3070 2675	**23,52** **20,97** **20,23** **17,52** **15,25** **12,89** **11,44** **10,20** **9,83** **8,52** **7,41**	40371 41220 41431 42025 42276 39300 39403 39341 39292 38977 38514	0,9 1,1 1,1 1,2 1,3 1,0 1,1 1,2 1,2 1,3 1,5	**KR773-250M/4**	97	748	154	KR224
75 97	47 58 66 73 83 101 114 127 145	14615 11890 10470 9458 8253 6837 6020 5439 4746	**29,88** **24,28** **21,34** **19,26** **16,78** **13,93** **12,25** **11,05** **9,63**	77334 77727 77465 77027 76173 72100 71116 70203 68837	0,9 1,2 1,3 1,4 1,5 1,3 1,4 1,5 1,7	**KR873-280S/4**	133	1173	166	KR225
90 117	58 66 73 83 101 114 127 145	14269 12564 11350 9905 8205 7225 6527 5696	**24,28** **21,34** **19,26** **16,78** **13,93** **12,25** **11,05** **9,63**	71253 71775 71894 71701 67884 67410 66860 65924	1,0 1,1 1,2 1,3 1,1 1,2 1,2 1,4	**KR873-280M/4**	158	1237	166	KR226

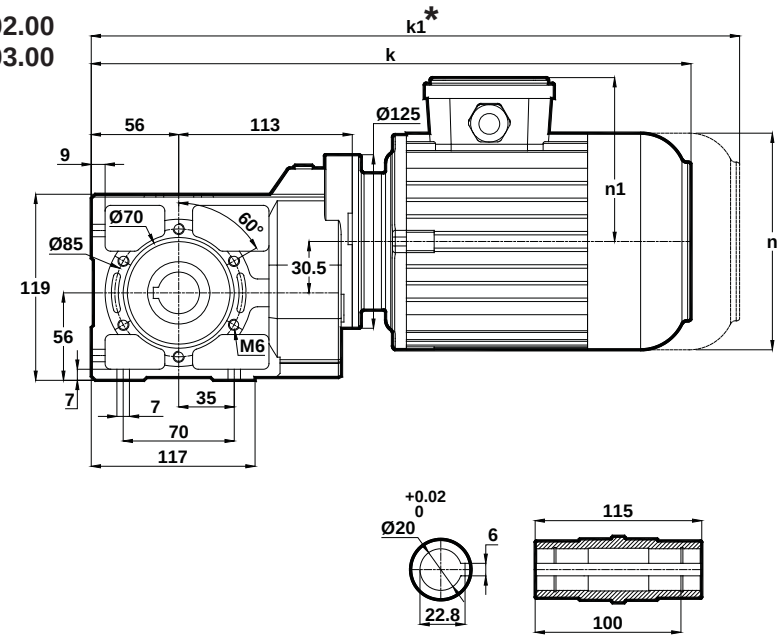
Note / *Notes* **/** Notizen

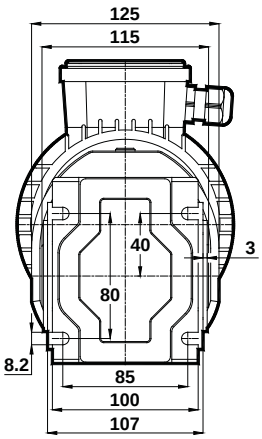


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

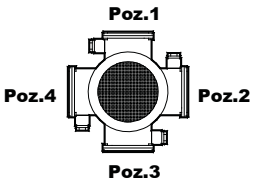
KR002.00
KR003.00





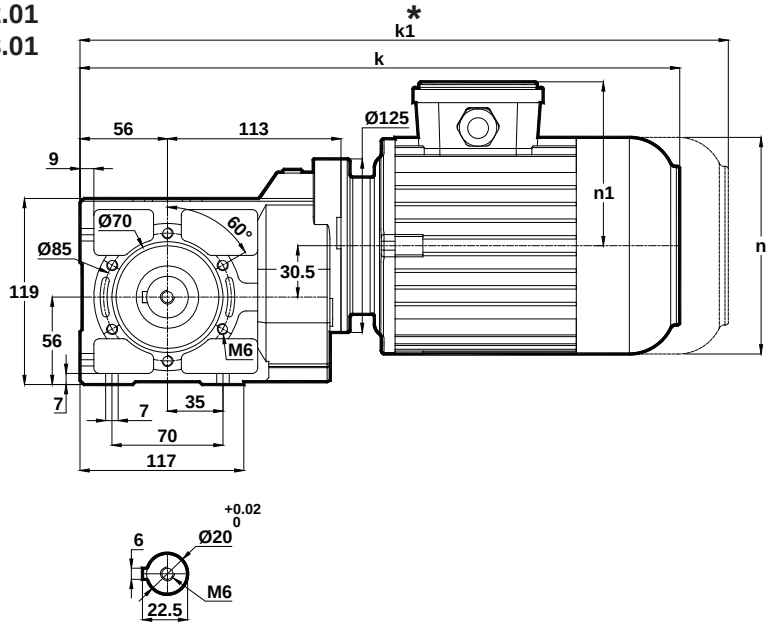
	63	71	80	90S	90L
k	366	385	413	441	466
k1	419	505	533	566	591
n	116	138	156	176	176
n1	97	110	118	126	126

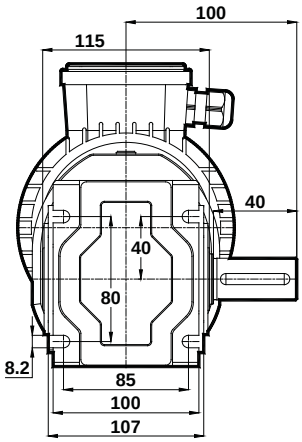
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



63-71-80-90
Tipo / *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

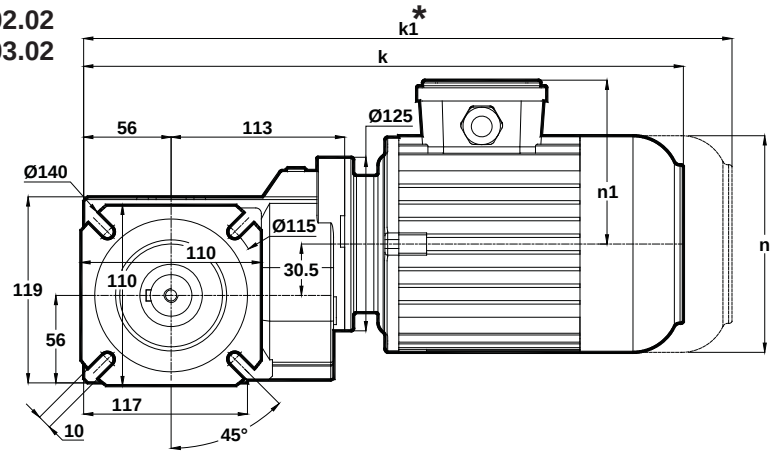
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

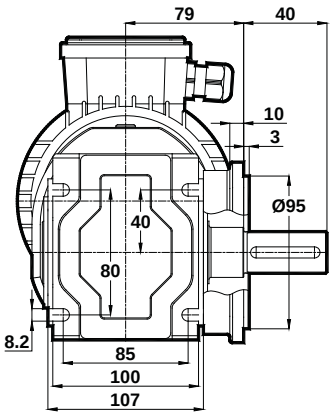


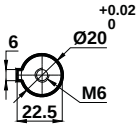
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR002.02
KR003.02

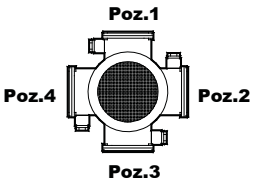






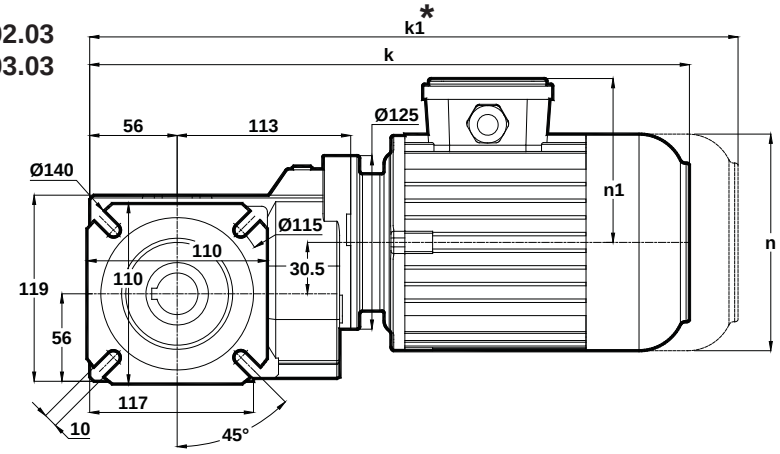
	63	71	80	90S	90L
k	366	385	413	441	466
k1	419	505	533	566	591
n	116	138	156	176	176
n1	97	110	118	126	126

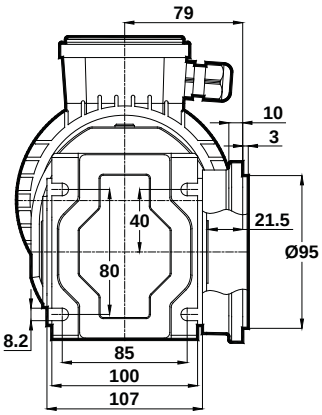
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

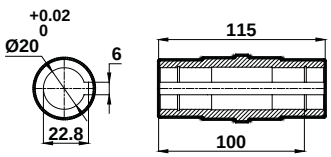


63-71-80-90
Tipo / *Type* / Typ

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

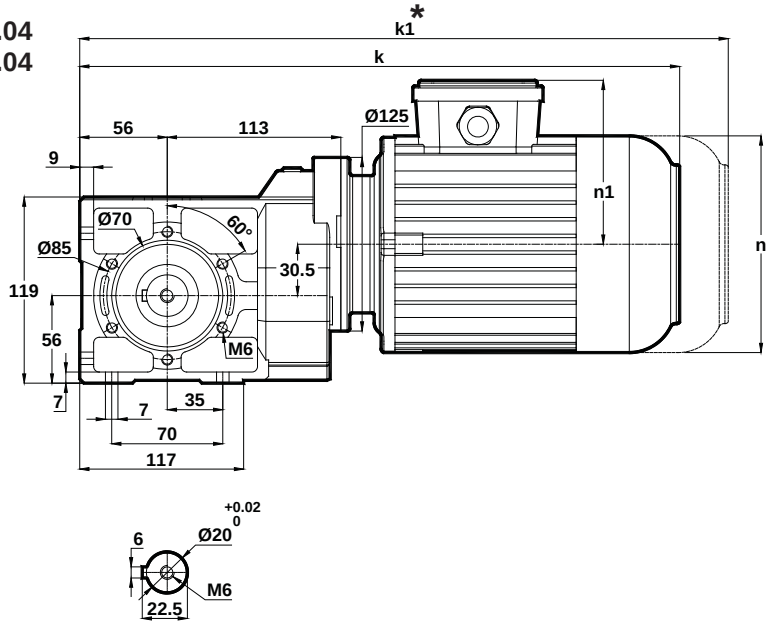
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

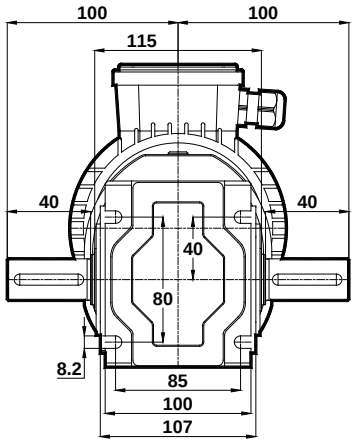


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

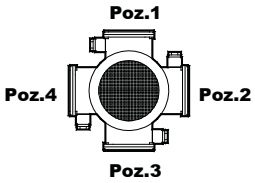
KR002.04
KR003.04





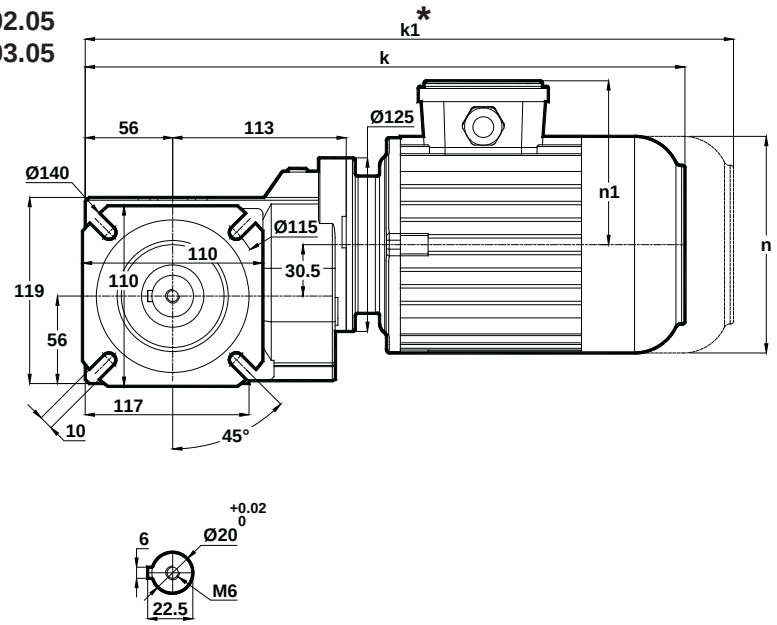
	63	71	80	90S	90L
k	366	385	413	441	466
k1	419	505	533	566	591
n	116	138	156	176	176
n1	97	110	118	126	126

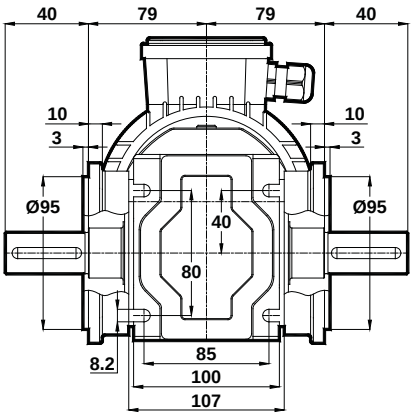
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

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

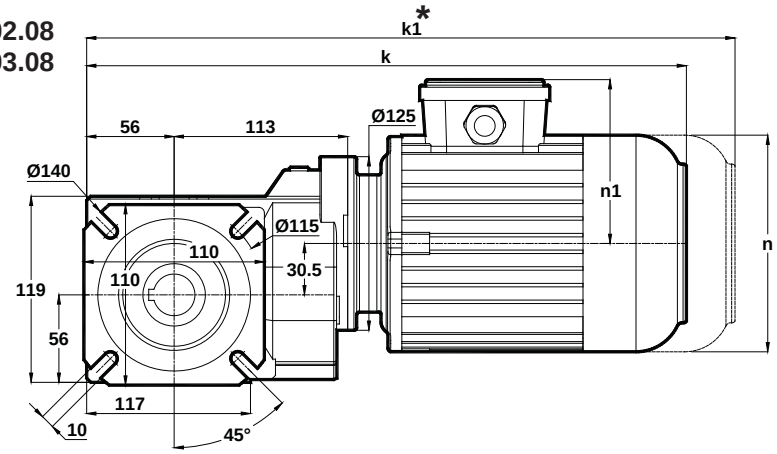
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

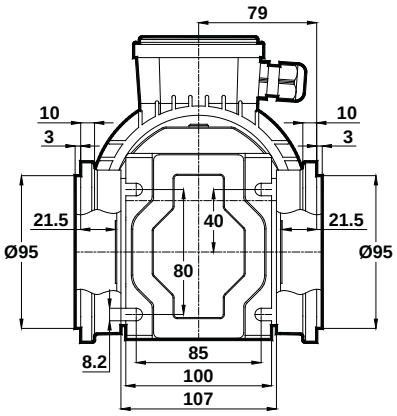


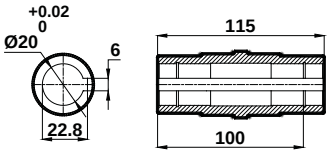
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR002.08
KR003.08

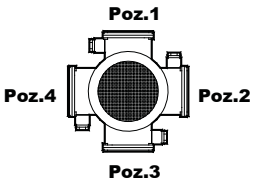






	63	71	80	90S	90L
k	366	385	413	441	466
k1	419	505	533	566	591
n	116	138	156	176	176
n1	97	110	118	126	126

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

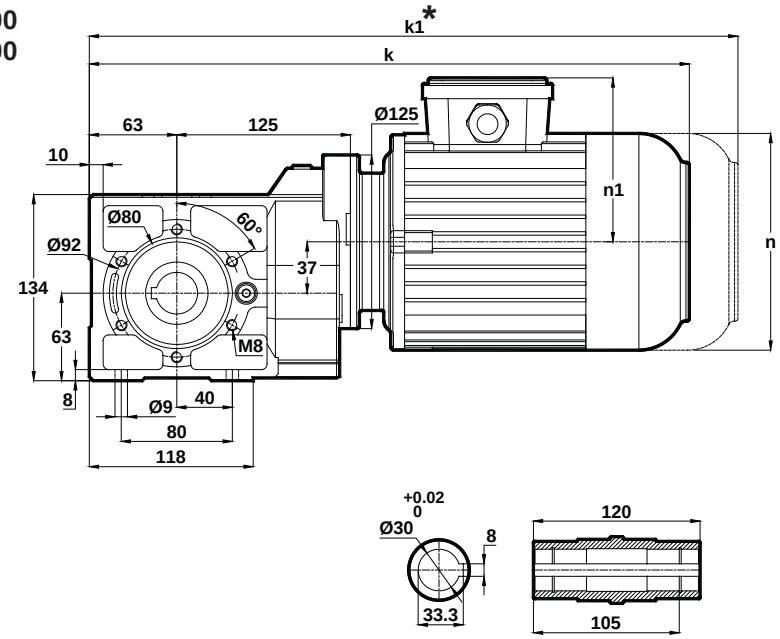
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

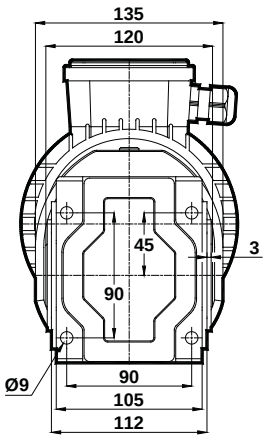


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

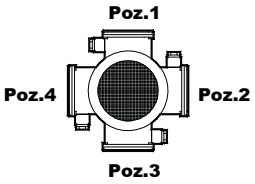
KR102.00
KR103.00





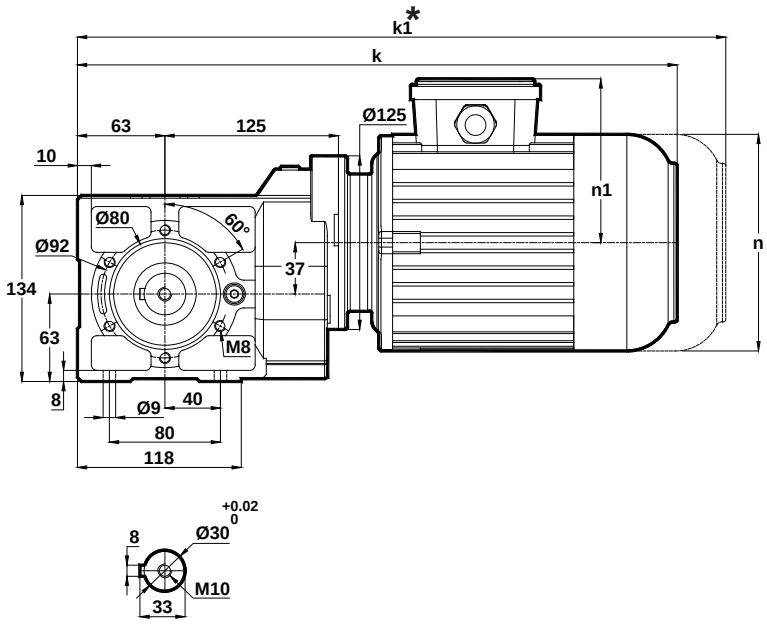
	63	71	80	90S	90L
k	385	404	432	460	485
k1	438	524	552	585	610
n	116	138	156	176	176
n1	97	110	118	126	126

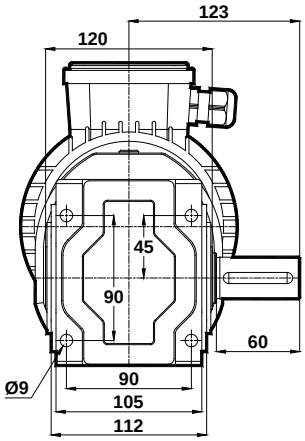
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

KR102.01
KR103.01





	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

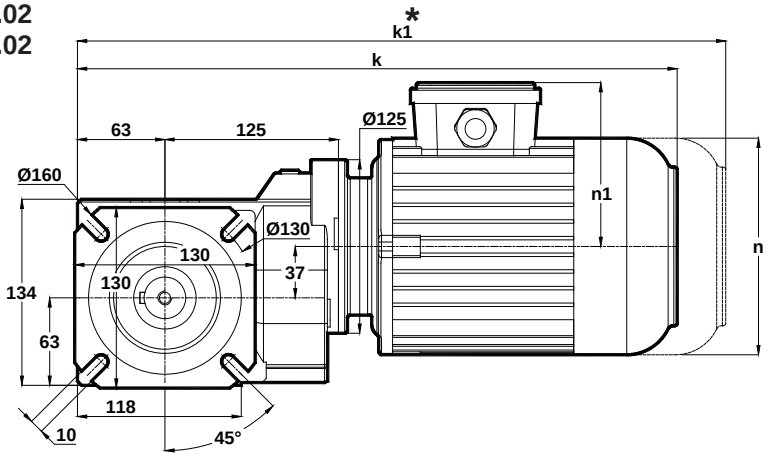
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

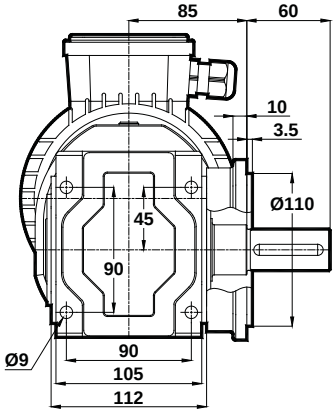


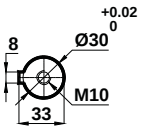
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

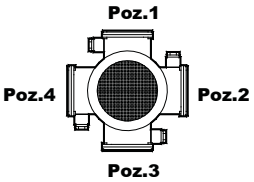
KR102.02
KR103.02







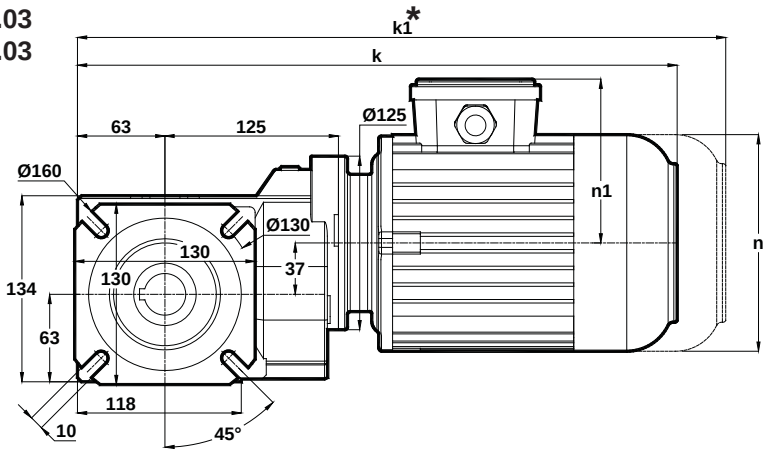
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

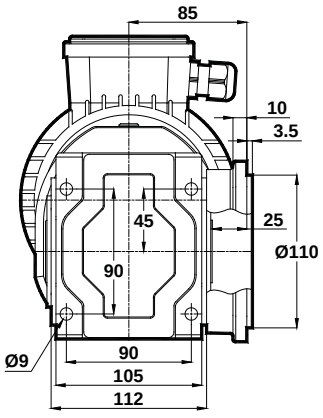


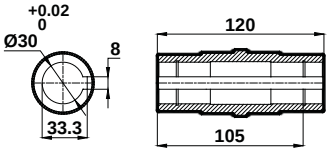
63-71-80-90
Tipo / *Type* **/** Typ

	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

KR102.03
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

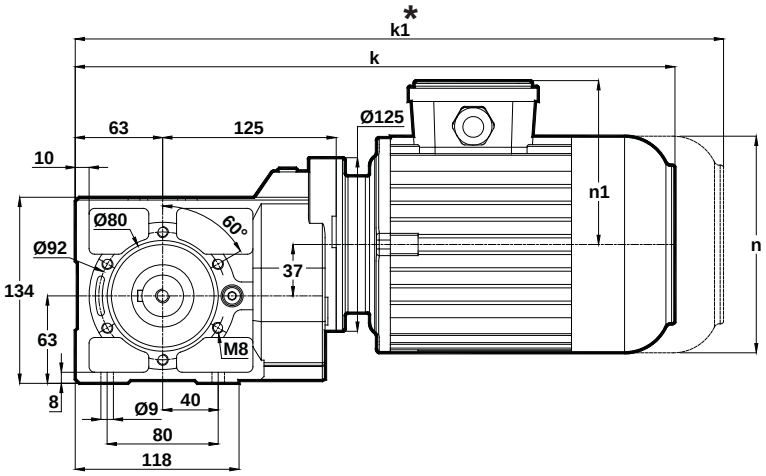
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

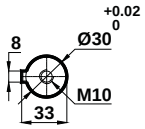


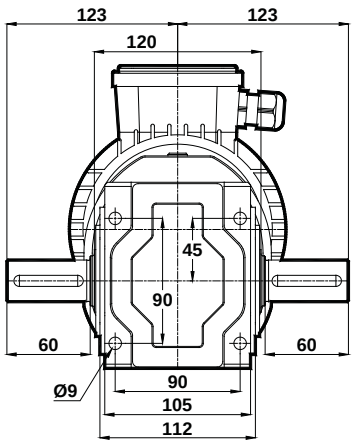
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

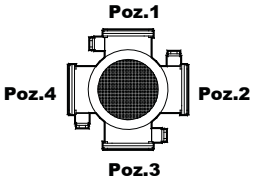
KR102.04
KR103.04







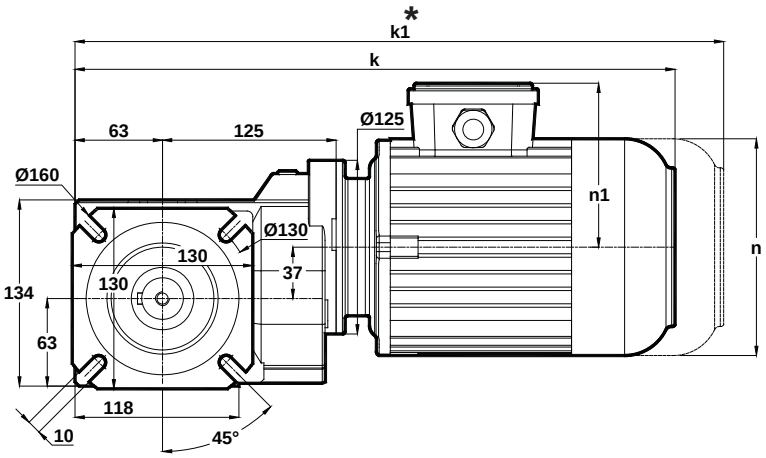
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

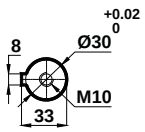


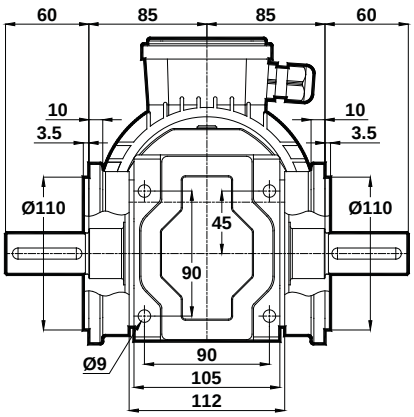
63-71-80-90
Tipo / *Type* **/** Typ

	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

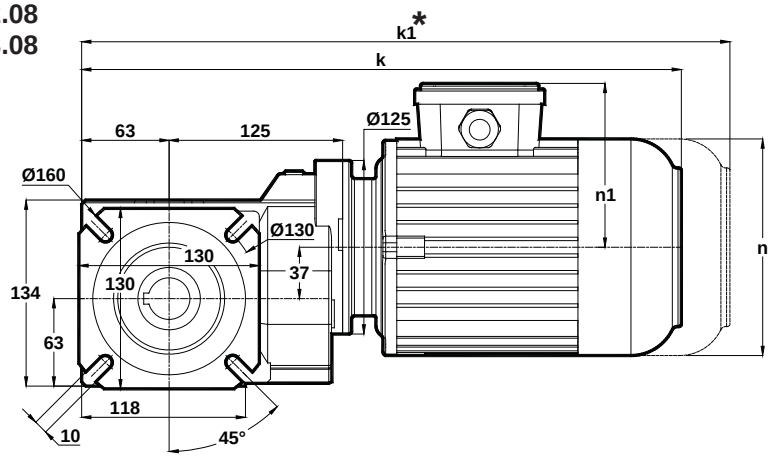
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

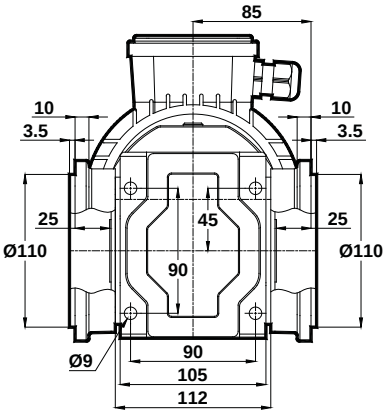


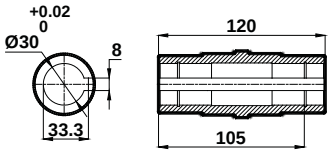
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR102.08
KR103.08

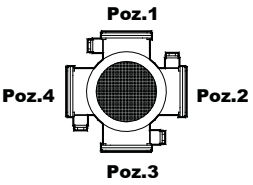






	63	71	80	90S	90L
k	385	404	432	460	485
k1	438	524	552	585	610
n	116	138	156	176	176
n1	97	110	118	126	126

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

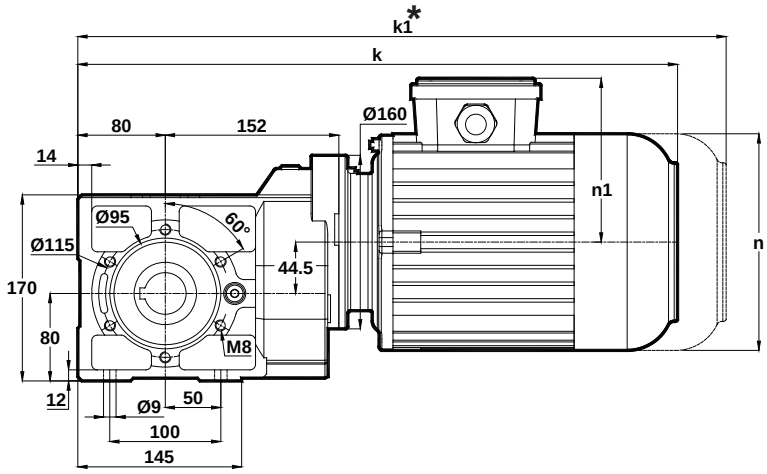
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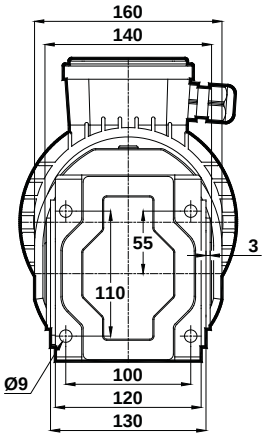


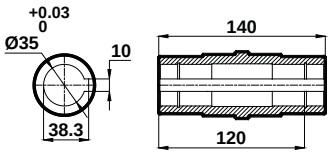
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR202.00
KR203.00

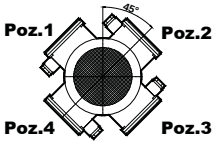




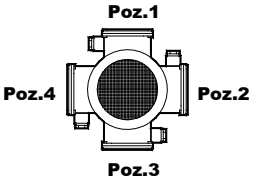


Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

	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

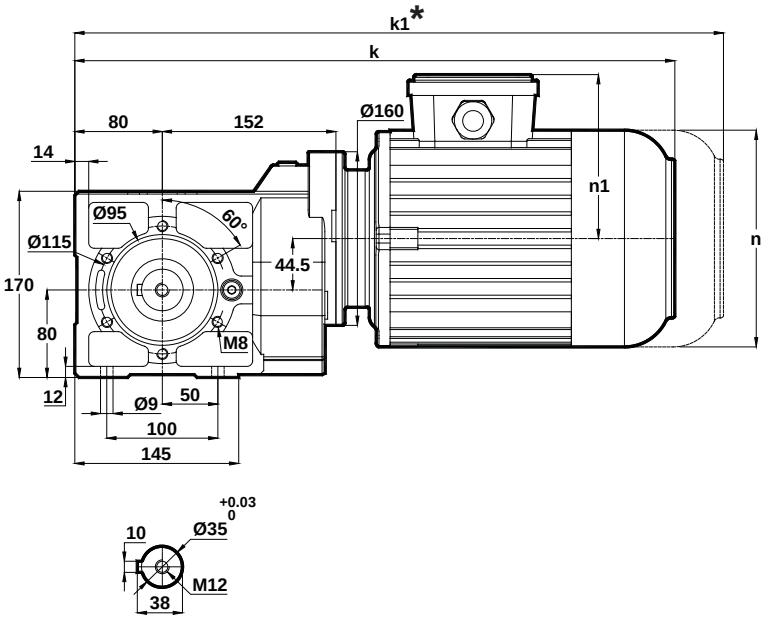


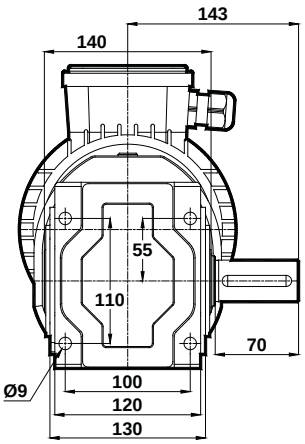
71
Tipo / *Type* **/** Typ



63-80-90-100-112
Tipo / *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

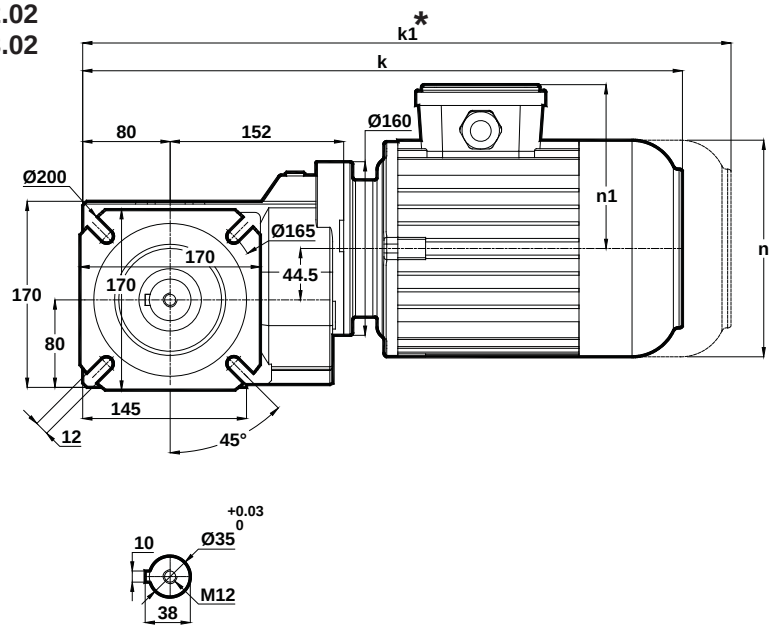
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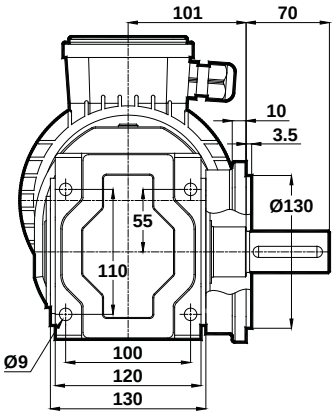


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

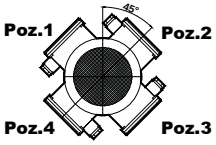
KR202.02
KR203.02



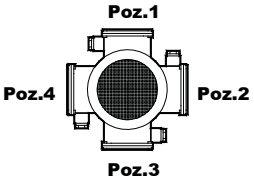


Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

	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

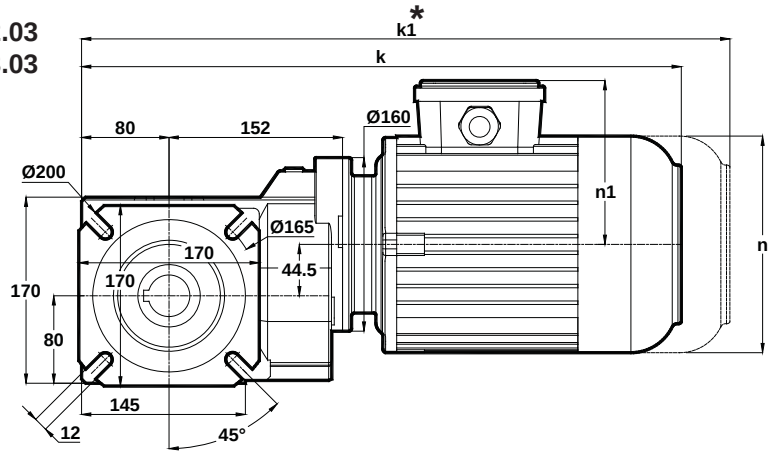


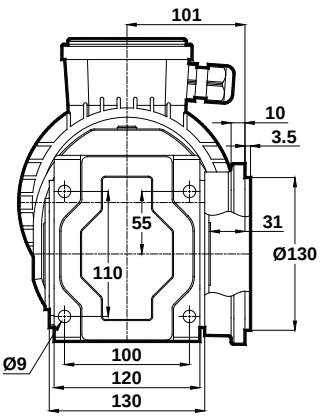
71
Tipo / *Type* **/** Typ

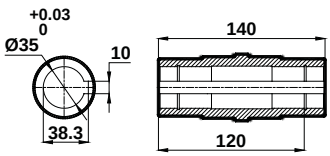


63-80-90-100-112
Tipo / *Type* **/** Typ

KR202.03
KR203.03





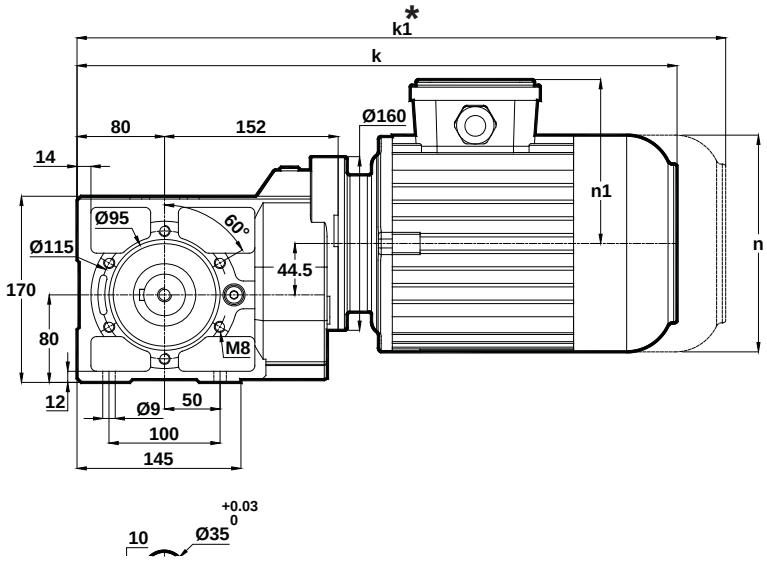


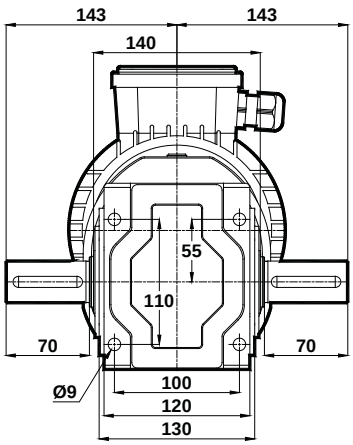
	63	71	80	90S	90L	100L	112M
k	425	444	473	500	525	566	589
k1	478	564	593	625	650	701	724
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
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Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

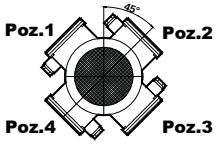
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KR203.04



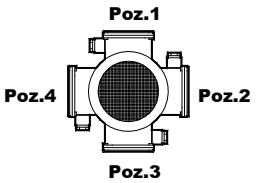


Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

	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

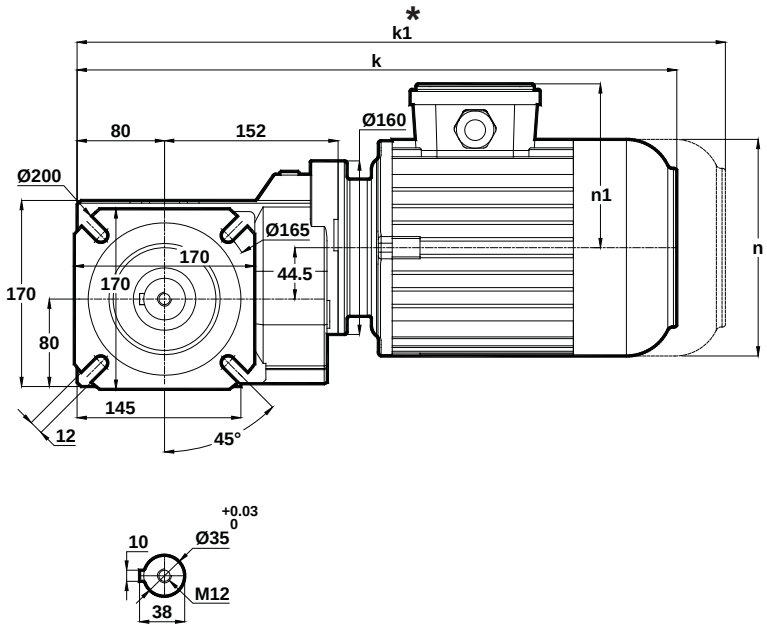


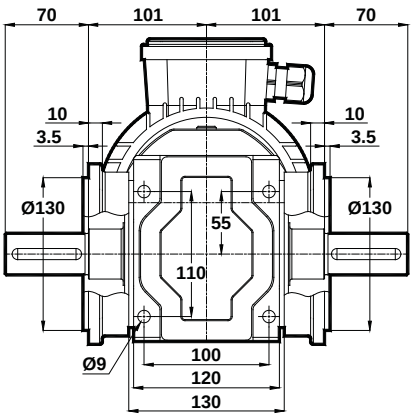
71
Tipo / *Type* **/** Typ



63-80-90-100-112
Tipo / *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

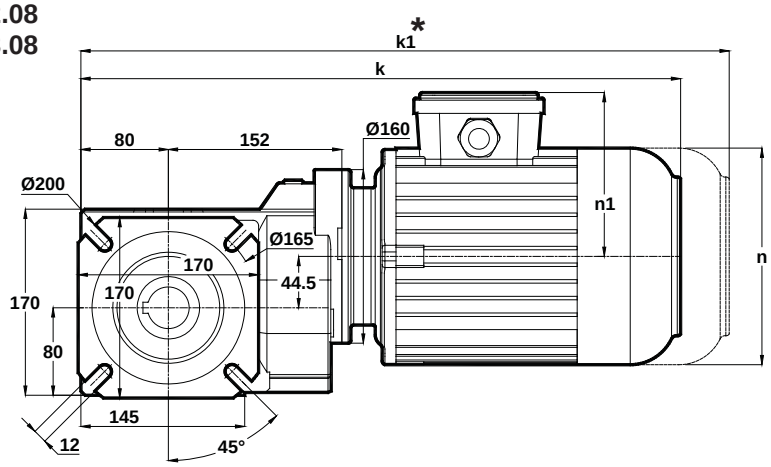
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

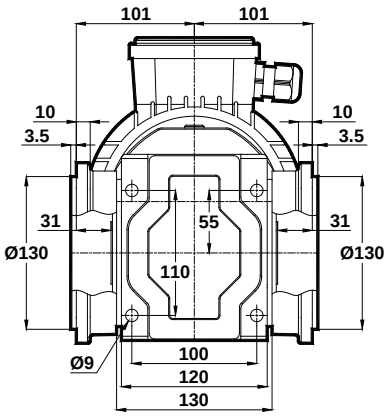


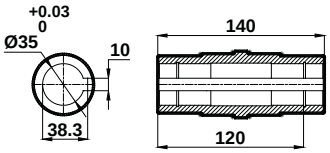
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR202.08
KR203.08

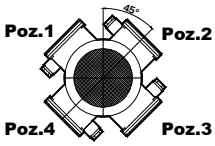




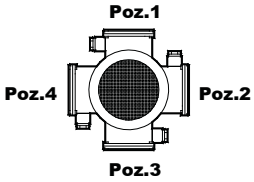


	63	71	80	90S	90L	100L	112M
k	425	444	473	500	525	566	589
k1	478	564	593	625	650	701	724
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71
Tipo / *Type* **/** Typ



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

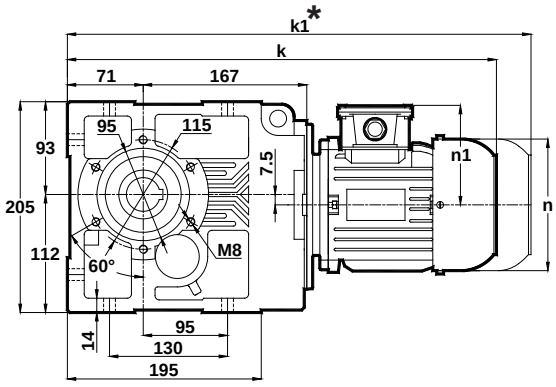
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

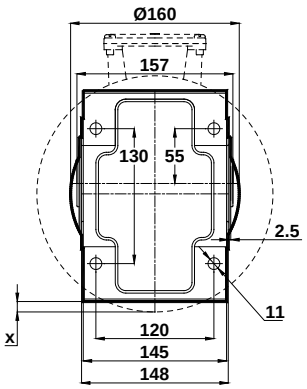


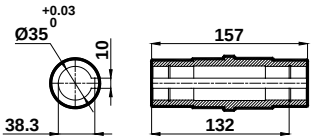
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR273.00



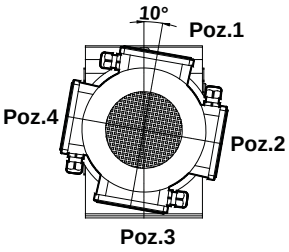




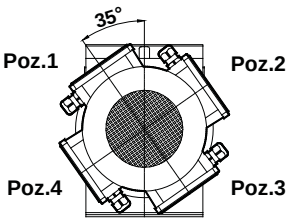
x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

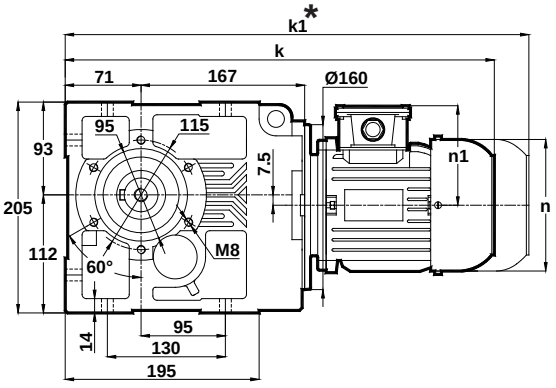


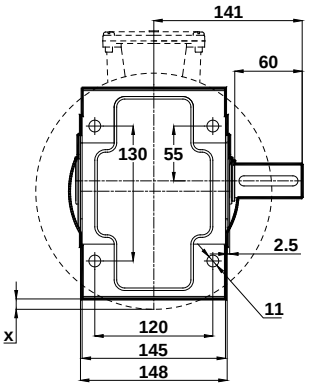
71
Tipo / ***Type*** **/** Typ

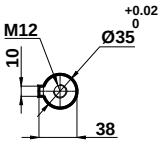


63-80-90-100-112
Tipo / ***Type*** **/** Typ

KR273.01







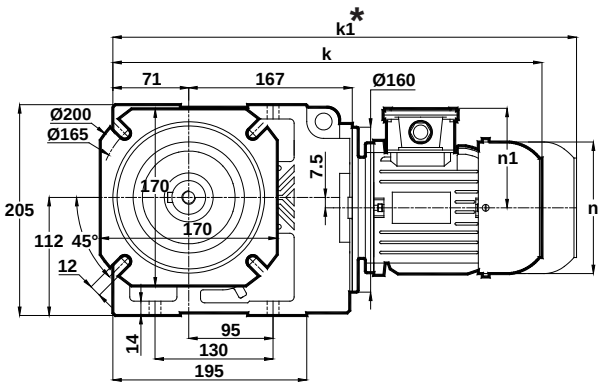
x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

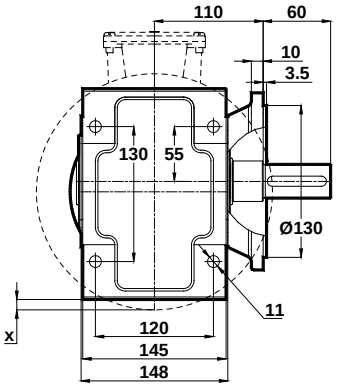
	63	71	80	90S	90L	100L	112M
k	431	449,5	478	506	531	572	595
k1	-	570	598	631	656	707	730
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4,5

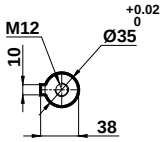
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR273.02



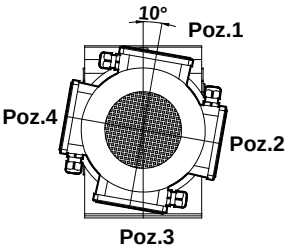




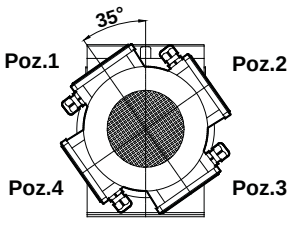
x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

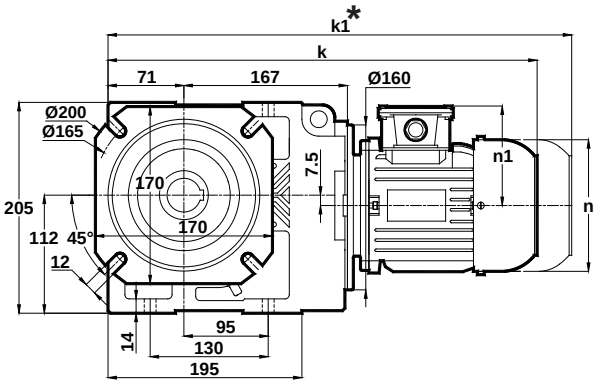


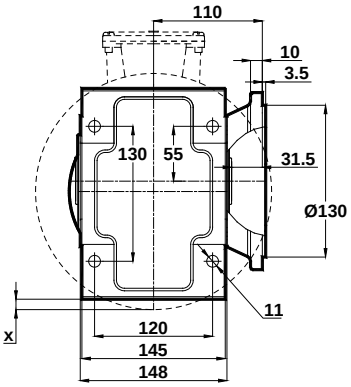
71
Tipo / *Type* **/** Typ

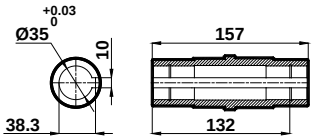


63-80-90-100-112
Tipo / *Type* **/** Typ

KR273.03







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

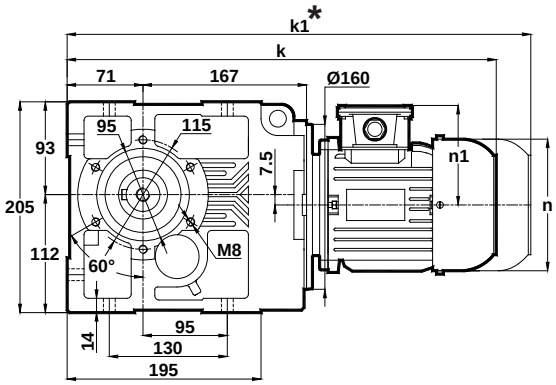
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

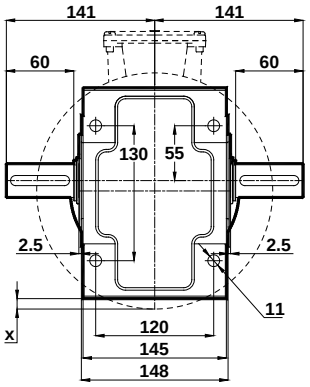


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

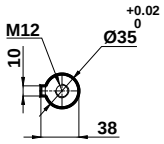
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR273.04



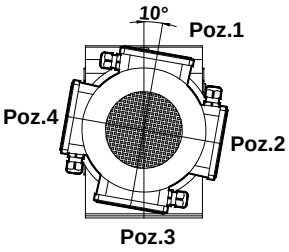


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

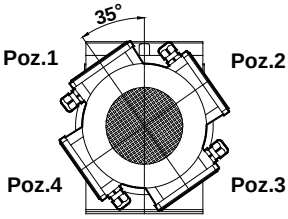


	63	71	80	90S	90L	100L	112M
k	431	449,5	478	506	531	572	595
k1	-	570	598	631	656	707	730
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4,5

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

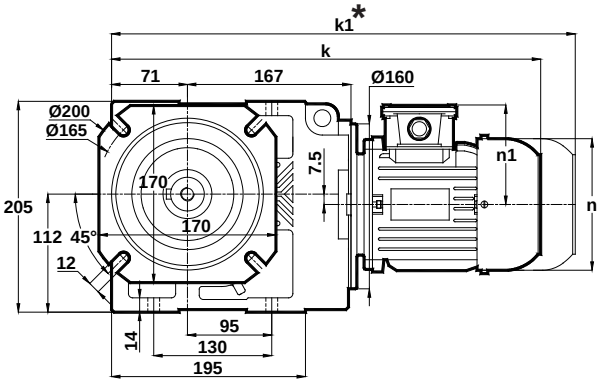


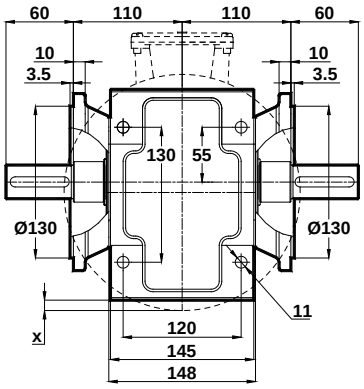
71
Tipo / ***Type*** **/** Typ



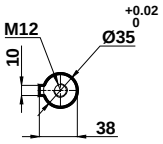
63-80-90-100-112
Tipo / ***Type*** **/** Typ

KR273.05





x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

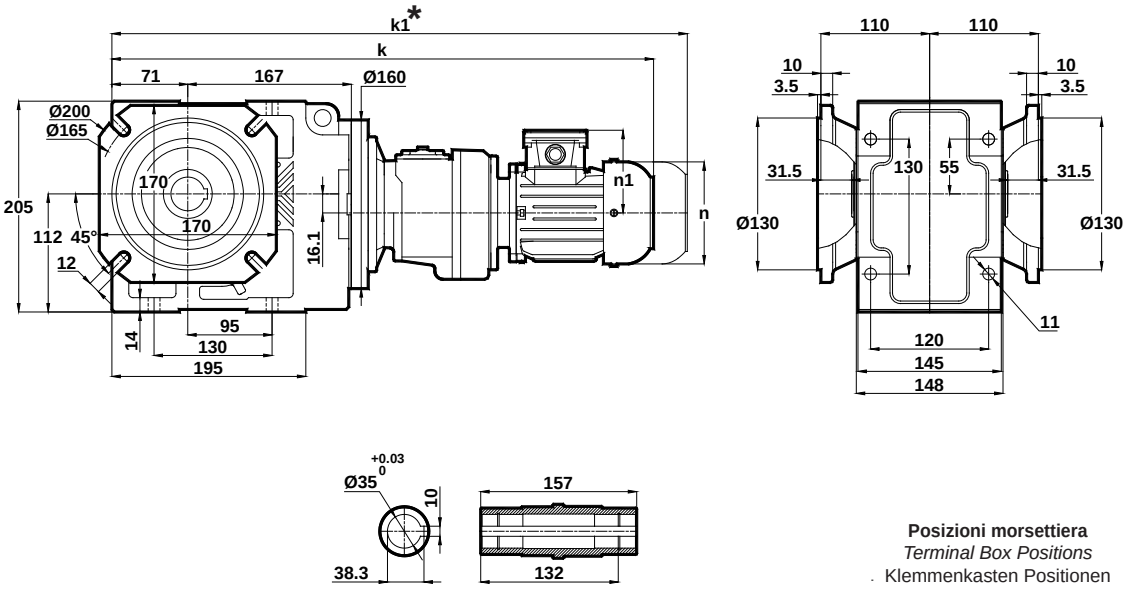


	63	71	80	90S	90L	100L	112M
k	431	449,5	478	506	531	572	595
k1	-	570	598	631	656	707	730
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4,5

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
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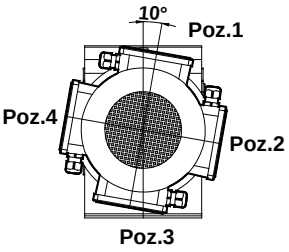
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR273.08

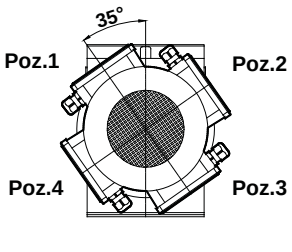


	63	71	80	90S	90L	100L	112M
k	431	449,5	478	506	531	572	595
k1	-	570	598	631	656	707	730
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n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4,5

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71
Tipo / *Type* **/** Typ

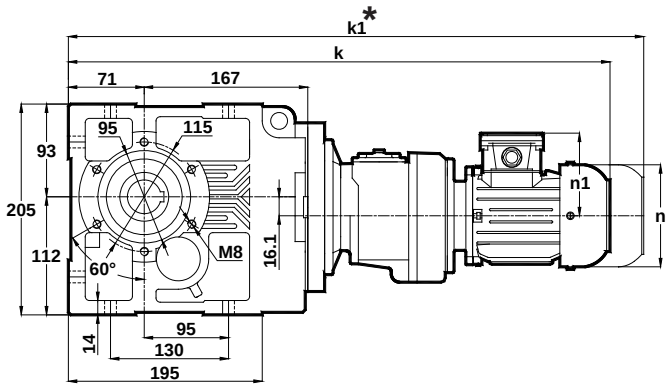


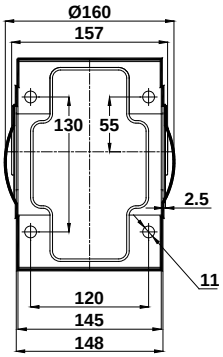
63-80-90-100-112
Tipo / *Type* **/** Typ

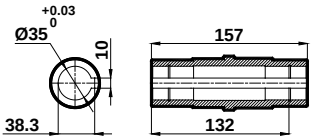
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Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR275.00
KR276.00

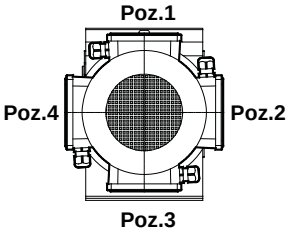






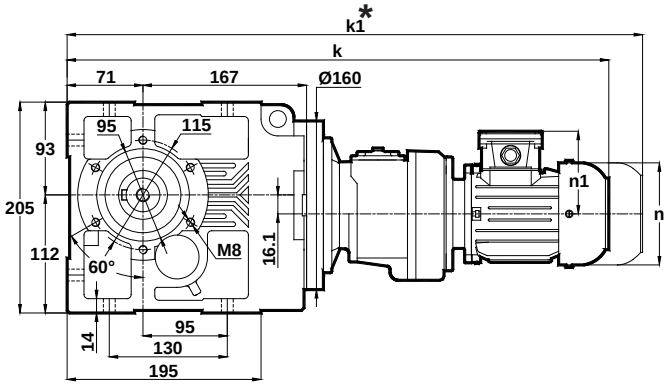
	63	71	80
k	581	600	628
k1	-	720	748
n	116	138	156
n1	97	110	118

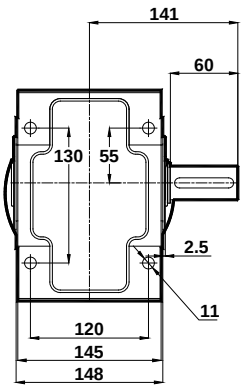
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

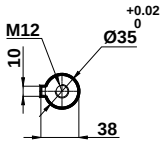


63-71-80
Tipo / *Type* / Typ

KR275.01
KR276.01







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

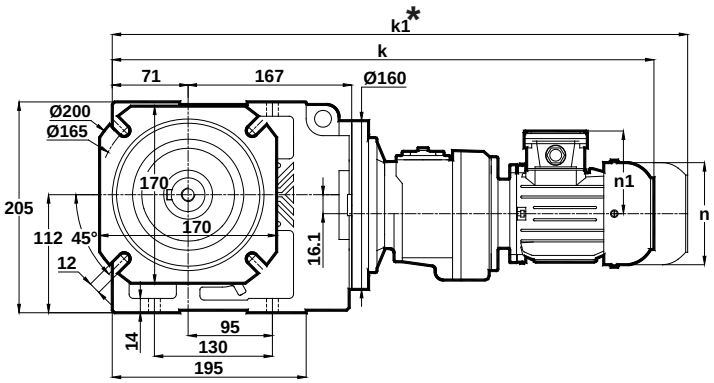
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

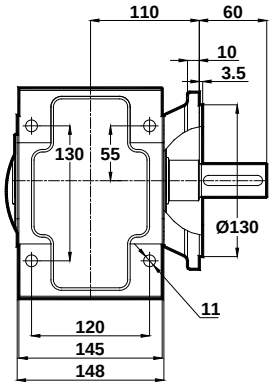


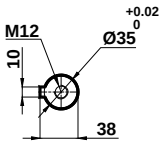
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR275.02
KR276.02

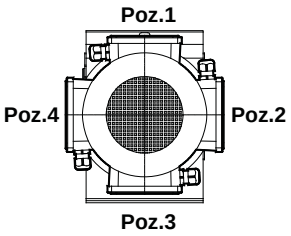






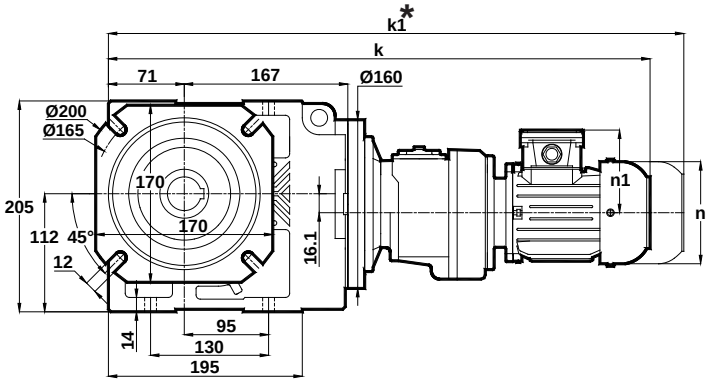
	63	71	80
k	581	600	628
k1	-	720	748
n	116	138	156
n1	97	110	118

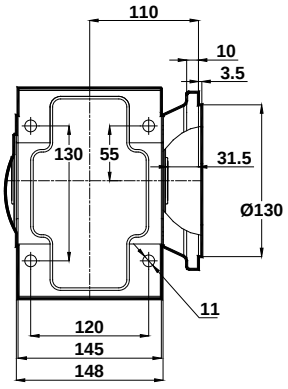
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

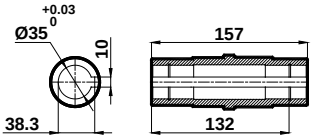


63-71-80
Tipo / *Type* / Typ

KR275.03
KR276.03







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

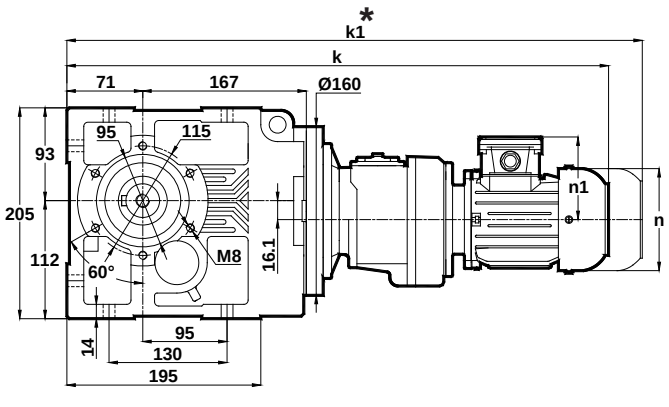
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

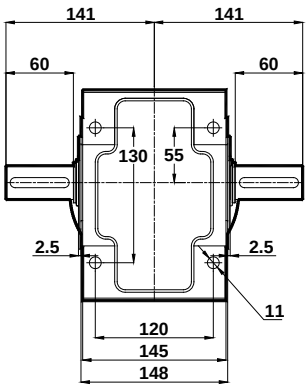


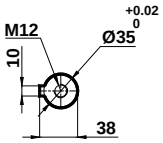
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR275.04
KR276.04

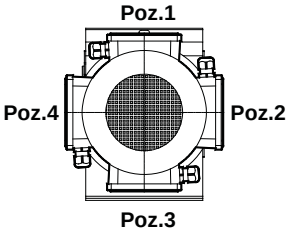






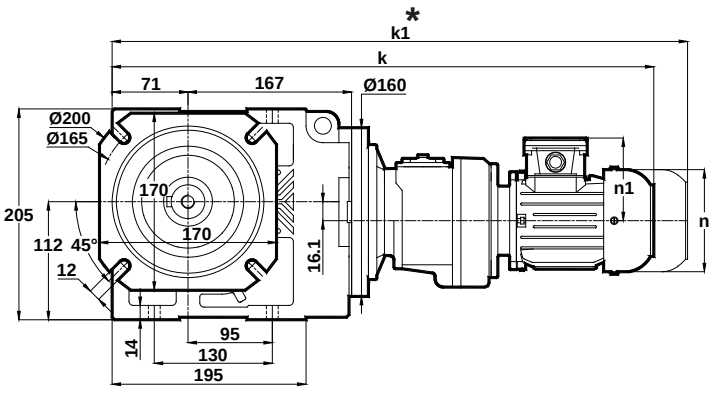
	63	71	80
k	581	600	628
k1	-	720	748
n	116	138	156
n1	97	110	118

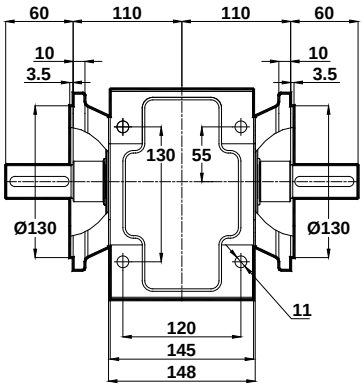
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

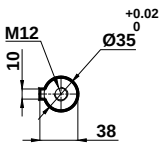


63-71-80
Tipo / *Type* / Typ

KR275.05
KR276.05





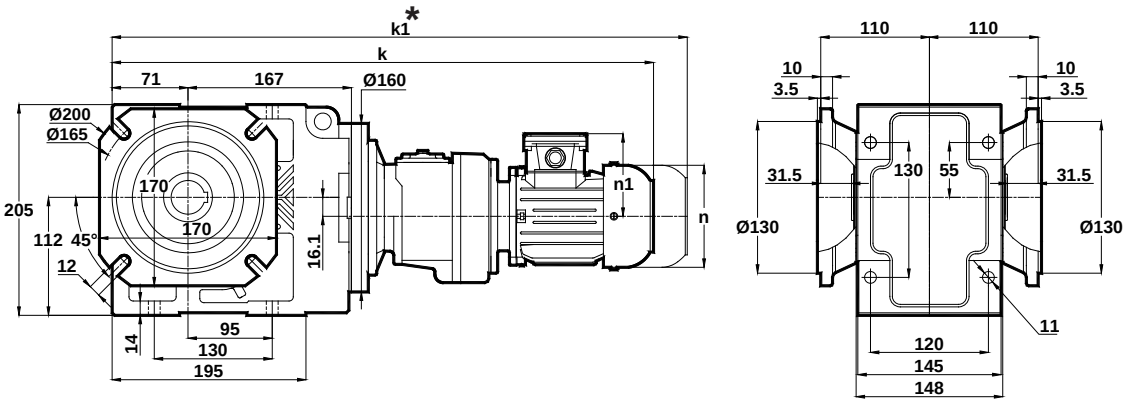


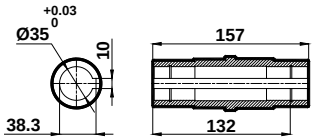
	63	71	80
k	581	600	628
k1	-	720	748
n	116	138	156
n1	97	110	118

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

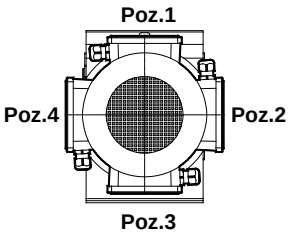
KR275.08
KR276.08





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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

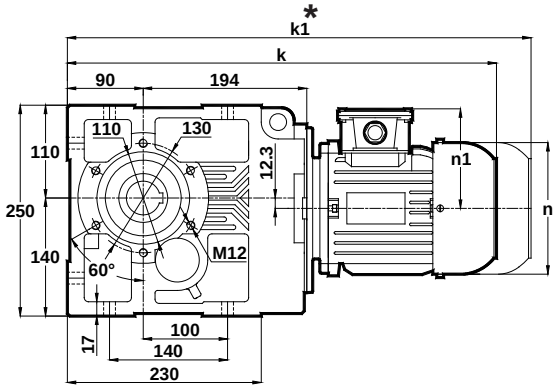
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

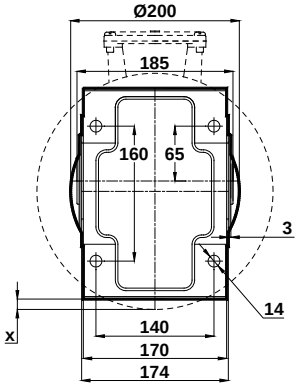


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

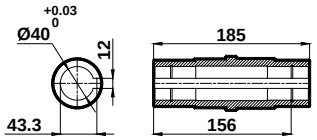
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR373.00

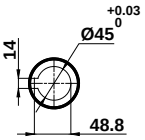




Std.



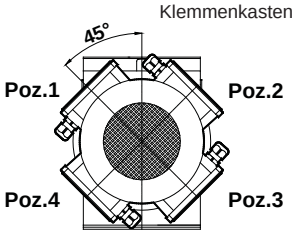
Ops.



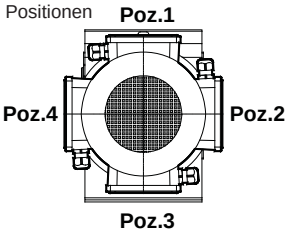
x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

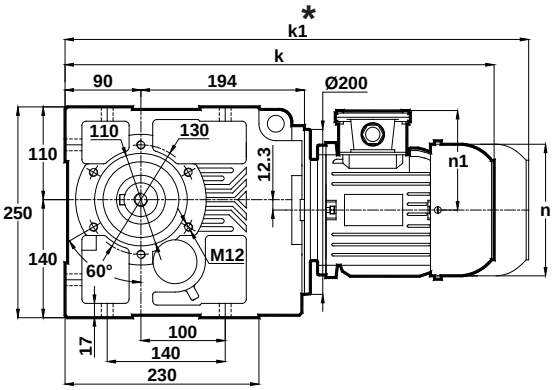


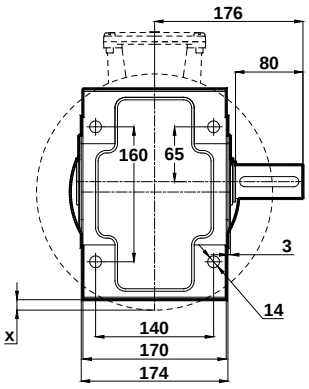
71-100-112-132
Tipo / *Type* **/** Typ

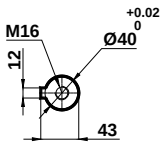


80-90
Tipo / *Type* **/** Typ

KR373.01







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

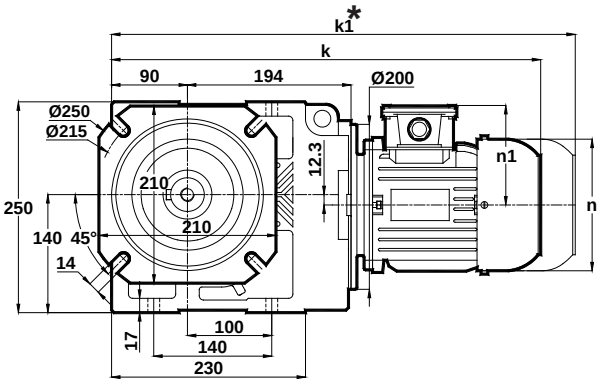
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
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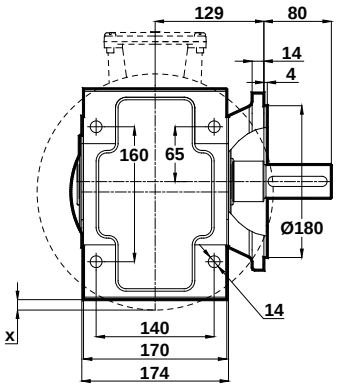


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

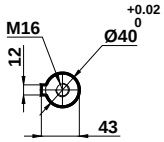
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR373.02



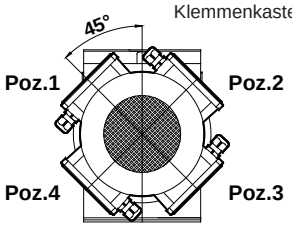


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

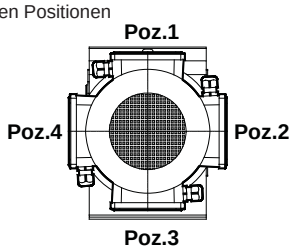


	71	80	90S	90L	100L	112M	132S	132M
k	487	515	544	569	609	632	686	724
k1	607	635	669	694	744	767	831	869
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1,3	1,3

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

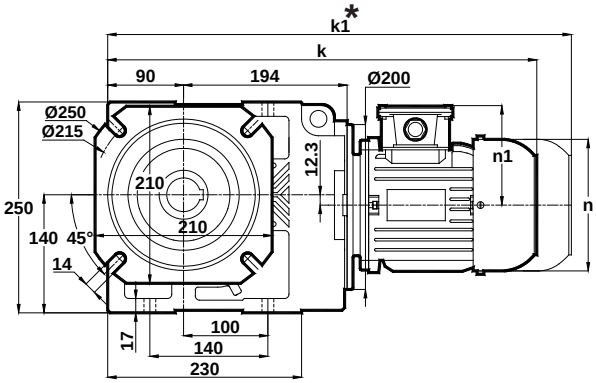


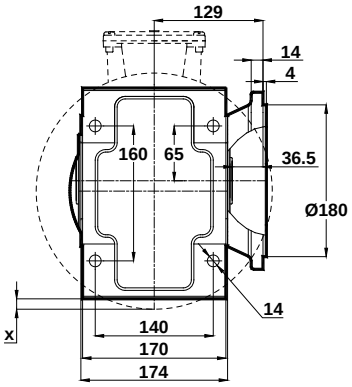
71-100-112-132
Tipo / *Type* **/** Typ



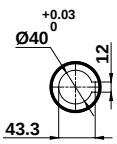
80-90
Tipo / *Type* **/** Typ

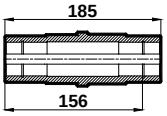
KR373.03



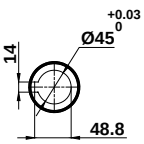


Std.





Ops.



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

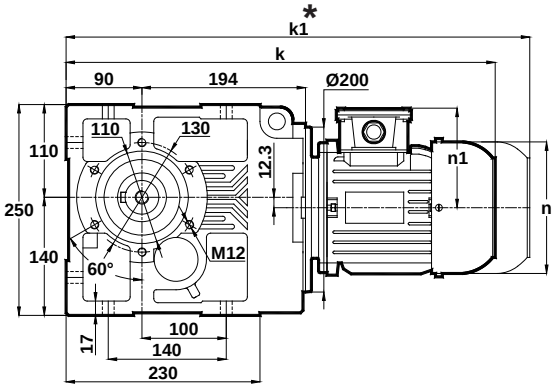
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

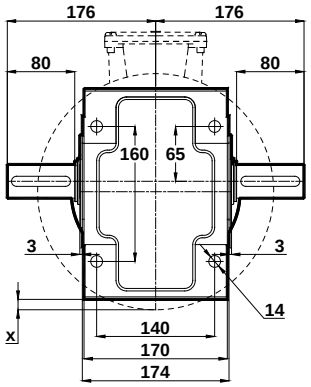


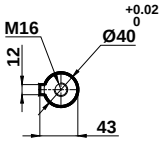
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR373.04



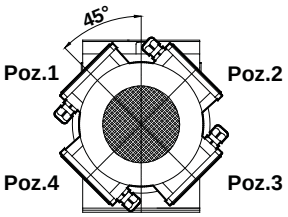




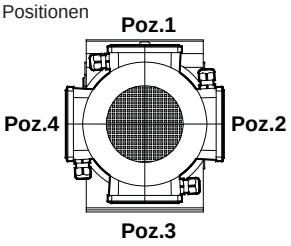
x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

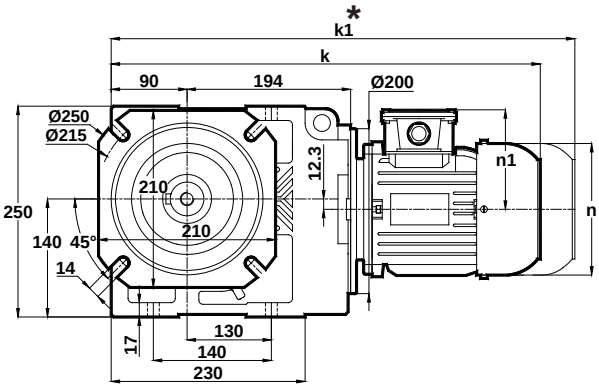


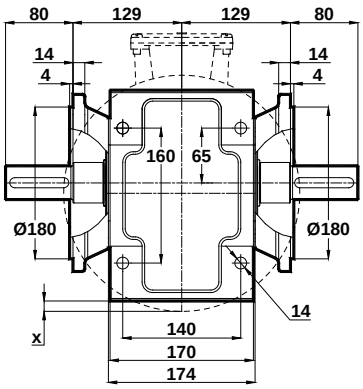
71-100-112-132
Tipo / *Type* **/** Typ

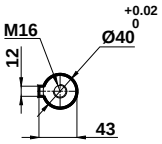


80-90
Tipo / *Type* **/** Typ

KR373.05







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

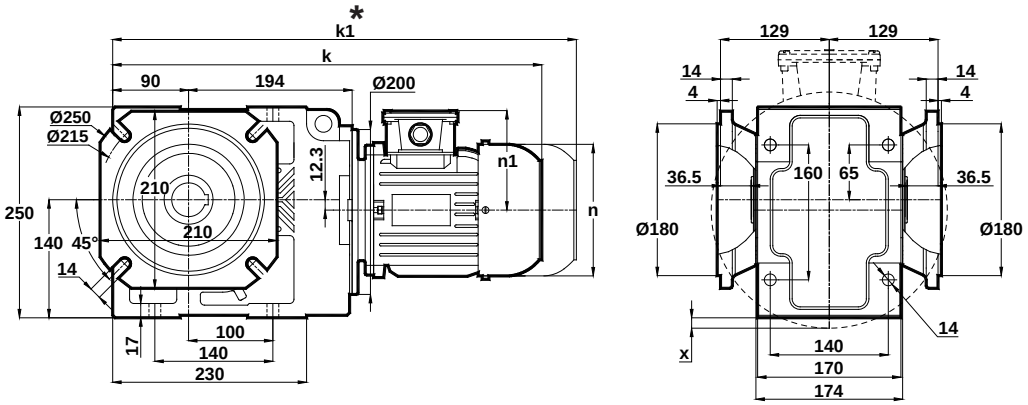
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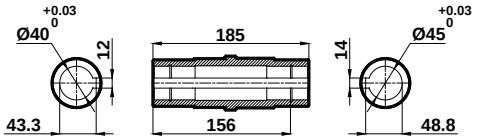


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR373.08

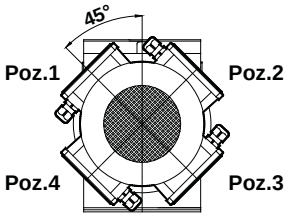




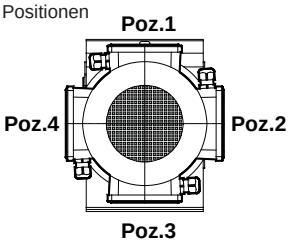
x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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



80-90
Tipo / *Type* **/** Typ

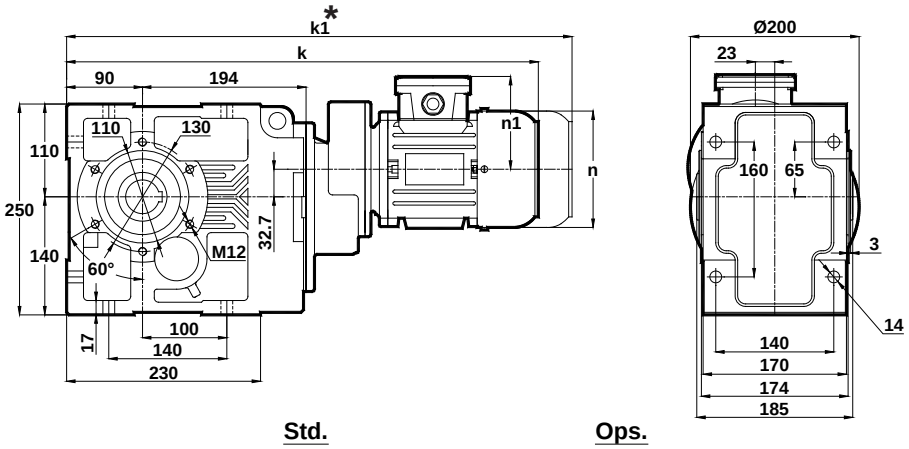
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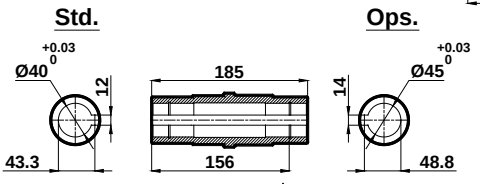


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

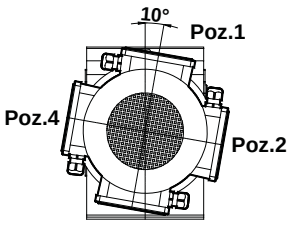
KR374.00



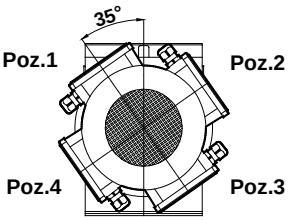


Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

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

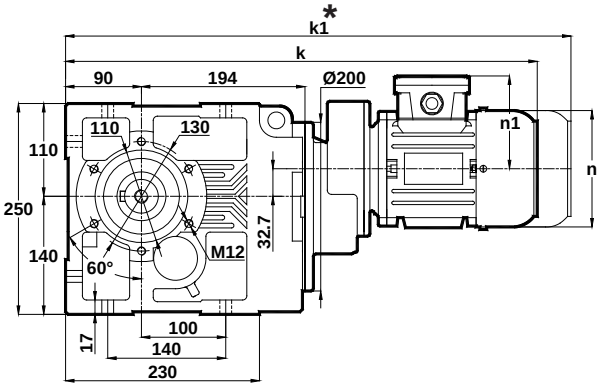


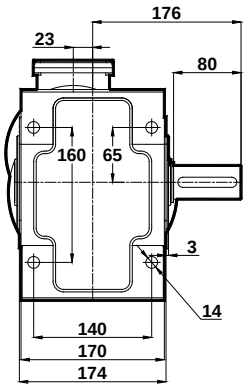
Tipo / *Type* **/** Typ
71

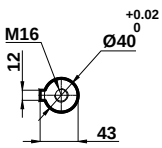


Tipo / *Type* **/** Typ
63-80

KR374.01





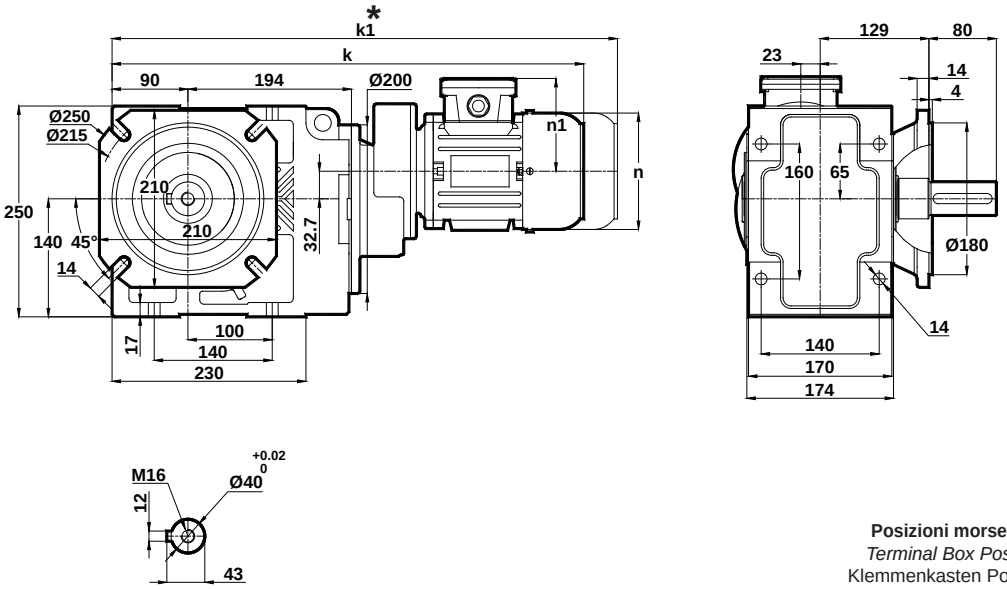


	63	71	80
k	547	566	594
k1	-	686	714
n	116	138	156
n1	97	110	118

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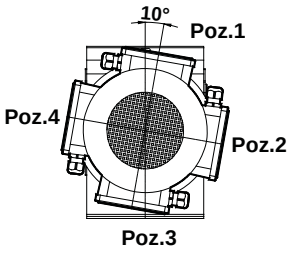
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR374.02

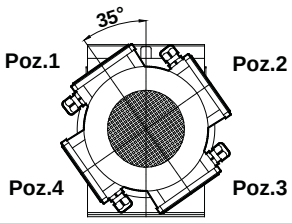


	63	71	80
k	547	566	594
k1	-	686	714
n	116	138	156
n1	97	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

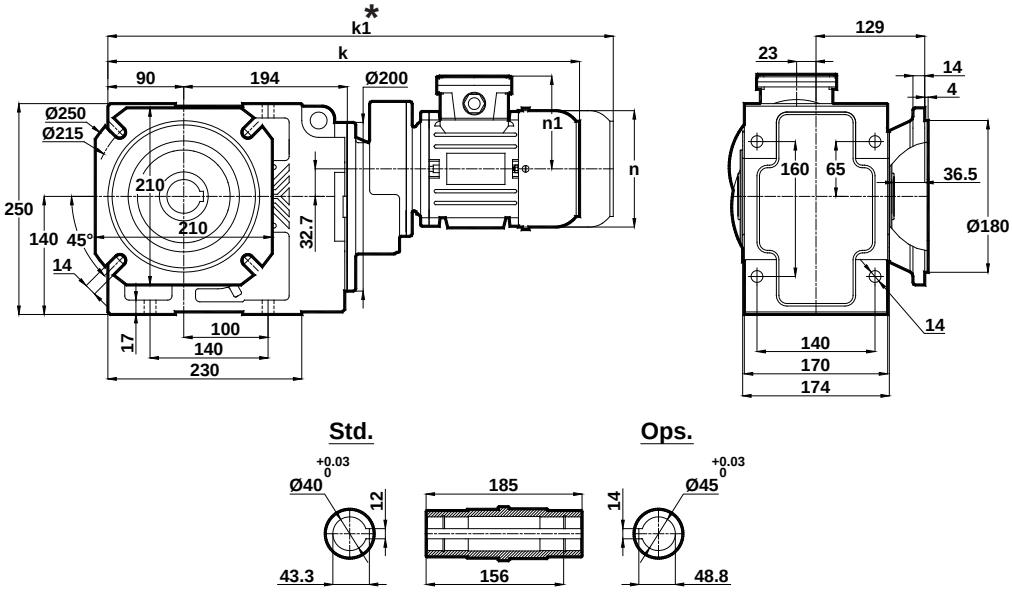


71
Tipo / *Type* **/** Typ



63-80
Tipo / *Type* **/** Typ

KR374.03



Std.

Ops.

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

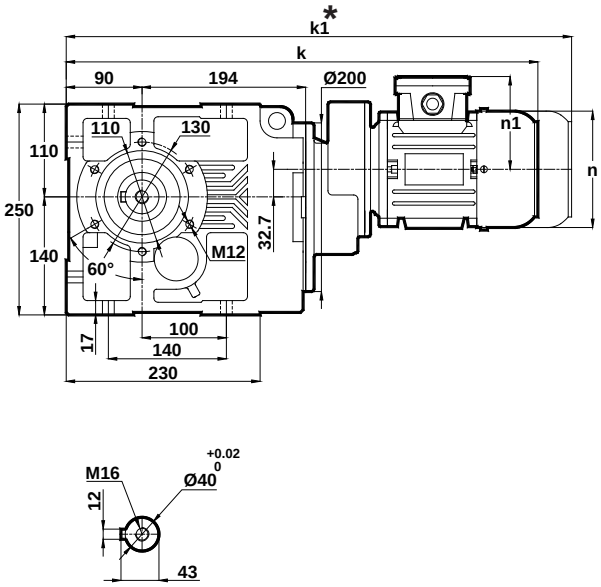
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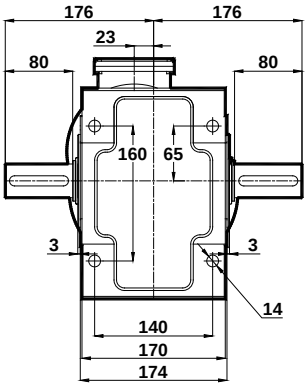


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

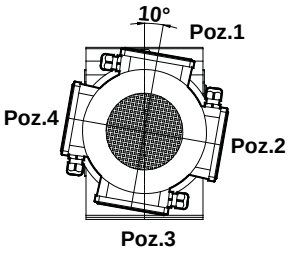
KR374.04



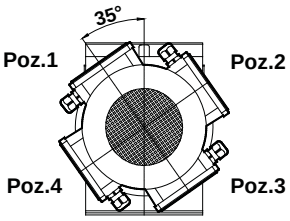


	63	71	80
k	547	566	594
k1	-	686	714
n	116	138	156
n1	97	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

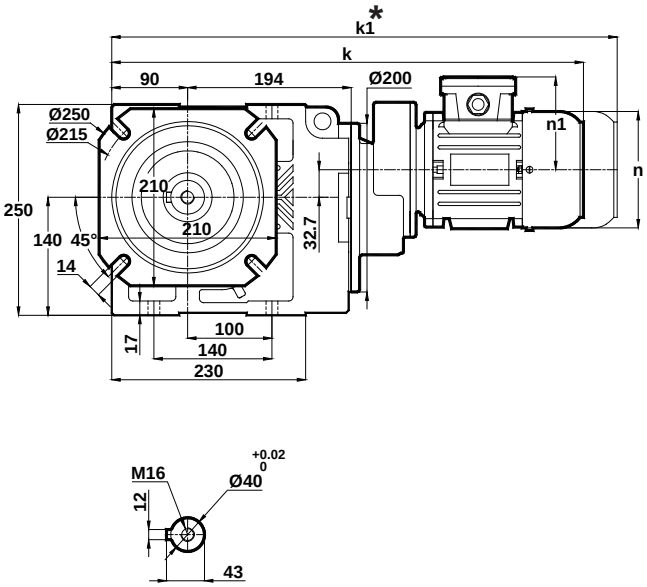


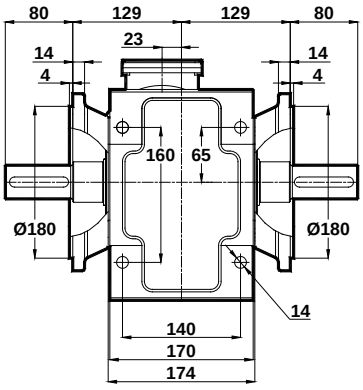
71
Tipo / *Type* **/** Typ



63-80
Tipo / *Type* **/** Typ

KR374.05



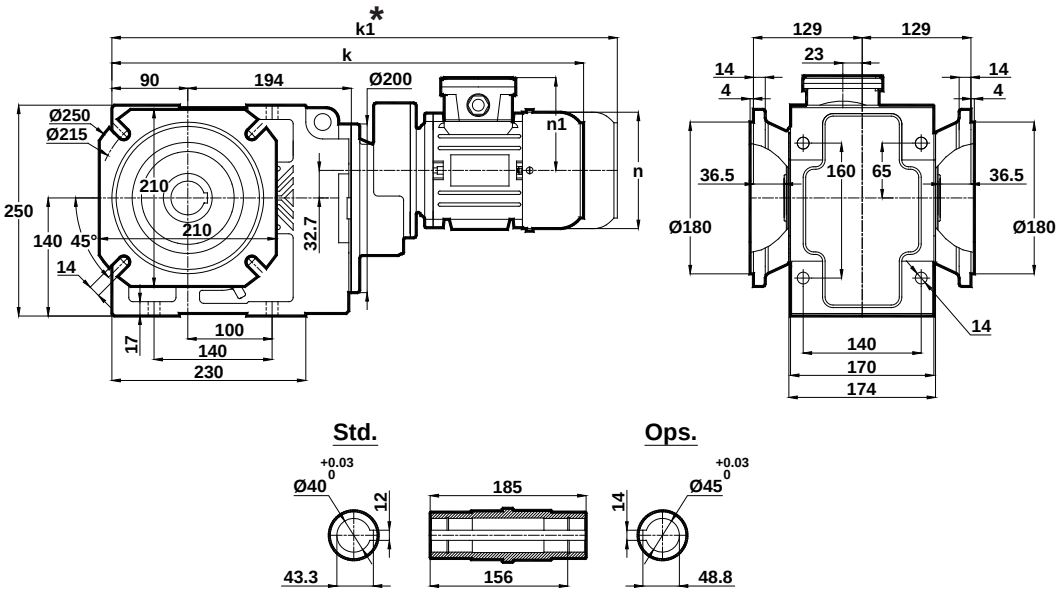


	63	71	80
k	547	566	594
k1	-	686	714
n	116	138	156
n1	97	110	118

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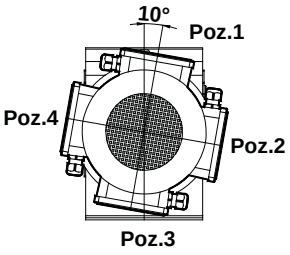
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR374.08

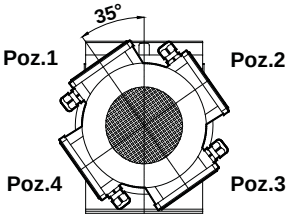


	63	71	80
k	547	566	594
k1	-	686	714
n	116	138	156
n1	97	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71
Tipo / *Type* **/** Typ



63-80
Tipo / *Type* **/** Typ

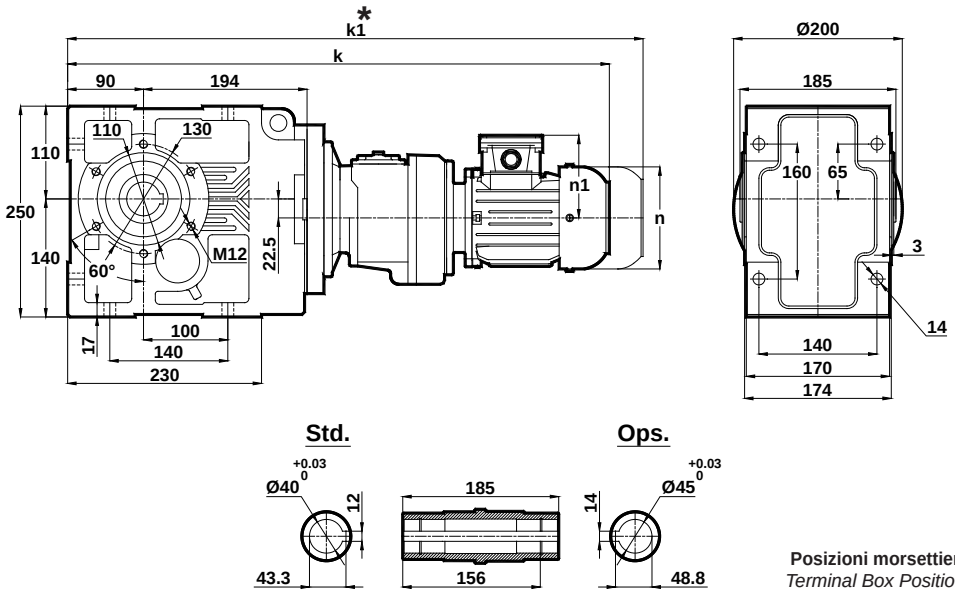
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Tabelle dimensionali
Dimension Pages
Abmessungsseiten

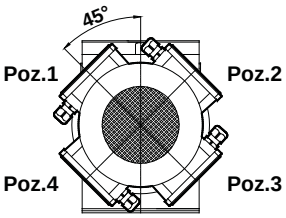
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR375.00
KR376.00



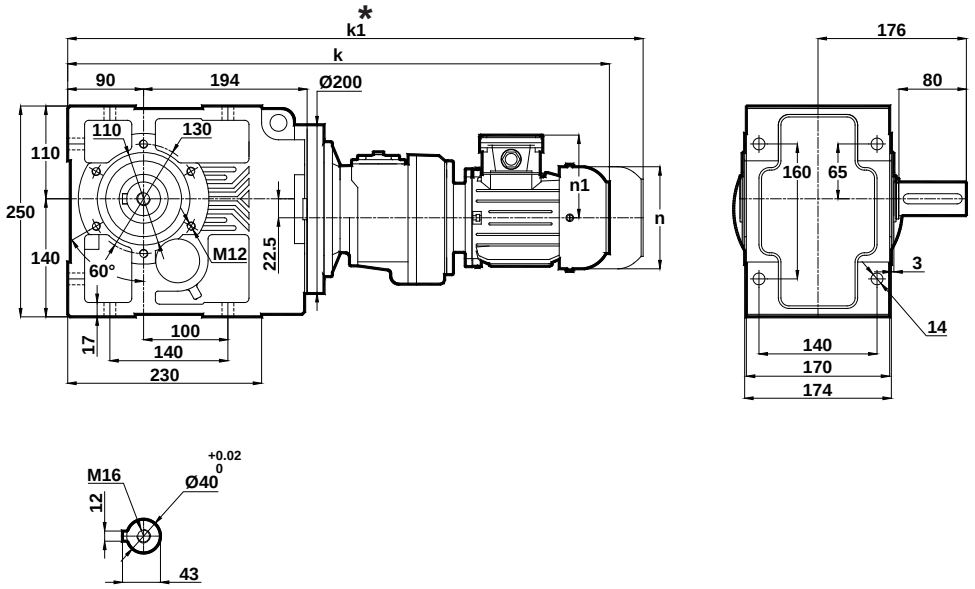
	63	71
k	647	666
k1	-	786
n	116	138
n1	97	110

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tipo / *Type* **/** Typ

KR375.01
KR376.01



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

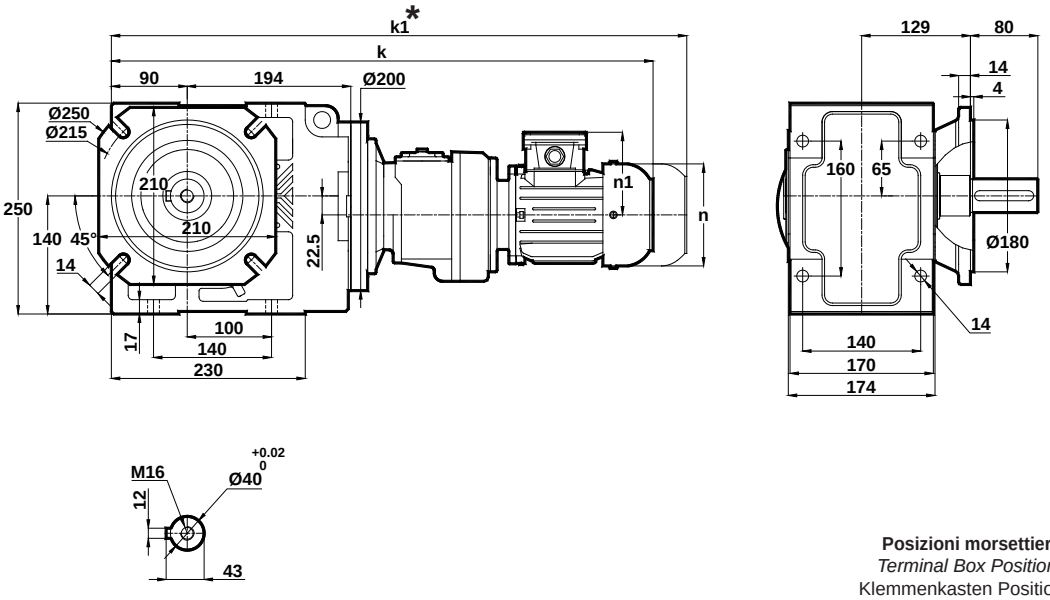
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Tabelle dimensionali
Dimension Pages
Abmessungsseiten

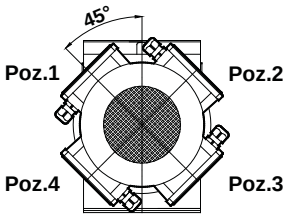
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR375.02
KR376.02



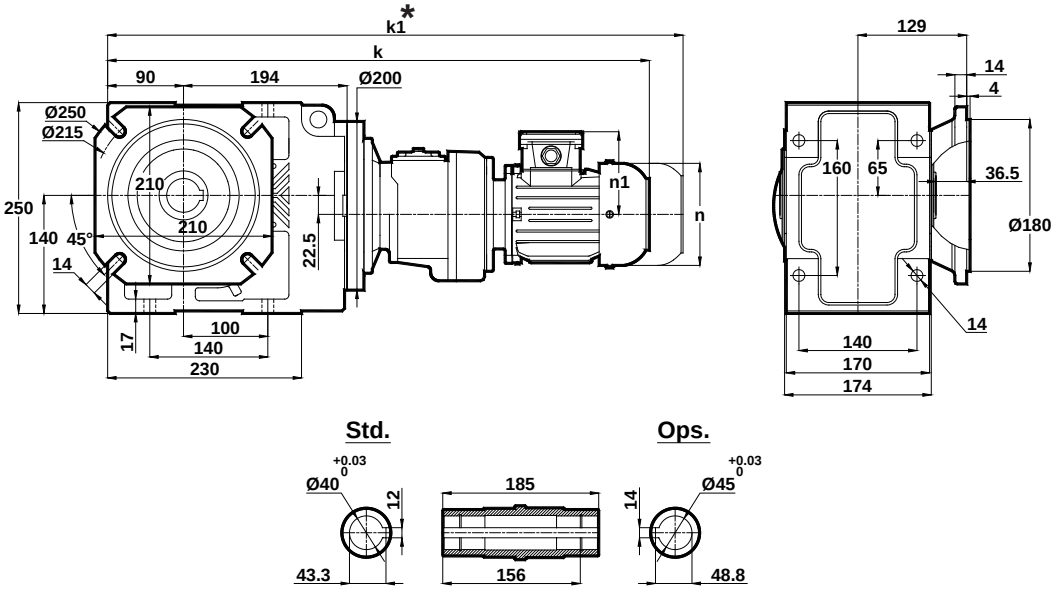
	63	71
k	647	666
k1	-	786
n	116	138
n1	97	110

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tipo / *Type* / Typ

KR375.03
KR376.03



Std.

Ops.

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

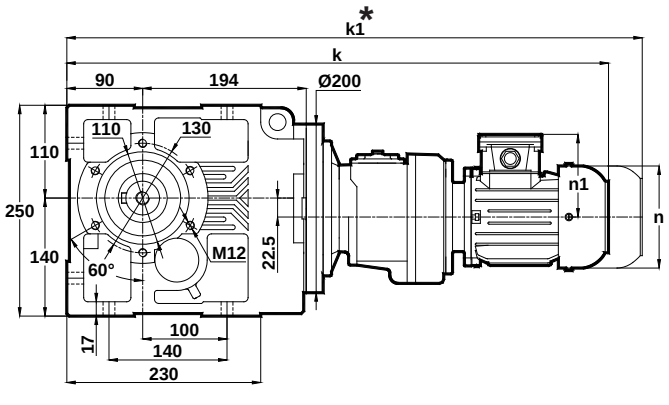
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
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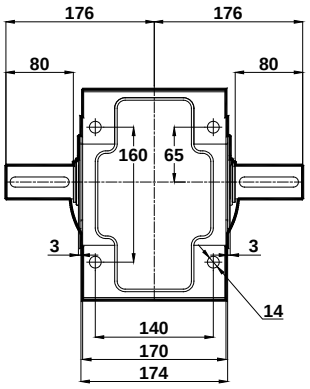


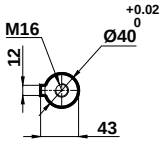
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR375.04
KR376.04

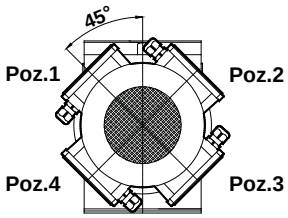






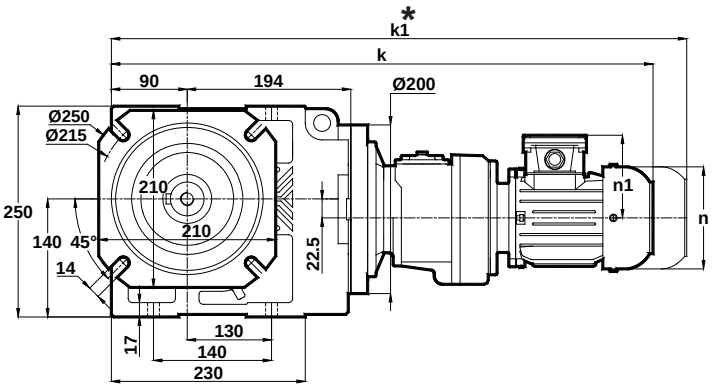
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k	647	666
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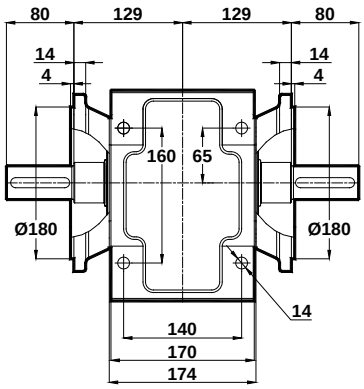
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

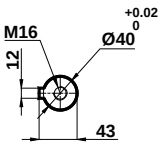


63-71
Tipo / *Type* **/** Typ

KR375.05
KR376.05







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

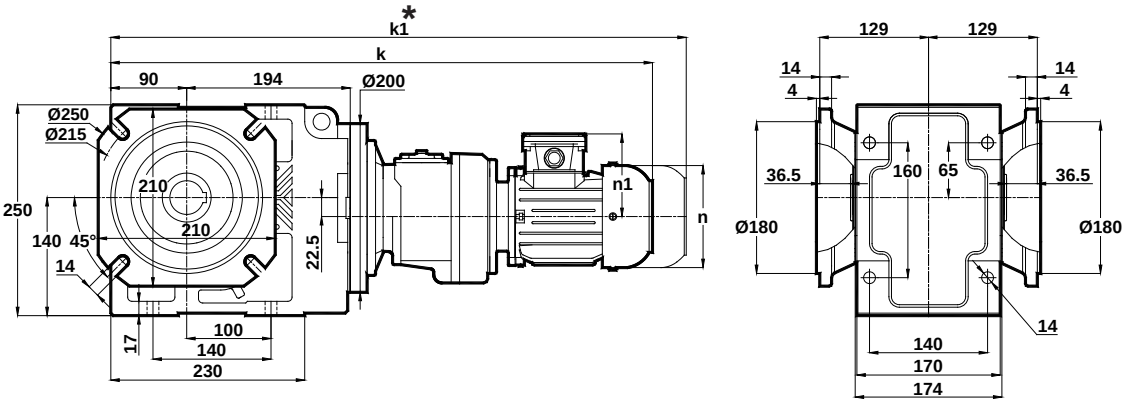
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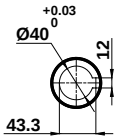
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

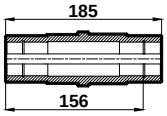
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR375.08
KR376.08

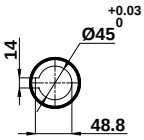


Std.



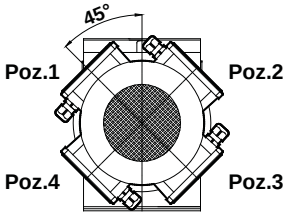


Ops.



	63	71
k	647	666
k1	-	786
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n1	97	110

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tipo / *Type* **/** Typ

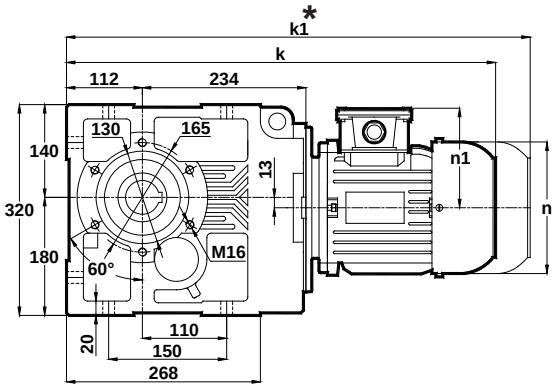
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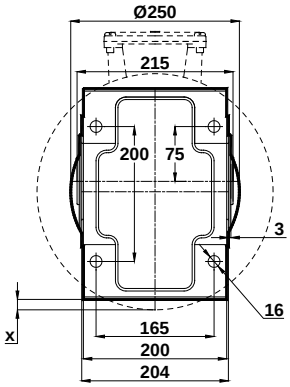


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

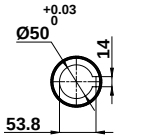
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

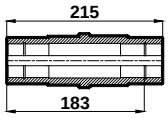
KR473.00



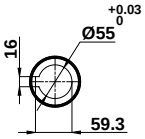


Std.



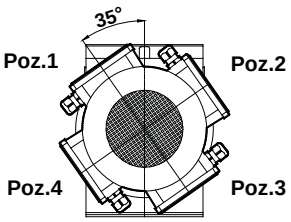


Ops.



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

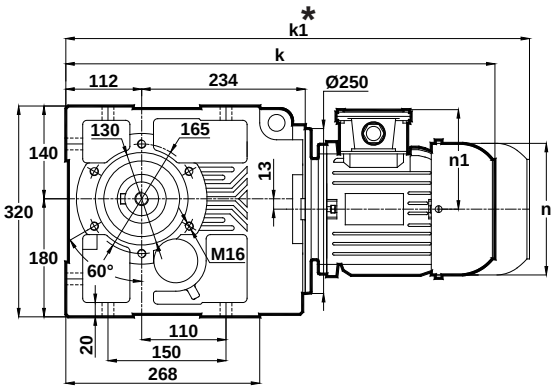
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

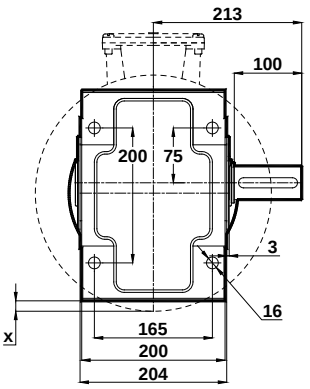


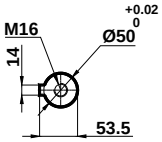
80-90-100-112-132-160-180
Tipo / *Type* / Typ

	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: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

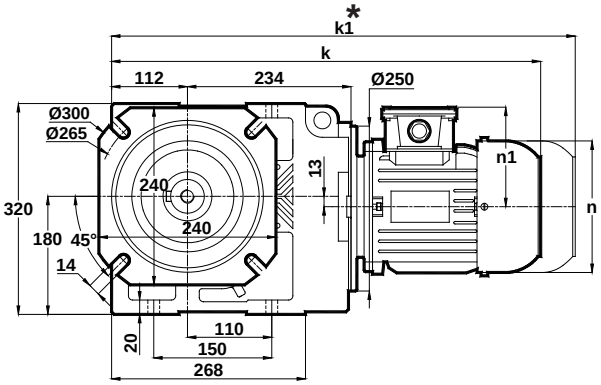
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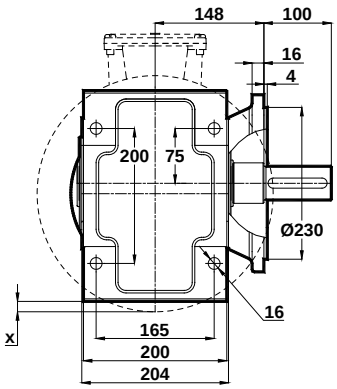


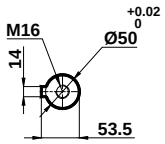
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR473.02

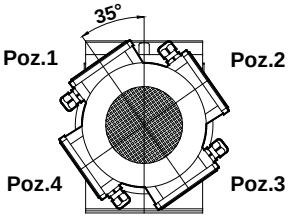






x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

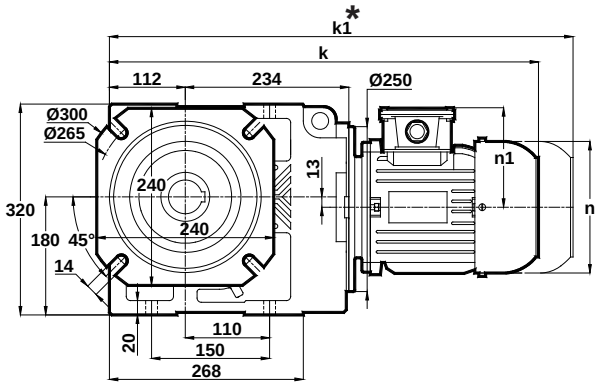
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

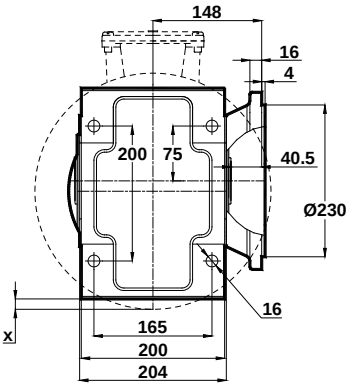


80-90-100-112-132-160-180
Tipo / *Type* **/** Typ

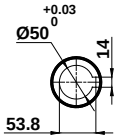
	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	572	600	625	663	689	738	776	851	895	912	950
k1	692	725	750	798	824	883	921	1021	1065	1082	1120
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

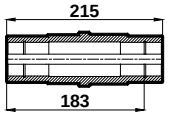
KR473.03



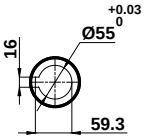


Std.





Ops.



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	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

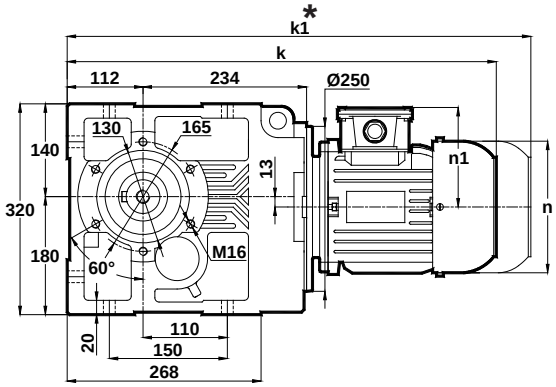
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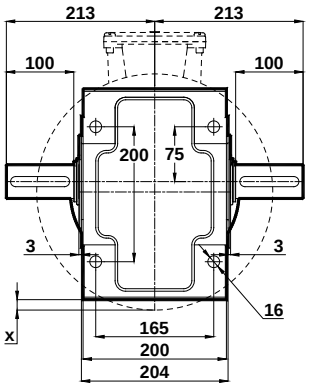


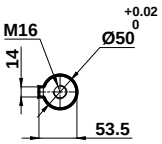
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR473.04

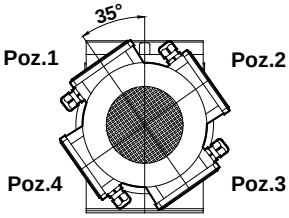






x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

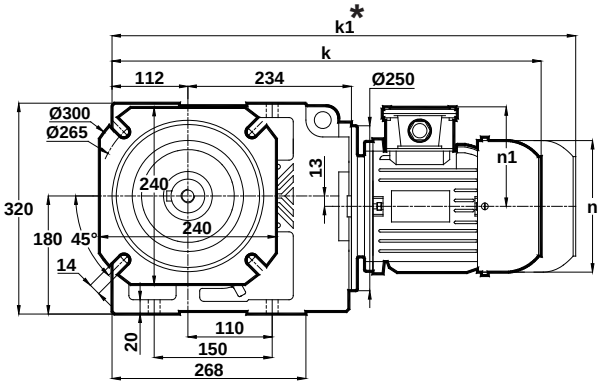
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

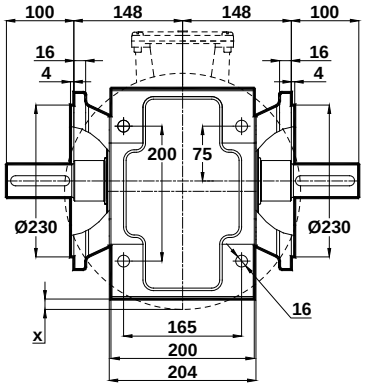


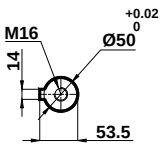
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k	572	600	625	663	689	738	776	851	895	912	950
k1	692	725	750	798	824	883	921	1021	1065	1082	1120
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

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

KR473.05







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

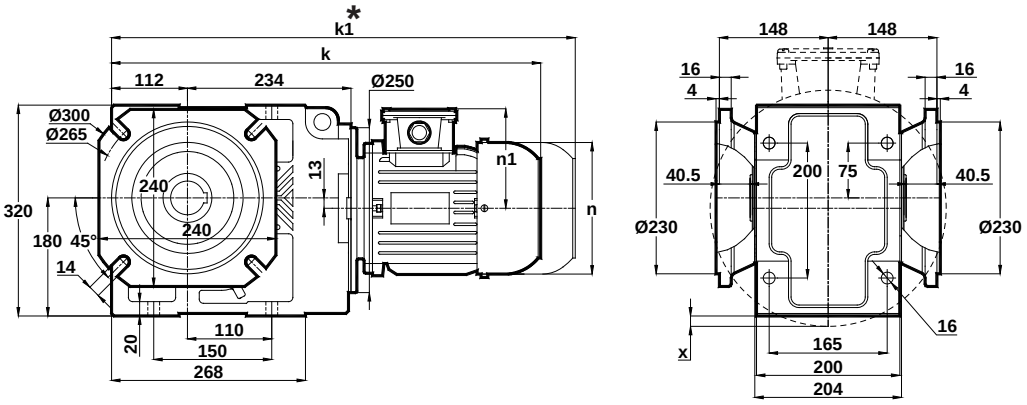
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

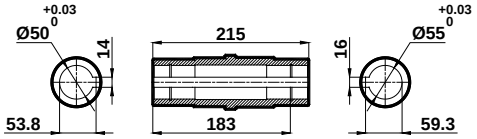


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR473.08

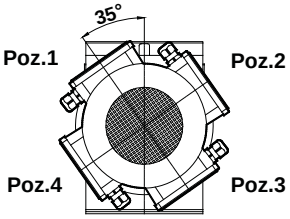




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
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	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	572	600	625	663	689	738	776	851	895	912	950
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n	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

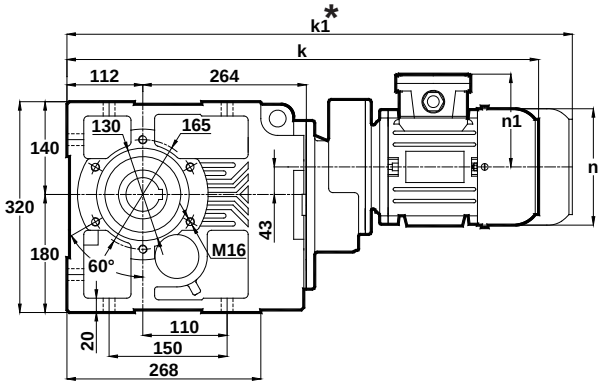
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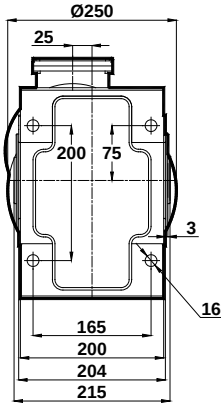


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

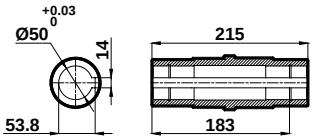
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR474.00

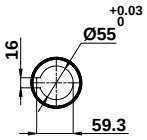




Std.

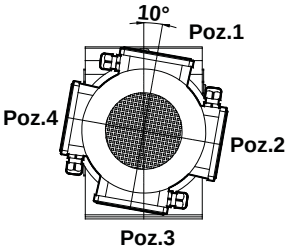


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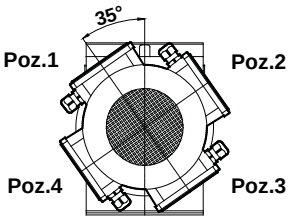


	71	80
k	637	665
k1	757	785
n	138	156
n1	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

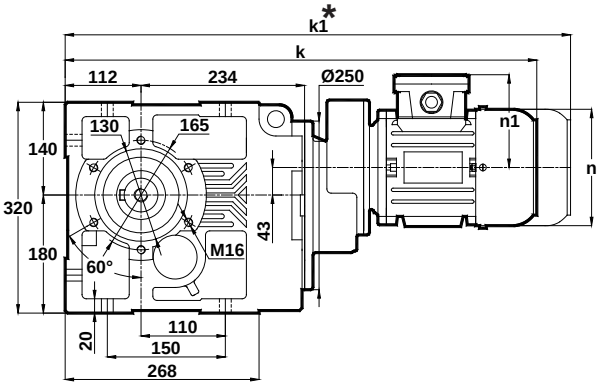


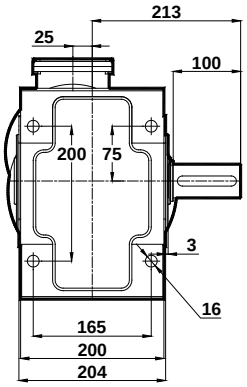
80
Tipo / *Type* **/** Typ

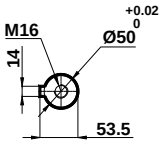


71
Tipo / *Type* **/** Typ

KR474.01





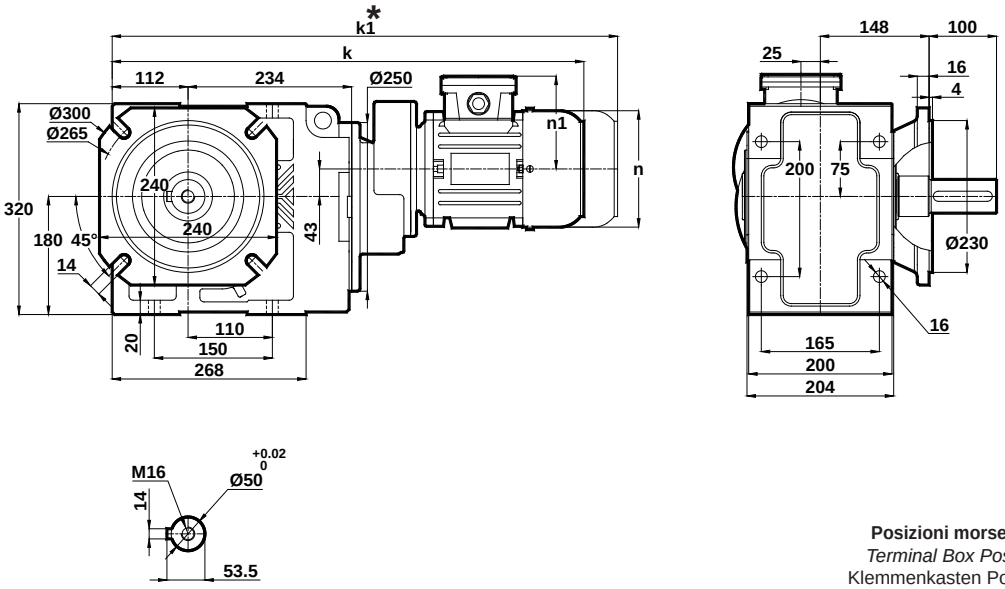


	71	80
k	637	665
k1	757	785
n	138	156
n1	110	118

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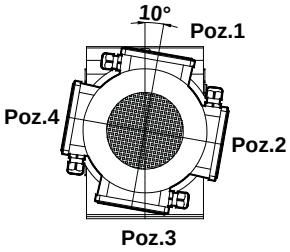
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR474.02

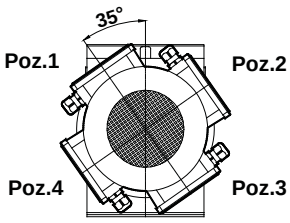


	71	80
k	637	665
k1	757	785
n	138	156
n1	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

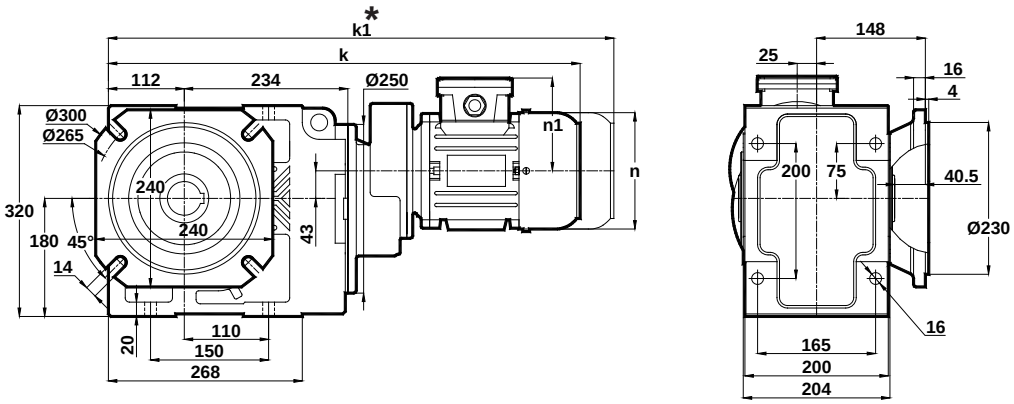


80
Tipo / *Type* **/** Typ

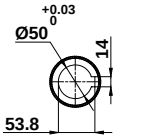


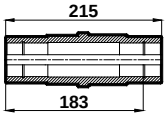
71
Tipo / *Type* **/** Typ

KR474.03

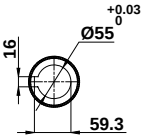


Std.





Ops.



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

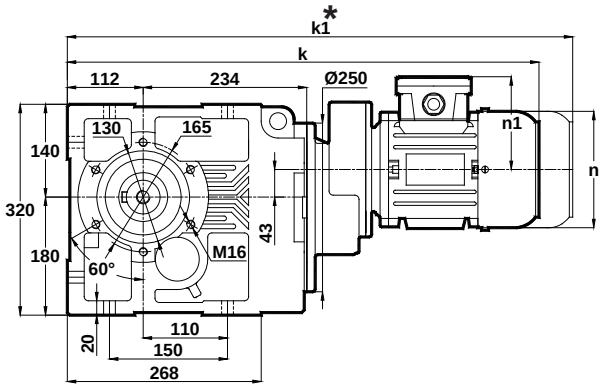
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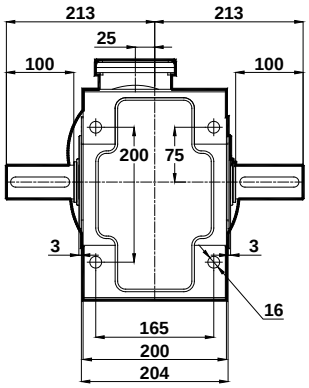


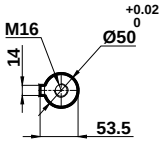
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR474.04

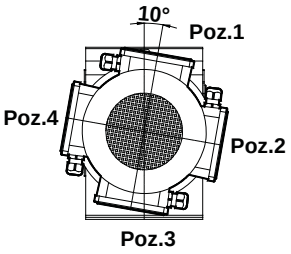




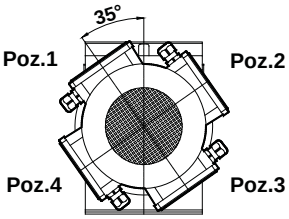


	71	80
k	637	665
k1	757	785
n	138	156
n1	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

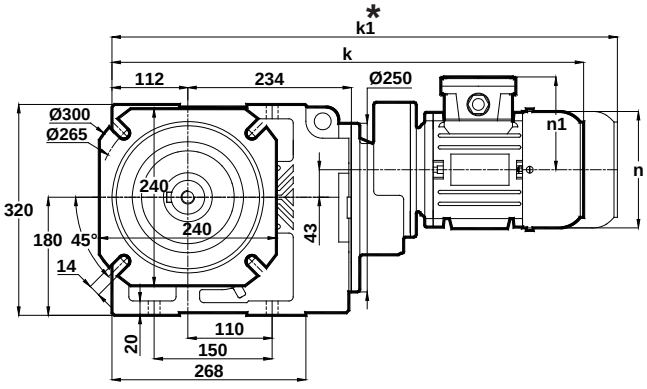


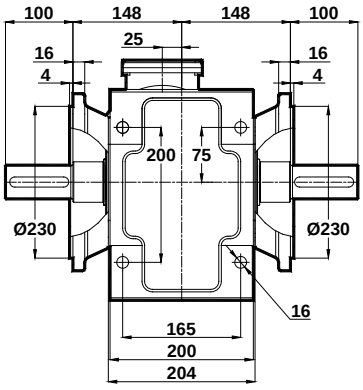
80
Tipo / *Type* **/** Typ

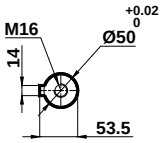


71
Tipo / *Type* **/** Typ

KR474.05





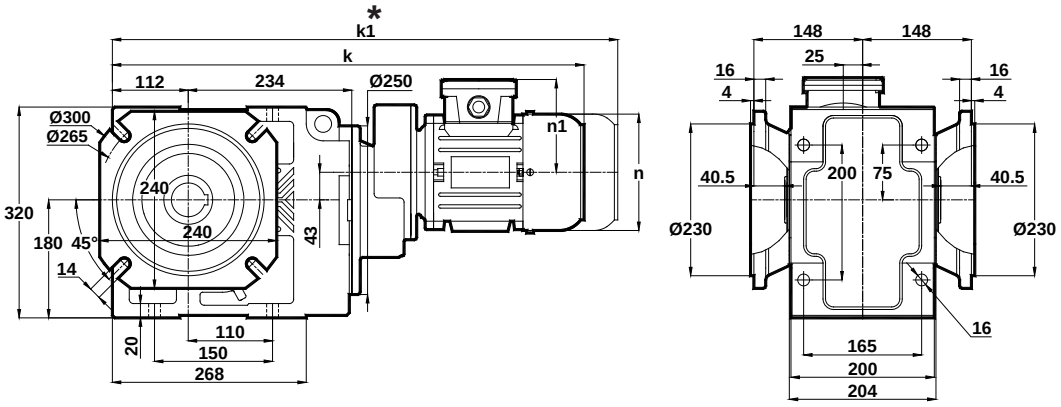


	71	80
k	637	665
k1	757	785
n	138	156
n1	110	118

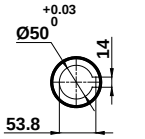
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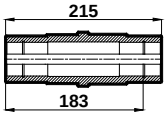
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR474.08

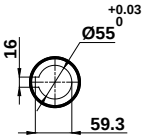


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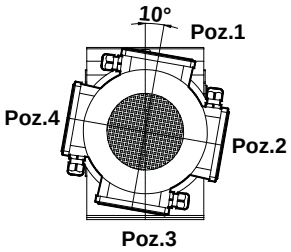


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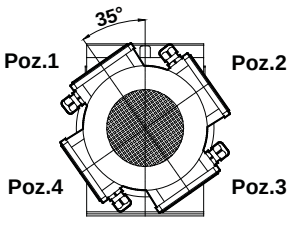


	71	80
k	637	665
k1	757	785
n	138	156
n1	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



80
Tipo / ***Type*** **/** Typ



71
Tipo / ***Type*** **/** Typ

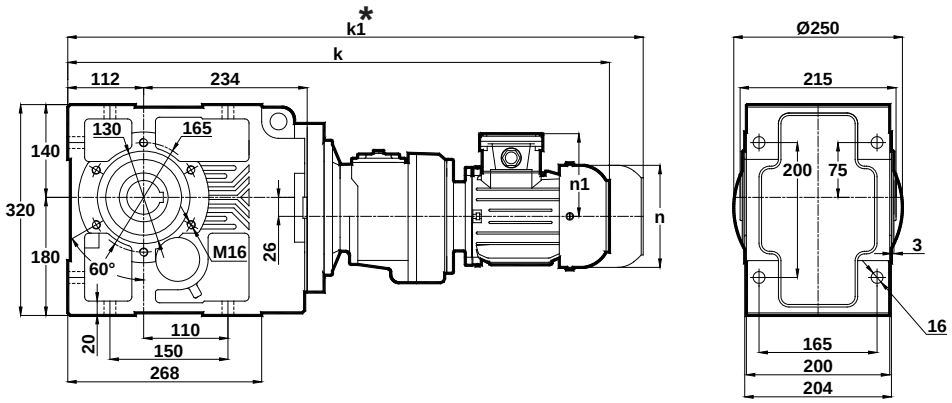
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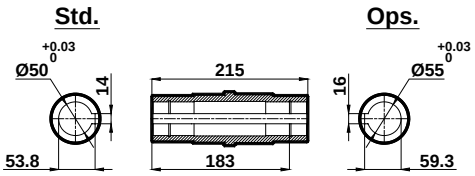


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

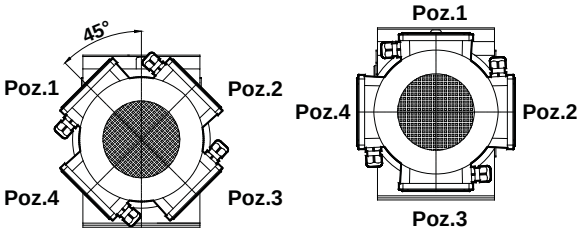
KR475.00
KR476.00





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

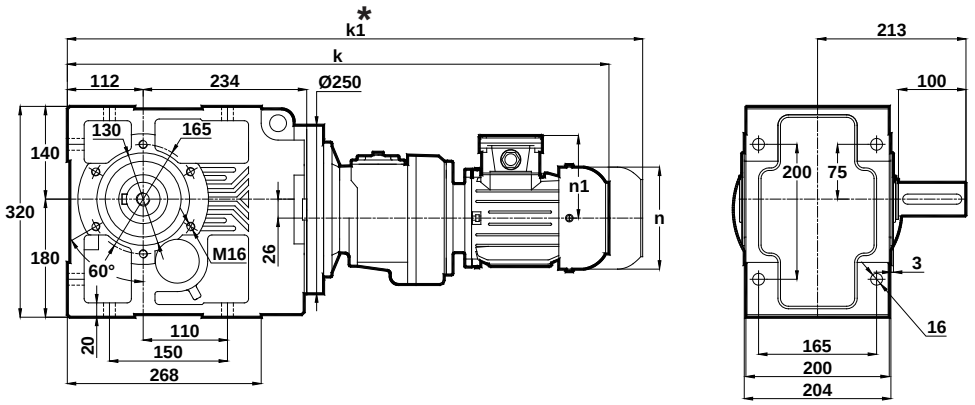
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

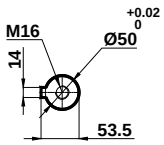


71
Tipo / *Type* **/** Typ

63
Tipo / *Type* **/** Typ

KR475.01
KR476.01





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

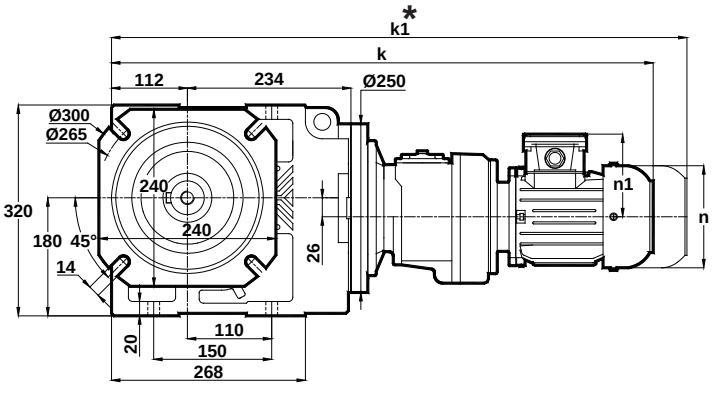
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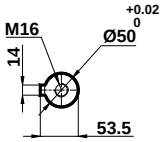


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

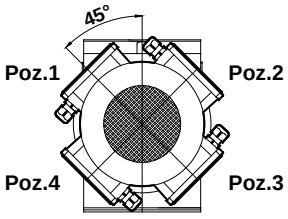
KR475.02
KR476.02



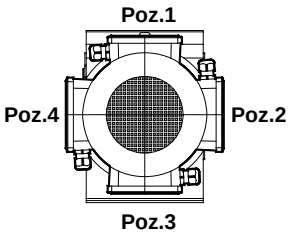


	63	71
k	748	767
k1	-	887
n	116	138
n1	97	110

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

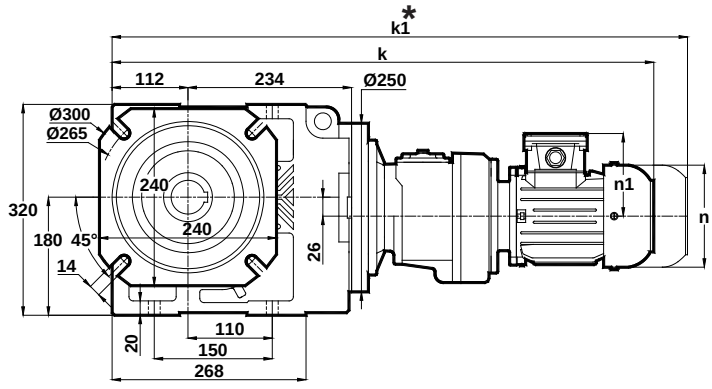


71
Tipo / *Type* **/** Typ

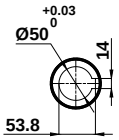


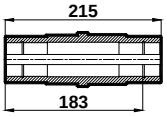
63
Tipo / *Type* **/** Typ

KR475.03
KR476.03

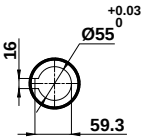


Std.





Ops.



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

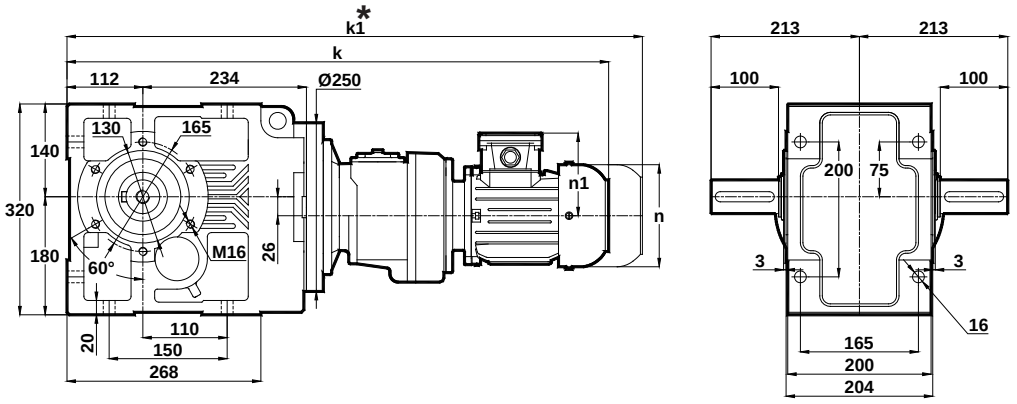
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

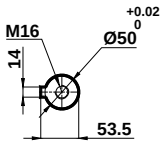


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

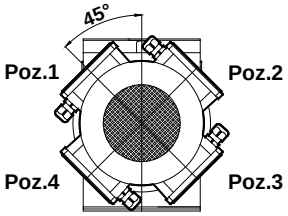
KR475.04
KR476.04



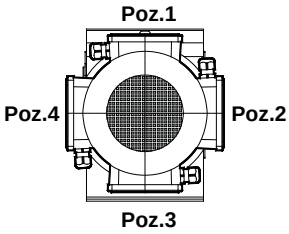


	63	71
k	748	767
k1	-	887
n	116	138
n1	97	110

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

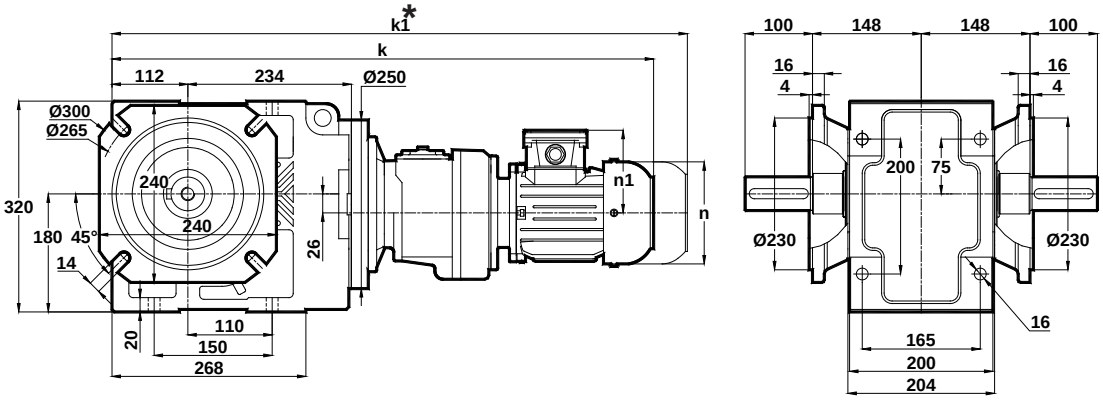


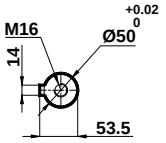
71
Tipo / *Type* **/** Typ



63
Tipo / *Type* **/** Typ

KR475.05
KR476.05



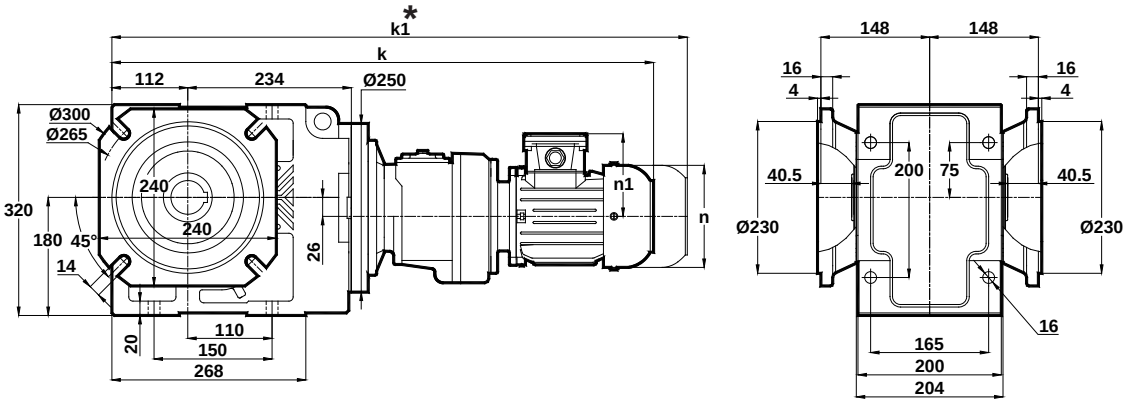


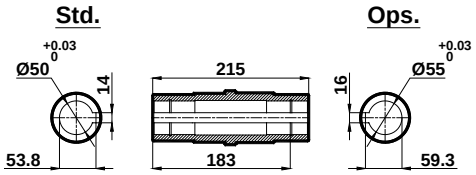
	63	71
k	748	767
k1	-	887
n	116	138
n1	97	110

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

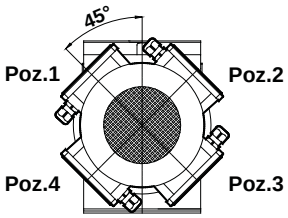
KR475.08
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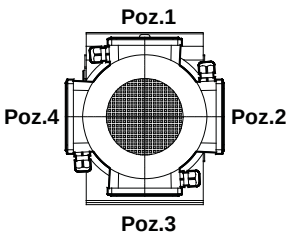


	63	71
k	748	767
k1	-	887
n	116	138
n1	97	110

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71
Tipo / *Type* **/** Typ



63
Tipo / *Type* **/** Typ

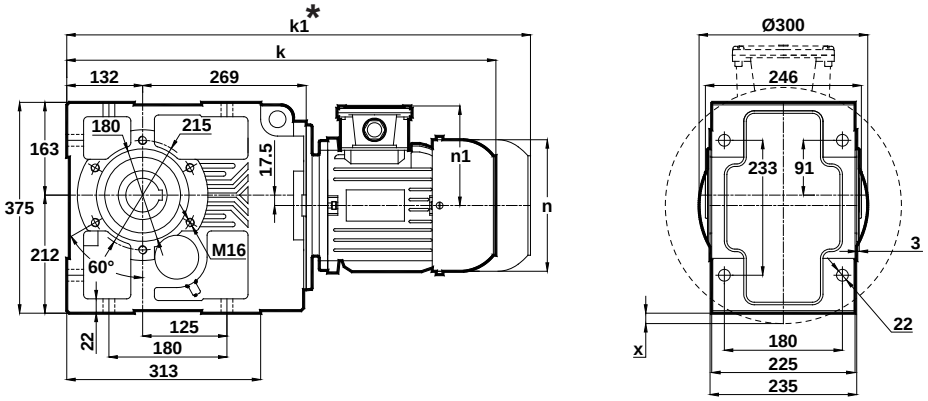
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
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Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



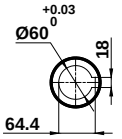
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

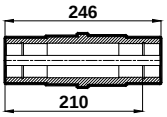
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR573.00

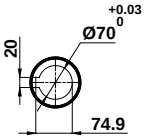


Std.





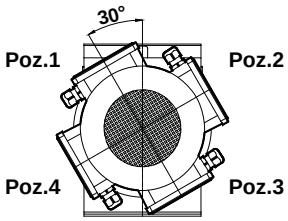
Ops.



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

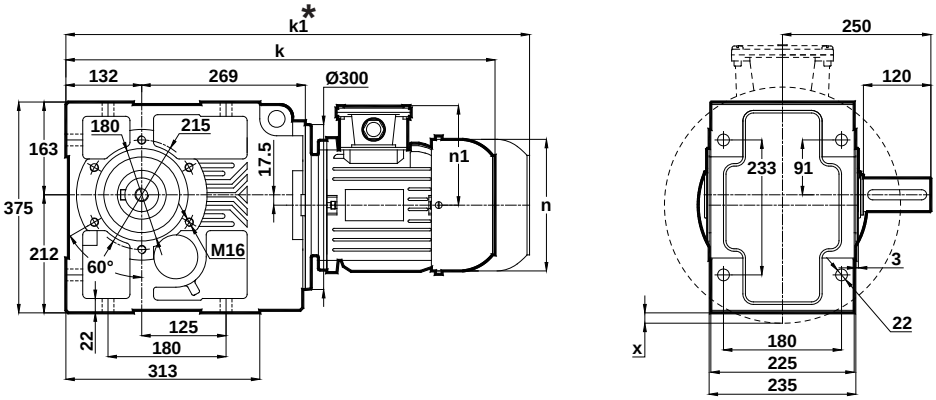
	100L	112M	132S	132M	160M	160L	180M	180L
k	711,5	734,5	788,5	826,5	901,5	945,5	962	1000
k1	846,5	869,5	933,5	971,5	1071,5	1115,5	1132	1170
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

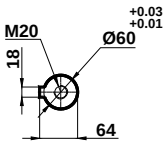
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

KR573.01





x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-	-	-	-

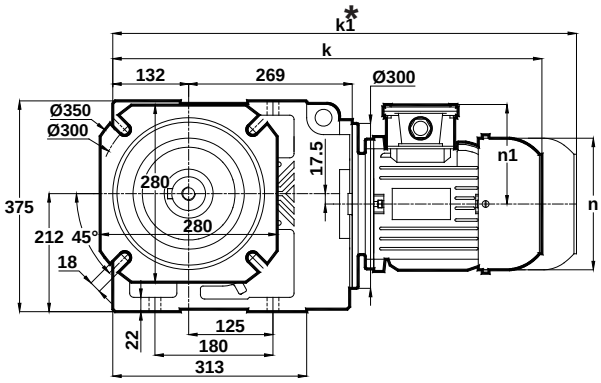
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
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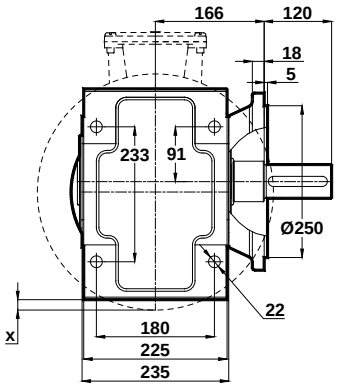


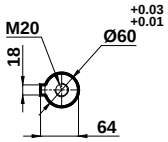
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR573.02



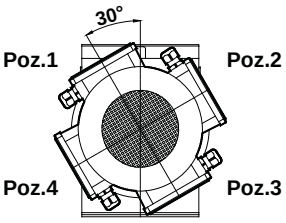




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

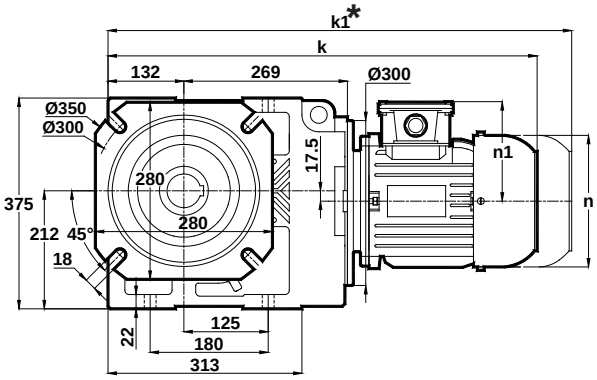
	100L	112M	132S	132M	160M	160L	180M	180L
k	711,5	734,5	788,5	826,5	901,5	945,5	962	1000
k1	846,5	869,5	933,5	971,5	1071,5	1115,5	1132	1170
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

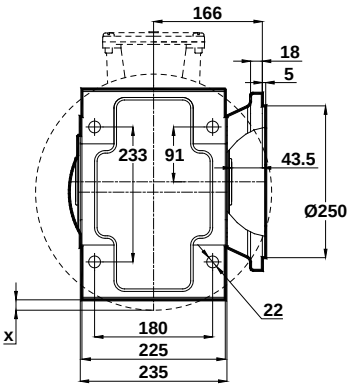
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



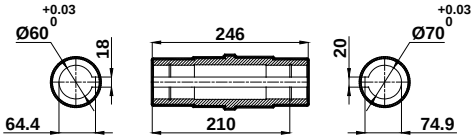
100-112-132-160-180
Tipo / *Type* / Typ

KR573.03





Std. **Ops.**



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-	-	-	-

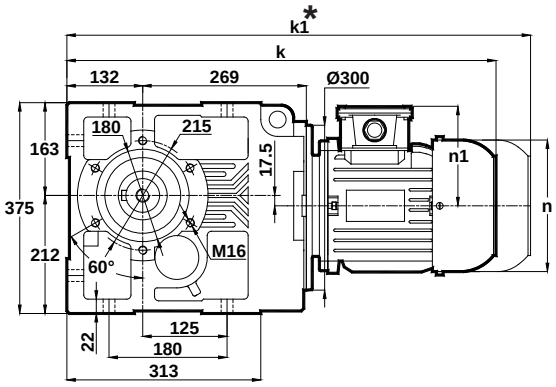
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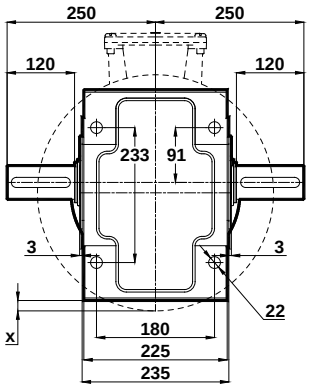


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

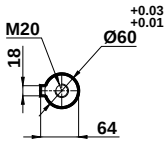
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR573.04

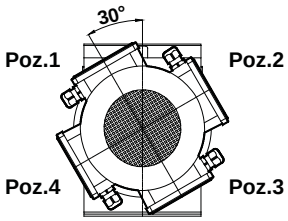




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte



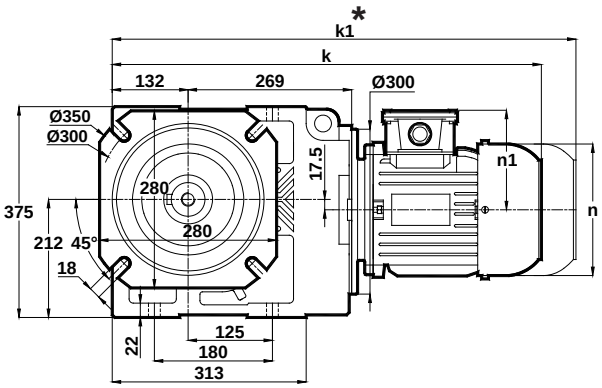
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

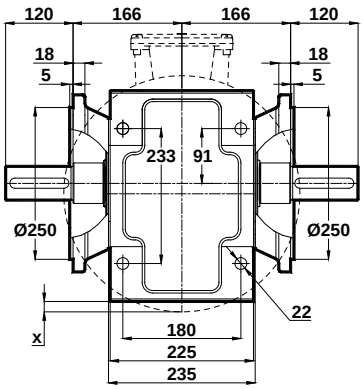


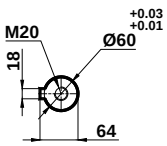
100-112-132-160-180
Tipo / *Type* **/** Typ

	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: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-	-	-	-

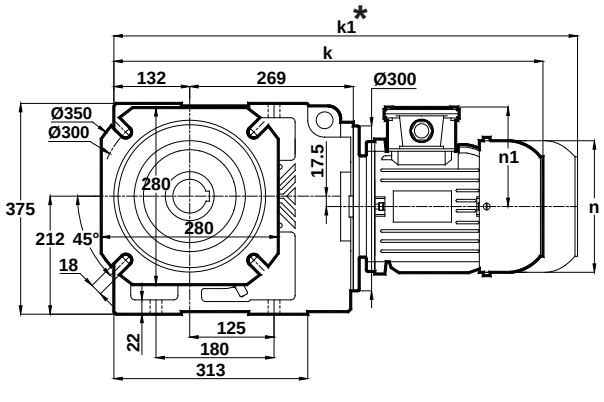
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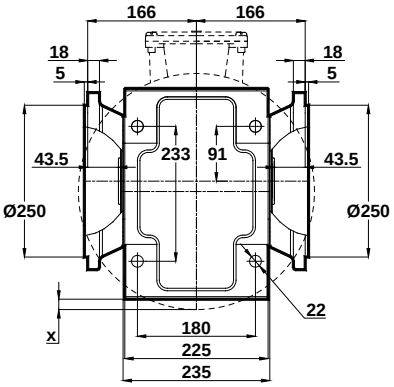


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

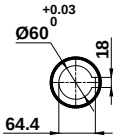
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

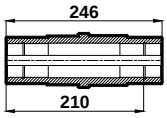
KR573.08



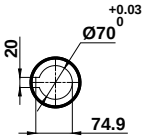


Std.





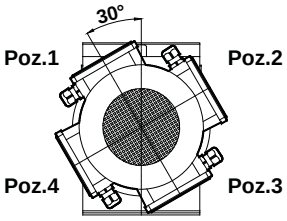
Ops.



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-	-	-	-

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

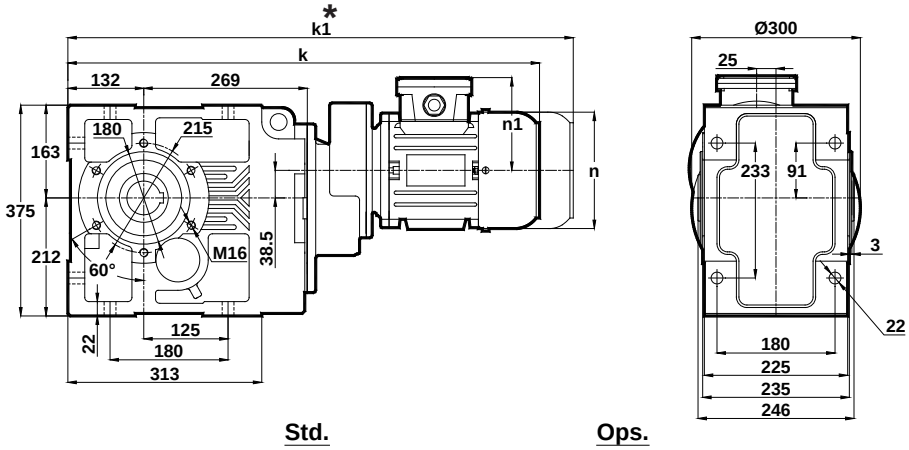
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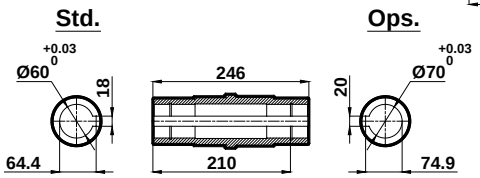


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

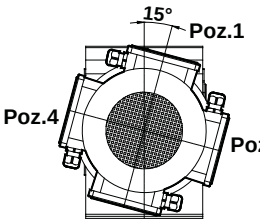
KR574.00



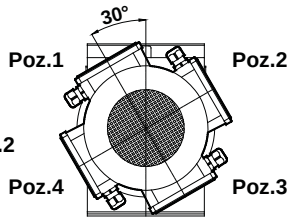


Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

	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

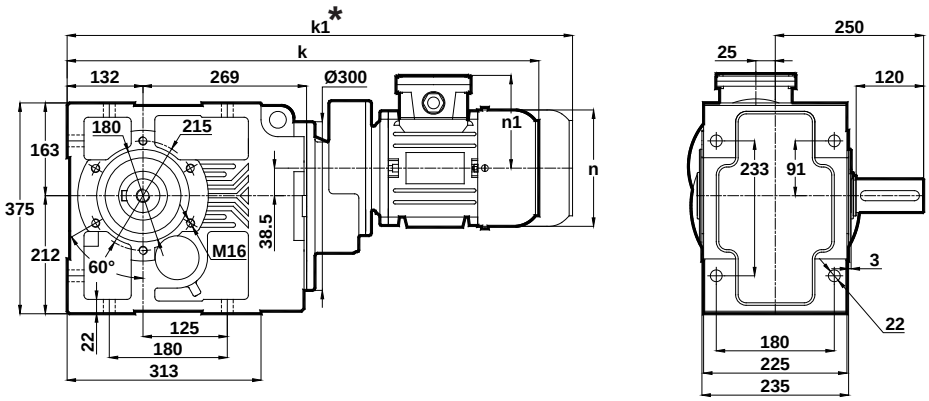


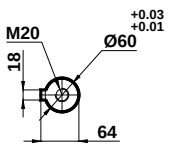
80-90
Tipo / *Type* **/** Typ



71-100
Tipo / *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

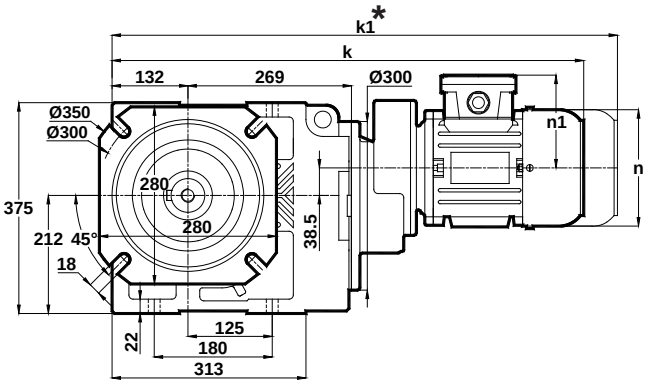
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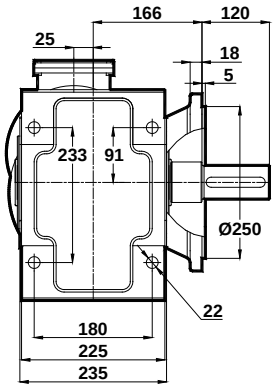


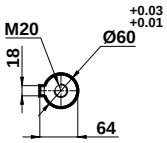
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR574.02

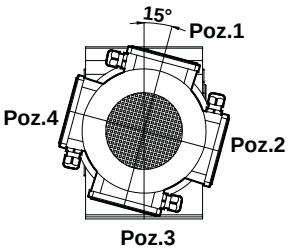




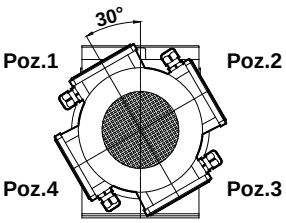


	71	80	90S	90L	100L
k	690	718	747	772	812
k1	810	838	872	897	947
n	138	156	176	176	194
n1	110	118	126	126	135

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

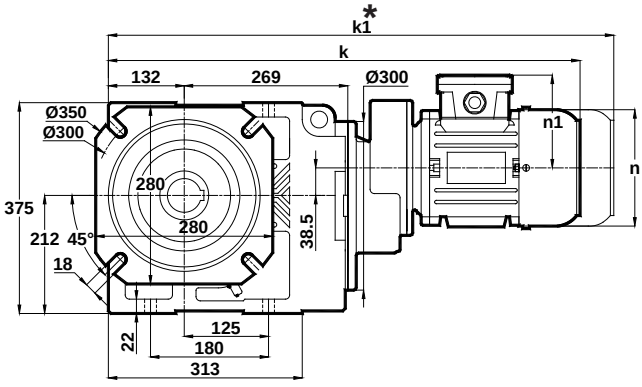


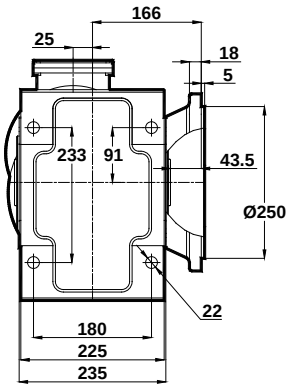
80-90
Tipo / *Type* **/** Typ



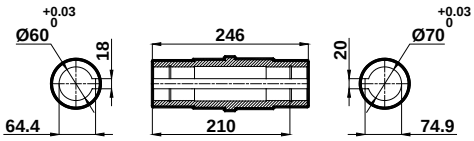
71-100
Tipo / *Type* **/** Typ

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

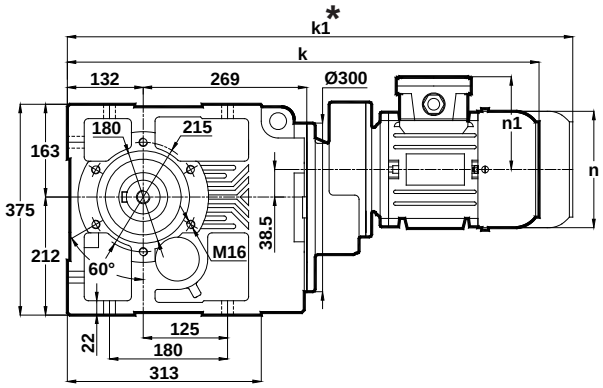
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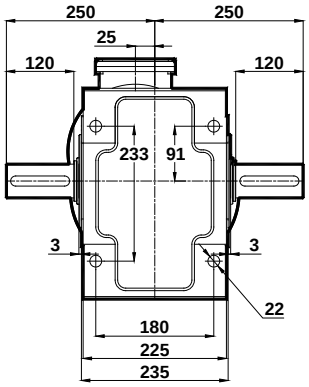


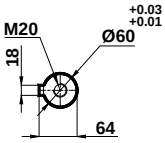
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR574.04

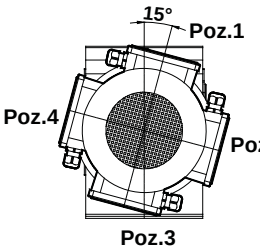




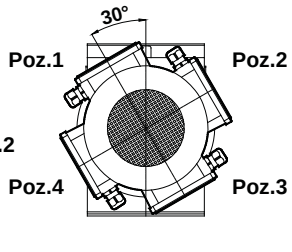


	71	80	90S	90L	100L
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k1	810	838	872	897	947
n	138	156	176	176	194
n1	110	118	126	126	135

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

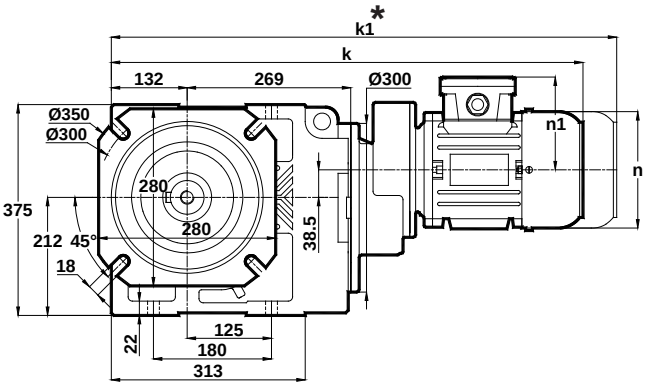


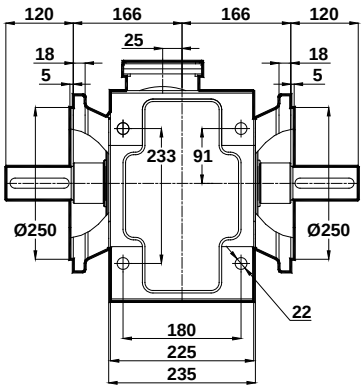
80-90
Tipo / *Type* **/** Typ

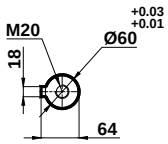


71-100
Tipo / *Type* **/** Typ

KR574.05





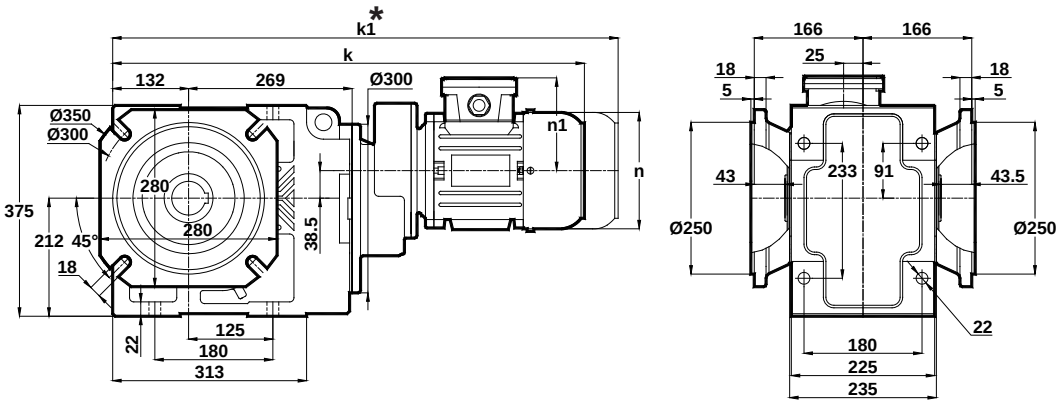


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k	690	718	747	772	812
k1	810	838	872	897	947
n	138	156	176	176	194
n1	110	118	126	126	135

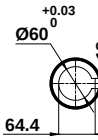
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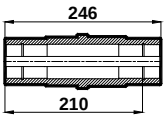
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR574.08

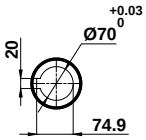


Std.



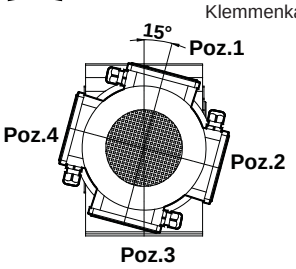


Ops.

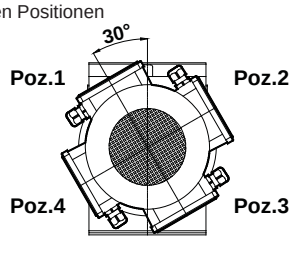


	71	80	90S	90L	100L
k	690	718	747	772	812
k1	810	838	872	897	947
n	138	156	176	176	194
n1	110	118	126	126	135

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



80-90
Tipo / ***Type*** **/** Typ



71-100
Tipo / ***Type*** **/** Typ

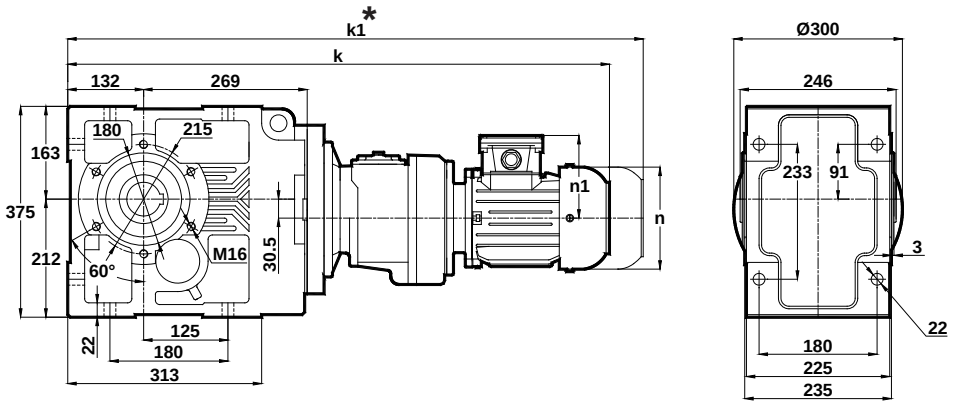
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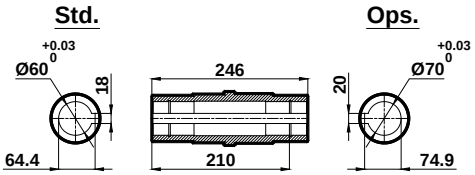


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

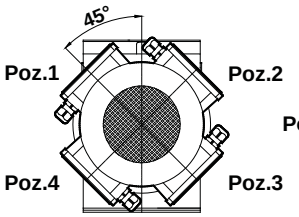
KR575.00
KR576.00



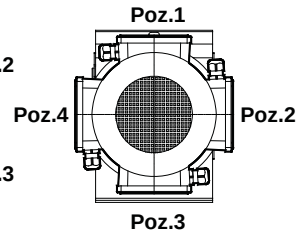


Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

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

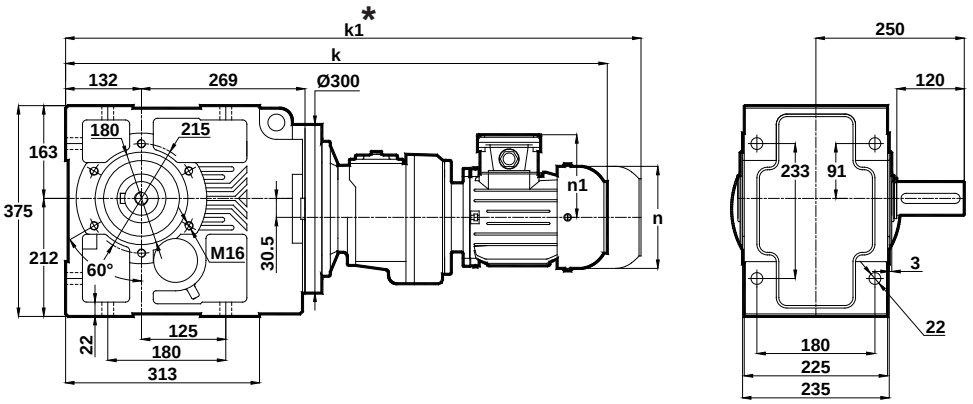


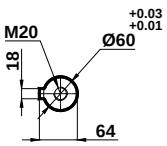
71
Tipo / *Type* **/** Typ



63-80
Tipo / *Type* **/** Typ

KR575.01
KR576.01



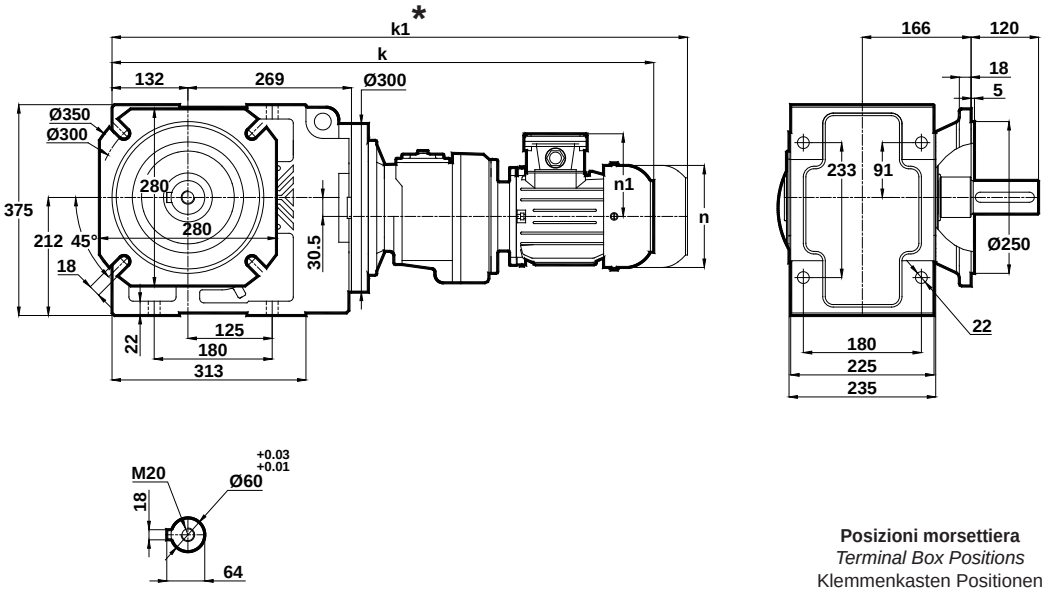


	63	71	80
k	803	822	850
k1	-	942	970
n	116	138	156
n1	97	110	118

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

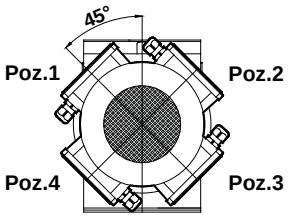
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR575.02
KR576.02

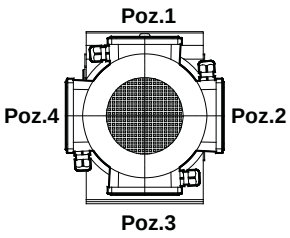


	63	71	80
k	803	822	850
k1	-	942	970
n	116	138	156
n1	97	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

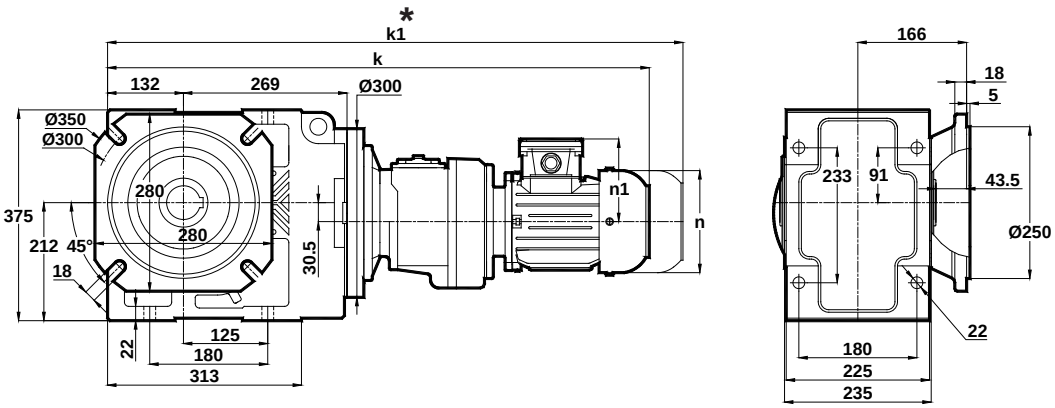


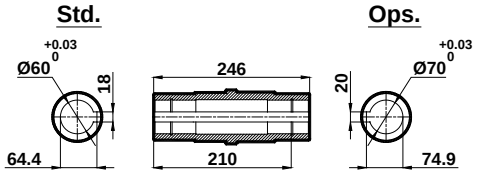
71
Tipo / *Type* **/** Typ



63-80
Tipo / *Type* **/** Typ

KR575.03
KR576.03





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

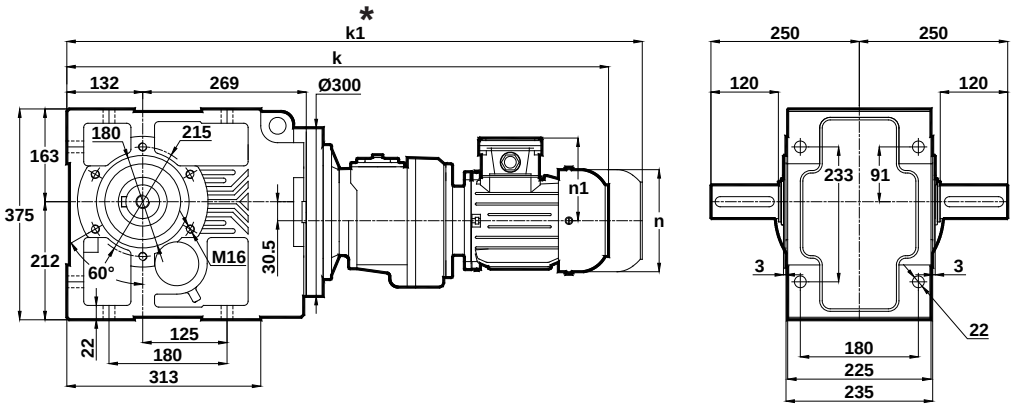
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Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

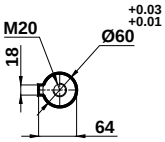


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

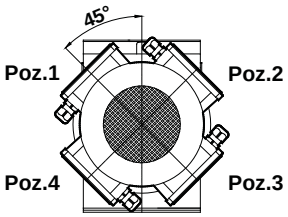
KR575.04
KR576.04



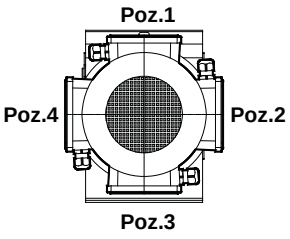


	63	71	80
k	803	822	850
k1	-	942	970
n	116	138	156
n1	97	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

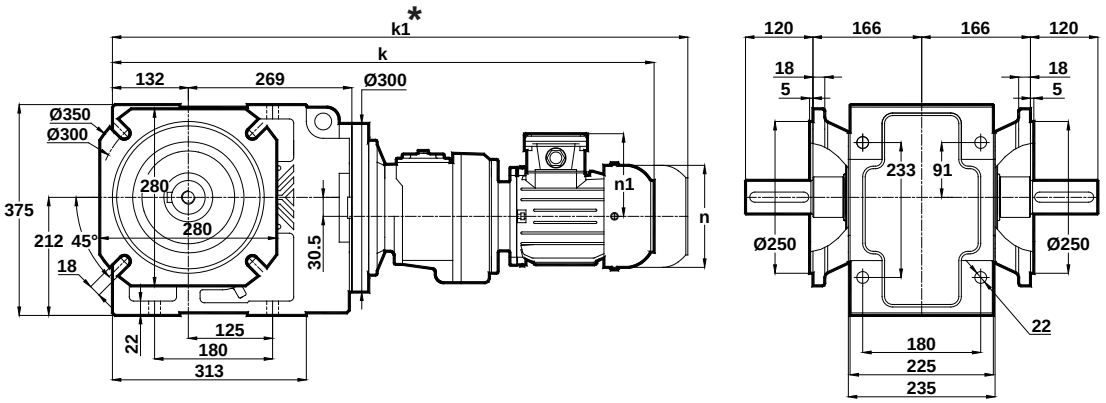


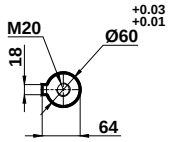
71
Tipo / *Type* **/** Typ



63-80
Tipo / *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

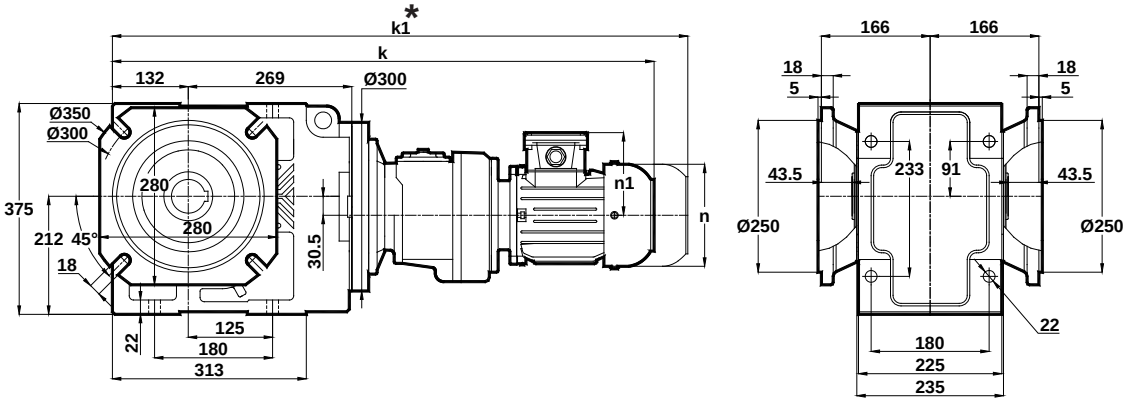
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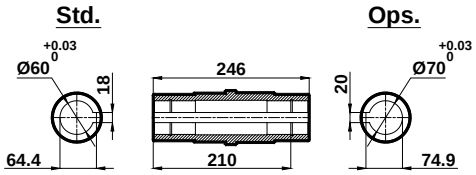


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

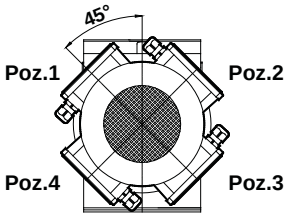
KR575.08
KR576.08



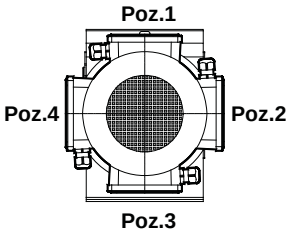


	63	71	80
k	803	821,5	850
k1	-	941,5	970
n	116	138	156
n1	97	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71
Tipo / *Type* **/** Typ



63-80
Tipo / *Type* **/** Typ

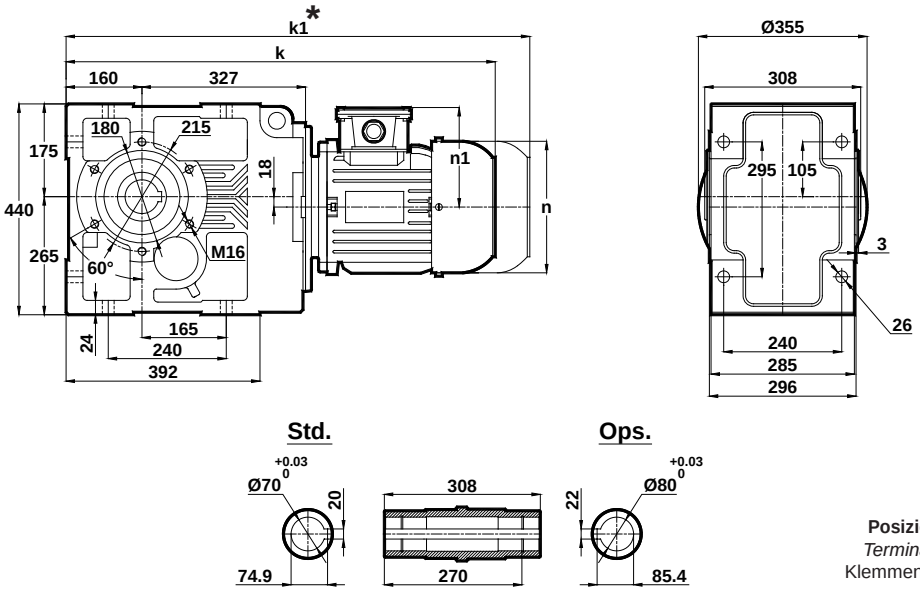
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Tabelle dimensionali
Dimension Pages
Abmessungsseiten

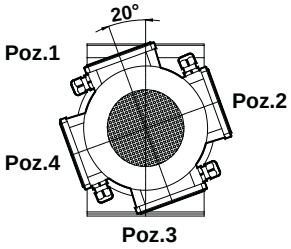
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR673.00



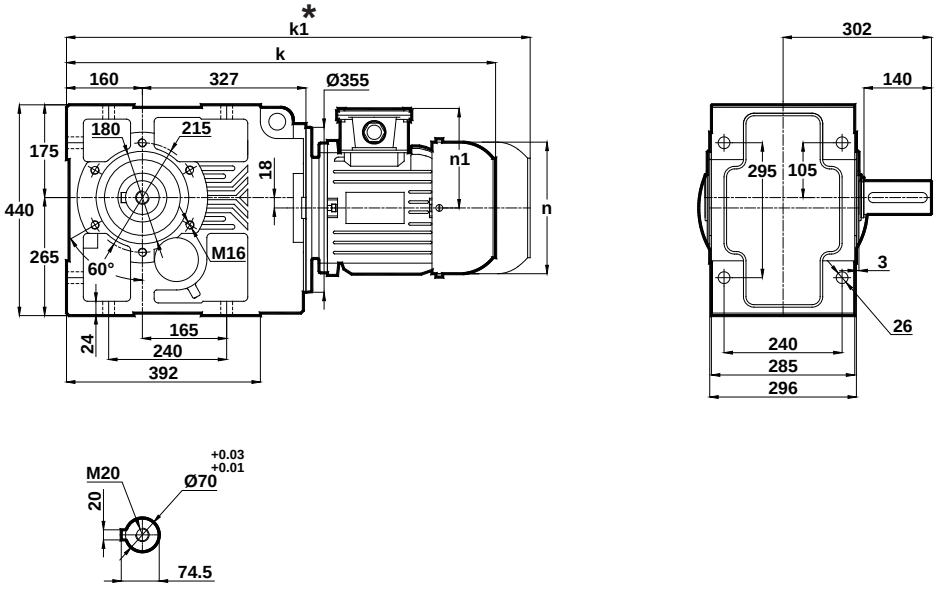
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	790	813	867	905	979	1023	1037	1075	1117	1143	1168
k1	839	948	1012	1050	1149	1193	1207	1245	1317	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



100-112-132-160-180-200-225
Tipo / *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

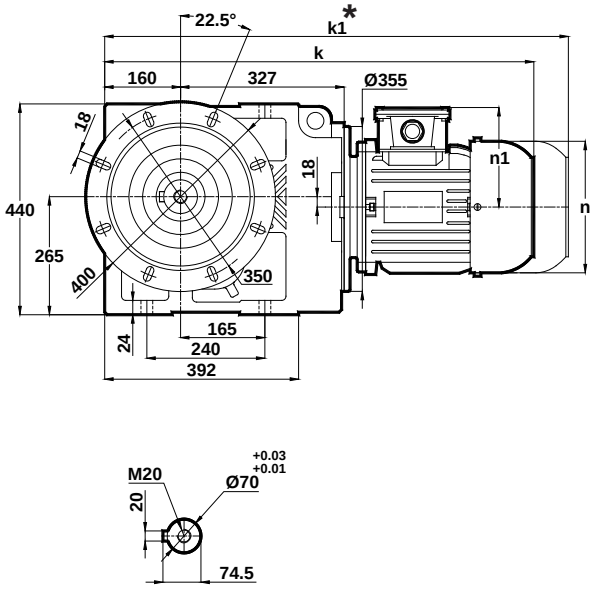
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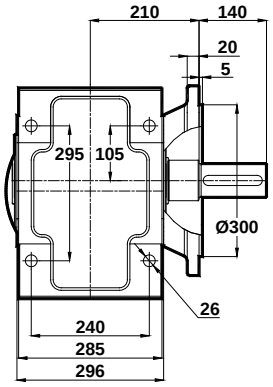


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

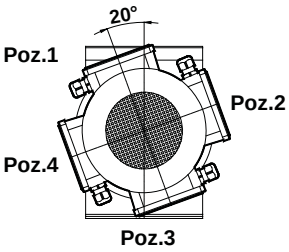
KR673.02





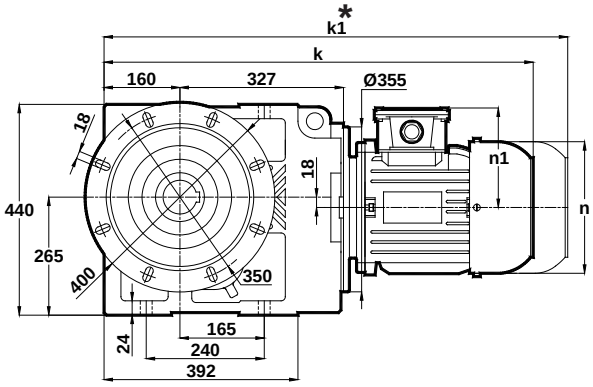
	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	790	813	867	905	979	1023	1037	1075	1117	1143	1168
k1	839	948	1012	1050	1149	1193	1207	1245	1317	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

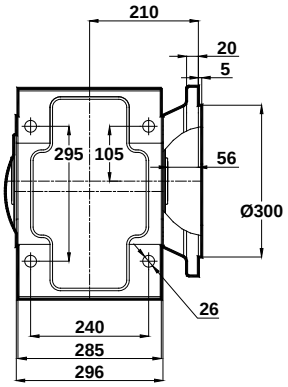
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



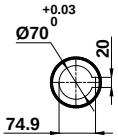
100-112-132-160-180-200-225
Tipo / *Type* **/** Typ

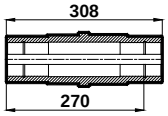
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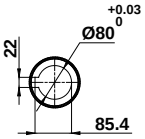


Std.





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

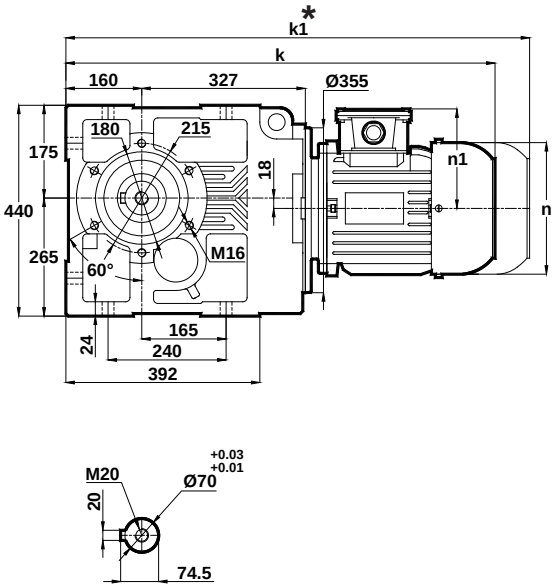
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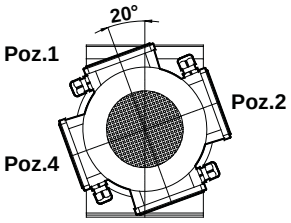
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR673.04



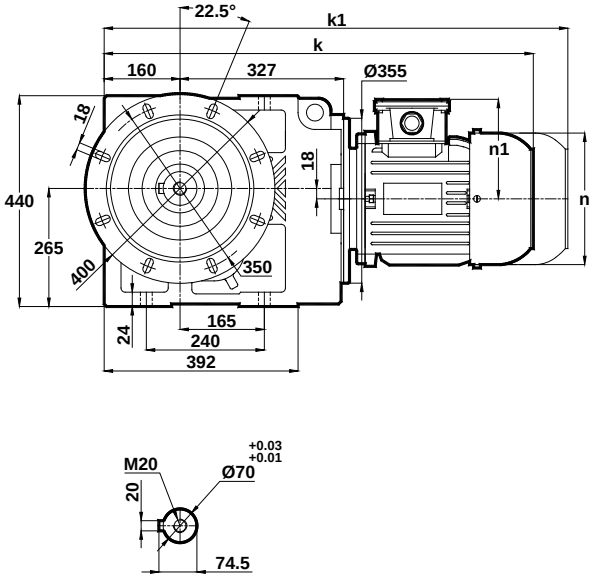
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



100-112-132-160-180-200-225
Tipo / *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

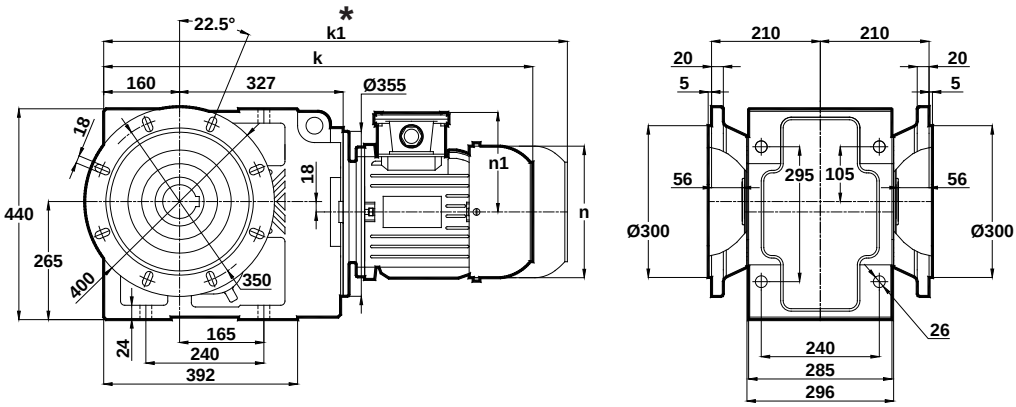
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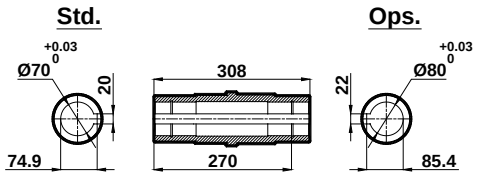


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

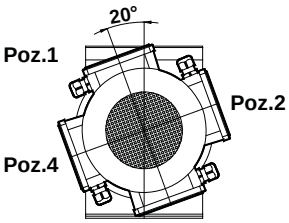
KR673.08





	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

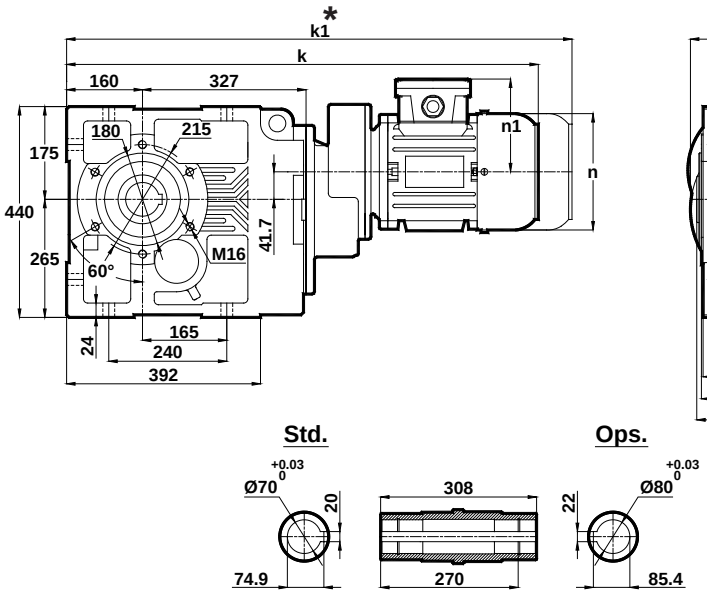
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Tabelle dimensionali
Dimension Pages
Abmessungsseiten

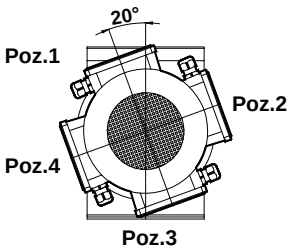
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR674.00



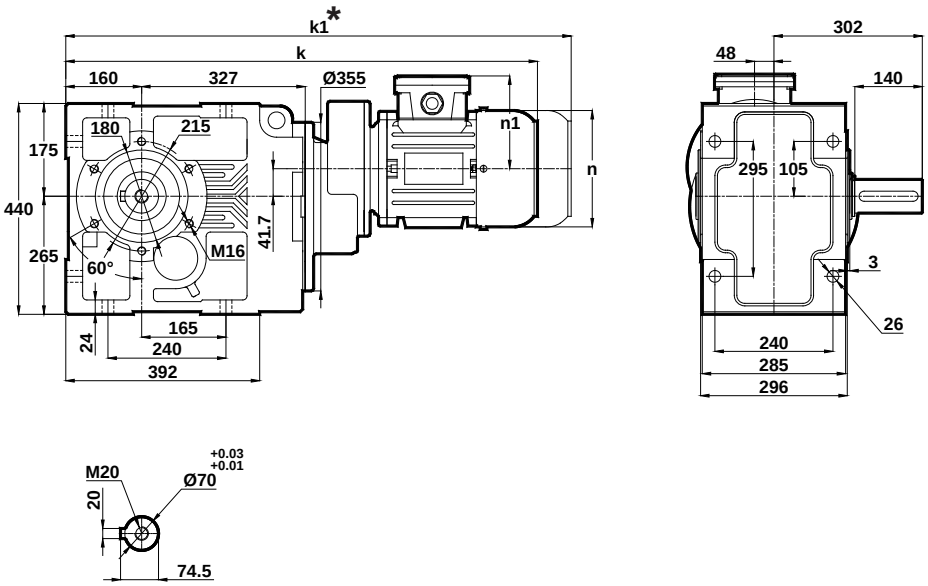
	80	90S	90L	100L
k	815	843	868	906
k1	935	968	993	1041
n	156	176	176	194
n1	118	126	126	135

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

KR674.01

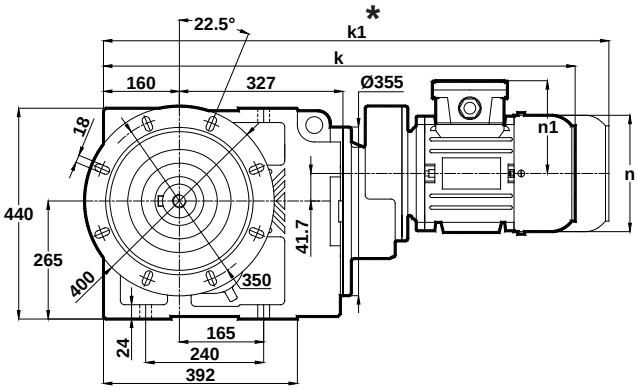


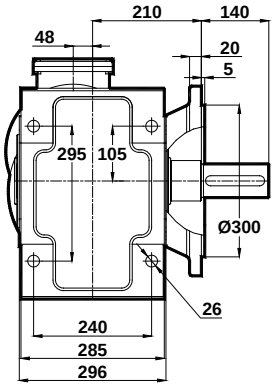
	80	90S	90L	100L
k	815	843	868	906
k1	935	968	993	1041
n	156	176	176	194
n1	118	126	126	135

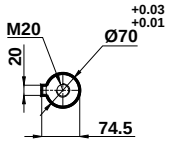
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR674.02

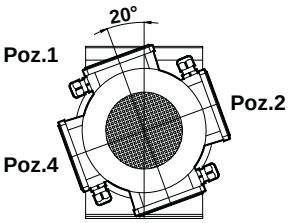






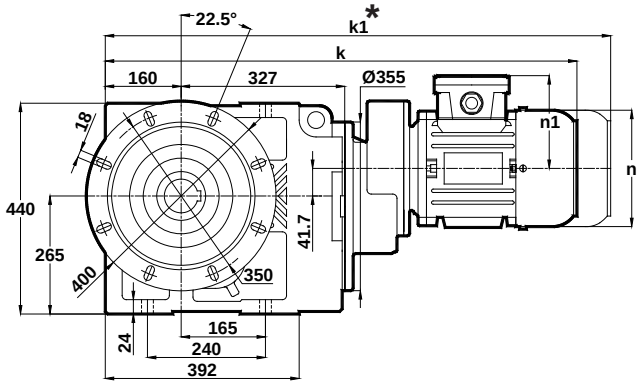
	80	90S	90L	100L
k	815	843	868	906
k1	935	968	993	1041
n	156	176	176	194
n1	118	126	126	135

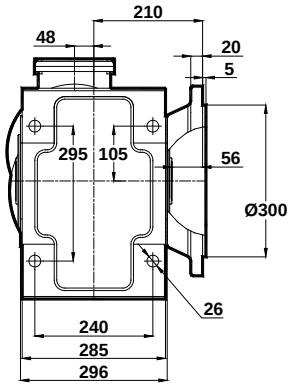
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



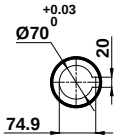
80-90-100
Tipo / *Type* **/** Typ

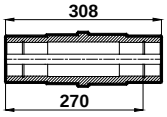
KR674.03



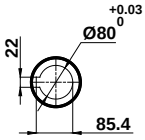


Std.





Ops.



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

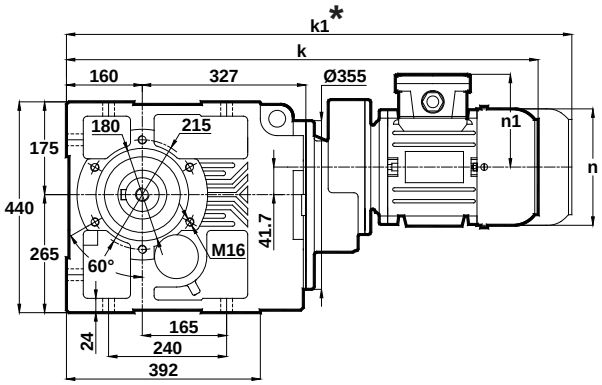
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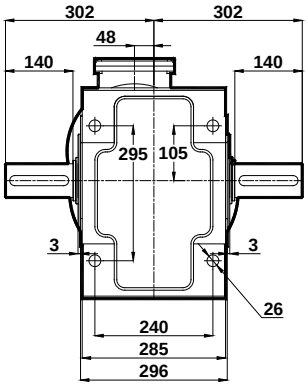


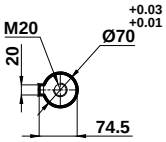
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR674.04

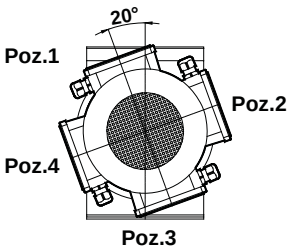






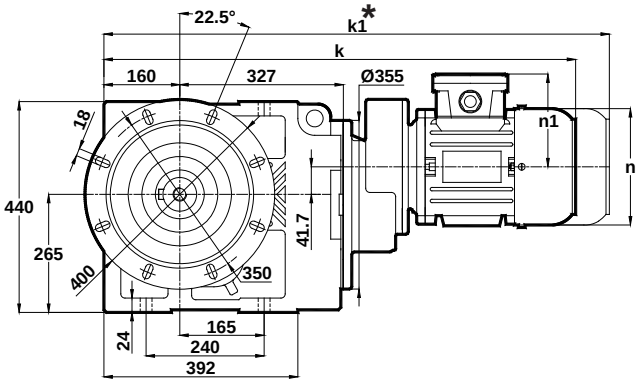
	80	90S	90L	100L
k	815	843	868	906
k1	935	968	993	1041
n	156	176	176	194
n1	118	126	126	135

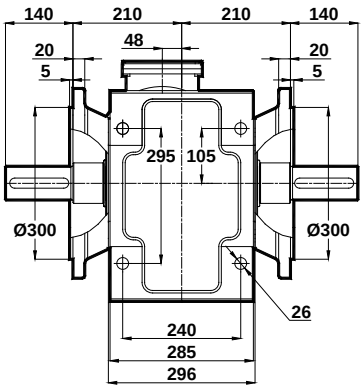
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

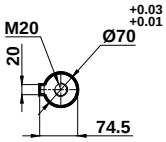


80-90-100
Tipo / *Type* **/** Typ

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

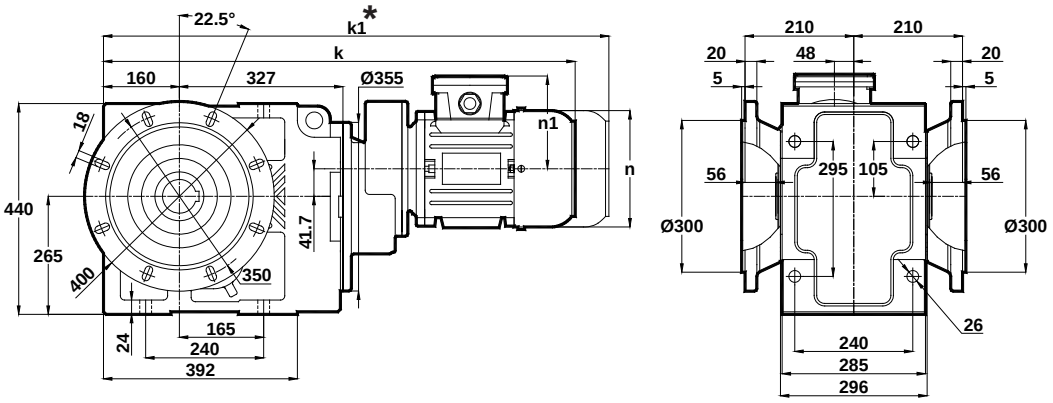
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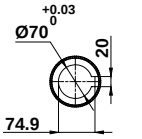
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

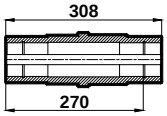
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR674.08

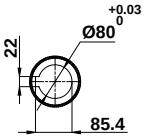


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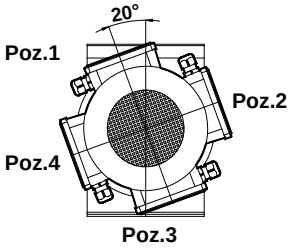


Ops.



	80	90S	90L	100L
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Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

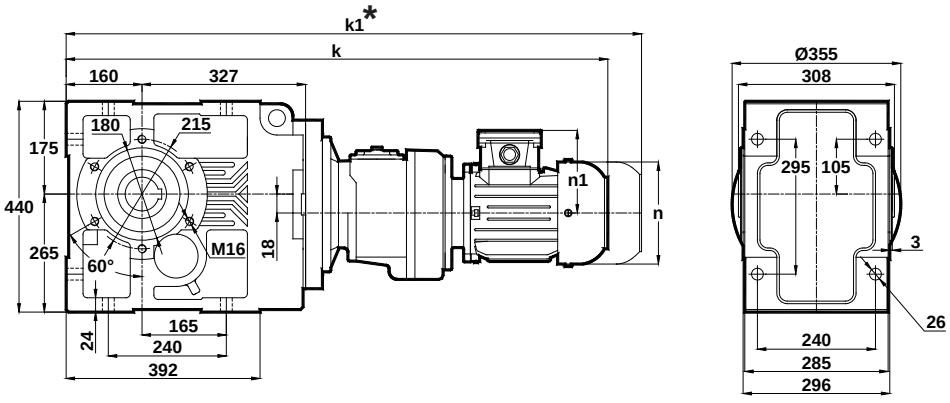


80-90-100
Tipo / *Type* **/** Typ

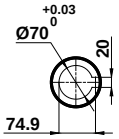
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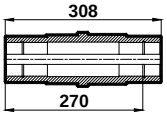
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR675.00
KR676.00

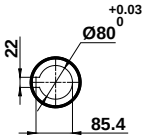


Std.



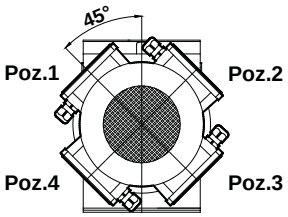


Ops.

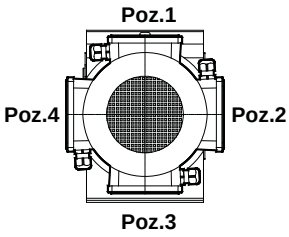


Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

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

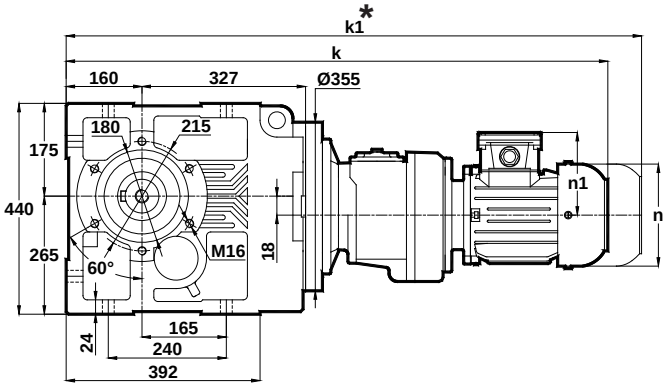


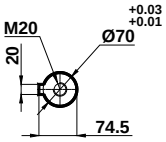
80-90
Tipo / *Type* / Typ



71
Tipo / *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

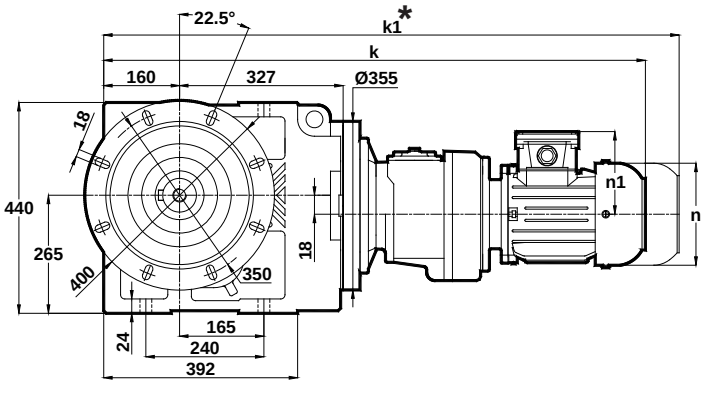
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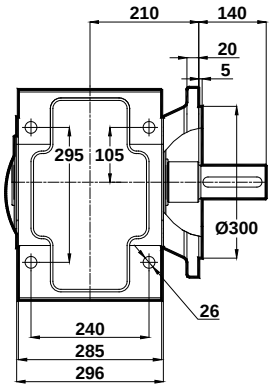


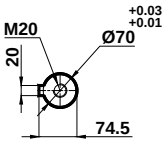
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR675.02
KR676.02

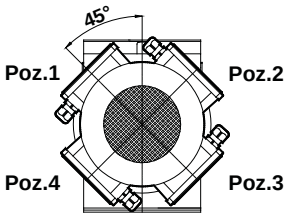




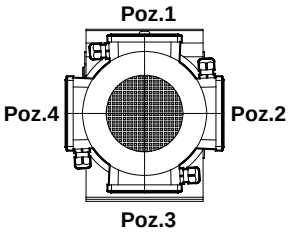


	71	80	90S
k	933	961	990
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n	138	156	176
n1	110	118	126

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

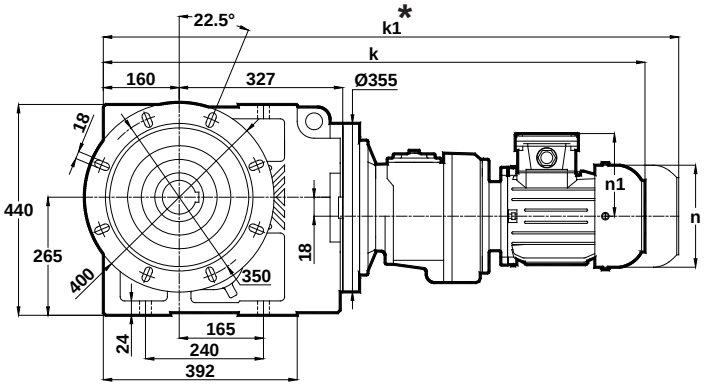


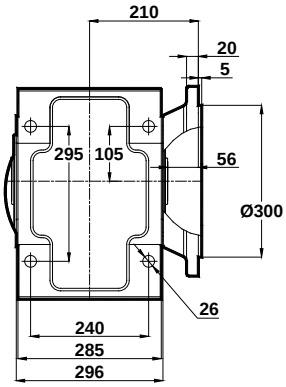
80-90
Tipo / *Type* **/** Typ



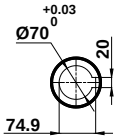
71
Tipo / *Type* **/** Typ

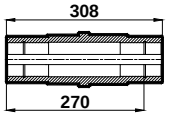
KR675.03
KR676.03



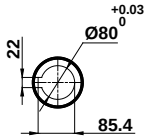


Std.





Ops.



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k	933	961	990
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n	138	156	176
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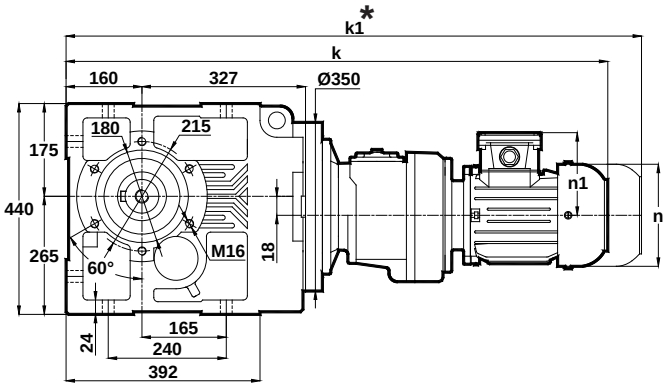
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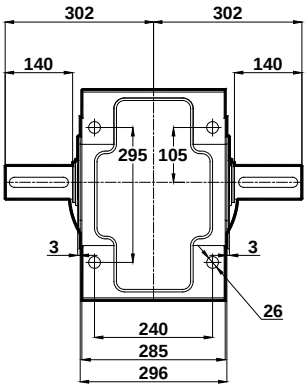


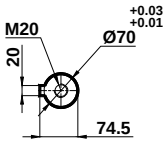
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR675.04
KR676.04

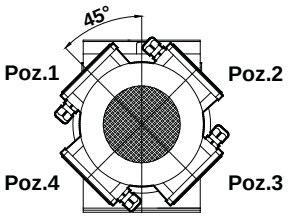




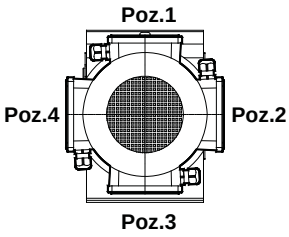


	71	80	90S
k	933	961	990
k1	1053	1081	1115
n	138	156	176
n1	110	118	126

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

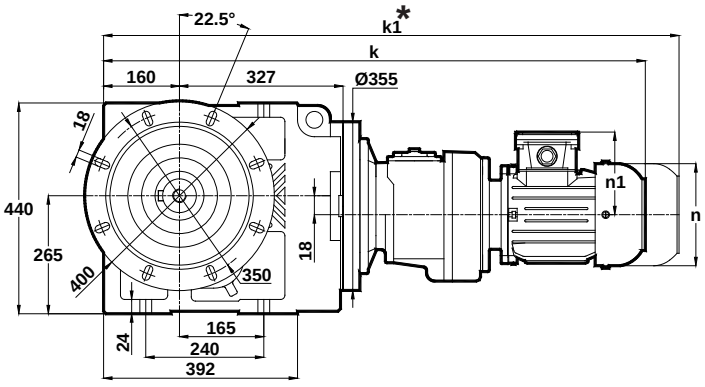


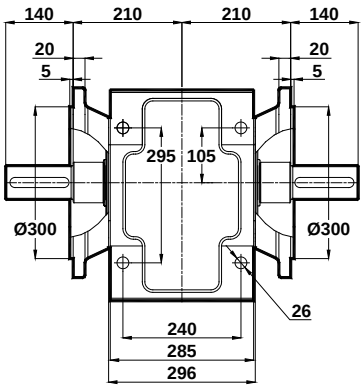
80-90
Tipo / *Type* **/** Typ

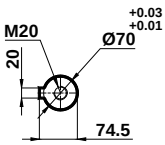


71
Tipo / *Type* **/** Typ

KR675.05
KR676.05





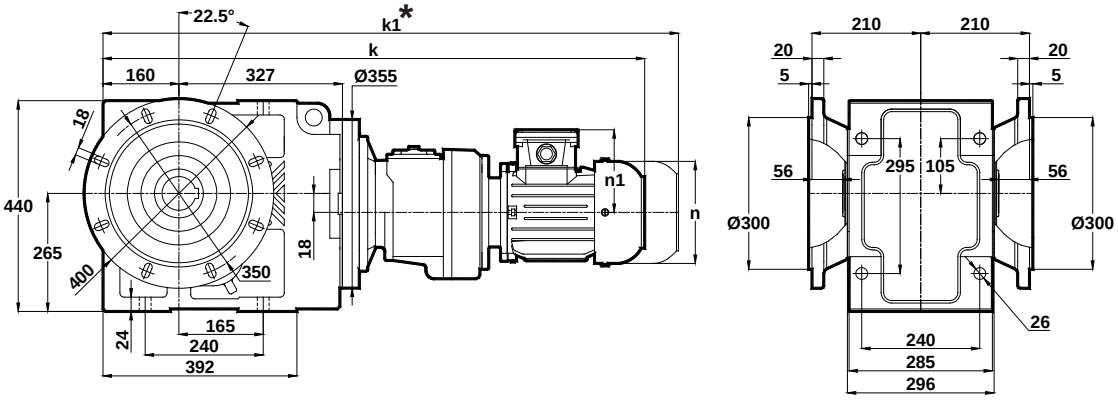


	71	80	90S
k	933	961	990
k1	1053	1081	1115
n	138	156	176
n1	110	118	126

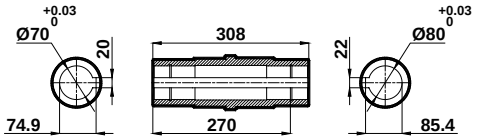
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR675.08
KR676.08

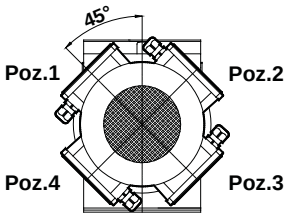


Std. **Ops.**

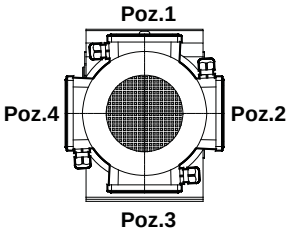


Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

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



80-90
Tipo / *Type* **/** Typ



71
Tipo / *Type* **/** Typ

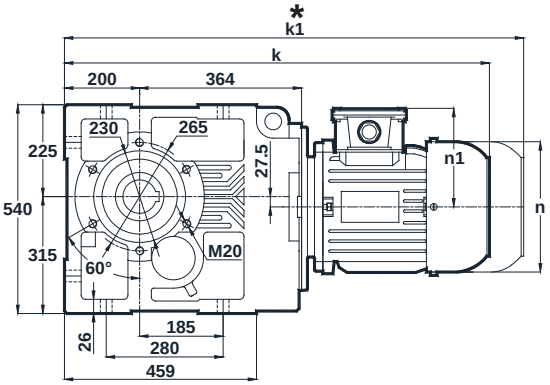
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

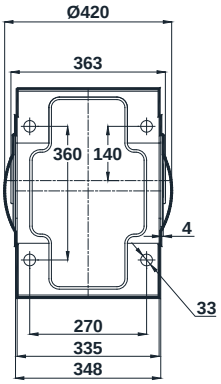


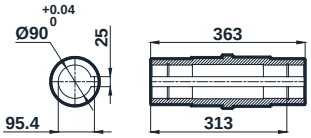
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR773.00

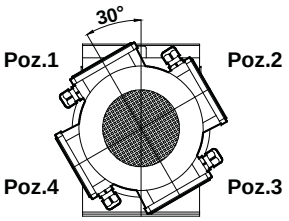






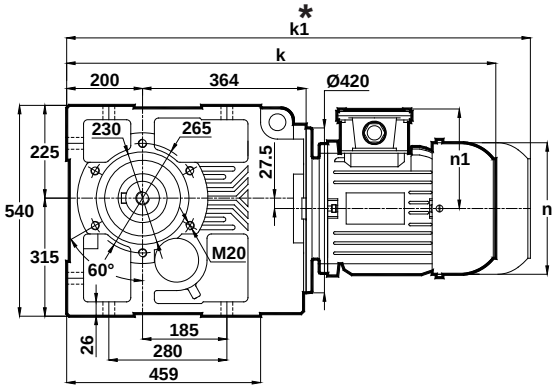
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	938	976	1052	1096	1113	1151	1190	1217	1242	1346
k1	1083	1121	1222	1266	1283	1321	1390	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

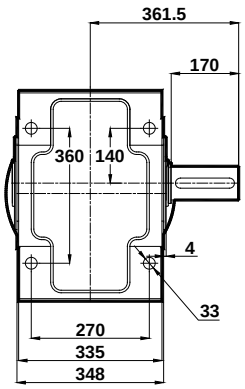
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

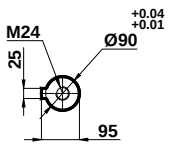


132-160-180-200-225-250
Tipo / *Type* / Typ

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

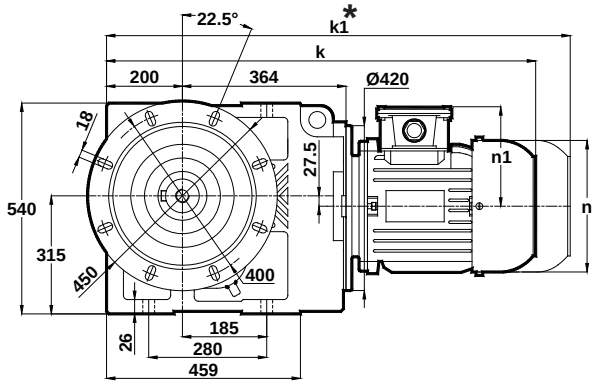
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

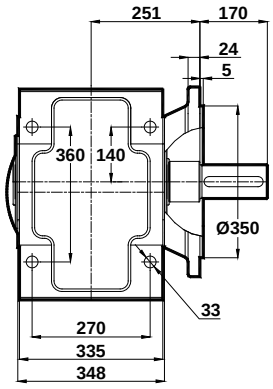


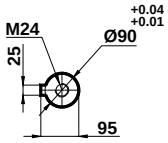
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR773.02

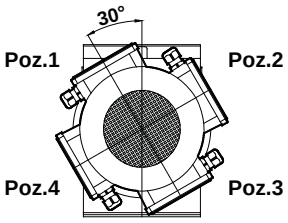






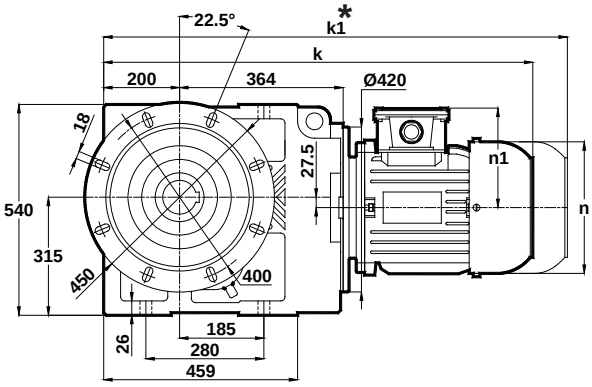
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	938	976	1052	1096	1113	1151	1190	1217	1242	1346
k1	1083	1121	1222	1266	1283	1321	1390	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

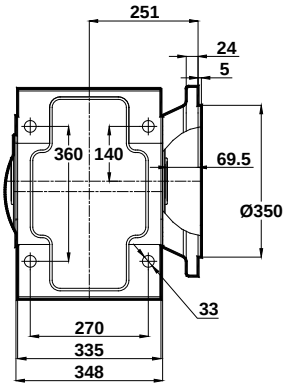
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

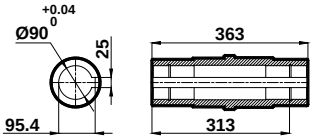


132-160-180-200-225-250
Tipo / *Type* / Typ

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

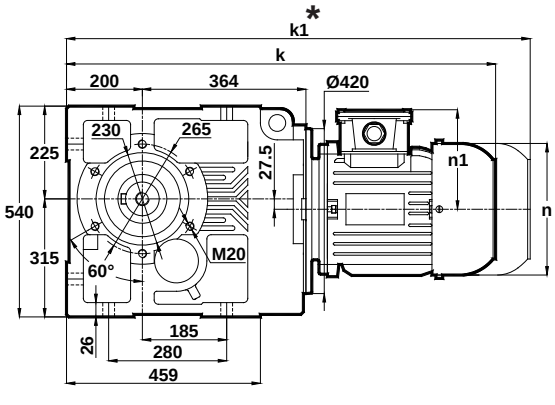
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

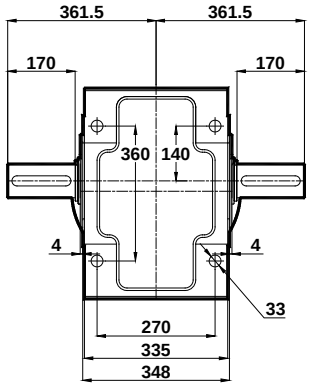


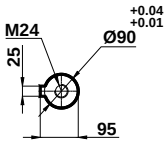
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR773.04

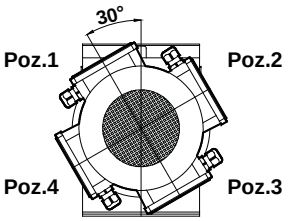






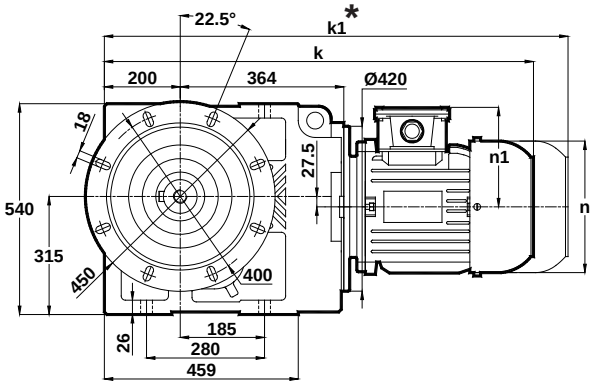
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	938	976	1052	1096	1113	1151	1190	1217	1242	1346
k1	1083	1121	1222	1266	1283	1321	1390	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

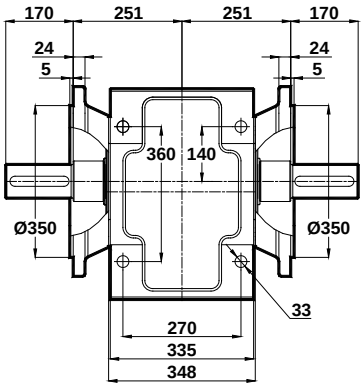
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

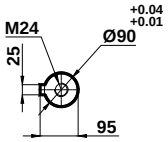


132-160-180-200-225-250
Tipo / *Type* **/** Typ

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
n1	168	168	225	225	241	241	275	285	285	322

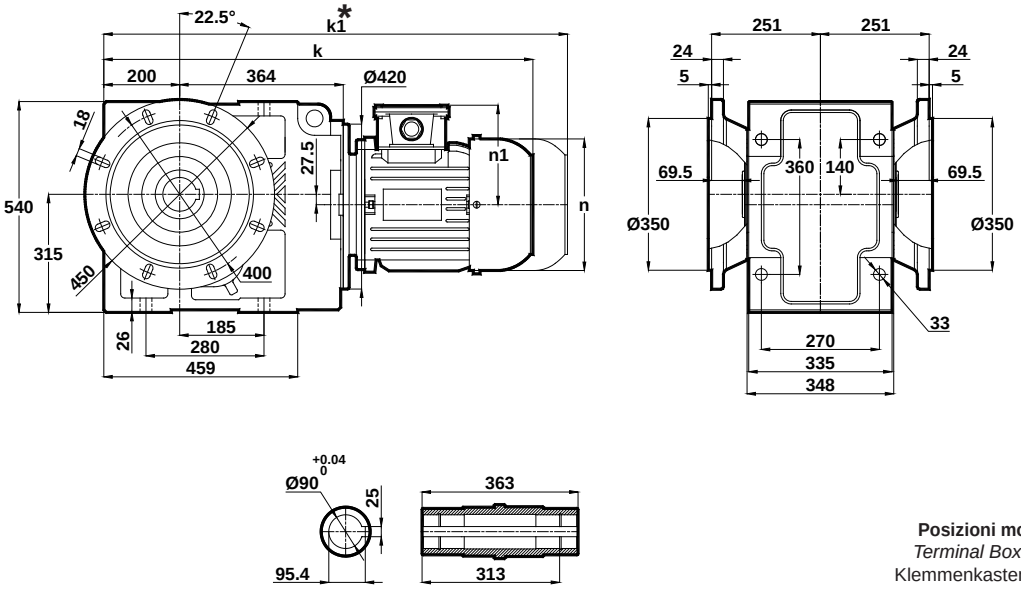
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

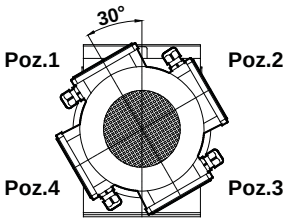
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR773.08



	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	938	976	1052	1096	1113	1151	1190	1217	1242	1346
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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

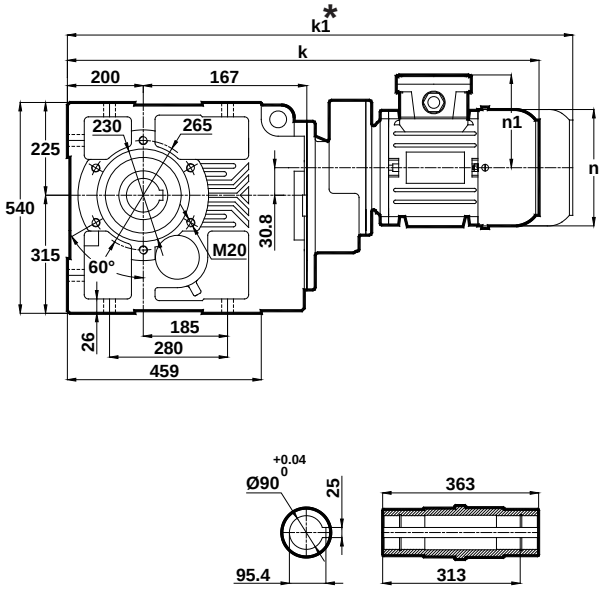
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

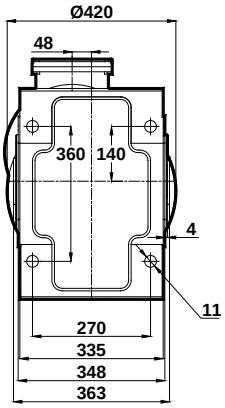


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

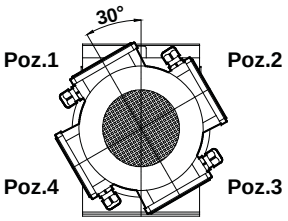
KR774.00





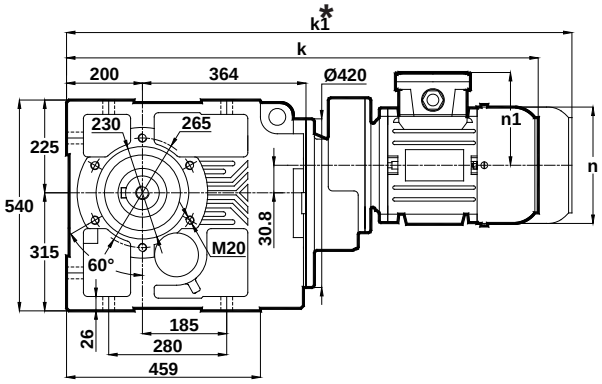
	90S	90L	100L	112M	132S	132M
k	908	945	971	1001	1046	1096
k1	1033	1070	1106	1136	1191	1241
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

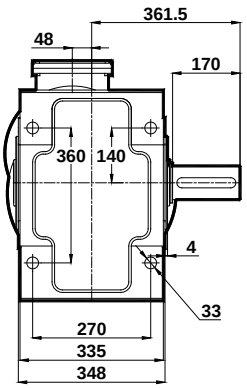
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

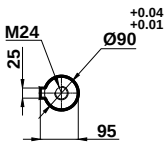


90-100-112-132
Tipo / *Type* / Typ

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

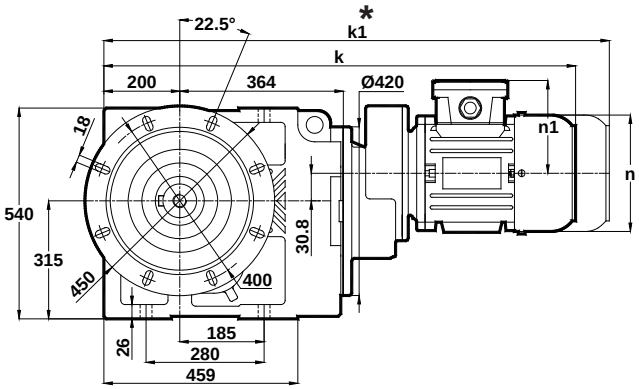
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

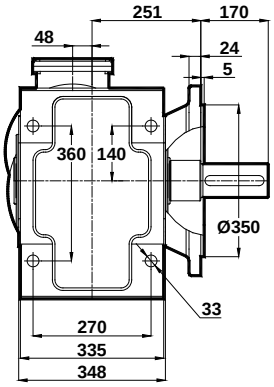


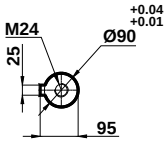
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR774.02

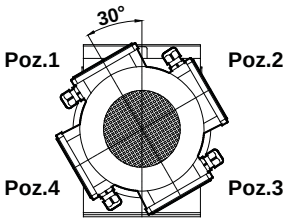






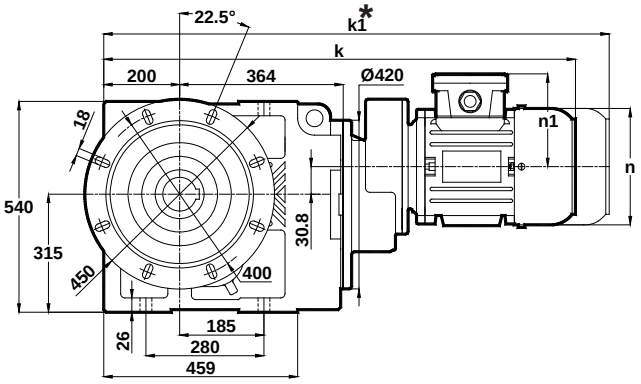
	90S	90L	100L	112M	132S	132M
k	908	945	971	1001	1046	1096
k1	1033	1070	1106	1136	1191	1241
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

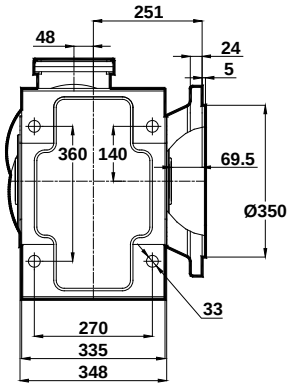
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

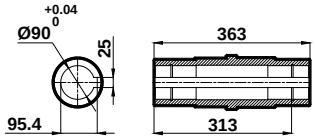


90-100-112-132
Tipo / *Type* / Typ

KR774.03







	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

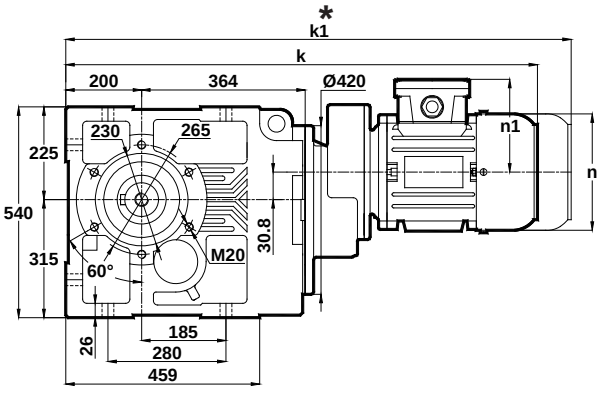
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

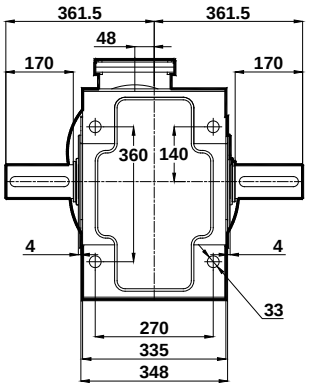


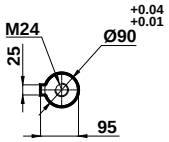
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR774.04

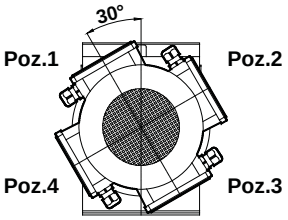






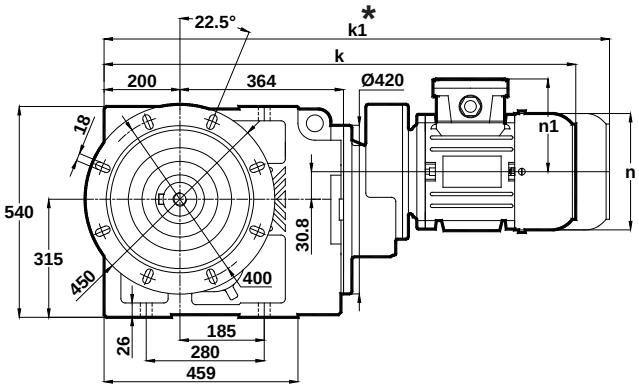
	90S	90L	100L	112M	132S	132M
k	908	945	971	1001	1046	1096
k1	1033	1070	1106	1136	1191	1241
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

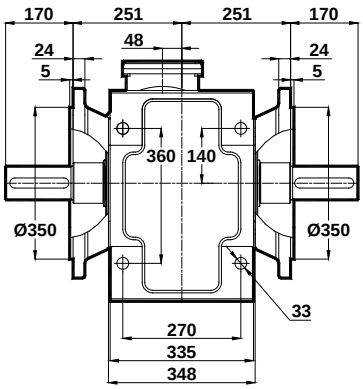
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

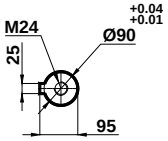


90-100-112-132
Tipo / *Type* **/** Typ

KR774.05







	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

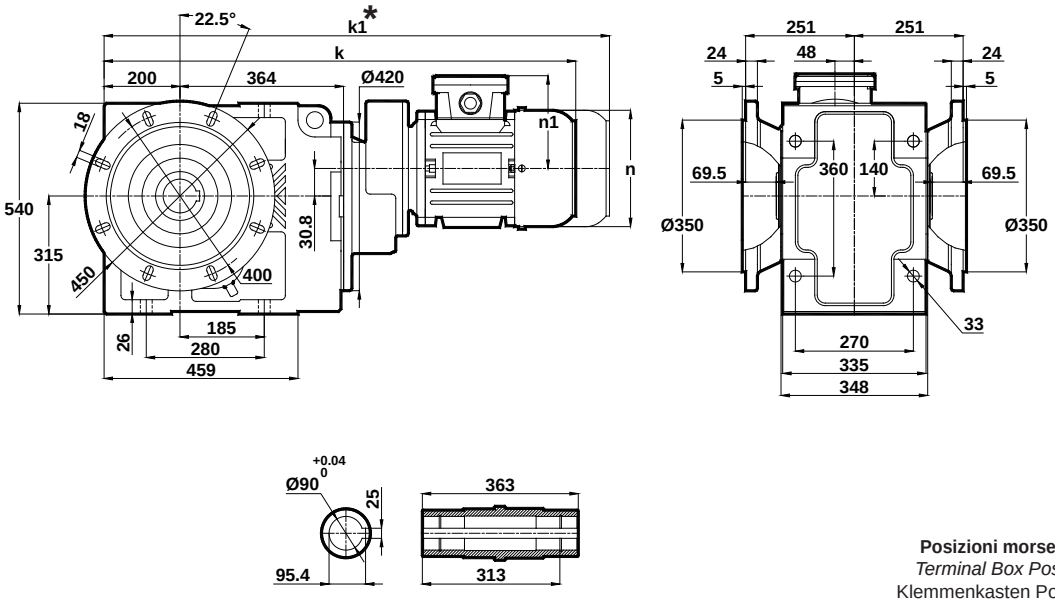
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

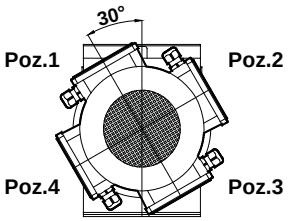
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR774.08



	90S	90L	100L	112M	132S	132M
k	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

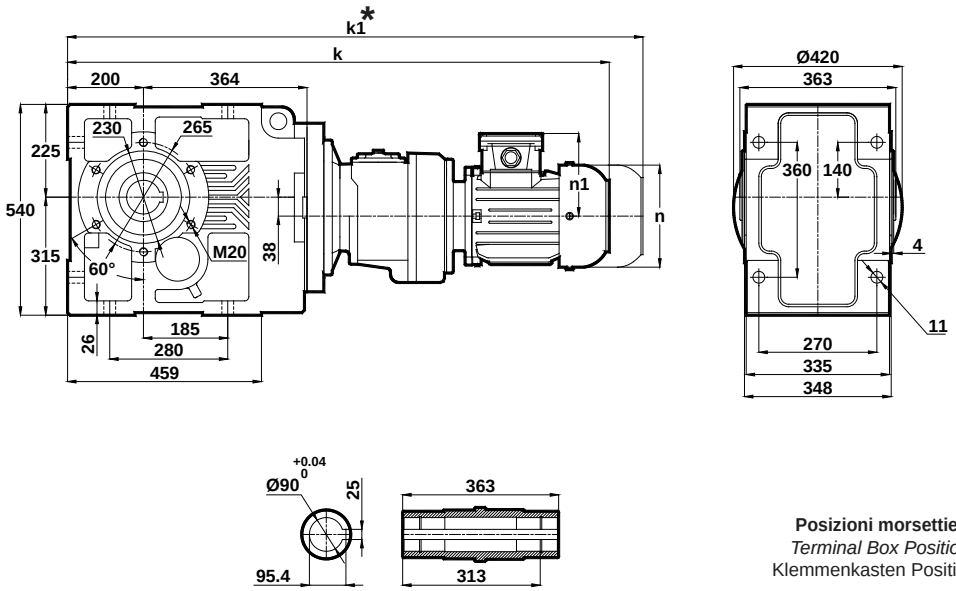
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Tabelle dimensionali
Dimension Pages
Abmessungsseiten

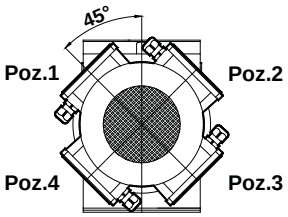
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR775.00
KR776.00

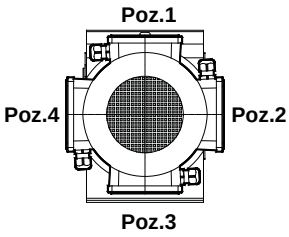


	71	80	90S	90L	100L
k	1010	1038	1067	1092	1132
k1	1130	1158	1192	1217	1267
n	138	156	176	176	194
n1	110	118	126	126	135

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

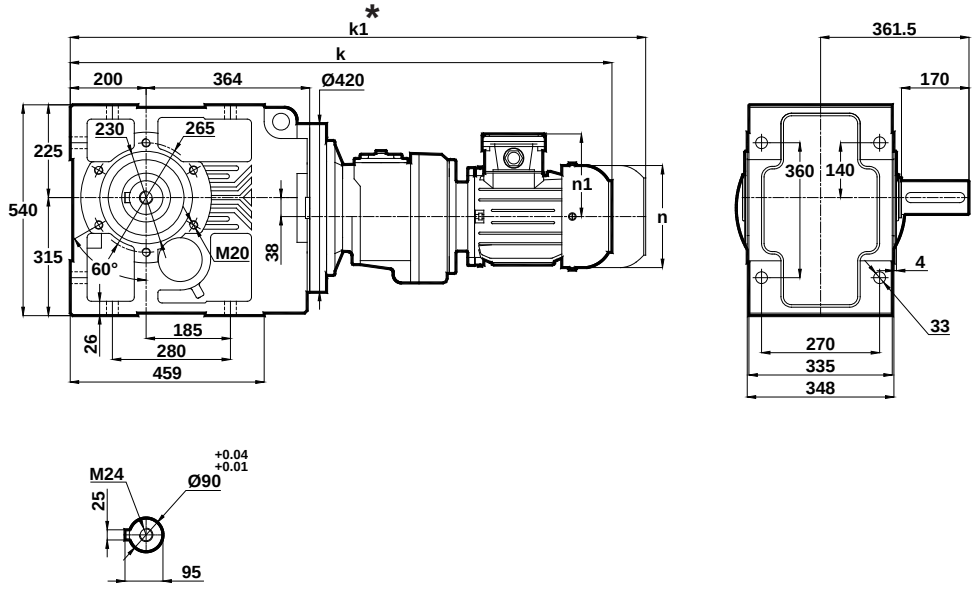


80-90
Tipo / *Type* **/** Typ



71-100
Tipo / *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

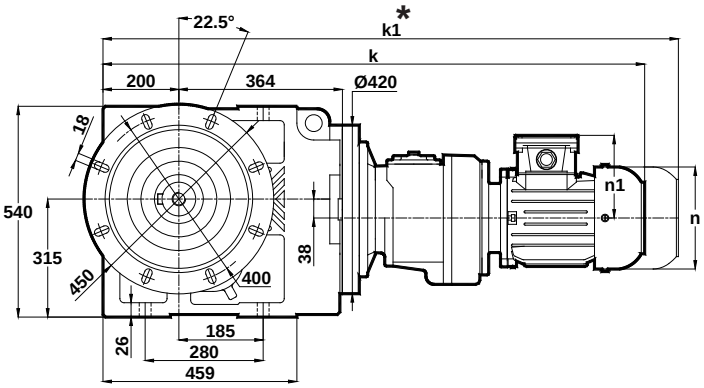
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

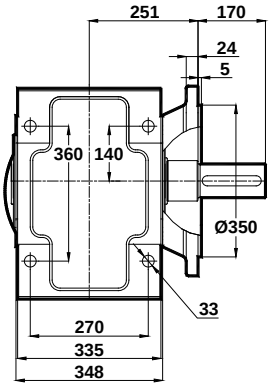


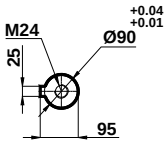
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR775.02
KR776.02

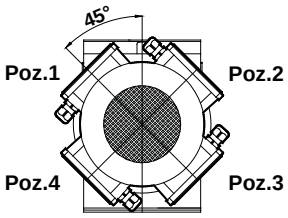




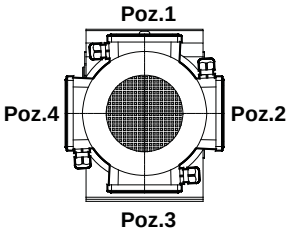


	71	80	90S	90L	100L
k	1010	1038	1067	1092	1132
k1	1130	1158	1192	1217	1267
n	138	156	176	176	194
n1	110	118	126	126	135

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

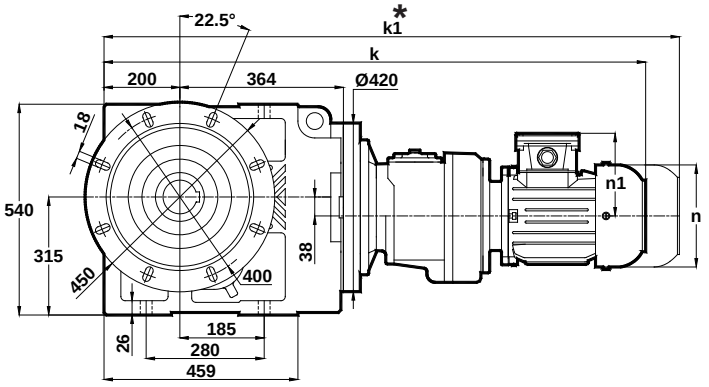


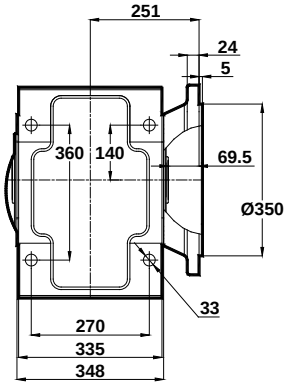
80-90
Tipo / *Type* **/** Typ

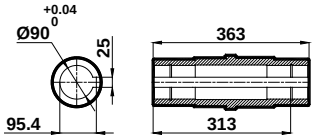


71-100
Tipo / *Type* **/** Typ

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

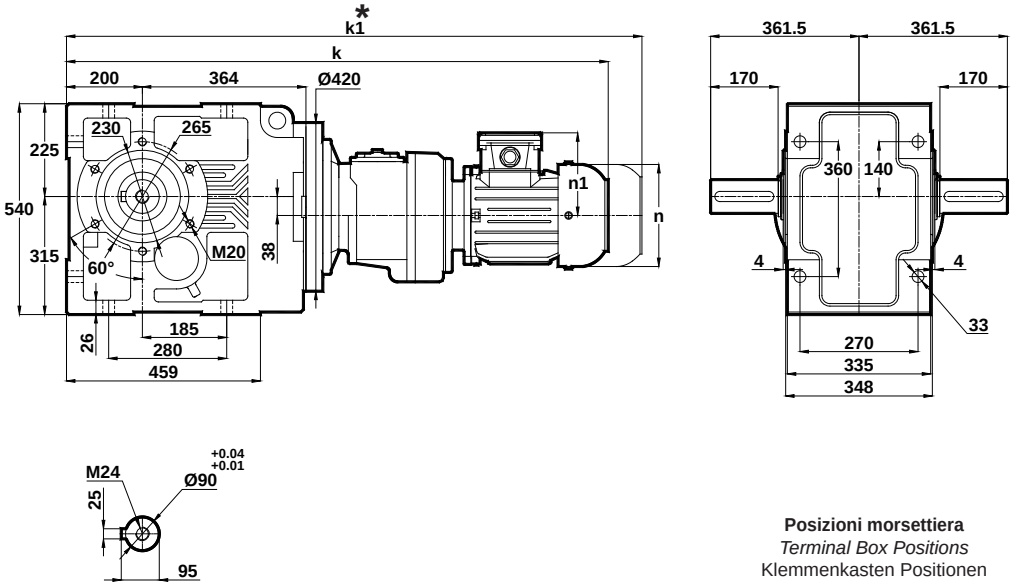
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

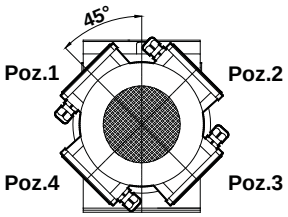
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR775.04
KR776.04

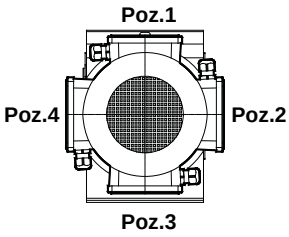


	71	80	90S	90L	100L
k	1010	1038	1067	1092	1132
k1	1130	1158	1192	1217	1267
n	138	156	176	176	194
n1	110	118	126	126	135

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

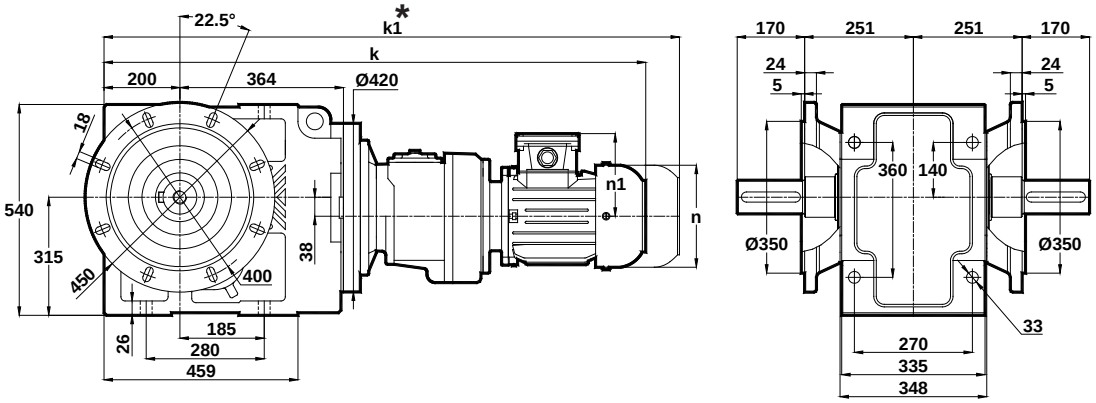


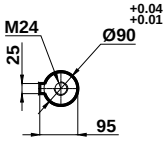
80-90
Tipo / *Type* **/** Typ



71-100
Tipo / *Type* **/** Typ

KR775.05
KR776.05



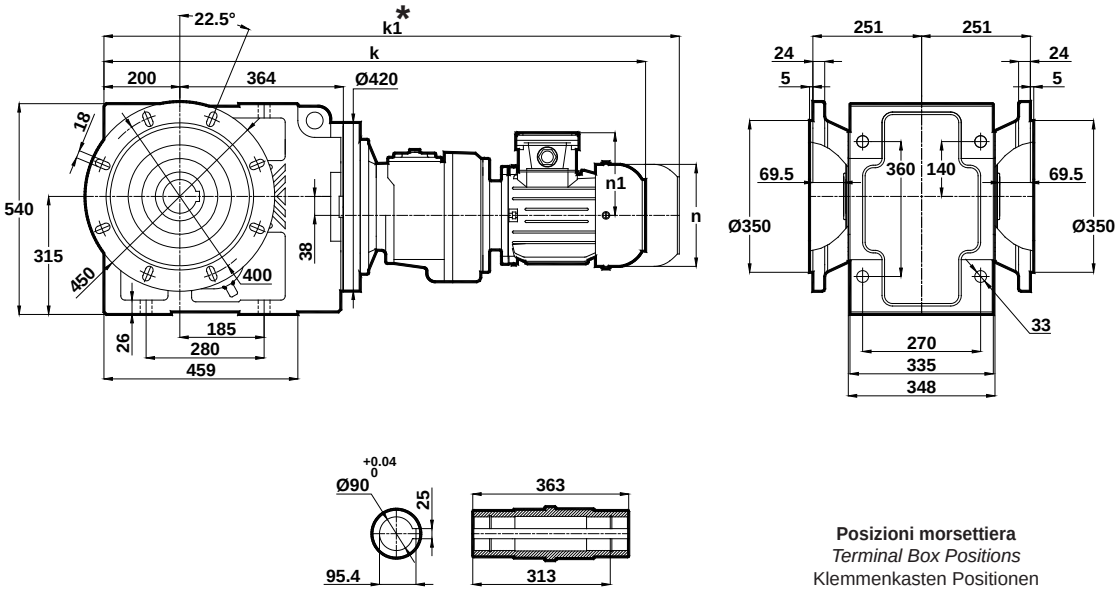


	71	80	90S	90L	100L
k	1010	1038	1067	1092	1132
k1	1130	1158	1192	1217	1267
n	138	156	176	176	194
n1	110	118	126	126	135

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
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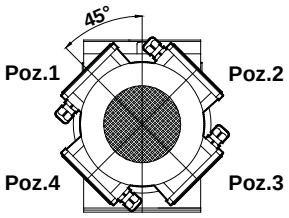
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR775.08
KR776.08

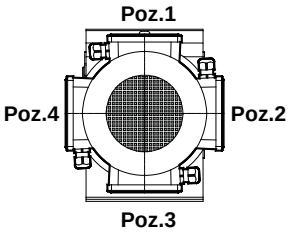


	71	80	90S	90L	100L
k	1010	1038	1067	1092	1132
k1	1130	1158	1192	1217	1267
n	138	156	176	176	194
n1	110	118	126	126	135

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



80-90
Tipo / *Type* **/** Typ



71-100
Tipo / *Type* **/** Typ

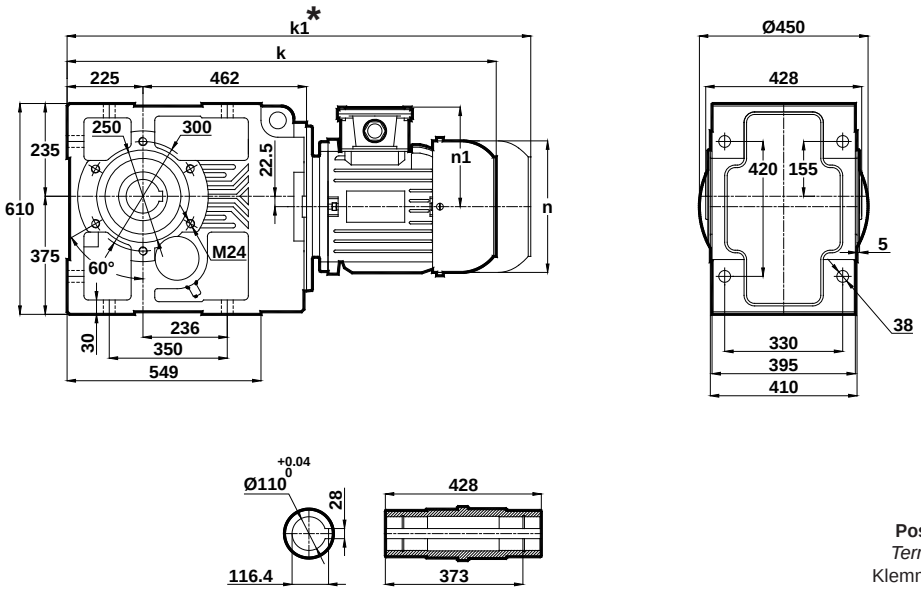
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

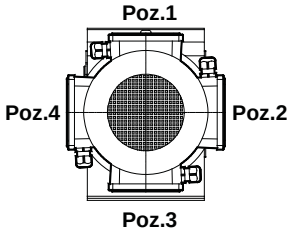
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR873.00



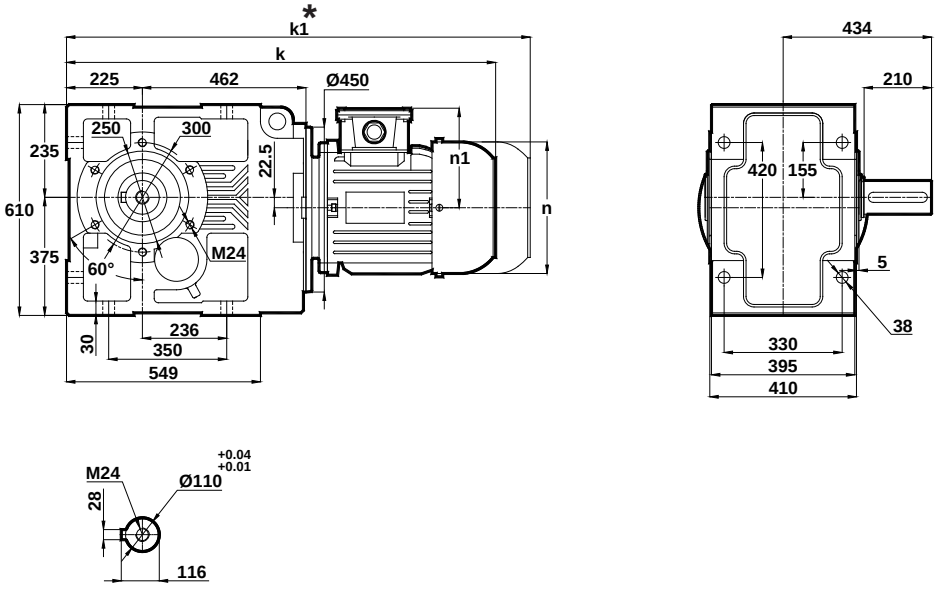
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1156	1200	1216	1254	1293	1309	1334	1437	1498	1498
k1	1326	1370	1386	1424	1493	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



132-160-180-200-225-250-280
Tipo / *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

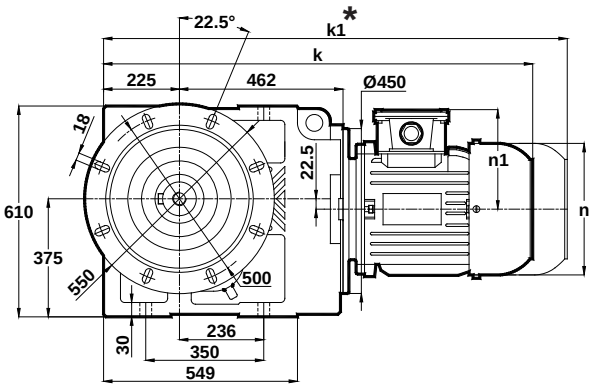
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

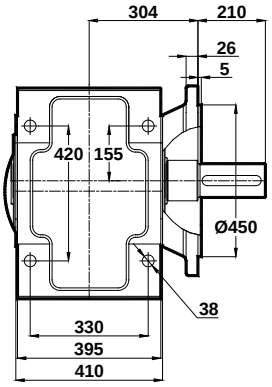


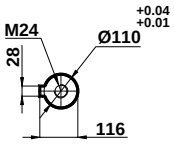
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR873.02

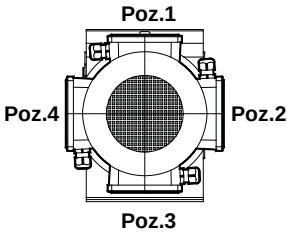






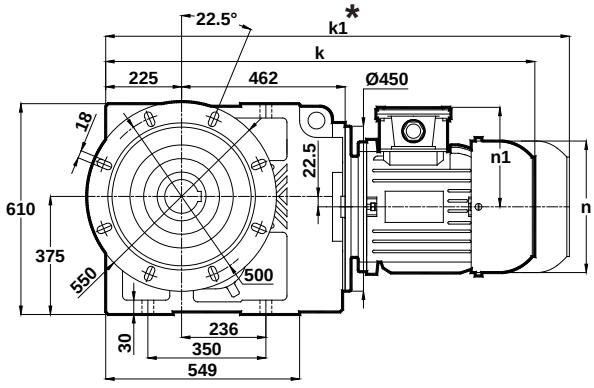
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1156	1200	1216	1254	1293	1309	1334	1437	1498	1498
k1	1326	1370	1386	1424	1493	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

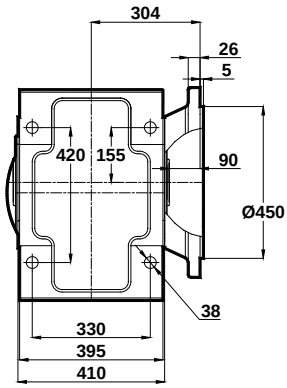
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

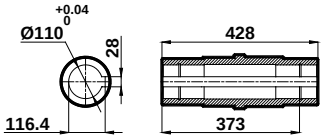


132-160-180-200-225-250-280
Tipo / *Type* / Typ

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

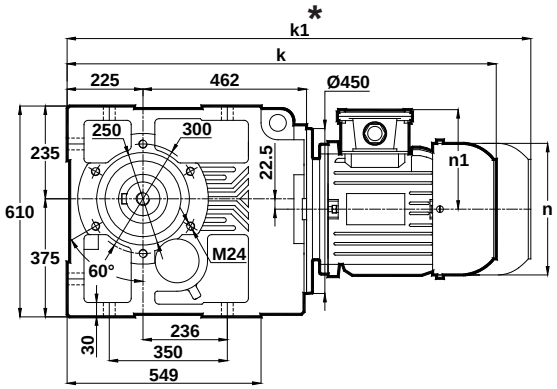
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

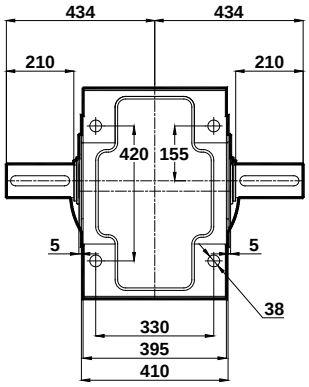


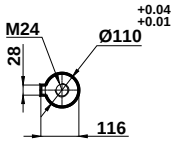
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR873.04

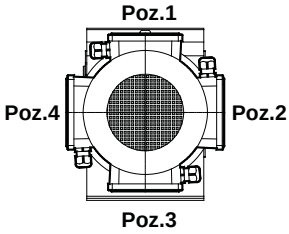






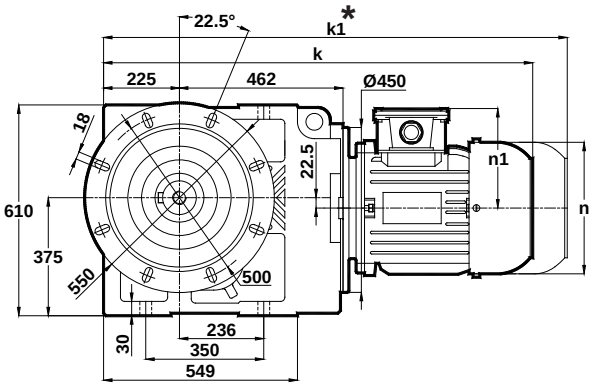
	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1156	1200	1216	1254	1293	1309	1334	1437	1498	1498
k1	1326	1370	1386	1424	1493	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

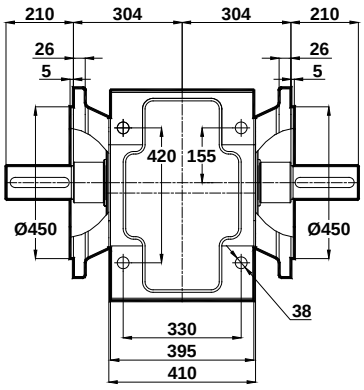
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

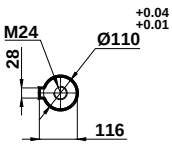


132-160-180-200-225-250-280
Tipo / *Type* **/** Typ

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

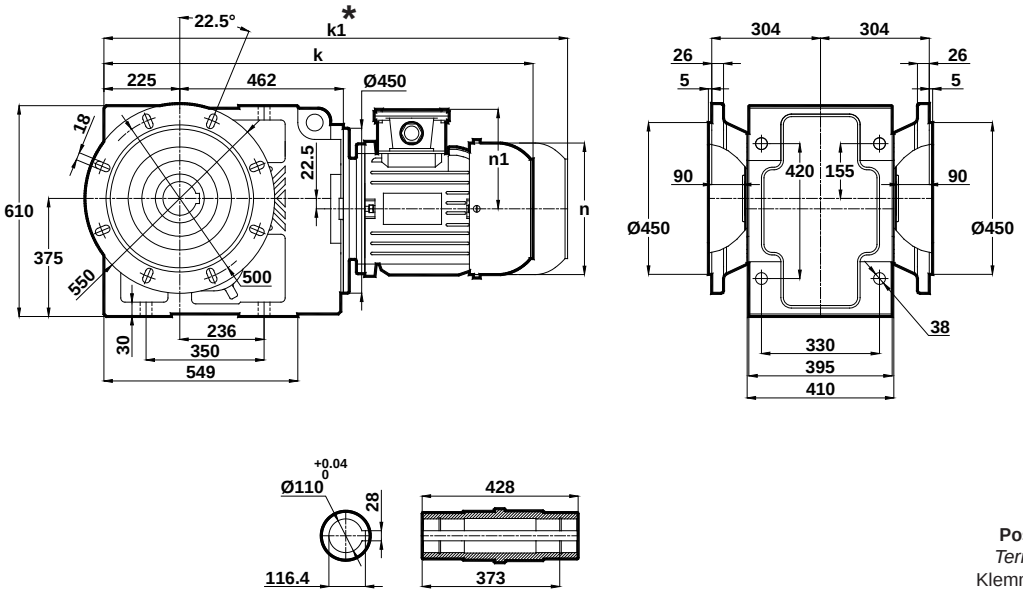
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

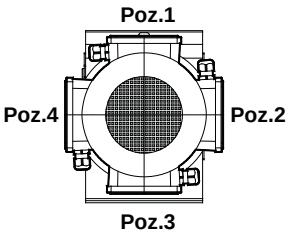
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

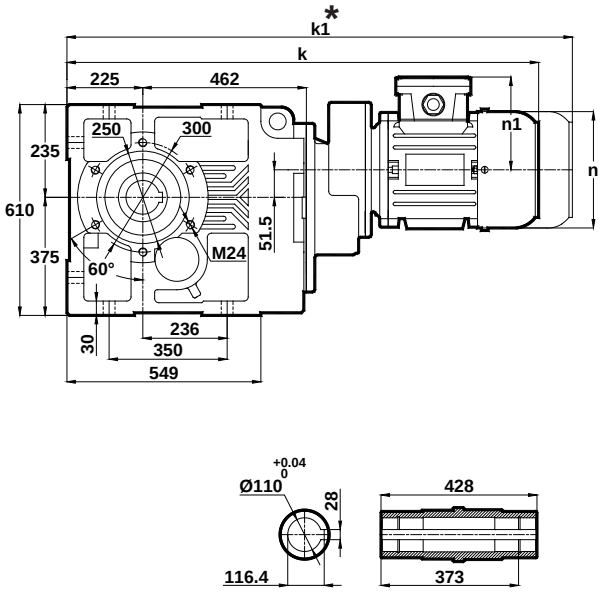
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

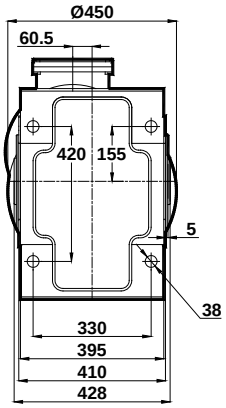


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

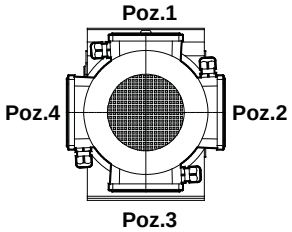
KR874.00





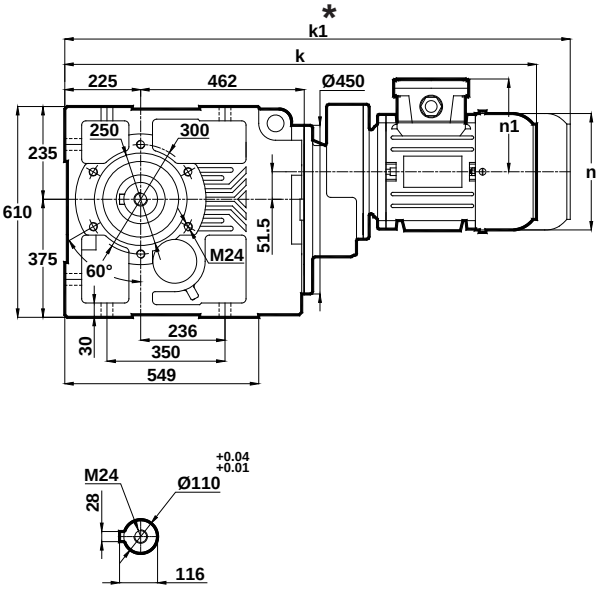
	100L	112M	132S	132M	160M	160L	180M
k	1115,5	1138,5	1192,5	1230,5	1305,5	1349,5	1366
k1	1250,5	1273,5	1337,5	1375,5	1475,5	1519,5	1536
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

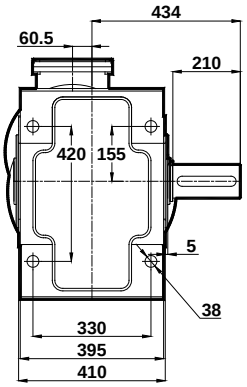
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



100-112-132-160-180
Tipo / *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

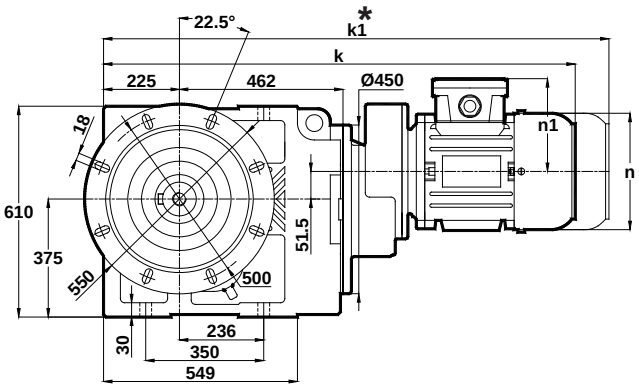
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

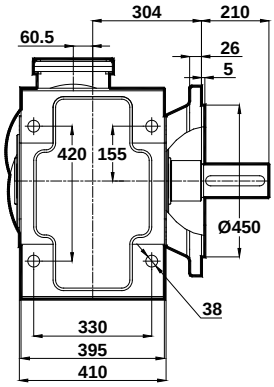


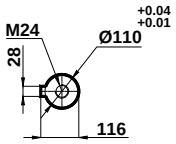
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR874.02

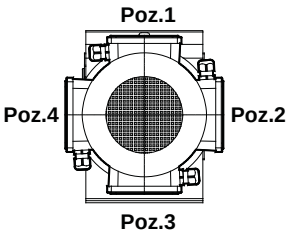






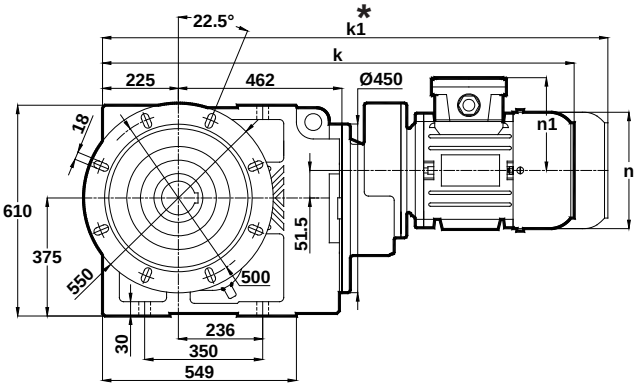
	100L	112M	132S	132M	160M	160L	180M
k	1115,5	1138,5	1192,5	1230,5	1305,5	1349,5	1366
k1	1250,5	1273,5	1337,5	1375,5	1475,5	1519,5	1536
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

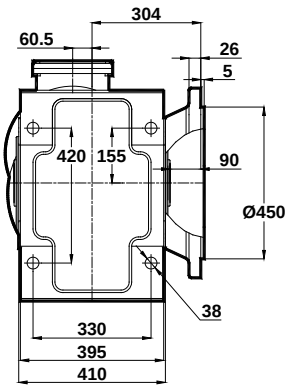
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

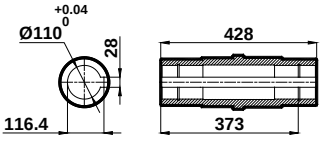


100-112-132-160-180
Tipo / *Type* **/** Typ

KR874.03







	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

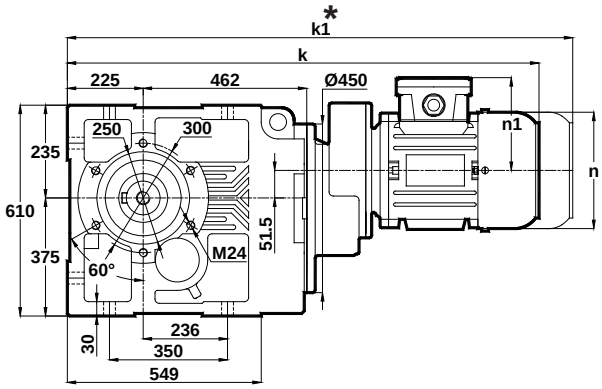
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

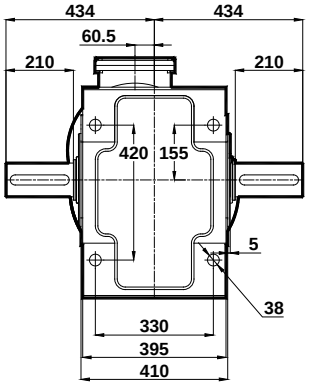


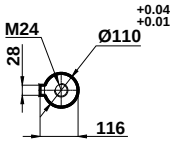
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR874.04

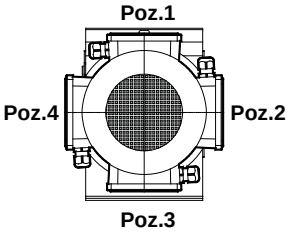






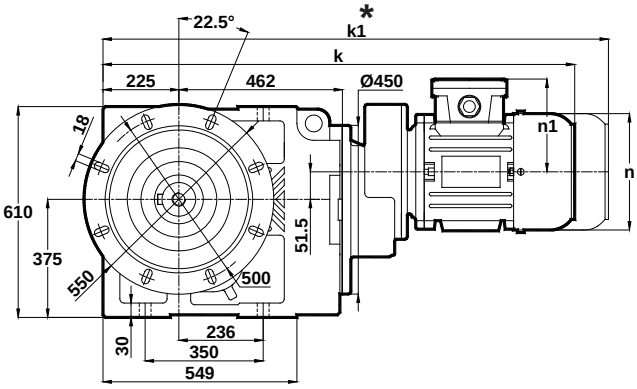
	100L	112M	132S	132M	160M	160L	180M
k	1115,5	1138,5	1192,5	1230,5	1305,5	1349,5	1366
k1	1250,5	1273,5	1337,5	1375,5	1475,5	1519,5	1536
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

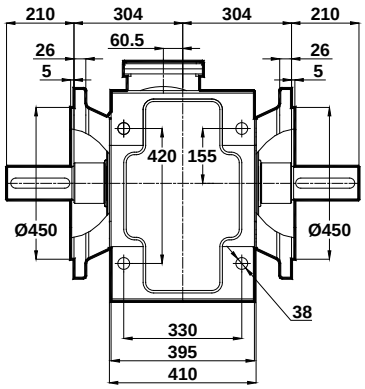
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

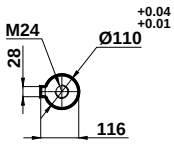


100-112-132-160-180
Tipo / *Type* **/** Typ

KR874.05





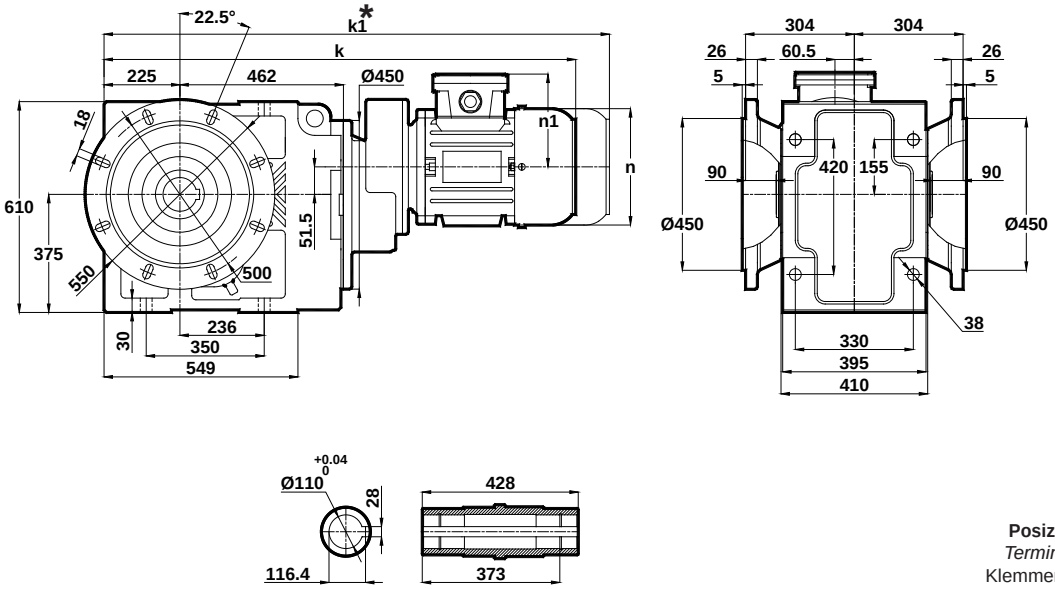


	100L	112M	132S	132M	160M	160L	180M
k	1115,5	1138,5	1192,5	1230,5	1305,5	1349,5	1366
k1	1250,5	1273,5	1337,5	1375,5	1475,5	1519,5	1536
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

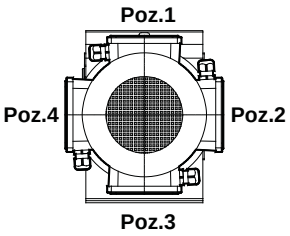
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

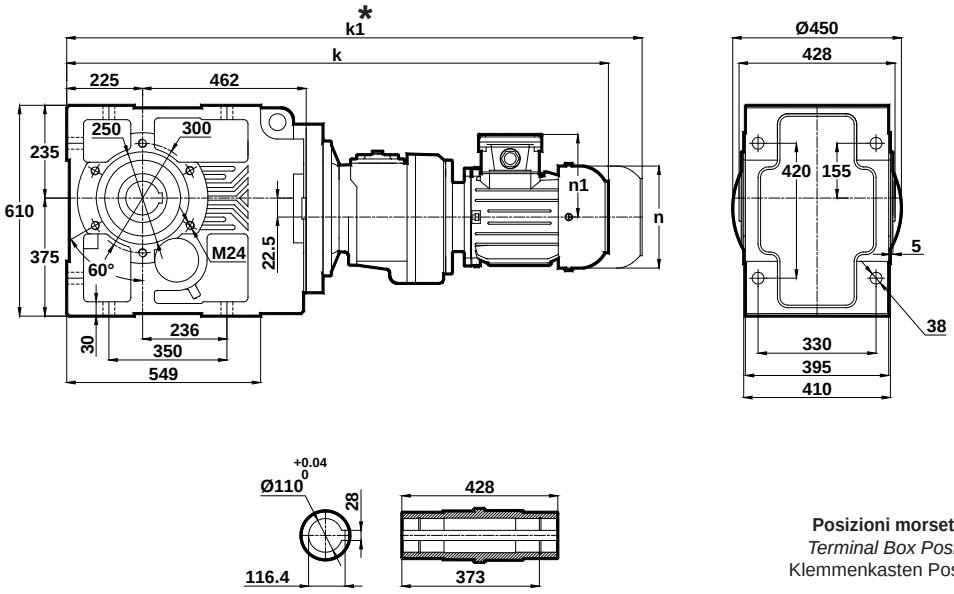
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

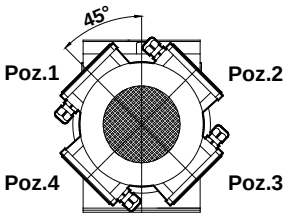
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR875.00
KR876.00

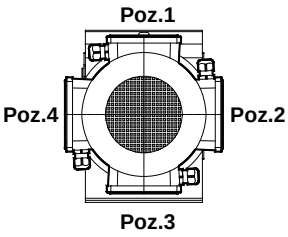


	71	80	90S	90L	100L	112M
k	1133	1161	1190	1215	1255	1278
k1	1253	1281	1315	1340	1390	1413
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

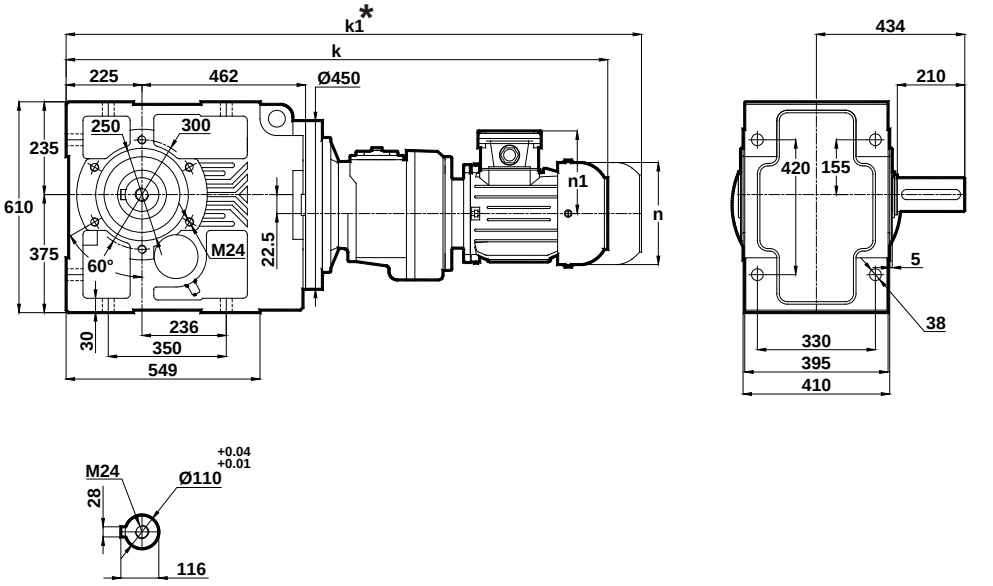


80-90
Tipo / *Type* **/** Typ



71-100-112-132
Tipo / *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

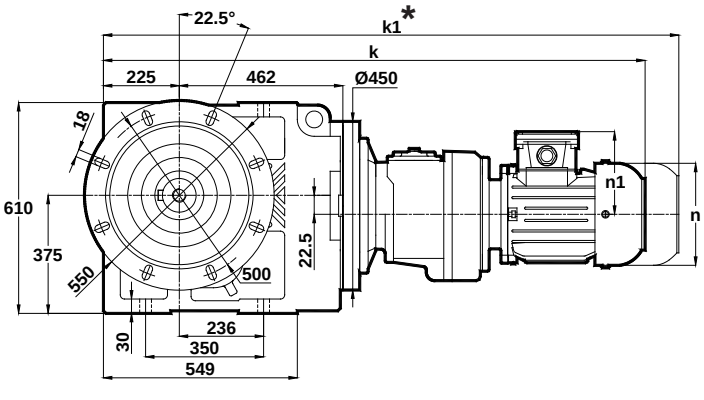
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

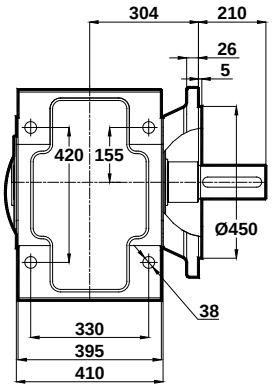


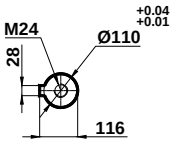
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR875.02
KR876.02

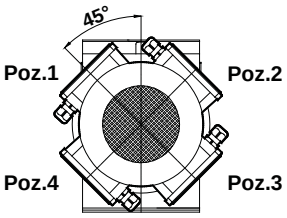




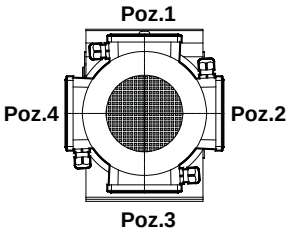


	71	80	90S	90L	100L	112M
k	1133	1161	1190	1215	1255	1278
k1	1253	1281	1315	1340	1390	1413
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

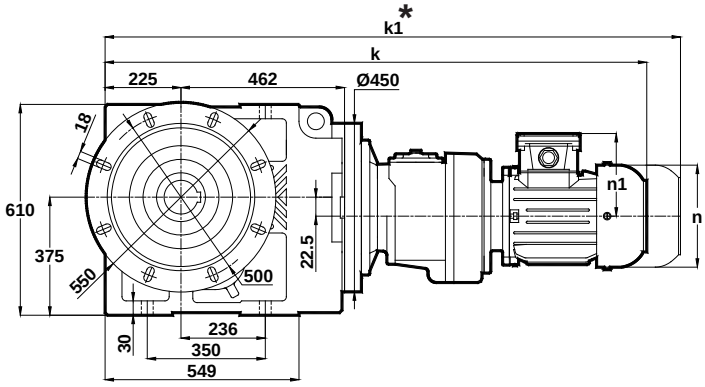


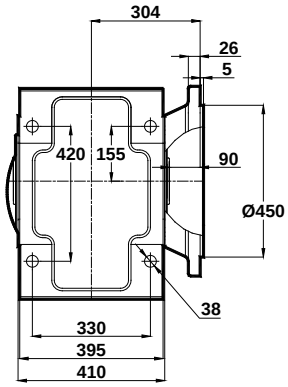
80-90
Tipo / *Type* **/** Typ

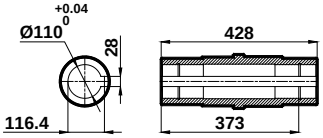


71-100-112-132
Tipo / *Type* **/** Typ

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

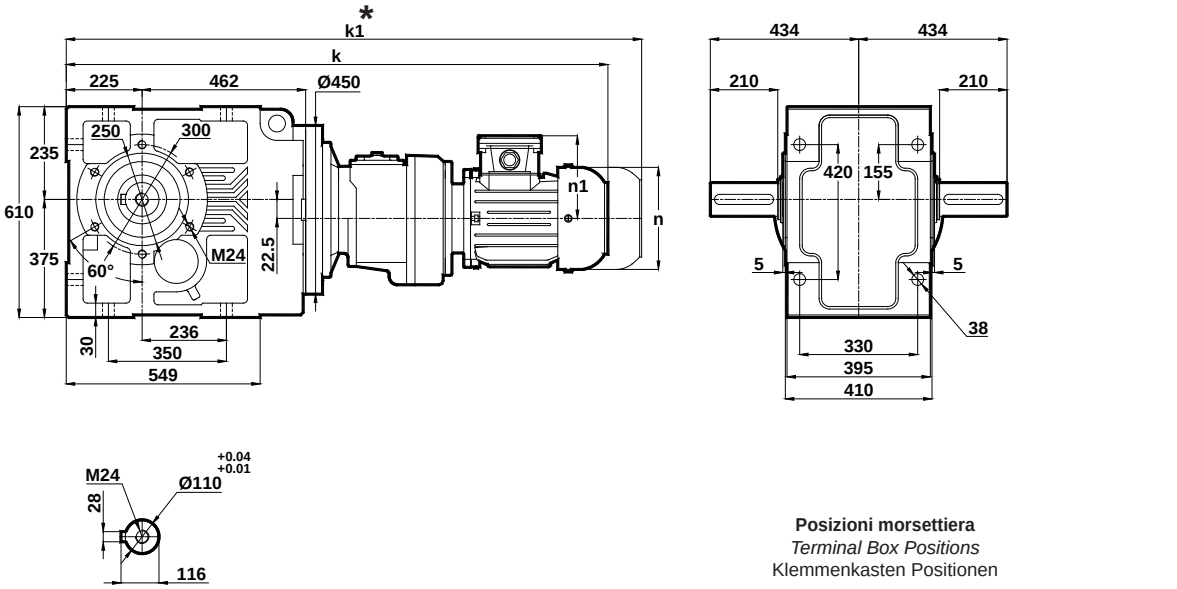
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße " k1 " ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

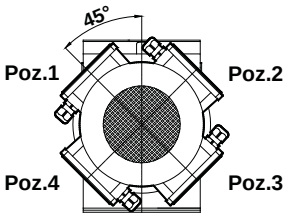
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR875.04
KR876.04

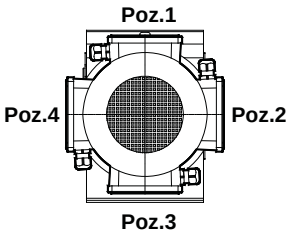


	71	80	90S	90L	100L	112M
k	1133	1161	1190	1215	1255	1278
k1	1253	1281	1315	1340	1390	1413
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

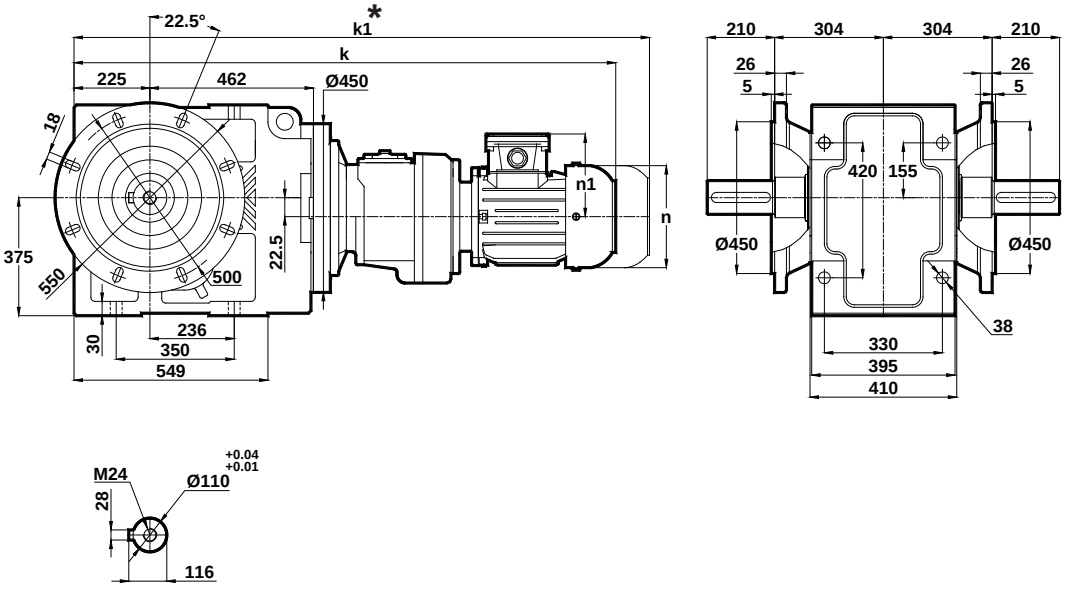


80-90
Tipo / *Type* **/** Typ



71-100-112-132
Tipo / *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
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

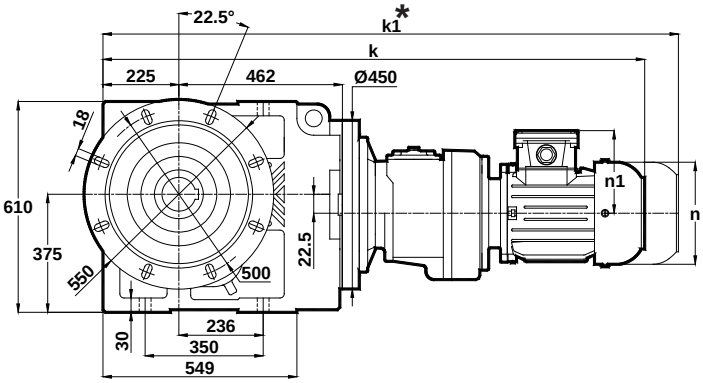
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
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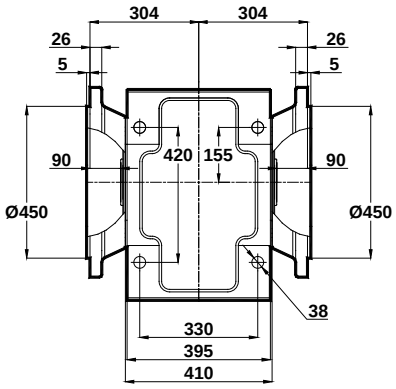


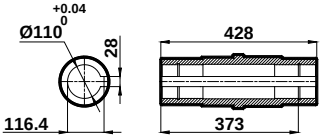
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KR875.08
KR876.08

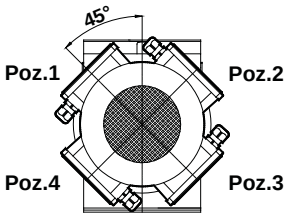




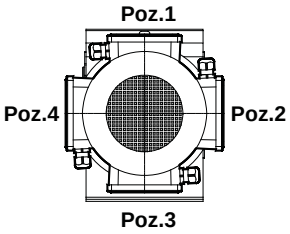


	71	80	90S	90L	100L	112M
k	1133	1161	1190	1215	1255	1278
k1	1253	1281	1315	1340	1390	1413
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



80-90
Tipo / *Type* **/** Typ

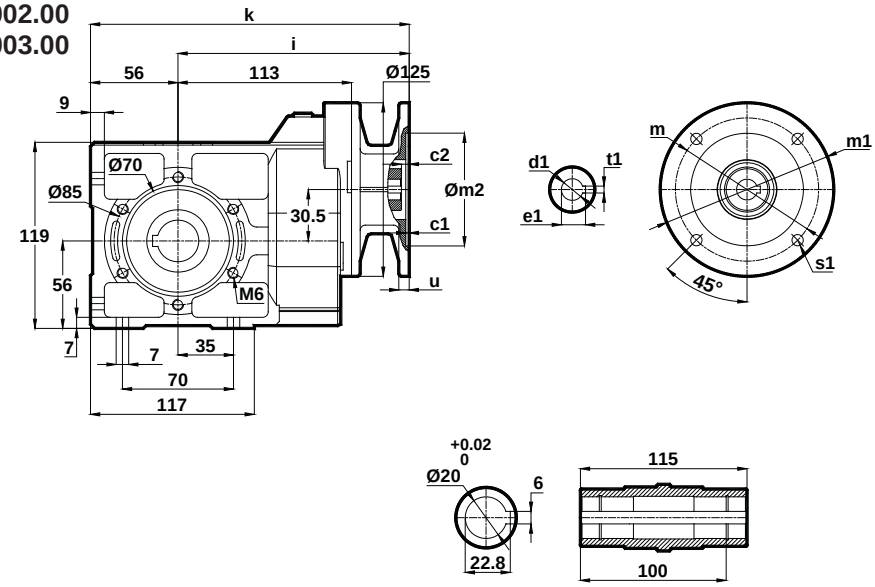


71-100-112-132
Tipo / *Type* **/** Typ

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension " k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
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Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

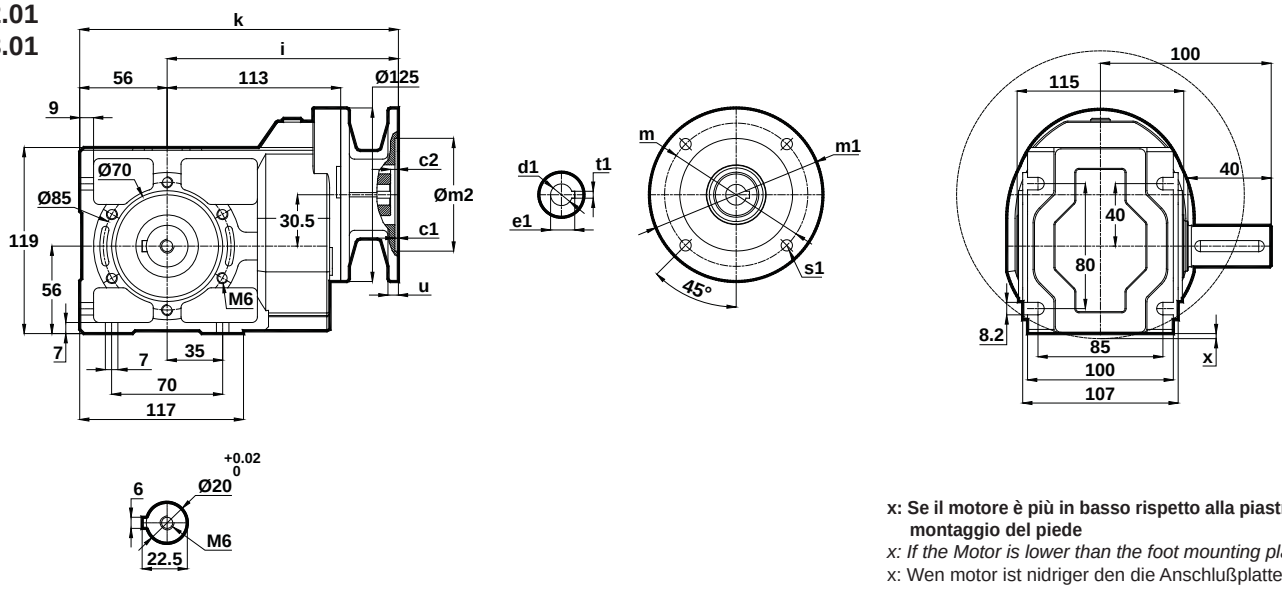
KN002.00
KN003.00



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	165	200	130	172,5	12	228,5	19	6	21,8	13,5
90/B5	4	5	12	165	200	130	172,5	12	228,5	24	8	27,3	13,5

KN002.01
KN003.01

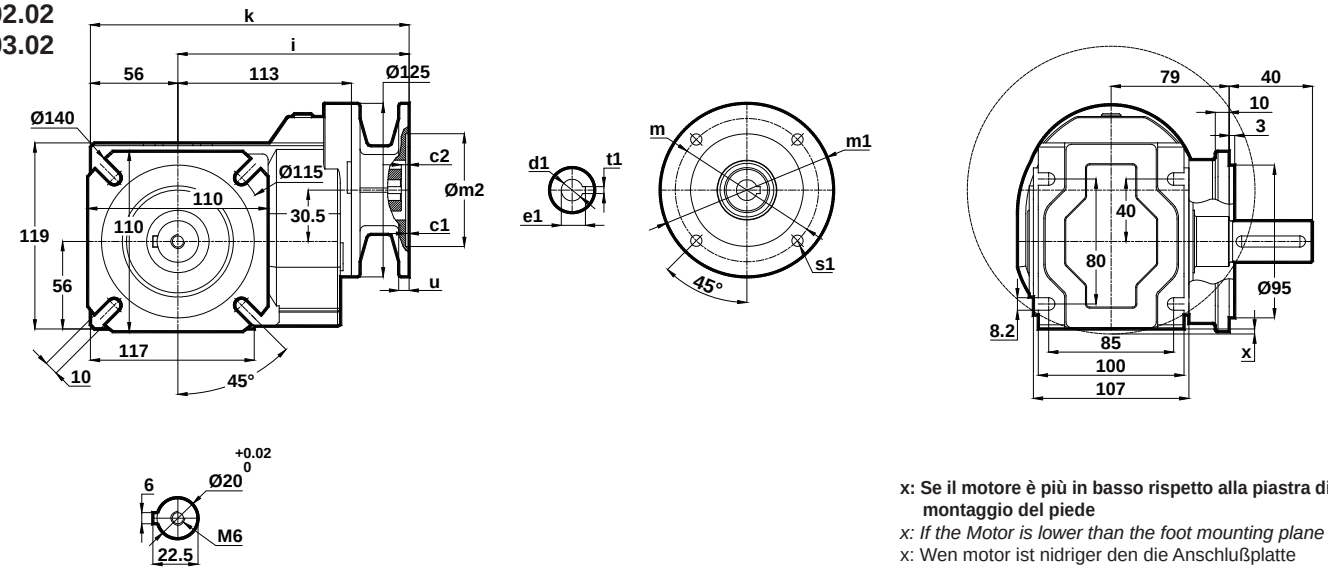


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	12	165	200	130	172,5	12	228,5	19	6	21,8	13,5
90/B5	4	5	12	165	200	130	172,5	12	228,5	24	8	27,3	13,5

Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

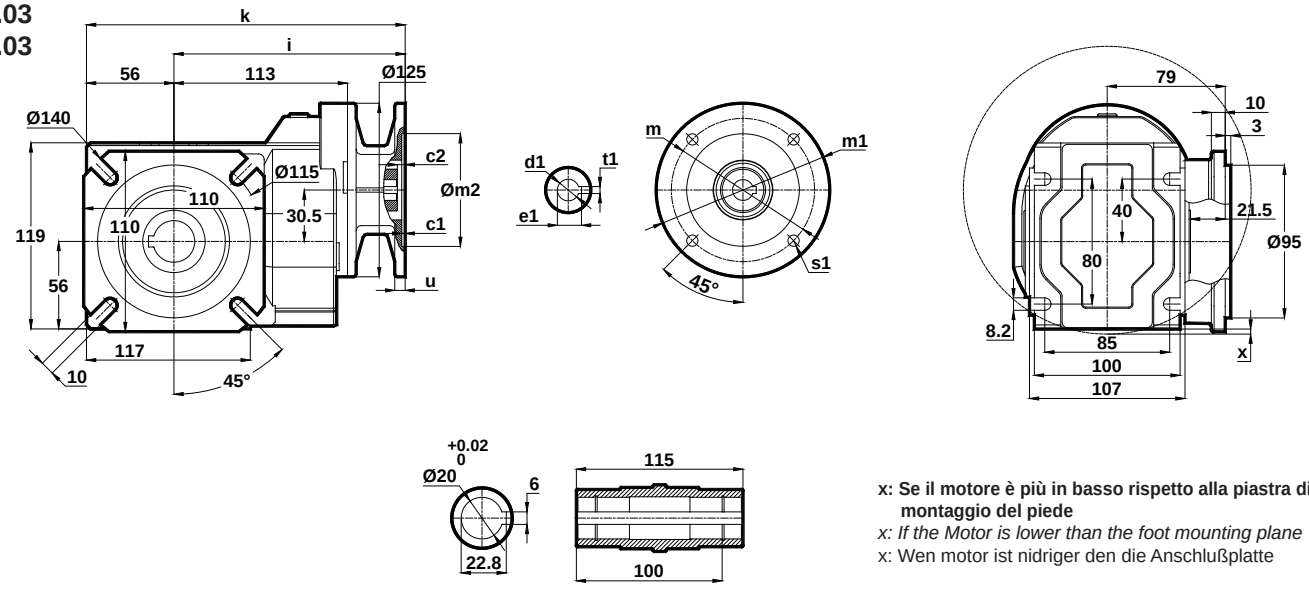
KN002.02
KN003.02



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	165	200	130	172,5	12	228,5	19	6	21,8	13,5
90/B5	4	5	12	165	200	130	172,5	12	228,5	24	8	27,3	13,5

KN002.03
KN003.03



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

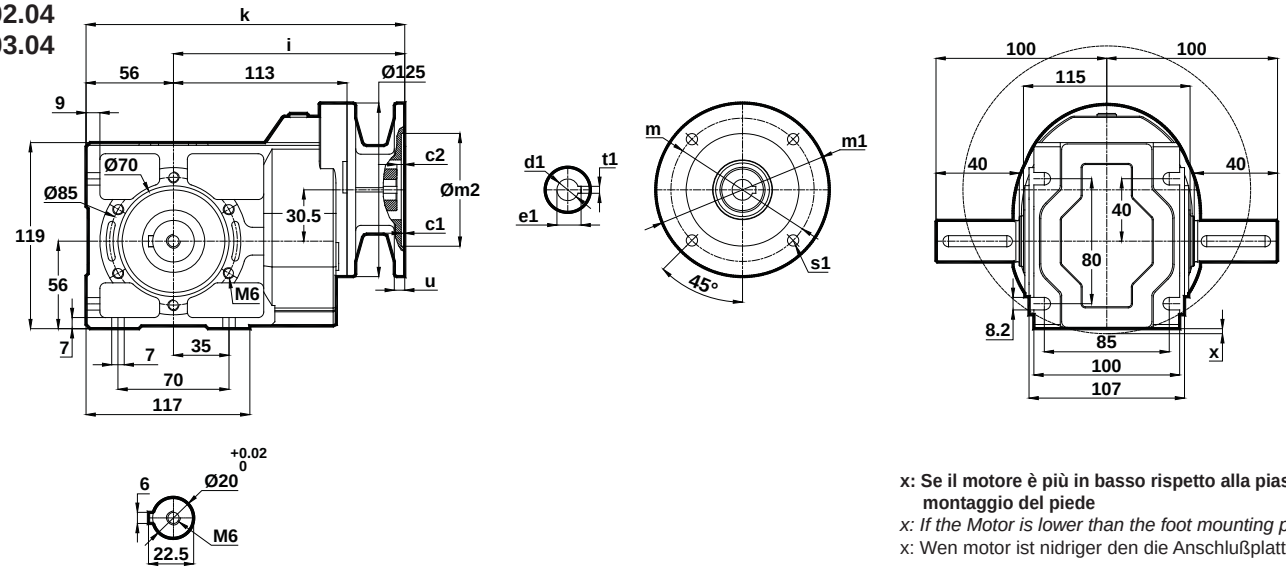
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
63/B5	3,5	5	10	115	140	95	156	10	212	11	4	12,8	-
71/B5	4	4,5	11	130	160	110	157,5	12	213,5	14	5	16,3	-
80/B5	4	5	12	165	200	130	172,5	12	228,5	19	6	21,8	13,5
90/B5	4	5	12	165	200	130	172,5	12	228,5	24	8	27,3	13,5



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

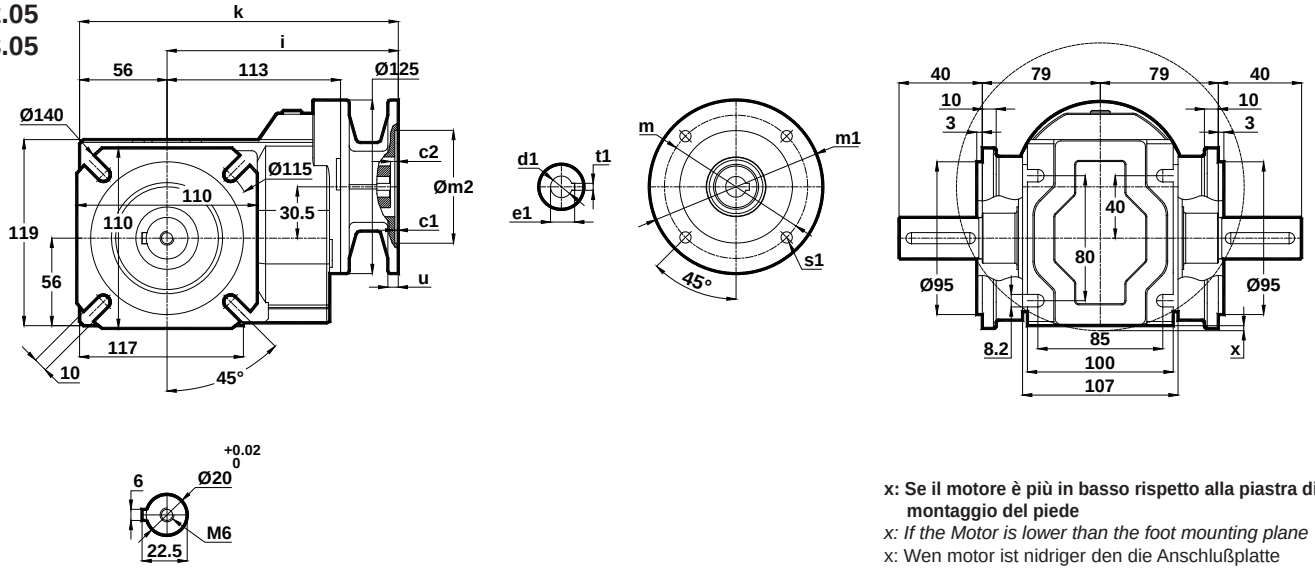
KN002.04
KN003.04



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	165	200	130	172,5	12	228,5	19	6	21,8	13,5
90/B5	4	5	12	165	200	130	172,5	12	228,5	24	8	27,3	13,5

KN002.05
KN003.05



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

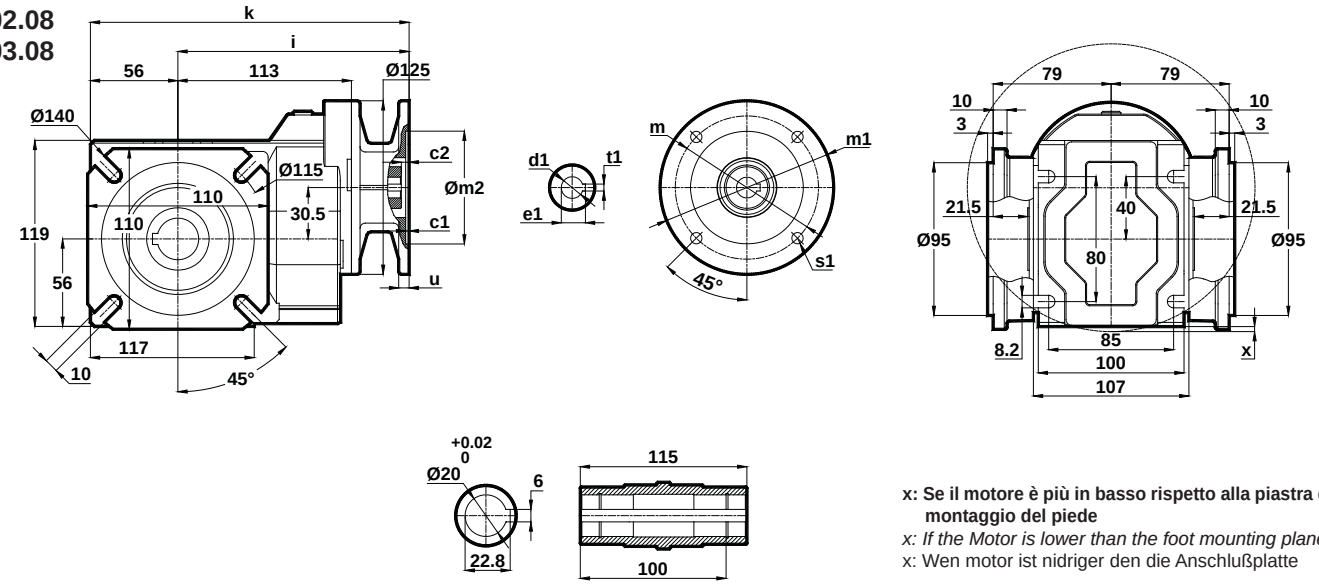
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
63/B5	3,5	5	10	115	140	95	156	10	212	11	4	12,8	-
71/B5	4	4,5	11	130	160	110	157,5	12	213,5	14	5	16,3	-
80/B5	4	5	12	165	200	130	172,5	12	228,5	19	6	21,8	13,5
90/B5	4	5	12	165	200	130	172,5	12	228,5	24	8	27,3	13,5



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN002.08
KN003.08



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

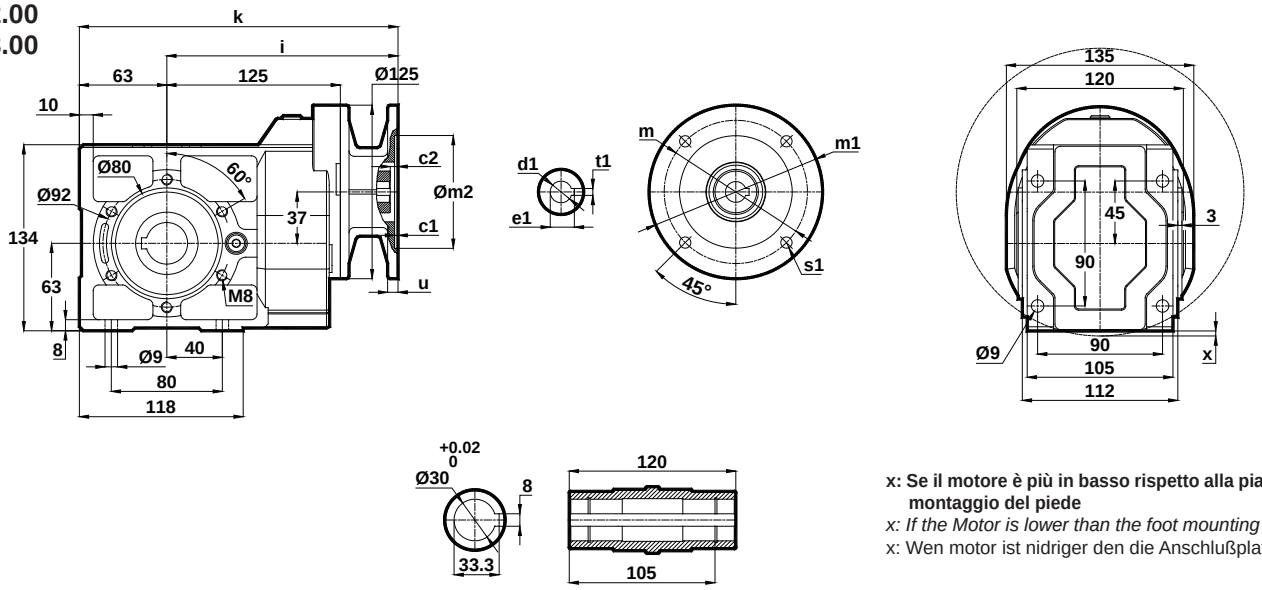
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
63/B5	3,5	5	10	115	140	95	156	10	212	11	4	12,8	-
71/B5	4	4,5	11	130	160	110	157,5	12	213,5	14	5	16,3	-
80/B5	4	5	12	165	200	130	172,5	12	228,5	19	6	21,8	13,5
90/B5	4	5	12	165	200	130	172,5	12	228,5	24	8	27,3	13,5



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

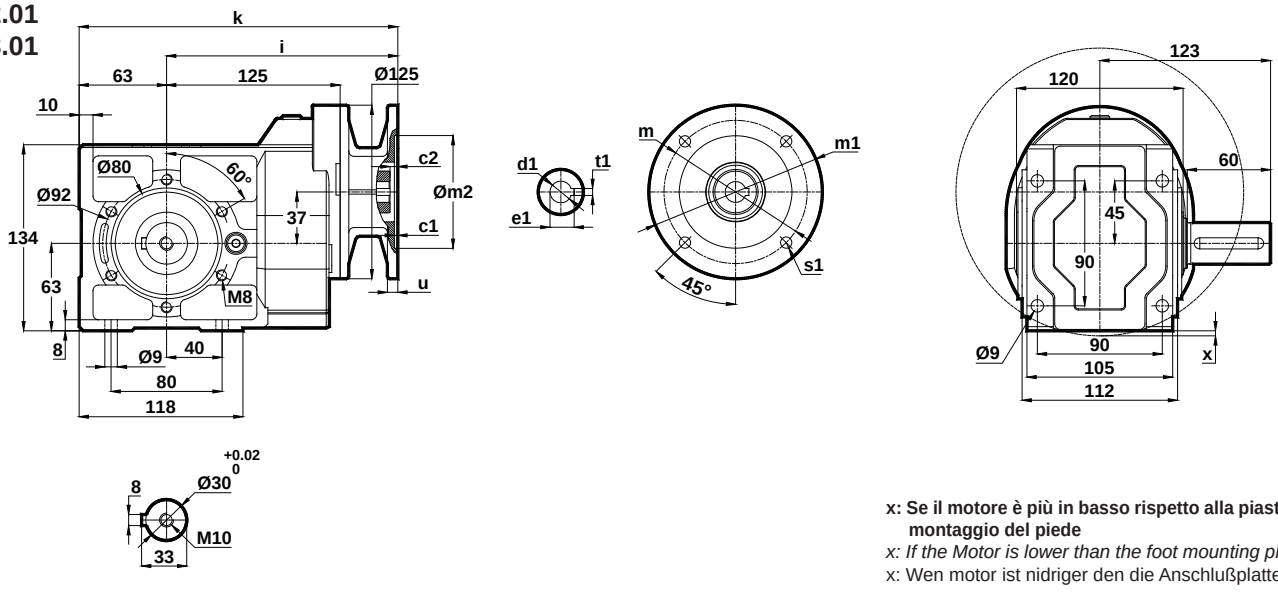
KN102.00
KN103.00



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	165	200	130	184,5	12	247,5	19	6	21,8	-
90/B5	4	5	12	165	200	130	184,5	12	247,5	24	8	27,3	-

KN102.01
KN103.01

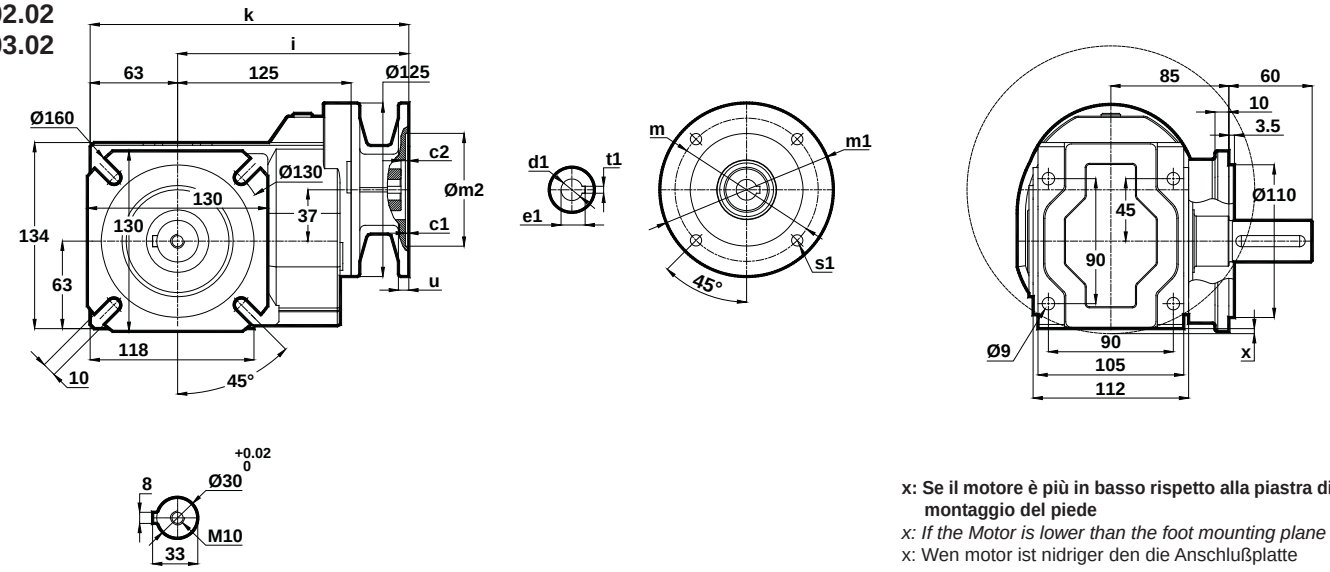


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	12	165	200	130	184,5	12	247,5	19	6	21,8	-
90/B5	4	5	12	165	200	130	184,5	12	247,5	24	8	27,3	-

Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

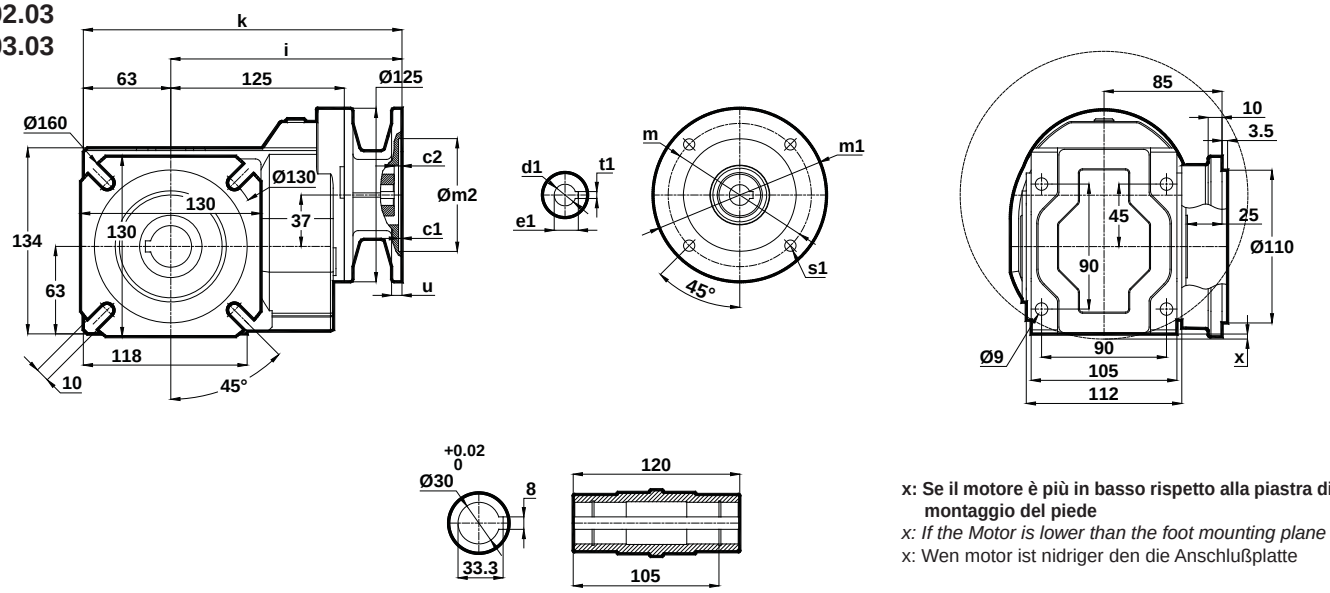
KN102.02
KN103.02



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	165	200	130	184,5	12	247,5	19	6	21,8	-
90/B5	4	5	12	165	200	130	184,5	12	247,5	24	8	27,3	-

KN102.03
KN103.03



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

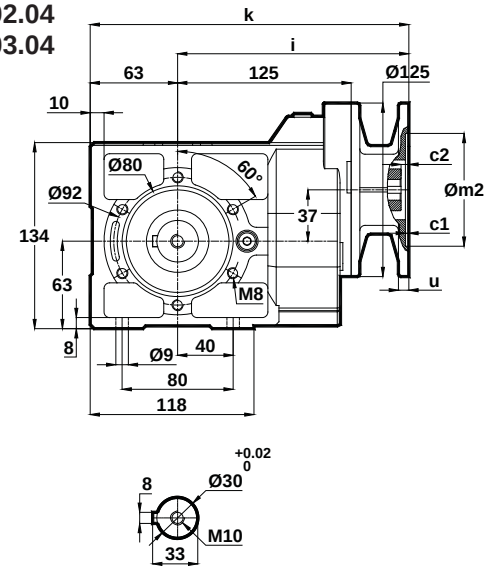
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
63/B5	3,5	5	10	115	140	95	168	10	231	11	4	12,8	-
71/B5	4	4,5	11	130	160	110	169,5	12	232,5	14	5	16,3	-
80/B5	4	5	12	165	200	130	184,5	12	247,5	19	6	21,8	-
90/B5	4	5	12	165	200	130	184,5	12	247,5	24	8	27,3	-

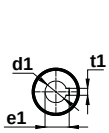


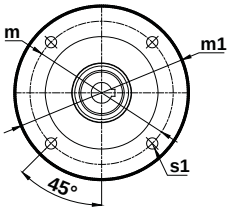
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

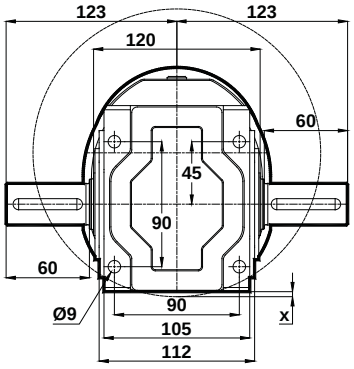
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN102.04
KN103.04





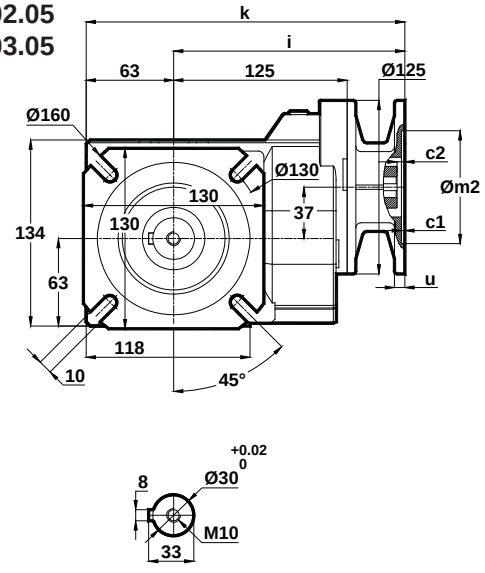


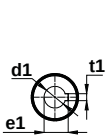


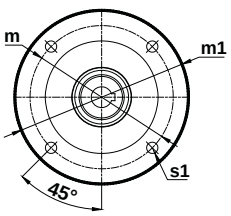
x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

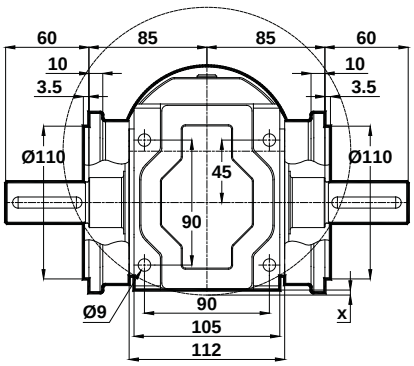
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
63/B5	3,5	5	10	115	140	95	168	10	231	11	4	12,8	-
71/B5	4	4,5	11	130	160	110	169,5	12	232,5	14	5	16,3	-
80/B5	4	5	12	165	200	130	184,5	12	247,5	19	6	21,8	-
90/B5	4	5	12	165	200	130	184,5	12	247,5	24	8	27,3	-

KN102.05
KN103.05









x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

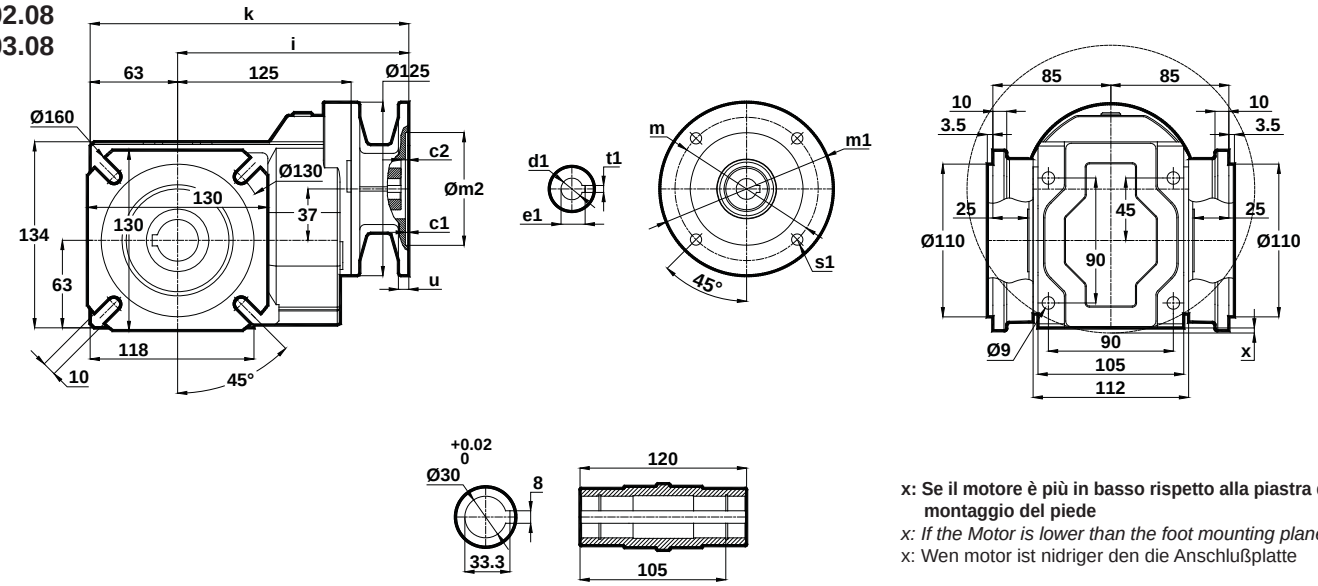
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
63/B5	3,5	5	10	115	140	95	168	10	231	11	4	12,8	-
71/B5	4	4,5	11	130	160	110	169,5	12	232,5	14	5	16,3	-
80/B5	4	5	12	165	200	130	184,5	12	247,5	19	6	21,8	-
90/B5	4	5	12	165	200	130	184,5	12	247,5	24	8	27,3	-



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN102.08
KN103.08

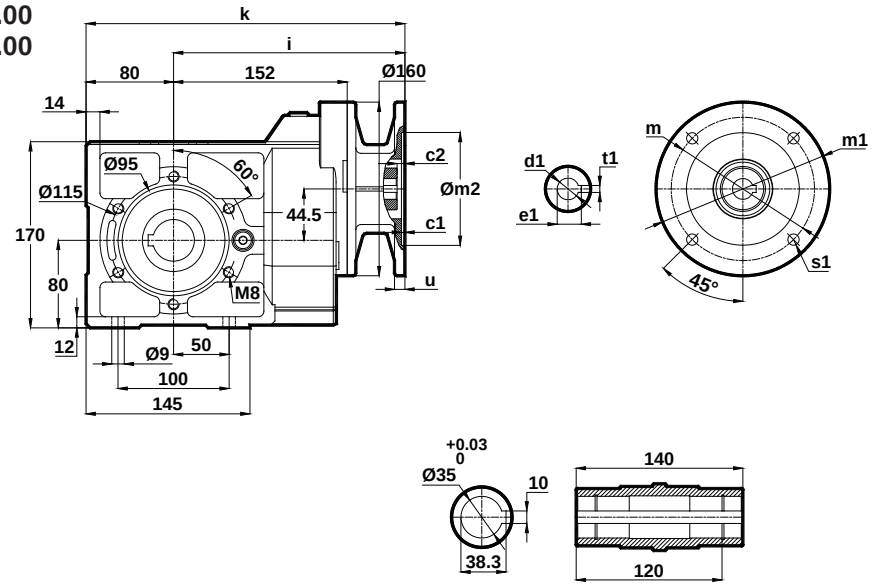


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	12	165	200	130	184,5	12	247,5	19	6	21,8	-
90/B5	4	5	12	165	200	130	184,5	12	247,5	24	8	27,3	-

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

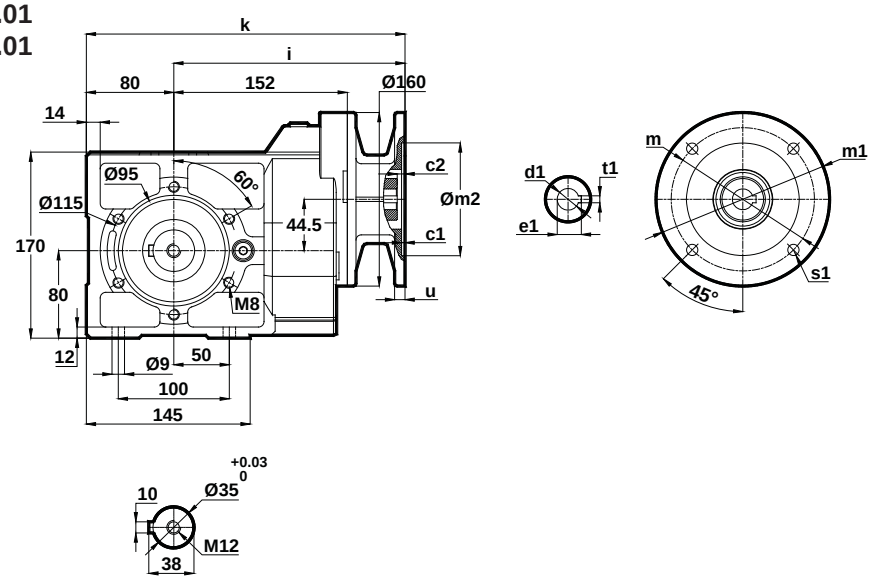
KN202.00
KN203.00



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	165	200	130	225,5	12	305,5	19	6	21,8	-
90/B5	4	5	12	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: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

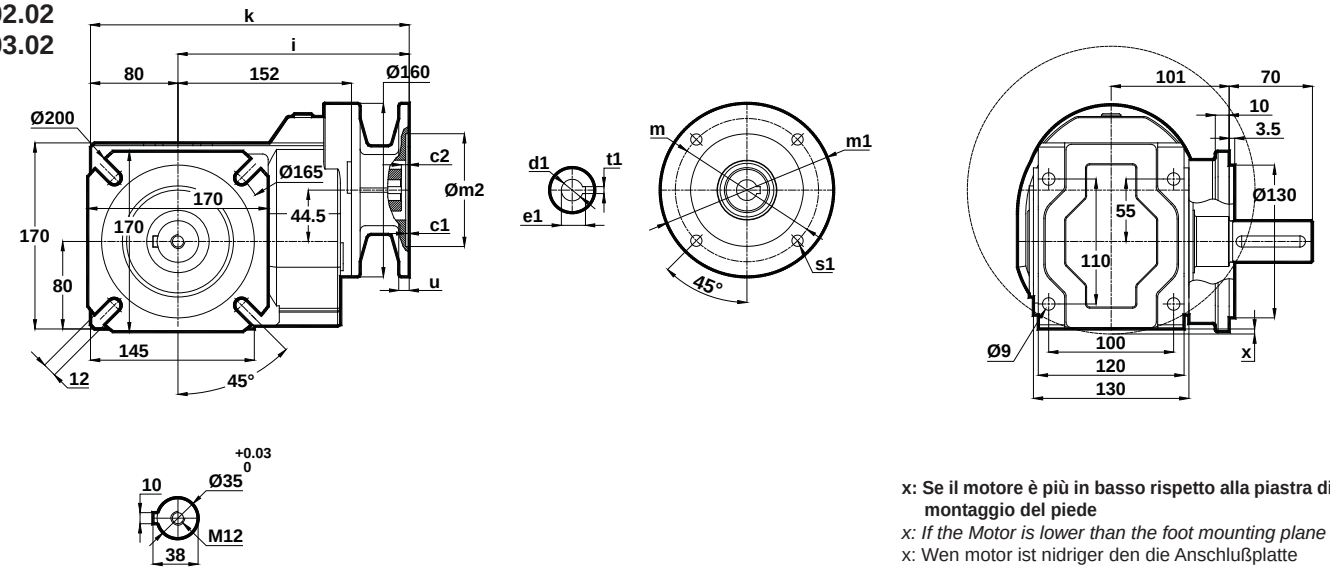
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	225,5	12	305,5	11	4	12,8	-
71/B5	4	8,5	11	130	160	110	196,5	12	276,5	14	5	16,3	-
80/B5	4	5	12	165	200	130	225,5	12	305,5	19	6	21,8	-
90/B5	4	5	12	165	200	130	225,5	12	305,5	24	8	27,3	-
100/B5	4	5,5	15	215	250	180	218,5	12	298,5	28	8	31,3	0,5
112/B5	4	5,5	15	215	250	180	218,5	12	298,5	28	8	31,3	0,5



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

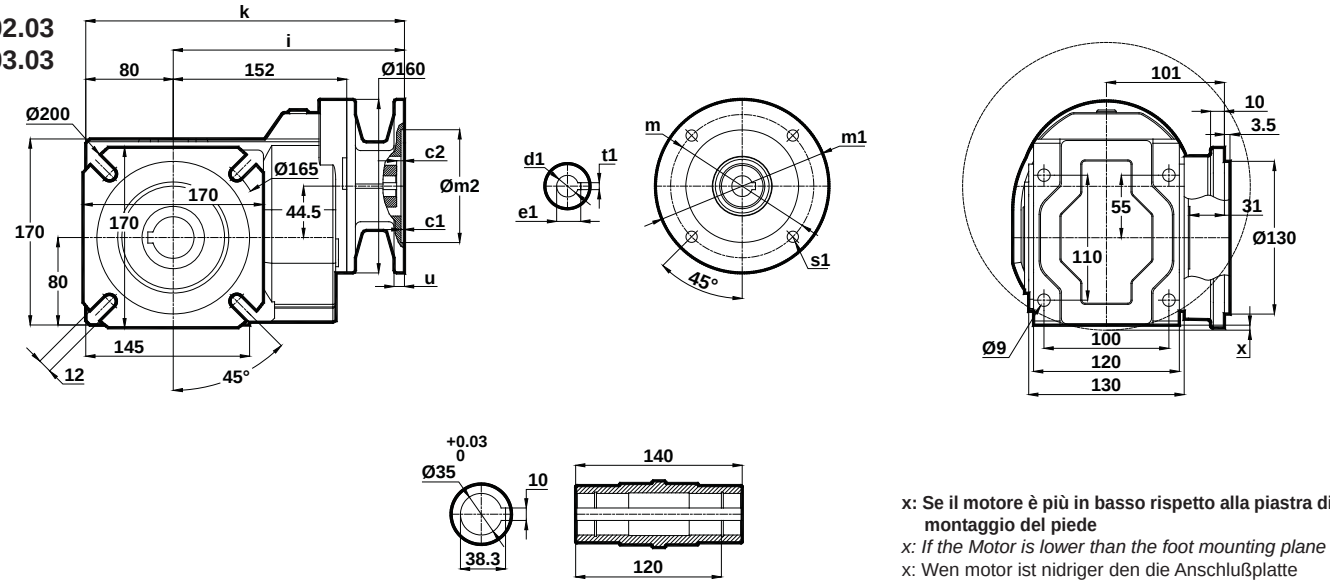
KN202.02
KN203.02



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	165	200	130	225,5	12	305,5	19	6	21,8	-
90/B5	4	5	12	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: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

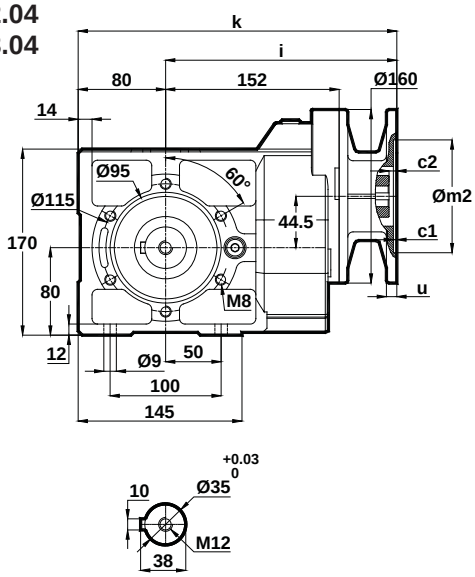
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	225,5	12	305,5	11	4	12,8	-
71/B5	4	8,5	11	130	160	110	196,5	12	276,5	14	5	16,3	-
80/B5	4	5	12	165	200	130	225,5	12	305,5	19	6	21,8	-
90/B5	4	5	12	165	200	130	225,5	12	305,5	24	8	27,3	-
100/B5	4	5,5	15	215	250	180	218,5	12	298,5	28	8	31,3	0,5
112/B5	4	5,5	15	215	250	180	218,5	12	298,5	28	8	31,3	0,5



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

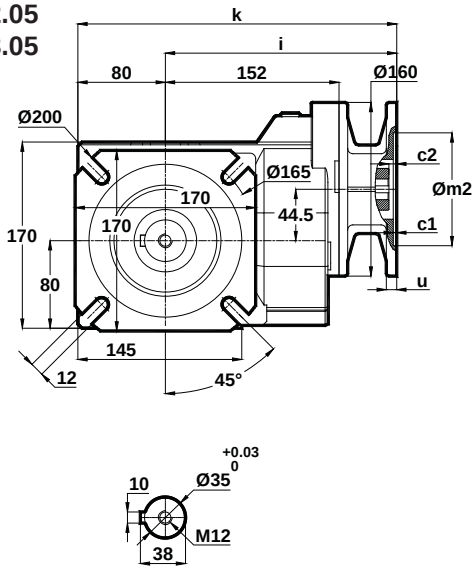
KN202.04
KN203.04



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	165	200	130	225,5	12	305,5	19	6	21,8	-
90/B5	4	5	12	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

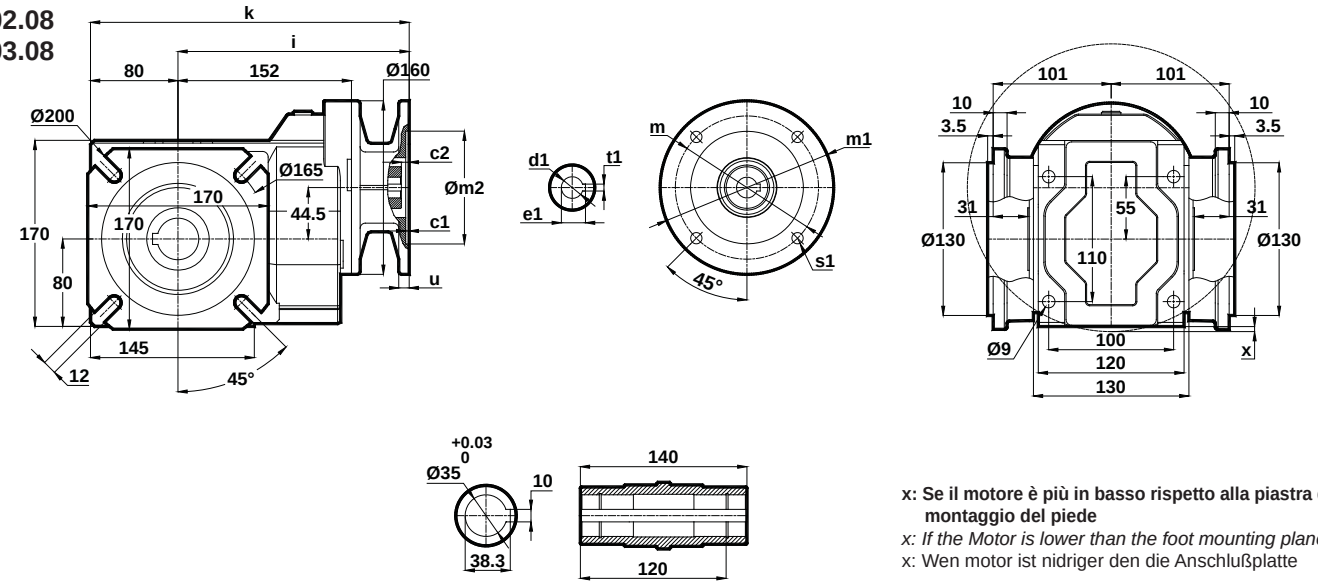


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	12	165	200	130	225,5	12	305,5	19	6	21,8	-
90/B5	4	5	12	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN202.08
KN203.08



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

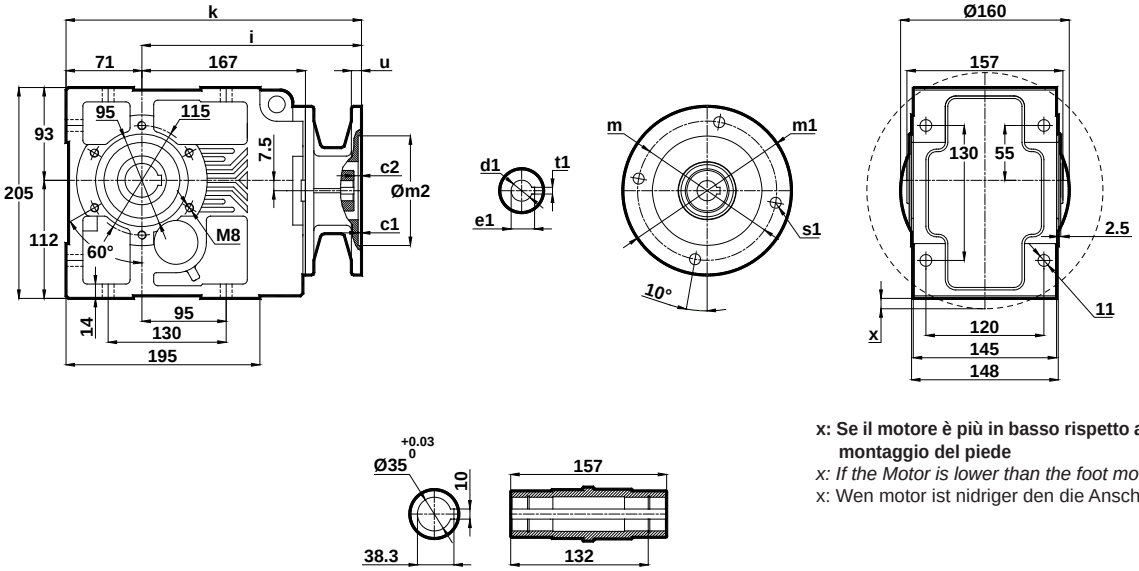
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	225,5	12	305,5	11	4	12,8	-
71/B5	4	8,5	11	130	160	110	196,5	12	276,5	14	5	16,3	-
80/B5	4	5	12	165	200	130	225,5	12	305,5	19	6	21,8	-
90/B5	4	5	12	165	200	130	225,5	12	305,5	24	8	27,3	-
100/B5	4	5,5	15	215	250	180	218,5	12	298,5	28	8	31,3	0,5
112/B5	4	5,5	15	215	250	180	218,5	12	298,5	28	8	31,3	0,5



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

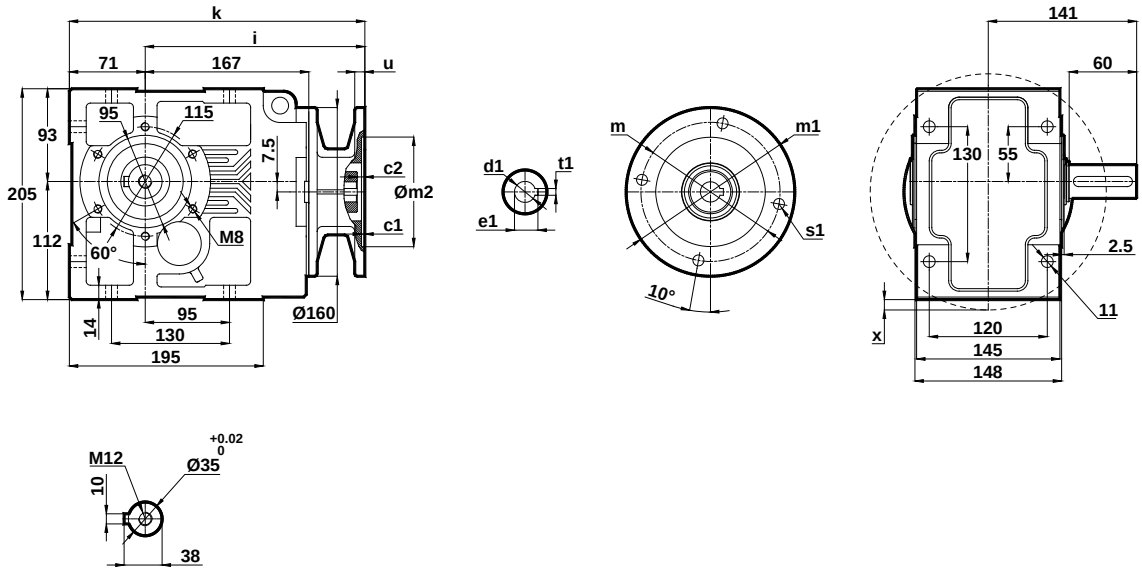
KN273.00



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	165	200	130	241	12	312	19	6	21,8	-
90/B5	4	5	12	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

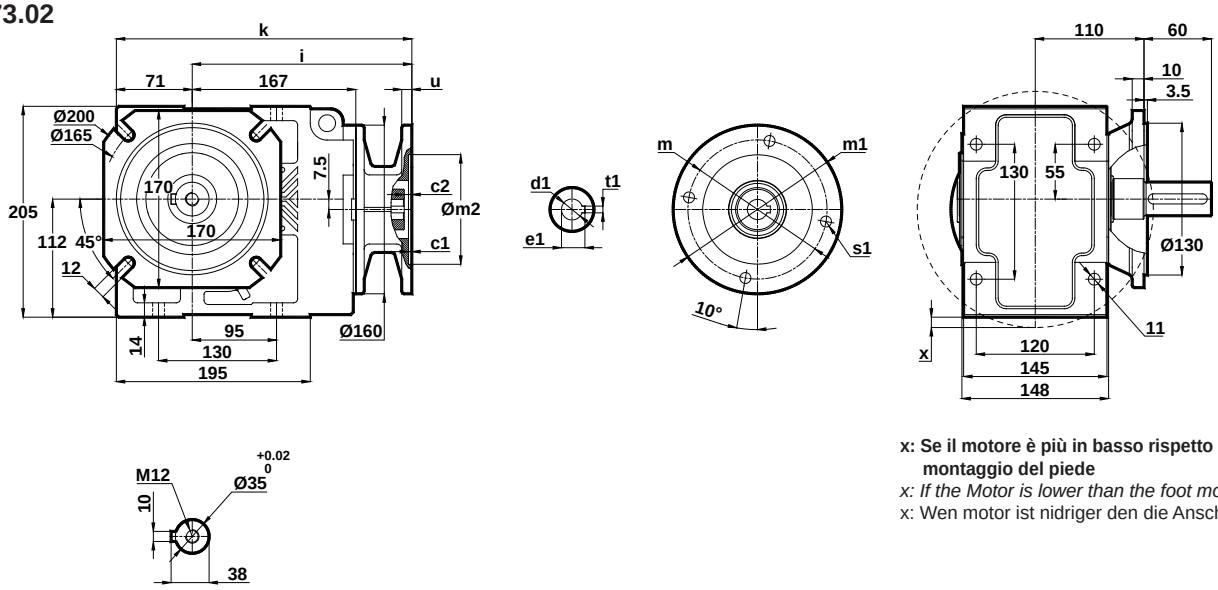
KN273.01



	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	12	165	200	130	241	12	312	19	6	21,8	-
90/B5	4	5	12	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

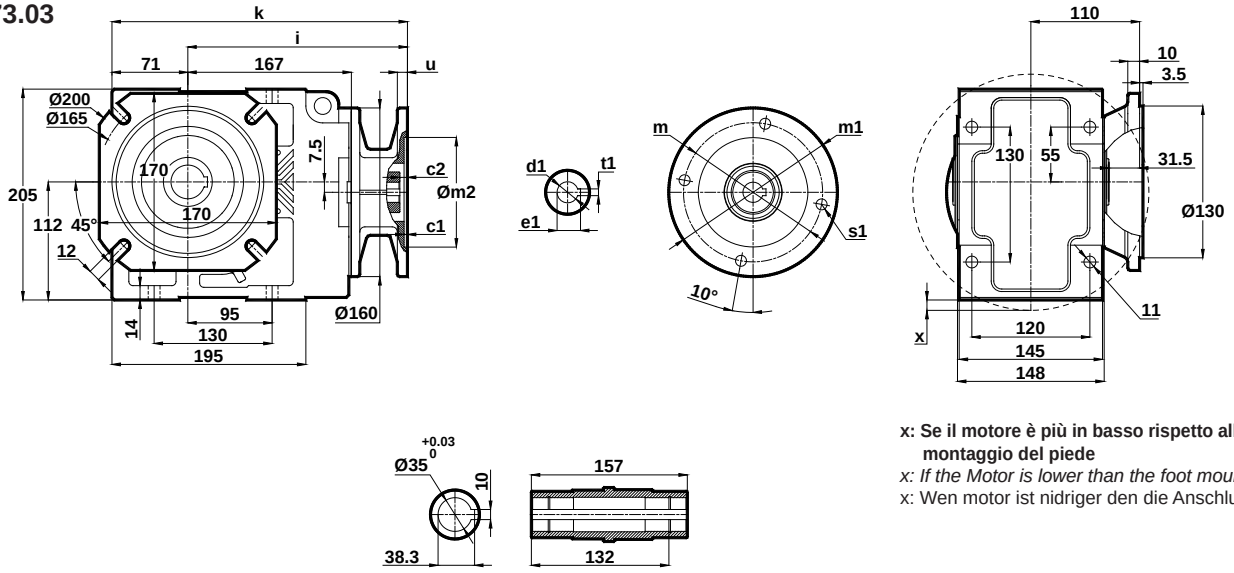
KN273.02



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	165	200	130	241	12	312	19	6	21,8	-
90/B5	4	5	12	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: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

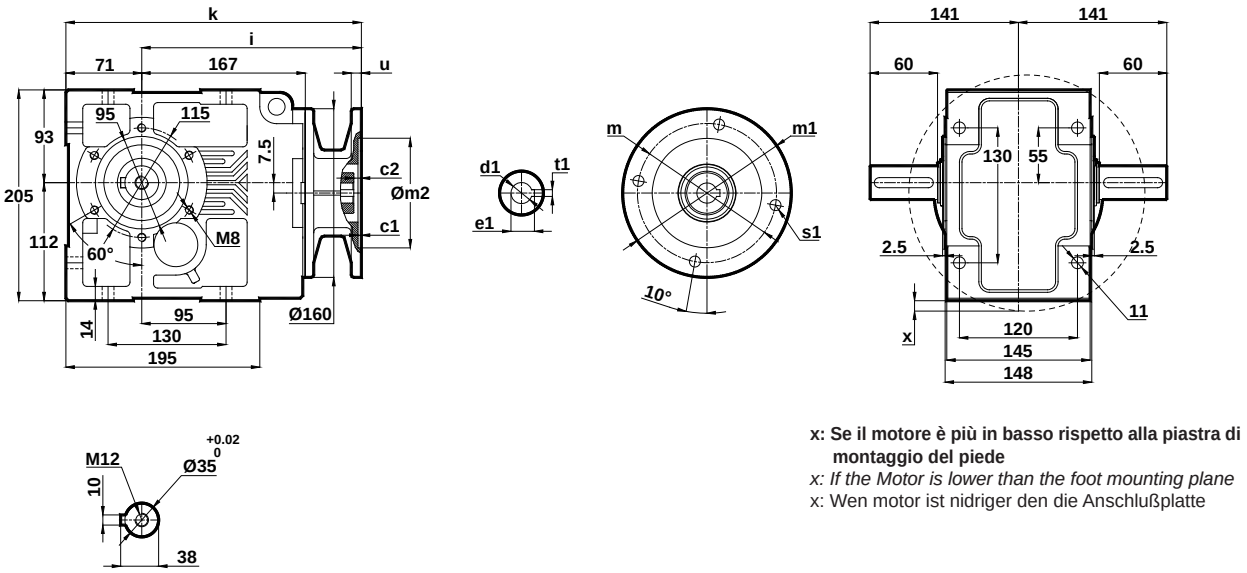
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
63/B5	4	8	9	115	140	95	241	12	312	11	4	12,8	-
71/B5	4	8,5	11	130	160	110	212	12	283	14	5	16,3	-
80/B5	4	5	12	165	200	130	241	12	312	19	6	21,8	-
90/B5	4	5	12	165	200	130	241	12	312	24	8	27,3	-
100/B5	4	5,5	15	215	250	180	234	12	305	28	8	31,3	20,5
112/B5	4	5,5	15	215	250	180	234	12	305	28	8	31,3	20,5



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

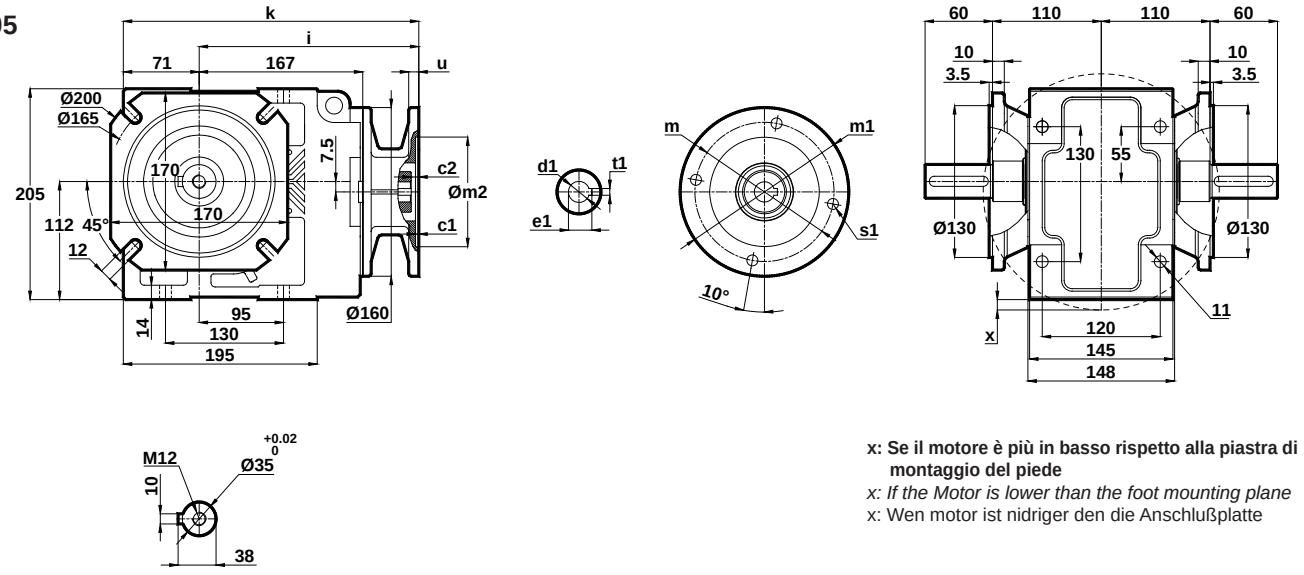
KN273.04



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	165	200	130	241	12	312	19	6	21,8	-
90/B5	4	5	12	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

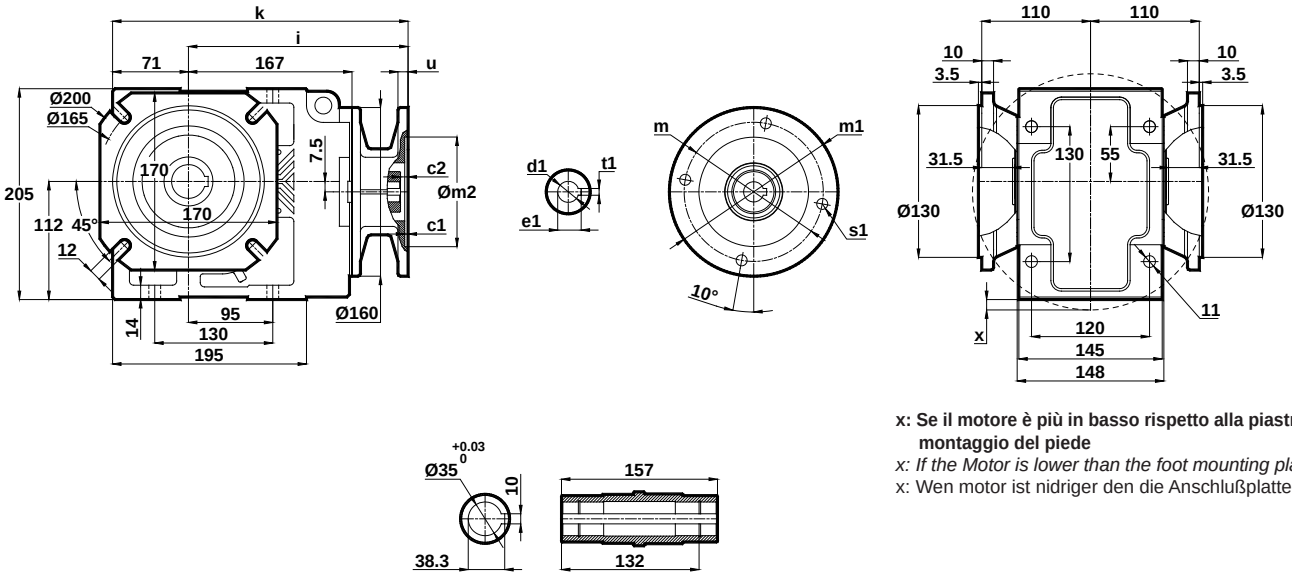


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	12	165	200	130	241	12	312	19	6	21,8	-
90/B5	4	5	12	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN273.08

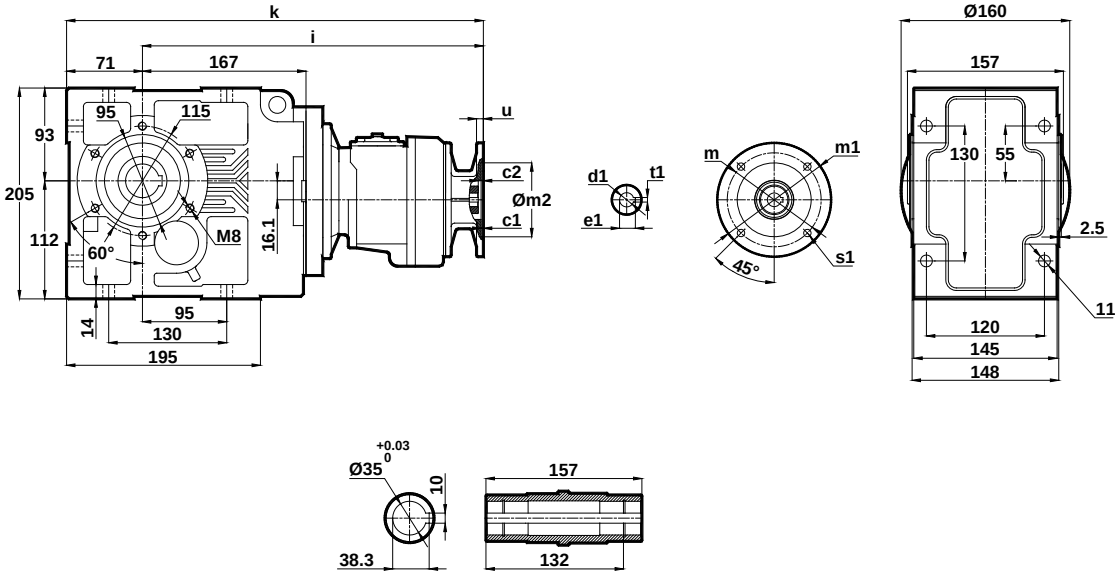


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	12	165	200	130	241	12	312	19	6	21,8	-
90/B5	4	5	12	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

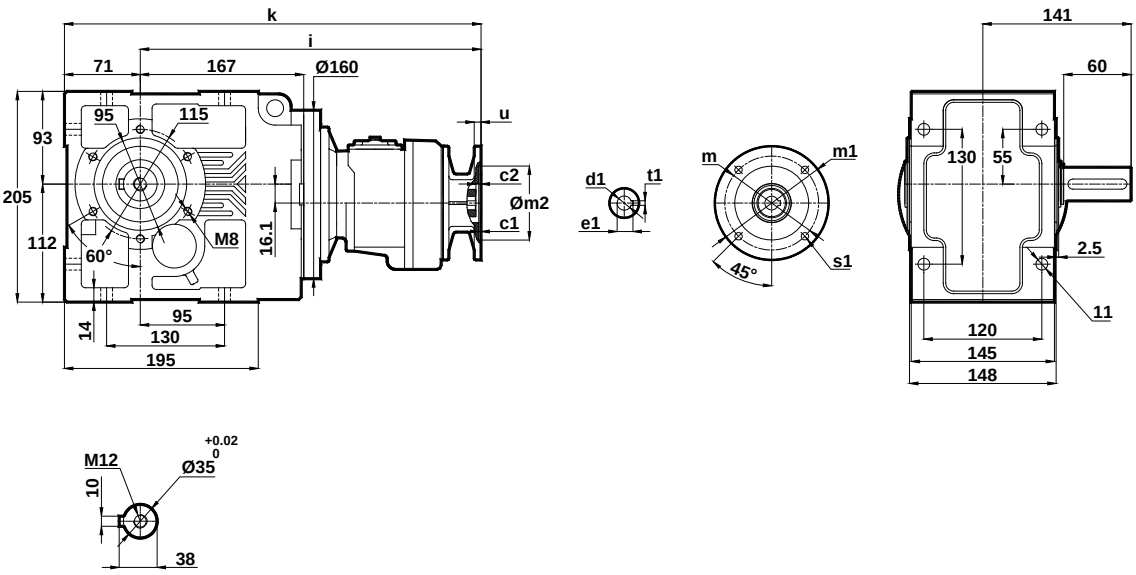
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	373	12	444	19	6	21,8

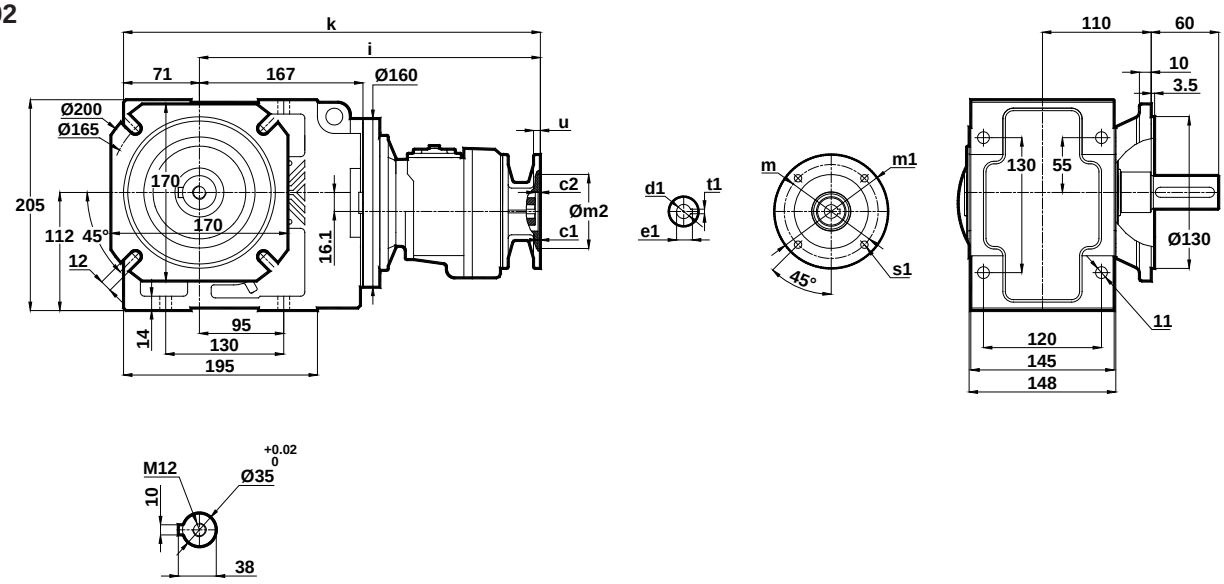
KN275.01
KN276.01



	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	12	165	200	130	373	12	444	19	6	21,8

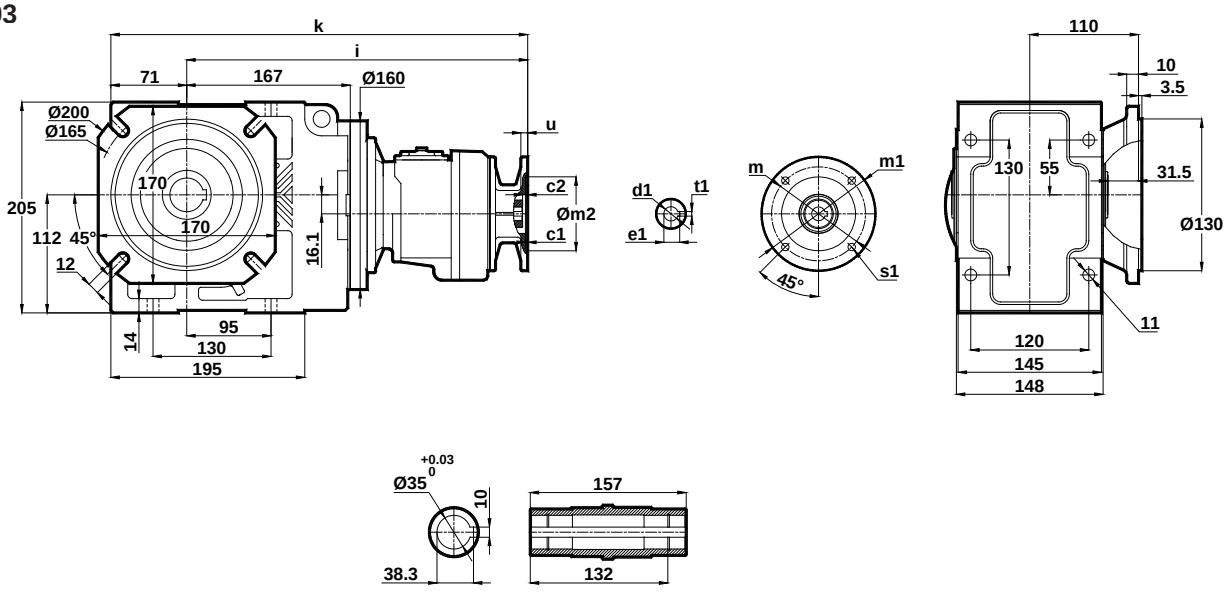
Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	373	12	444	19	6	21,8

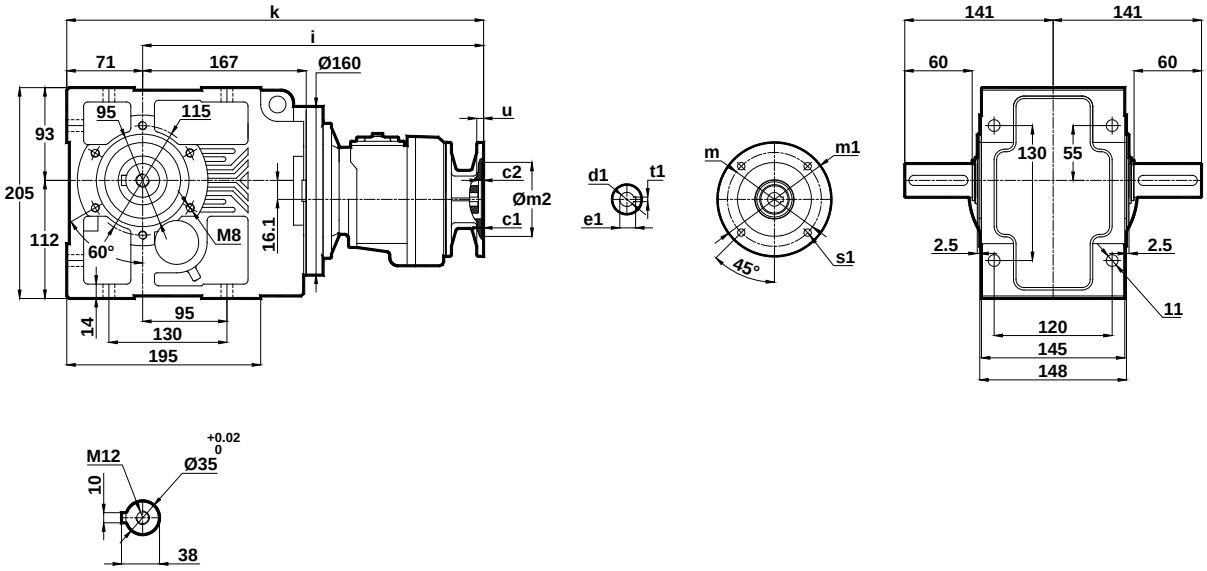
KN275.03
KN276.03



	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	12	165	200	130	373	12	444	19	6	21,8

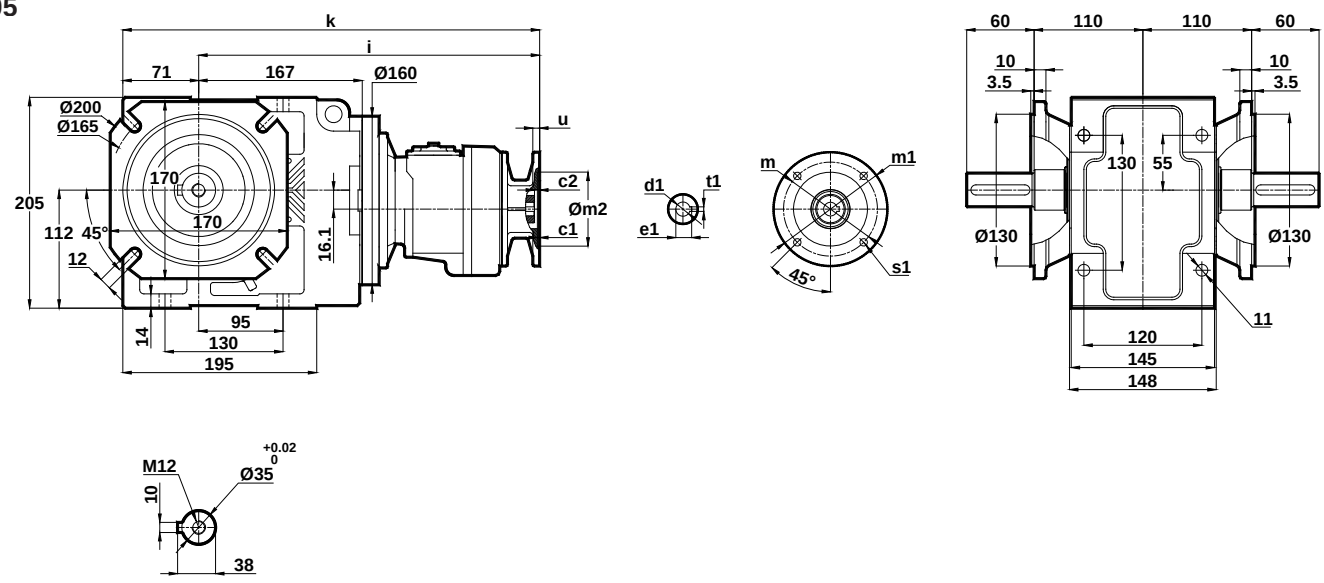
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	373	12	444	19	6	21,8

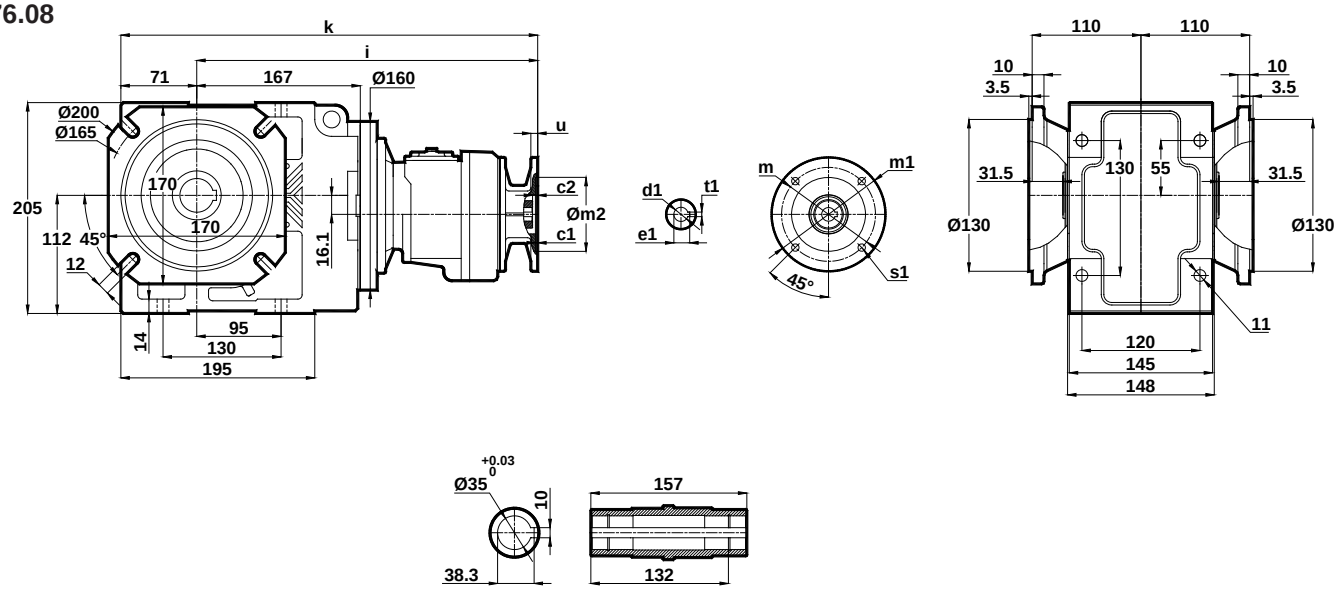
KN275.05
KN276.05



	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	12	165	200	130	373	12	444	19	6	21,8

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

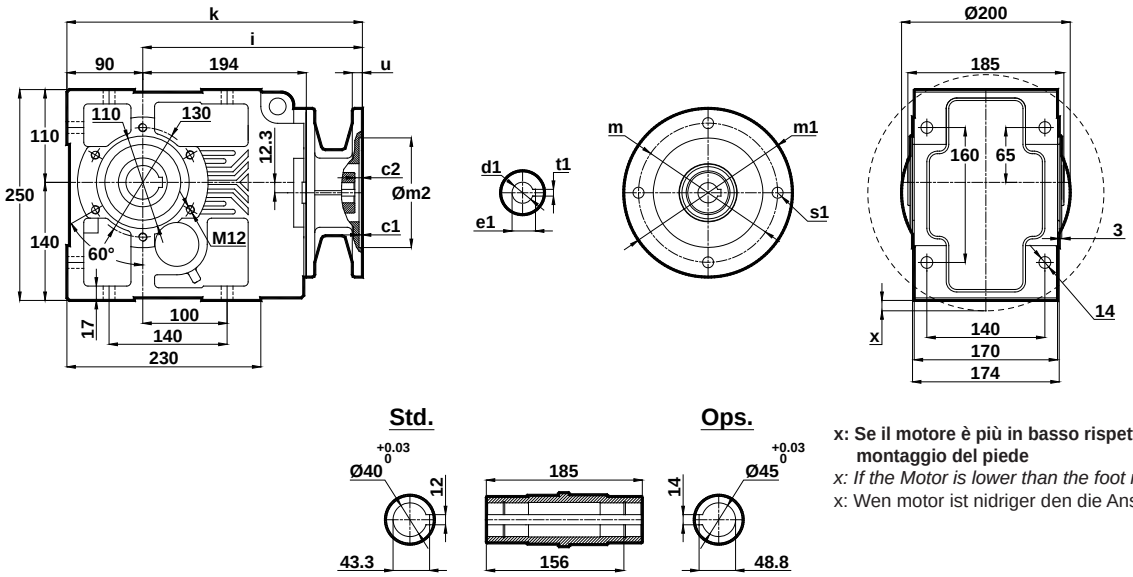
KN275.08
KN276.08



	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	12	165	200	130	373	12	444	19	6	21,8

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

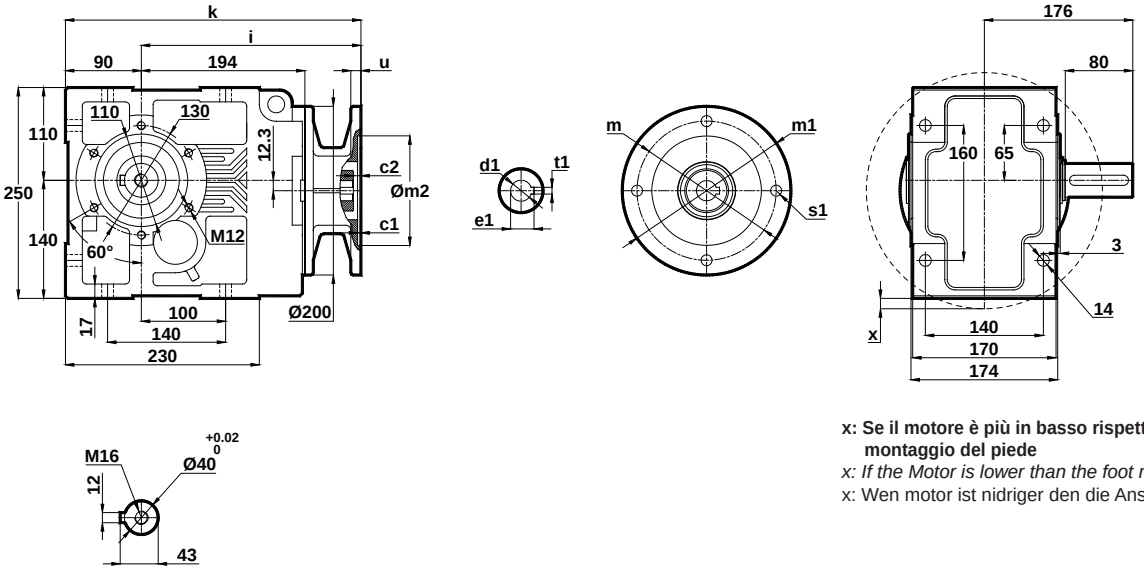
KN373.00



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	165	200	130	261	12	351	19	6	21,8	-
90/B5	4	9	12	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: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

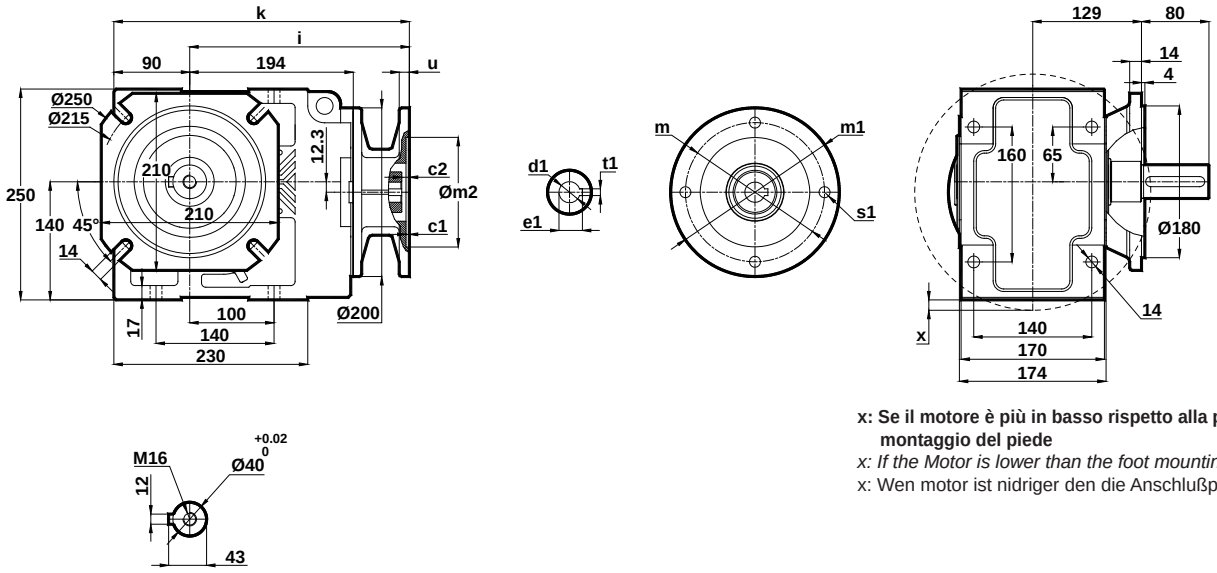
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	261	12	351	14	5	16,3	-
80/B5	4	9	12	165	200	130	261	12	351	19	6	21,8	-
90/B5	4	9	12	165	200	130	261	12	351	24	8	27,3	-
100/B5	4,5	9	15	215	250	180	278	15	368	28	8	31,3	-
112/B5	4,5	9	15	215	250	180	278	15	368	28	8	31,3	-
132/B5	4,5	7	15	265	300	230	298	15	388	38	10	41,3	22,3



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

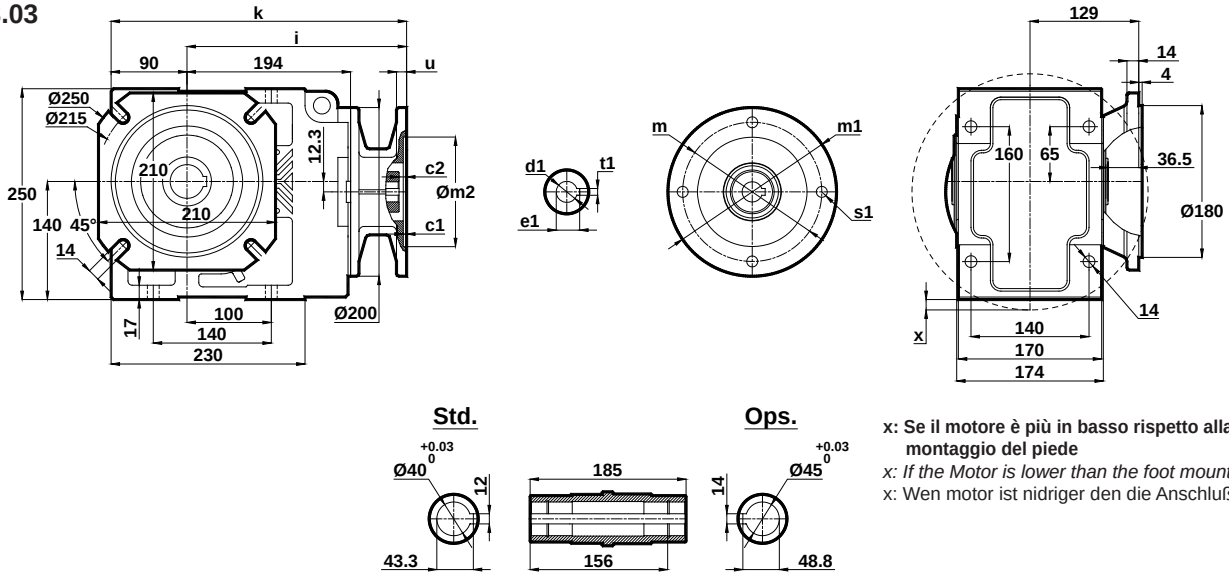
KN373.02



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	165	200	130	261	12	351	19	6	21,8	-
90/B5	4	9	12	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



Std.

Ops.

x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

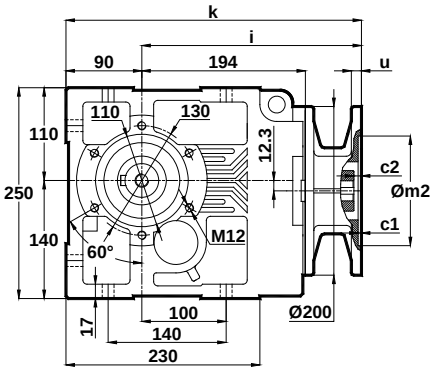
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	261	12	351	14	5	16,3	-
80/B5	4	9	12	165	200	130	261	12	351	19	6	21,8	-
90/B5	4	9	12	165	200	130	261	12	351	24	8	27,3	-
100/B5	4,5	9	15	215	250	180	278	15	368	28	8	31,3	-
112/B5	4,5	9	15	215	250	180	278	15	368	28	8	31,3	-
132/B5	4,5	7	15	265	300	230	298	15	388	38	10	41,3	22,3

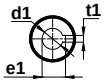


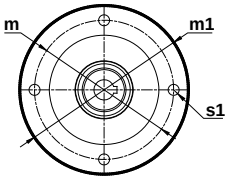
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

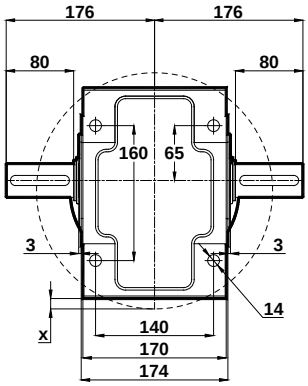
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

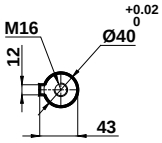
KN373.04







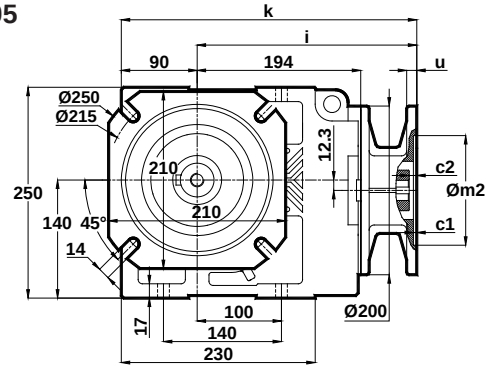


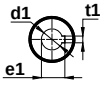


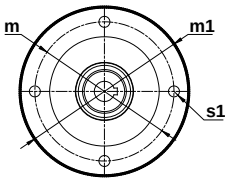
x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

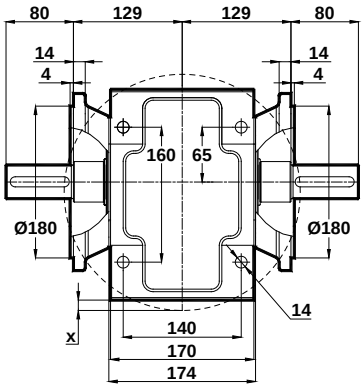
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
71/B5	4	9	11	130	160	110	261	12	351	14	5	16,3	-
80/B5	4	9	12	165	200	130	261	12	351	19	6	21,8	-
90/B5	4	9	12	165	200	130	261	12	351	24	8	27,3	-
100/B5	4,5	9	15	215	250	180	278	15	368	28	8	31,3	-
112/B5	4,5	9	15	215	250	180	278	15	368	28	8	31,3	-
132/B5	4,5	7	15	265	300	230	298	15	388	38	10	41,3	22,3

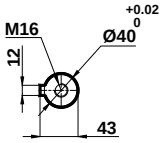
KN373.05









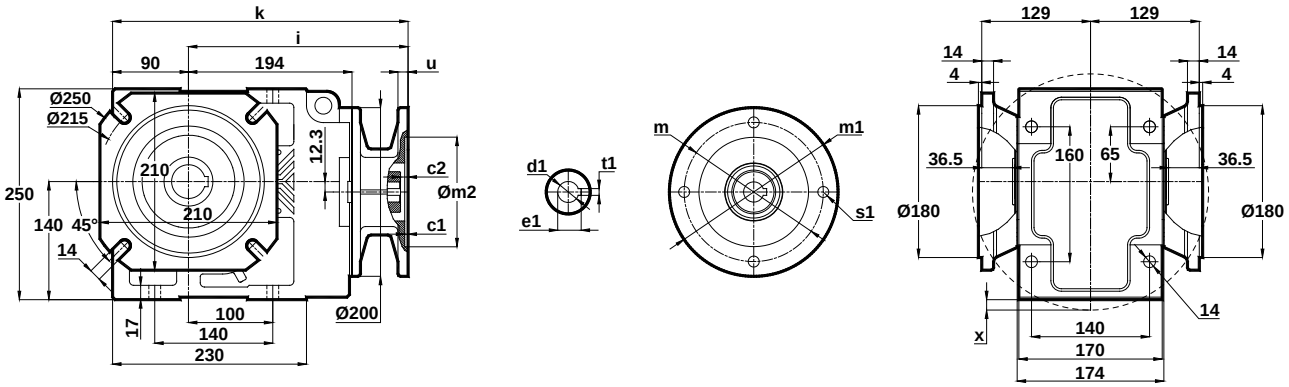


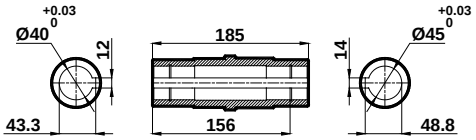
x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	12	165	200	130	261	12	351	19	6	21,8	-
90/B5	4	9	12	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN373.08



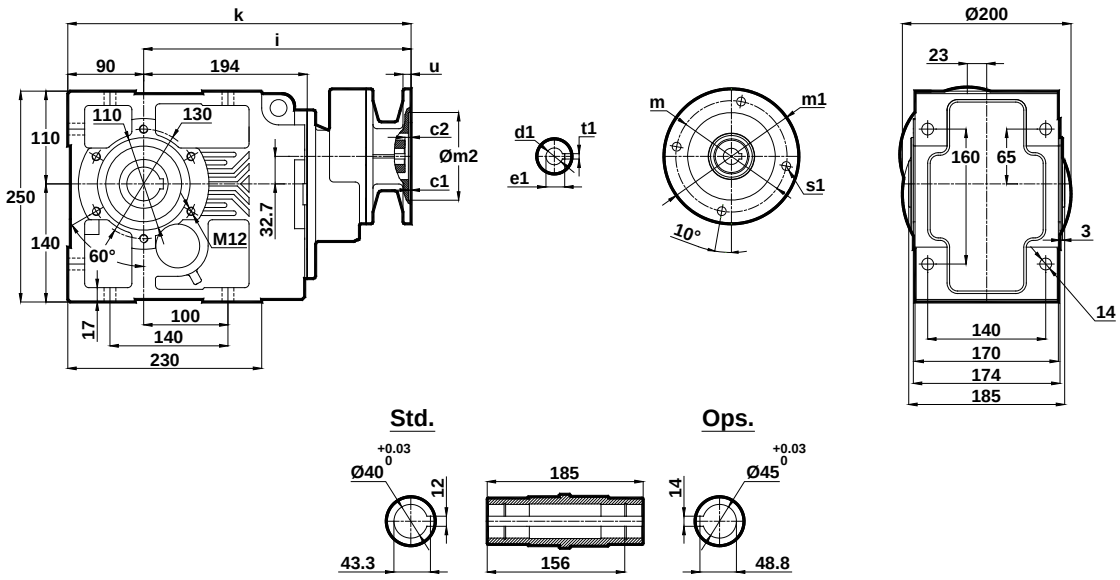


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	12	165	200	130	261	12	351	19	6	21.8	-
90/B5	4	9	12	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

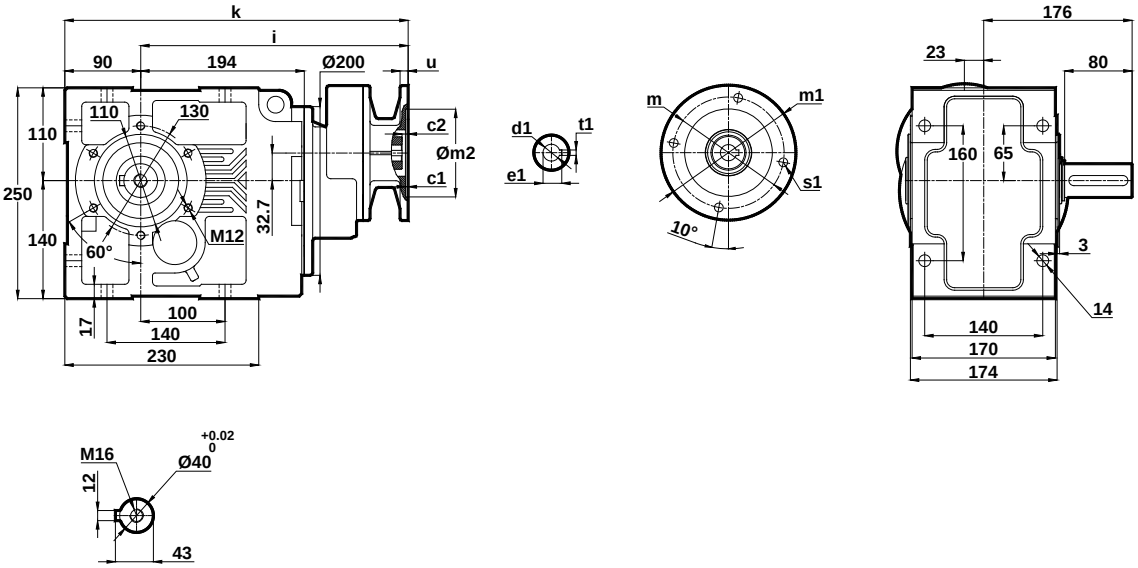
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	338	12	428	19	6	21,8

KN374.01



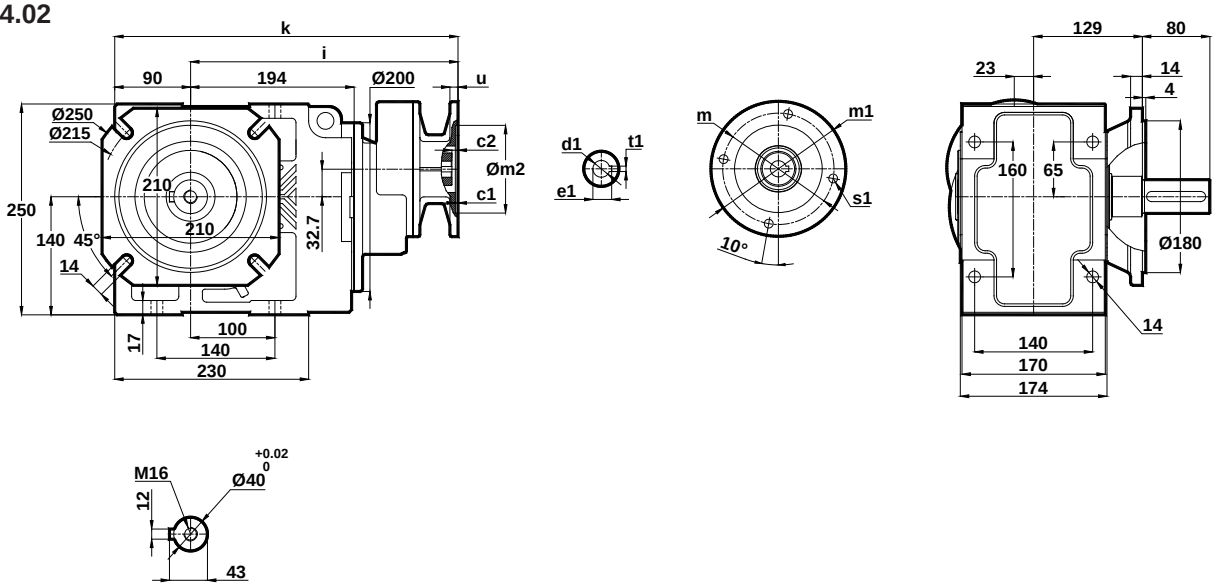
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	338	12	428	11	4	12,8
71/B5	4	8,5	11	130	160	110	309	12	399	14	5	16,3
80/B5	4	5	12	165	200	130	338	12	428	19	6	21,8



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

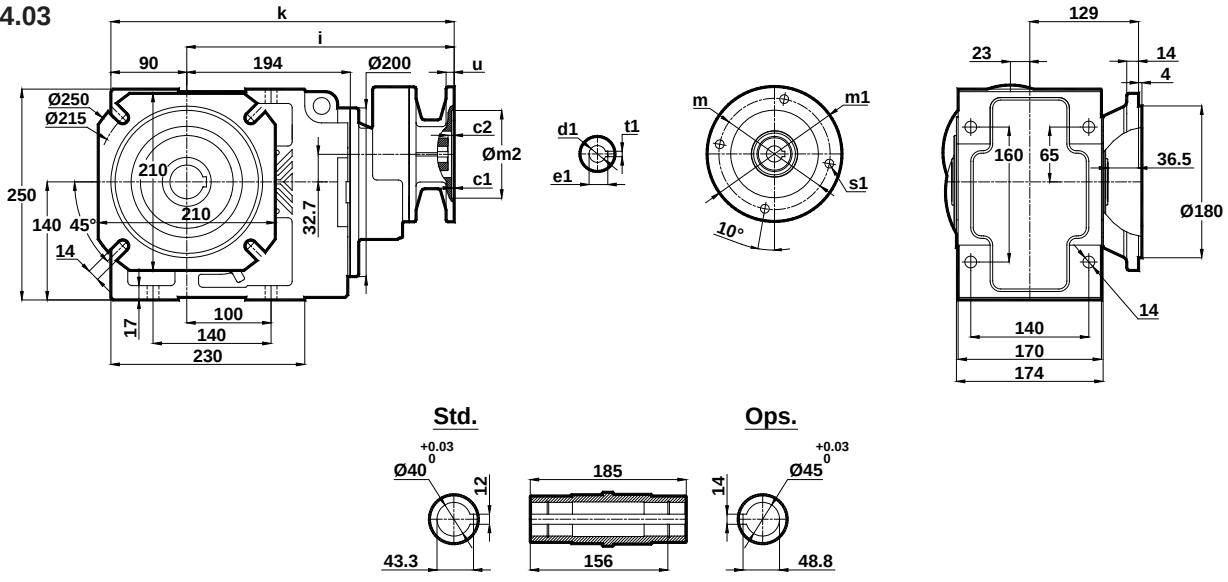
Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	338	12	428	19	6	21,8

KN374.03



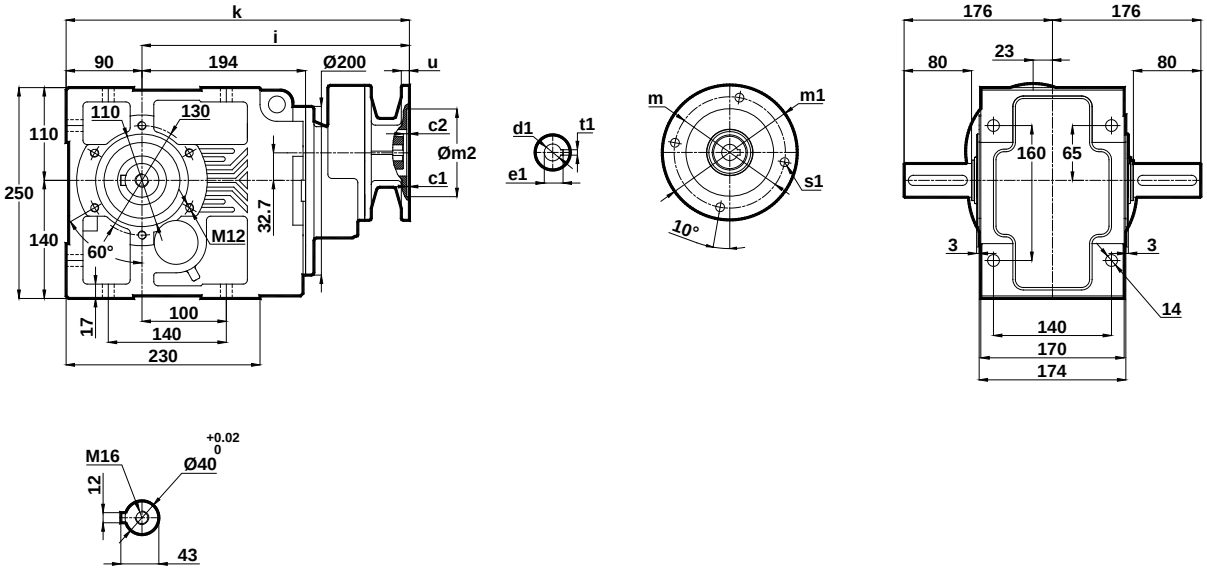
Std.

Ops.

	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	12	165	200	130	338	12	428	19	6	21,8

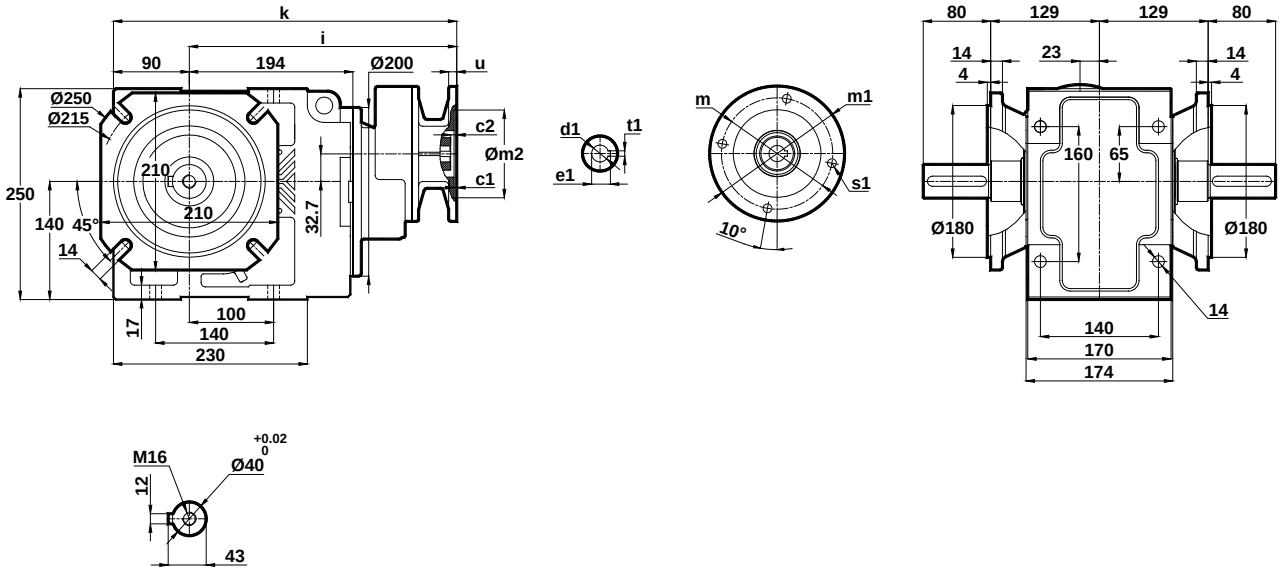
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	338	12	428	19	6	21,8

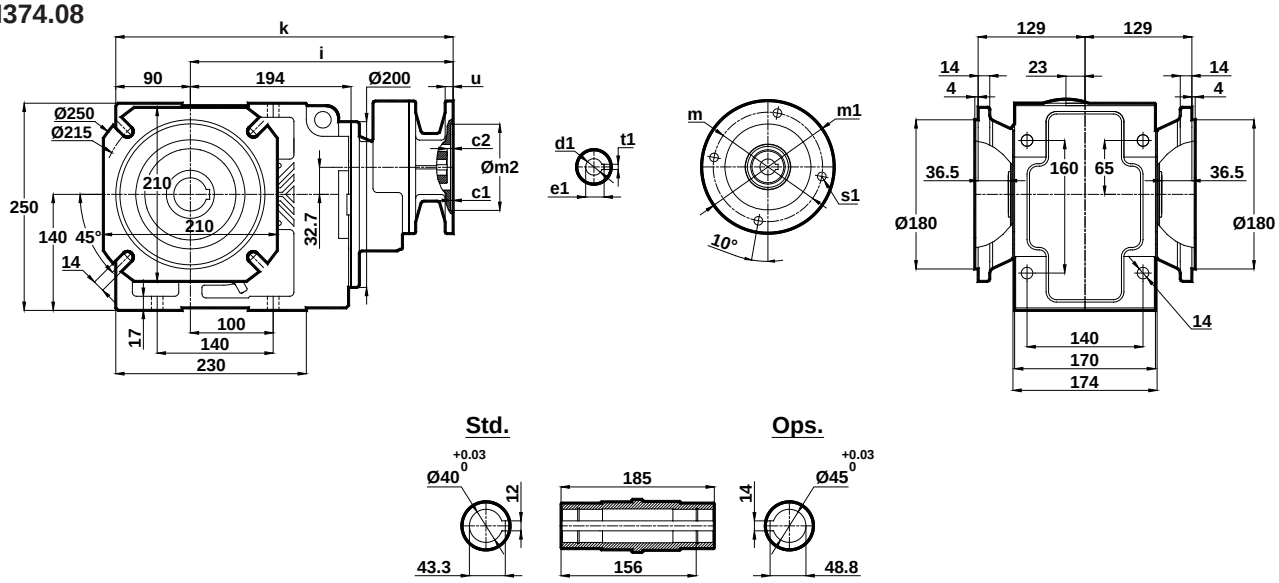
KN374.05



	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	12	165	200	130	338	12	428	19	6	21,8

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN374.08



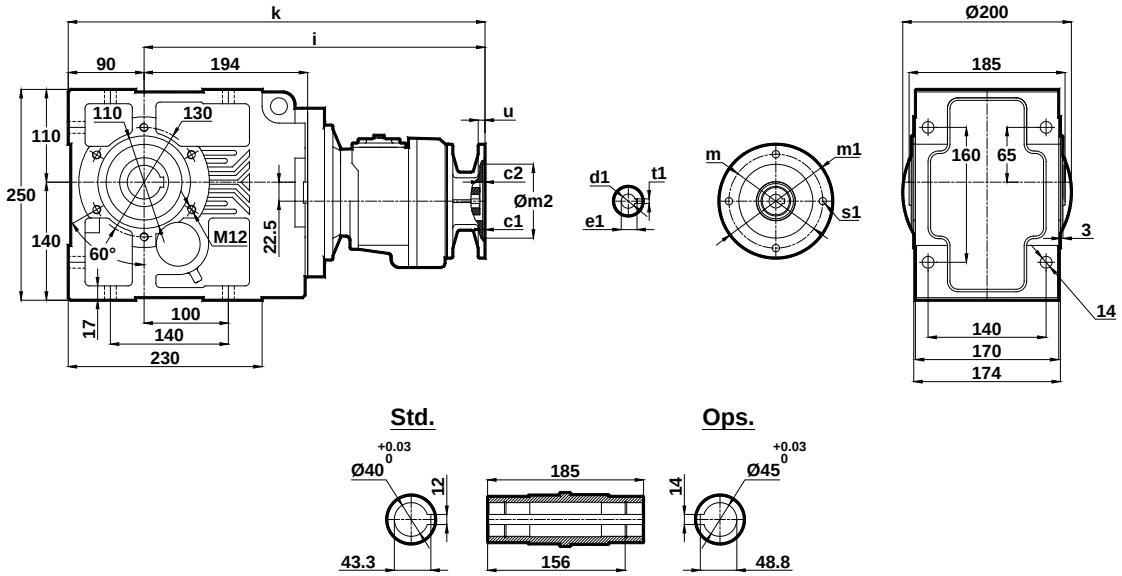
Std.

Ops.

	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	12	165	200	130	338	12	428	19	6	21,8

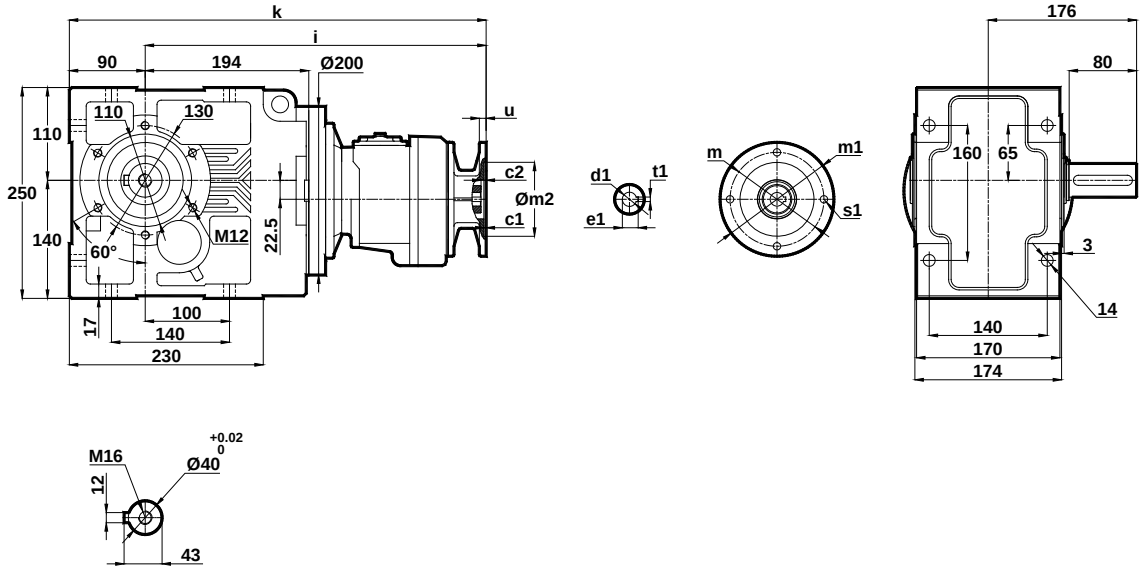
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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



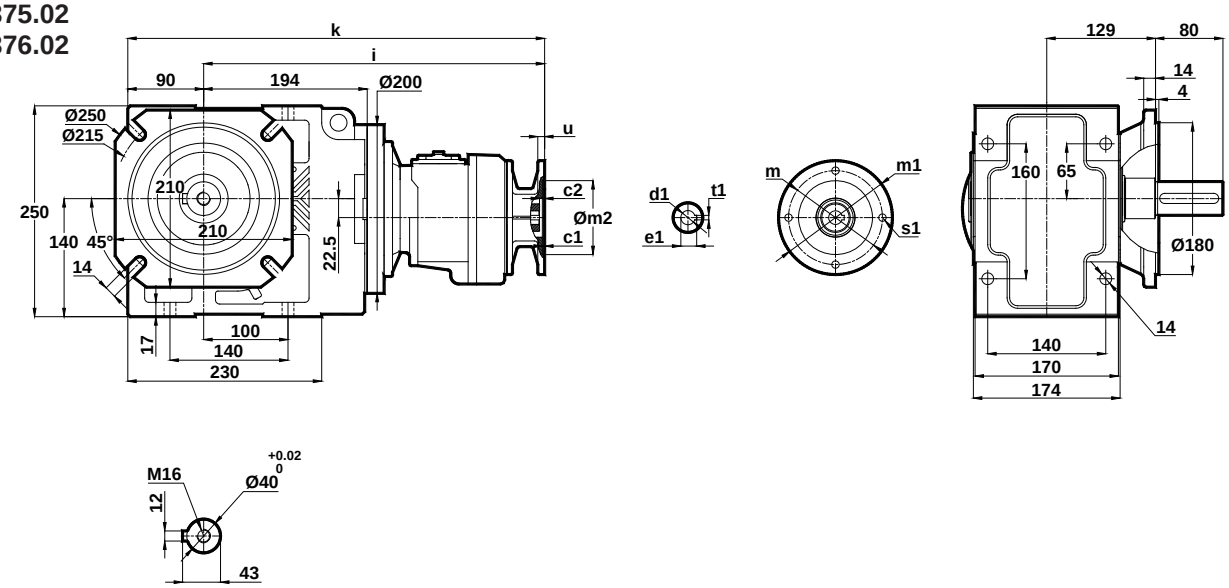
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
63/B5	3,5	5	10	115	140	95	405	10	495	11	4	12,8
71/B5	4	4,5	11	130	160	110	405	12	495	14	5	16,3



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

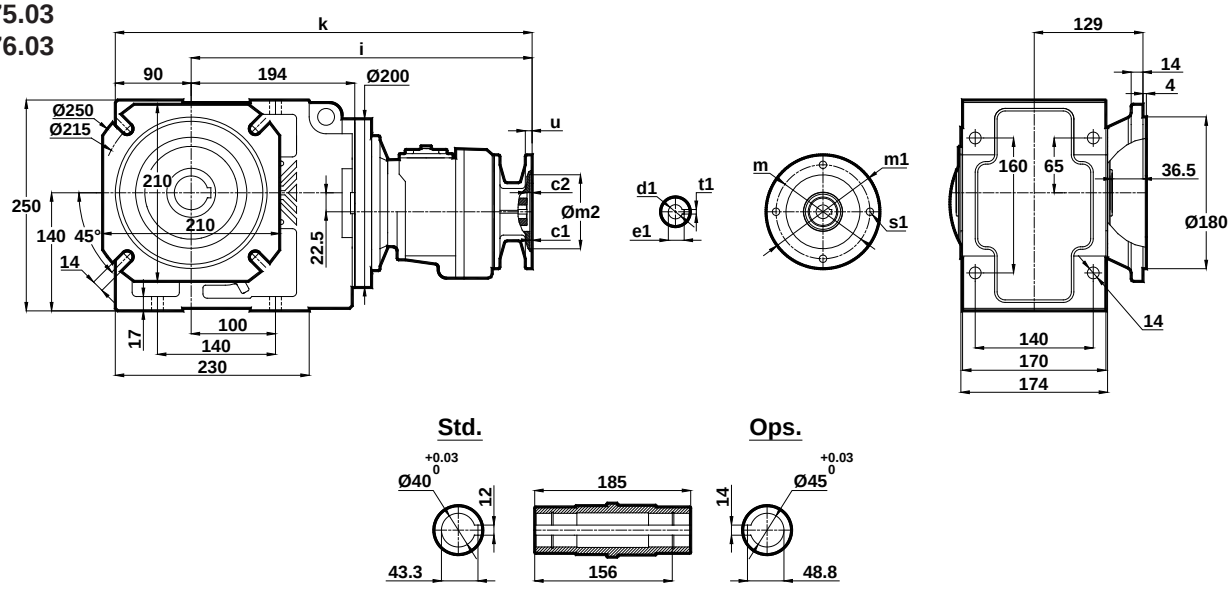
Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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



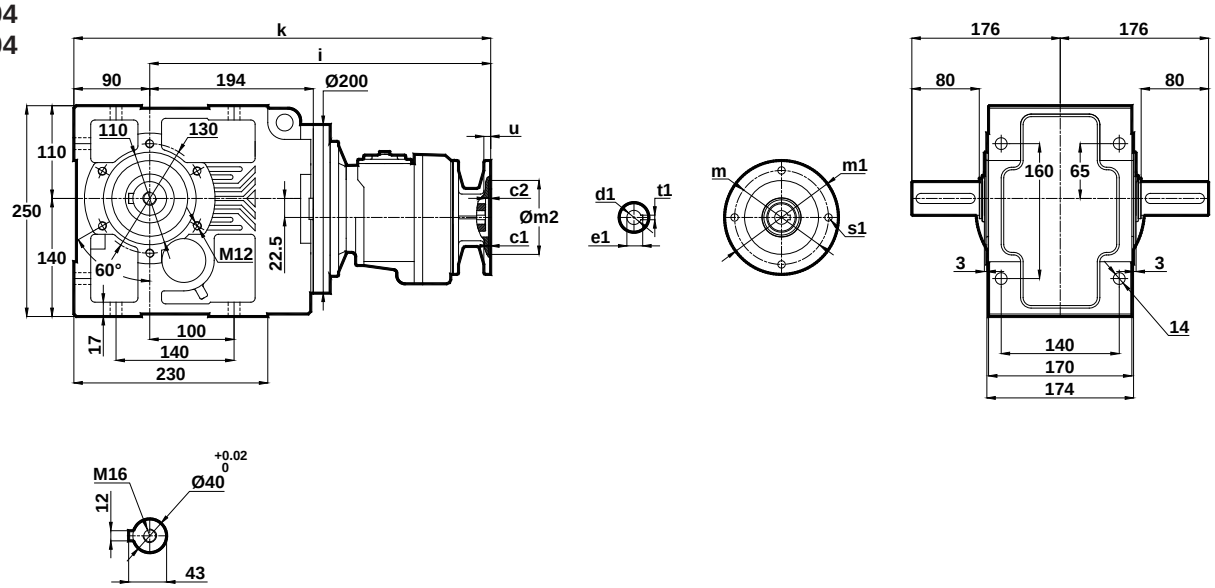
Std.

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

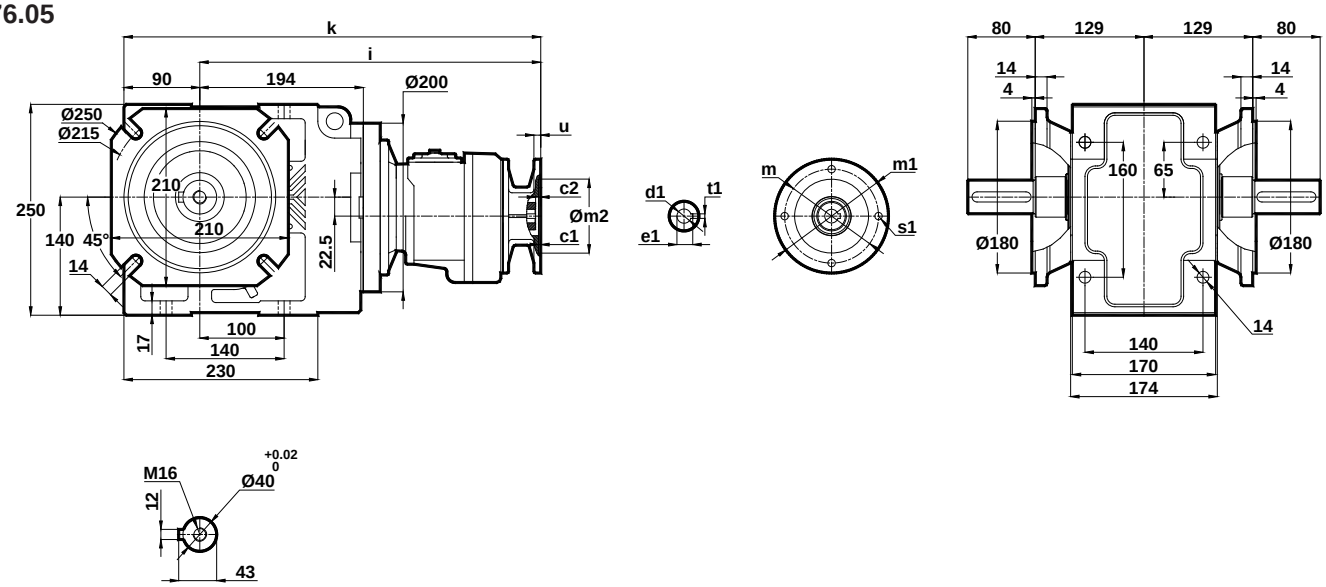
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN375.04
KN376.04



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
63/B5	3,5	5	10	115	140	95	405	10	495	11	4	12,8
71/B5	4	4,5	11	130	160	110	405	12	495	14	5	16,3

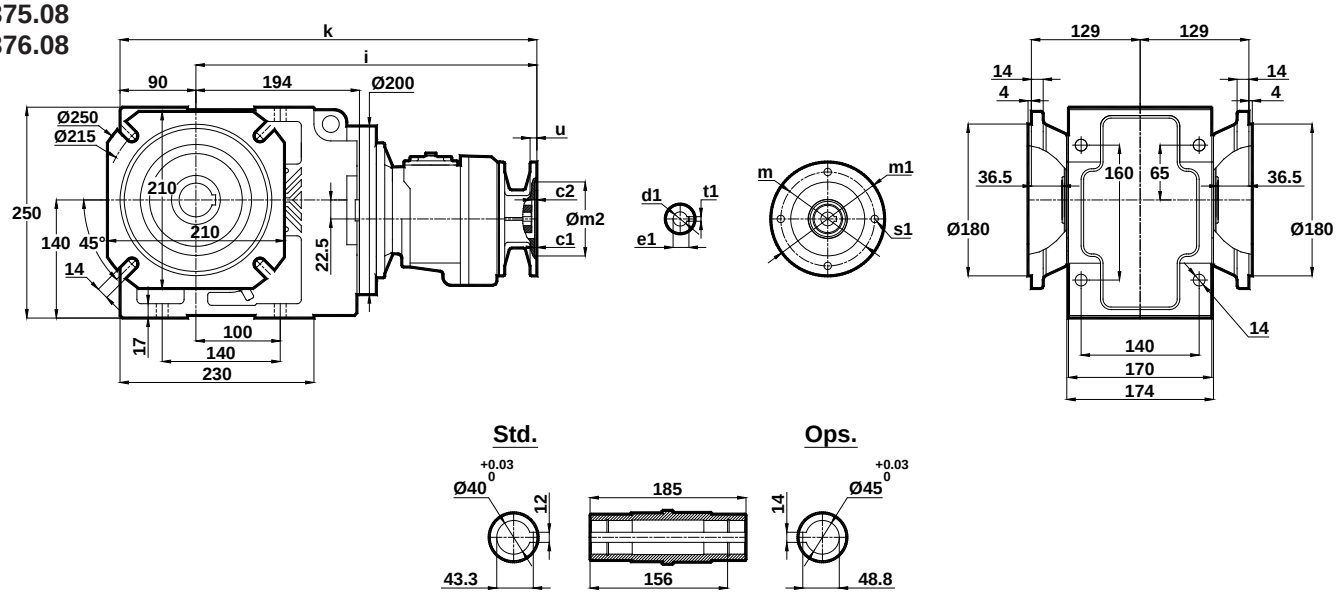
KN375.05
KN376.05



	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN375.08
KN376.08



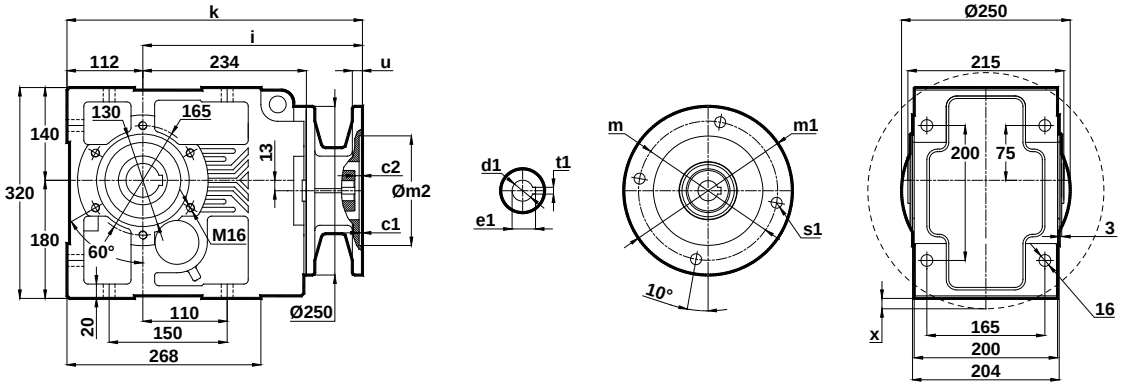
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
63/B5	3,5	5	10	115	140	95	405	10	495	11	4	12,8
71/B5	4	4,5	11	130	160	110	405	12	495	14	5	16,3



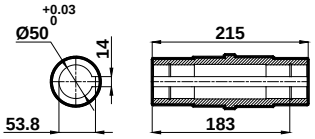
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

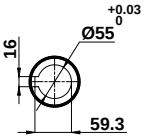
KN473.00



Std.



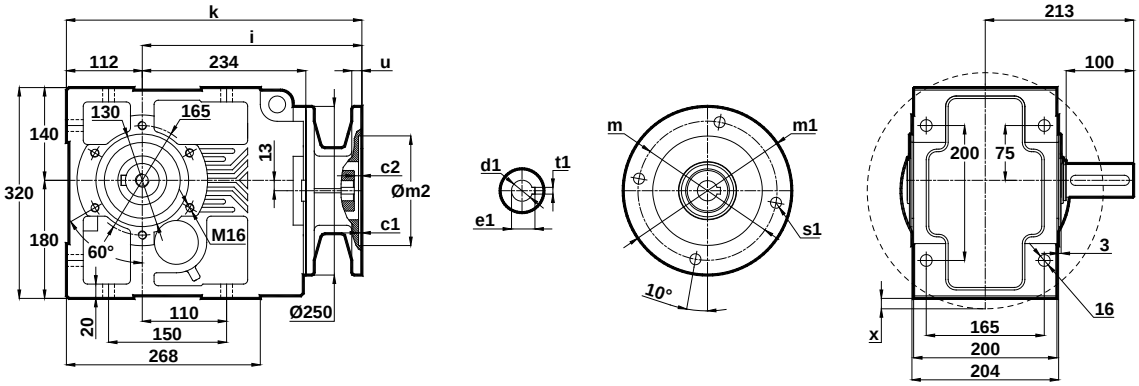
Ops.

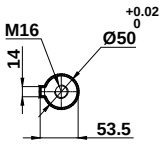


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	12	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: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

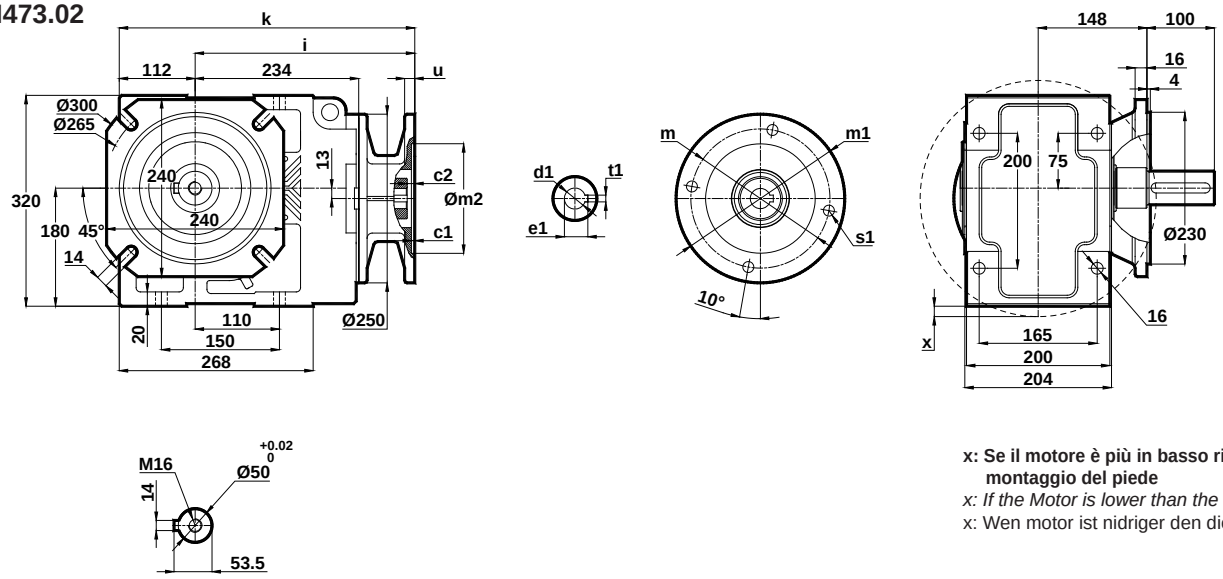
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	165	200	130	291	12	403	19	6	21,8	-
90/B5	4	5	12	165	200	130	291	12	403	24	8	27,3	-
100/B5	4,5	9	15	215	250	180	309	15	421	28	8	31,3	-
112/B5	4,5	9	15	215	250	180	309	15	421	28	8	31,3	-
132/B5	4,5	6	15	265	300	230	328	15	440	38	10	41,3	-
160/B5	5,5	10	19	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



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

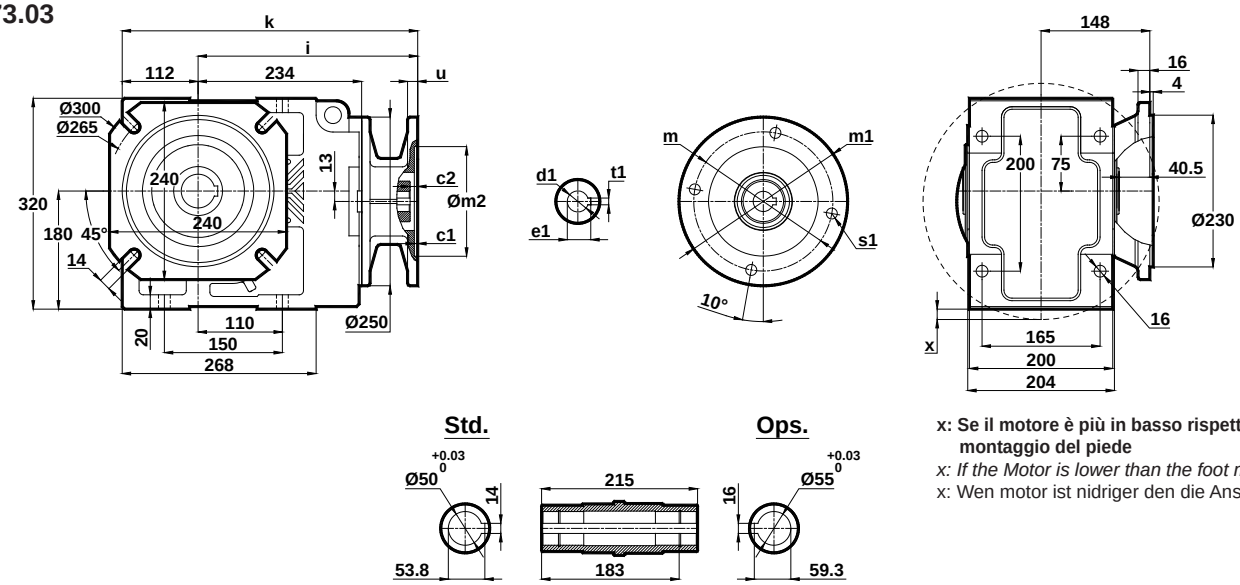
KN473.02



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	12	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: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

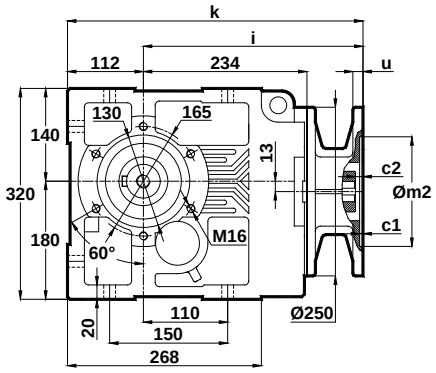
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	165	200	130	291	12	403	19	6	21,8	-
90/B5	4	5	12	165	200	130	291	12	403	24	8	27,3	-
100/B5	4,5	9	15	215	250	180	309	15	421	28	8	31,3	-
112/B5	4,5	9	15	215	250	180	309	15	421	28	8	31,3	-
132/B5	4,5	6	15	265	300	230	328	15	440	38	10	41,3	-
160/B5	5,5	10	19	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

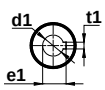


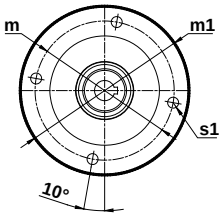
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

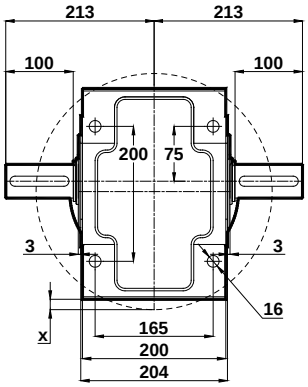
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

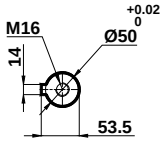
KN473.04







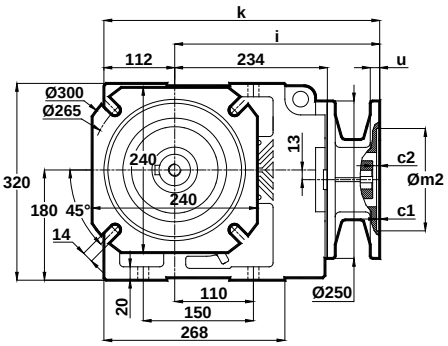


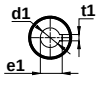


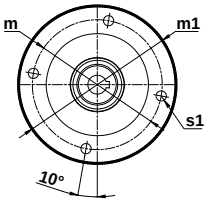
x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

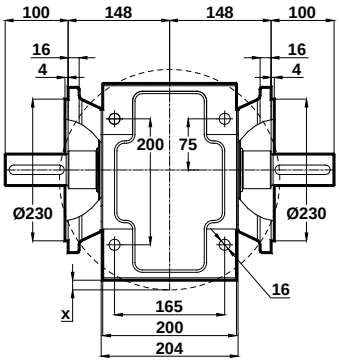
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
80/B5	4	5	12	162	200	130	291	12	403	19	6	21,8	-
90/B5	4	5	12	165	200	130	291	12	403	24	8	27,3	-
100/B5	4,5	9	15	215	250	180	309	15	421	28	8	31,3	-
112/B5	4,5	9	15	215	250	180	309	15	421	28	8	31,3	-
132/B5	4,5	6	15	265	300	230	328	15	440	38	10	41,3	-
160/B5	5,5	10	19	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

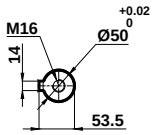
KN473.05









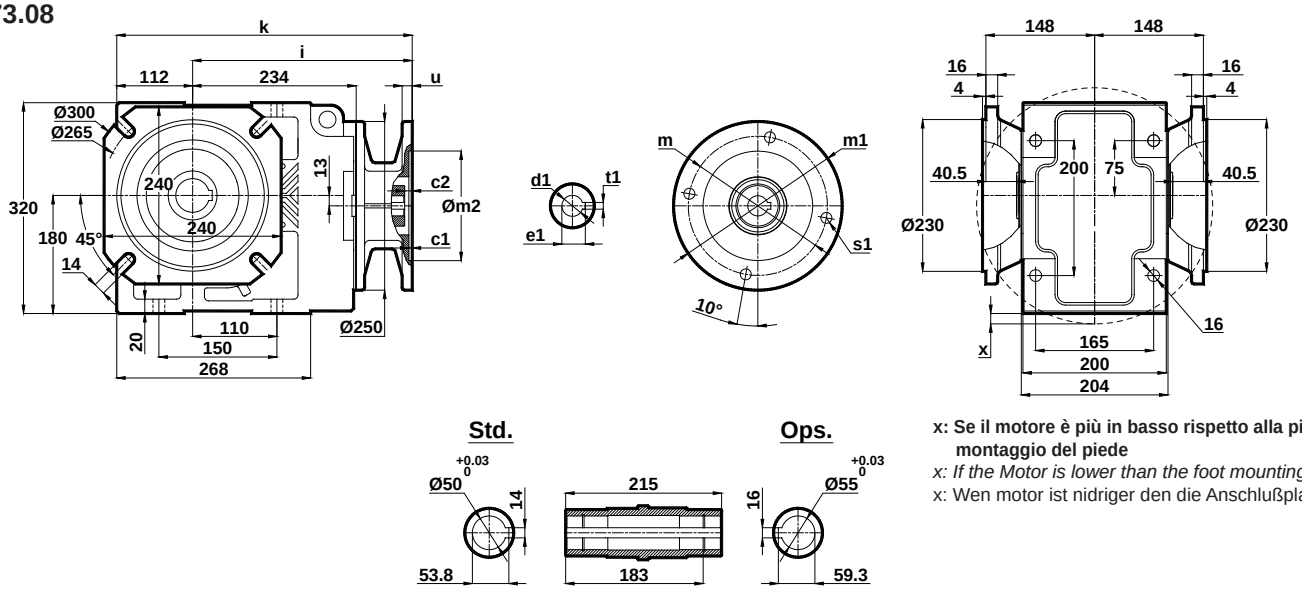


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	12	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN473.08

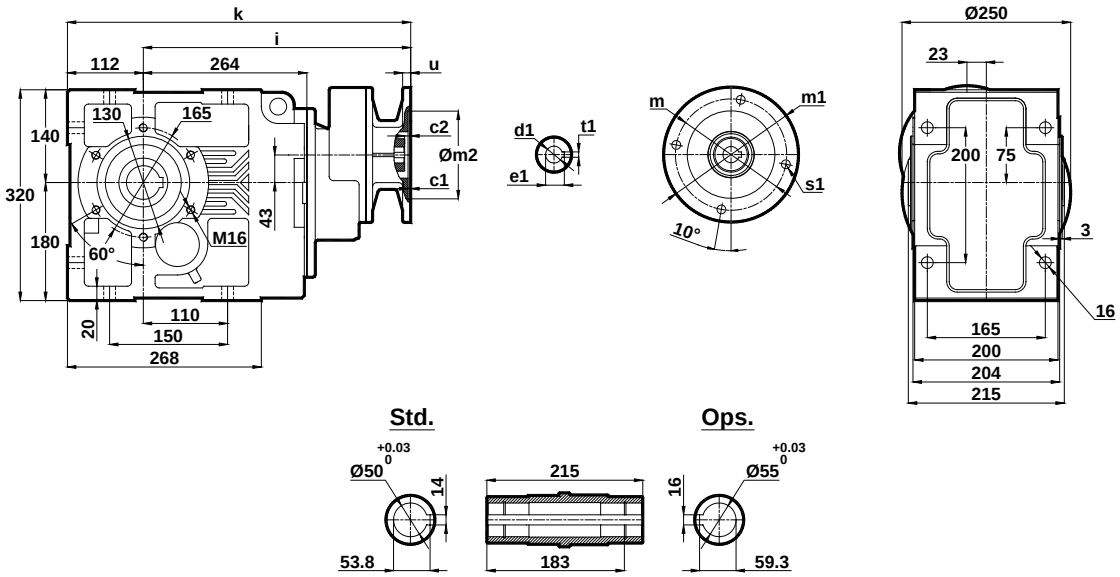


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	12	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

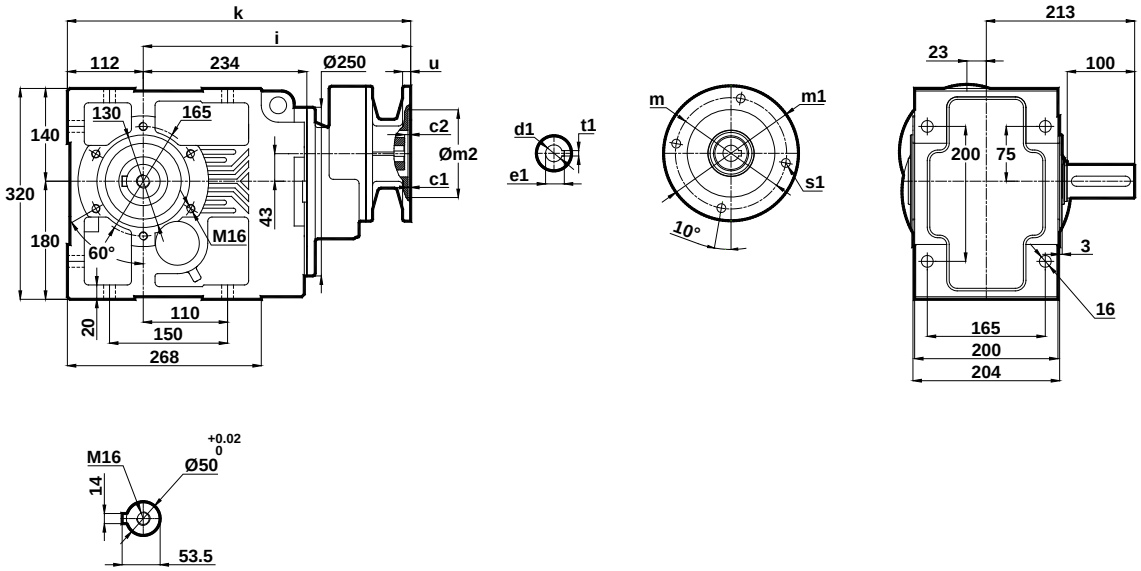
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	389	12	501	19	6	21,8

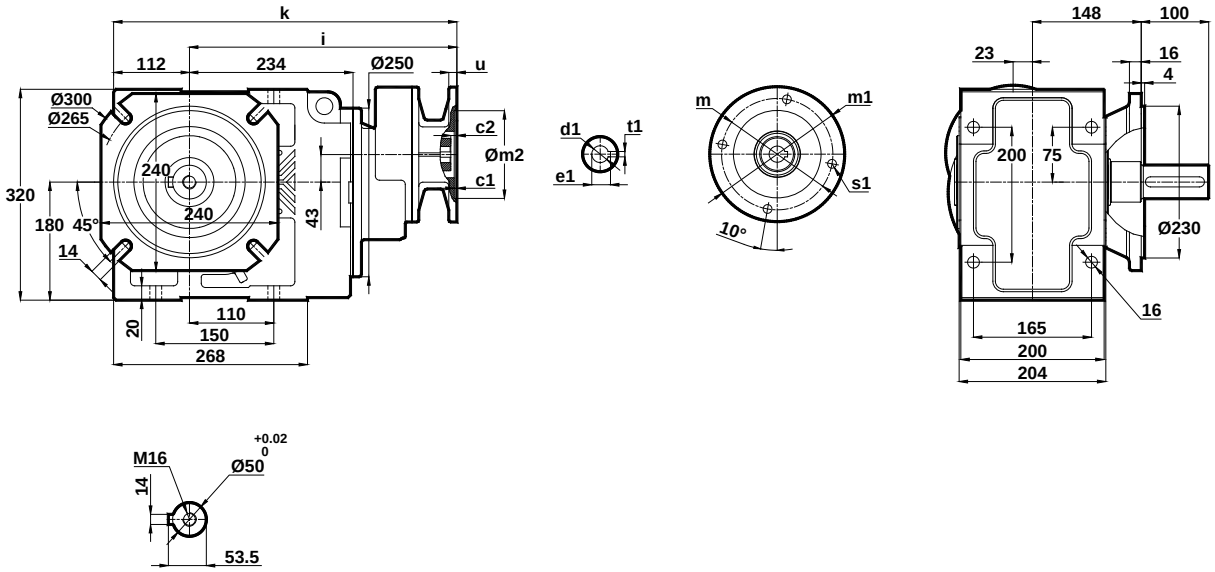
KN474.01



	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	12	165	200	130	389	12	501	19	6	21,8

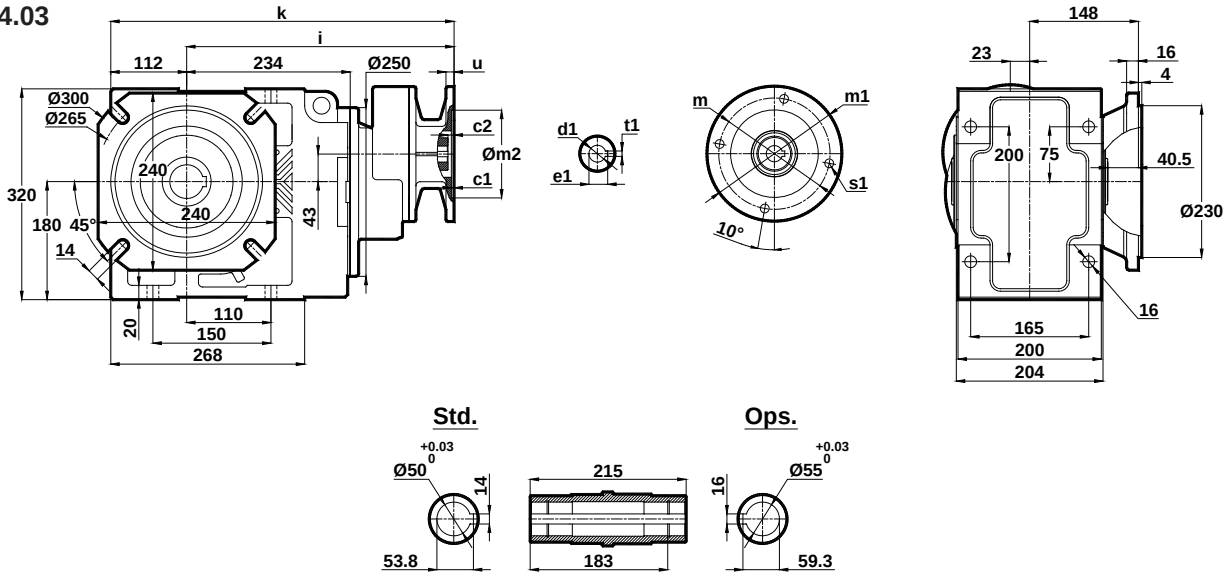
Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	389	12	501	19	6	21,8

KN474.03



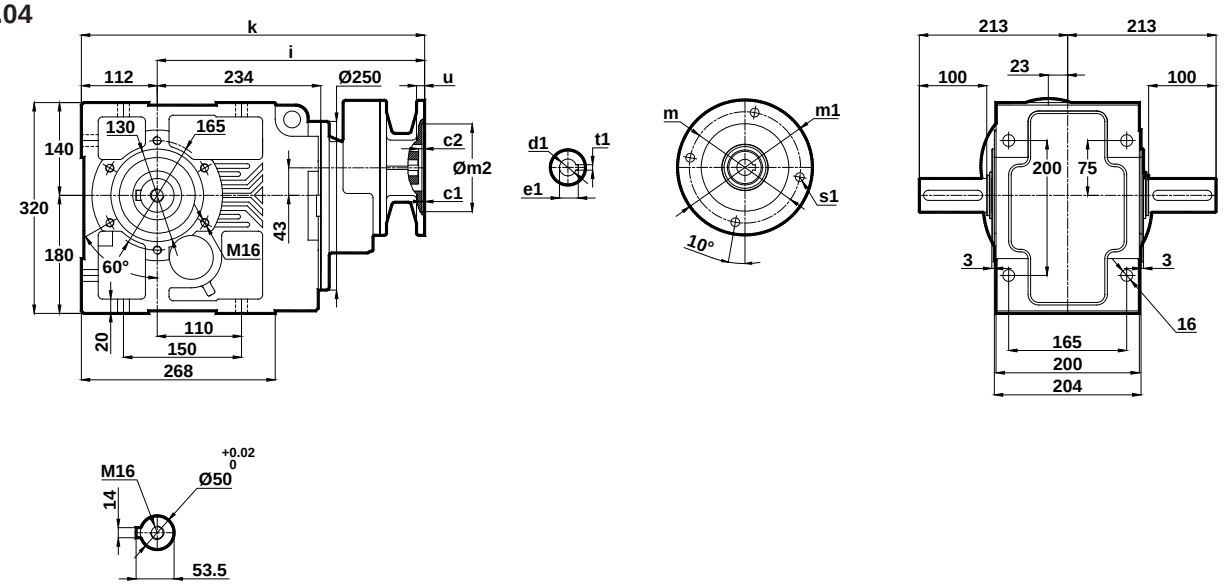
Std.

Ops.

	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	12	165	200	130	389	12	501	19	6	21,8

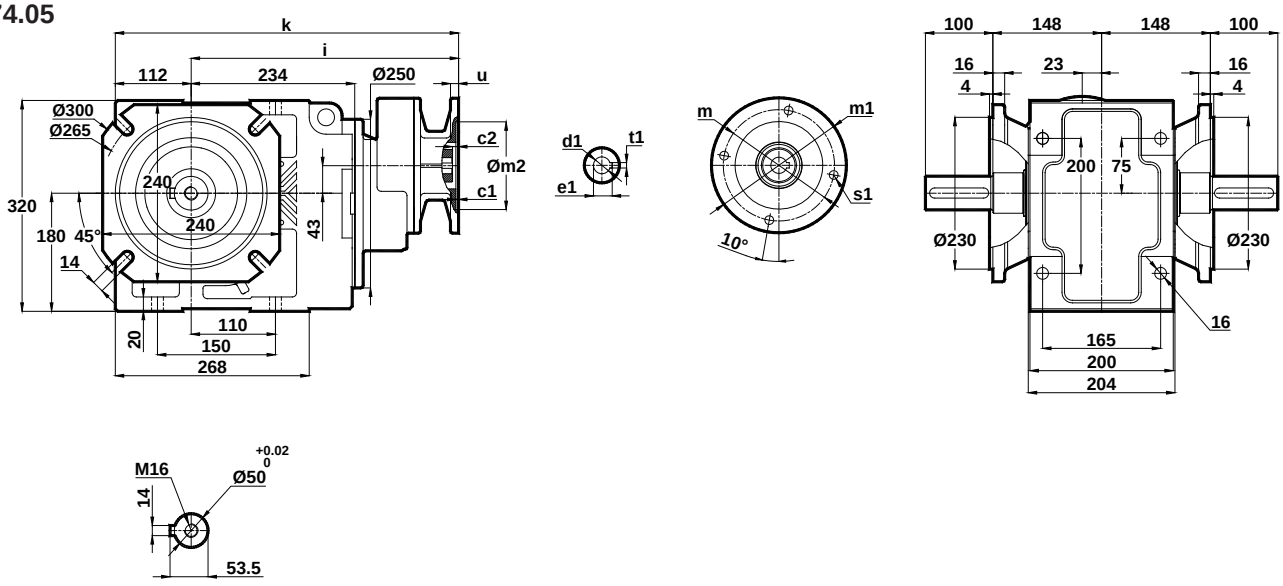
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	389	12	501	19	6	21,8

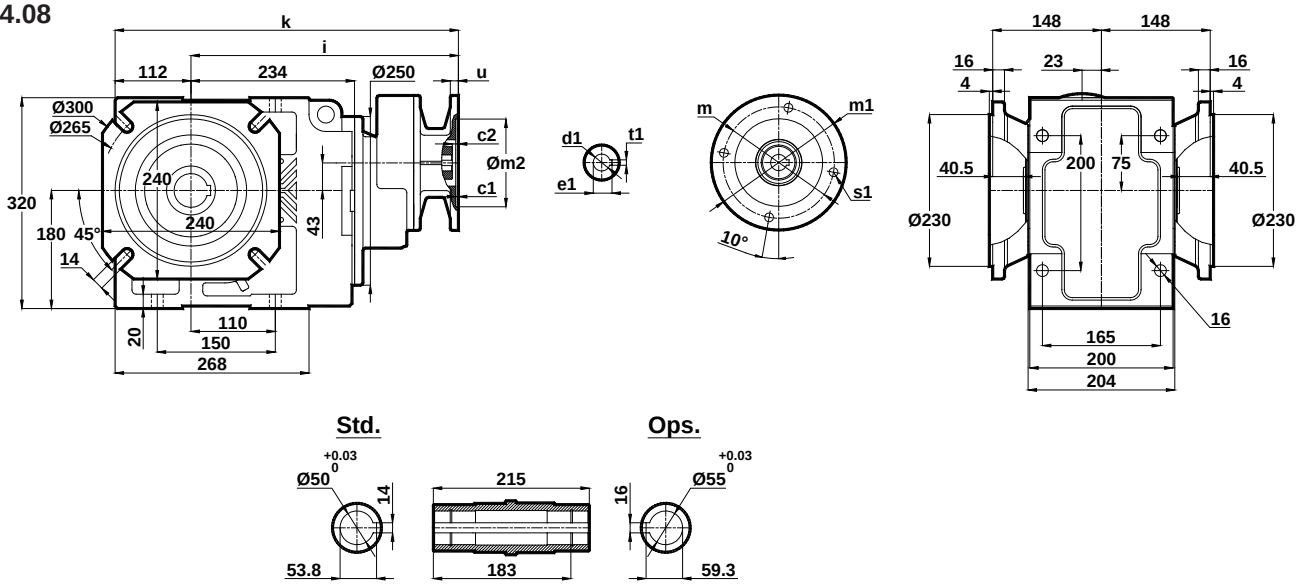
KN474.05



	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	12	165	200	130	389	12	501	19	6	21,8

Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

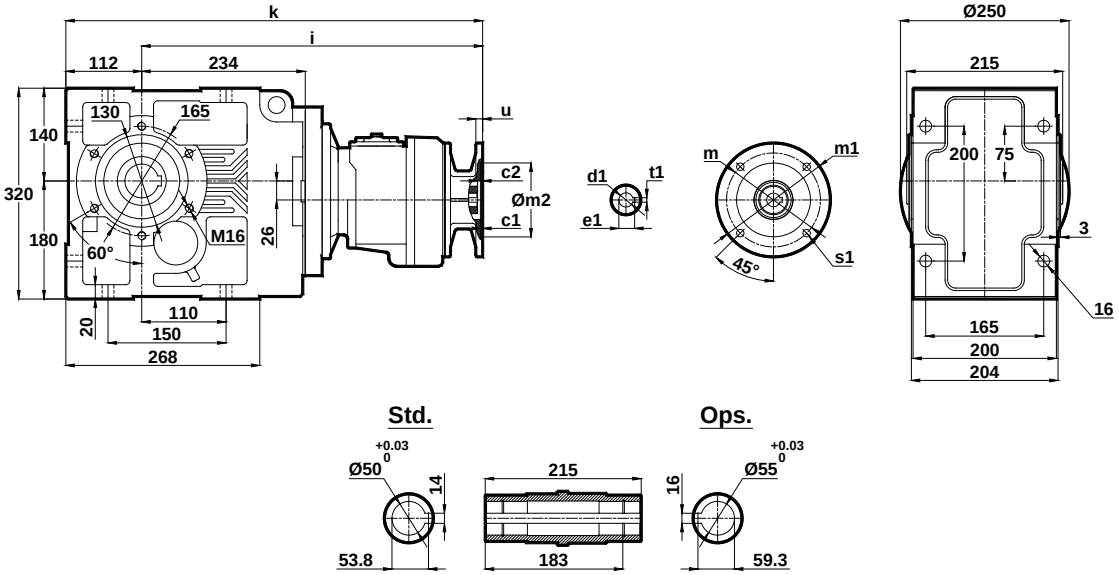
KN474.08



	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	12	165	200	130	389	12	501	19	6	21,8

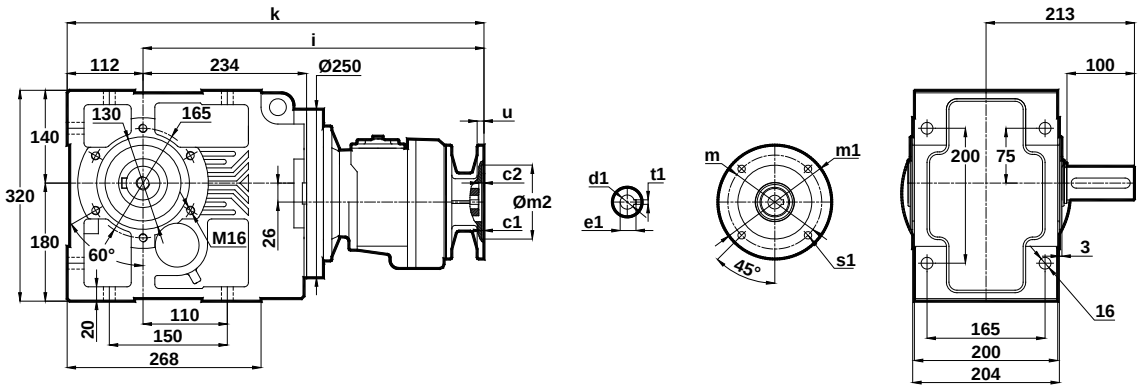
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

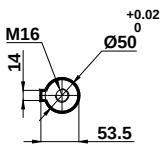
KN475.00
KN476.00



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
63/B5	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





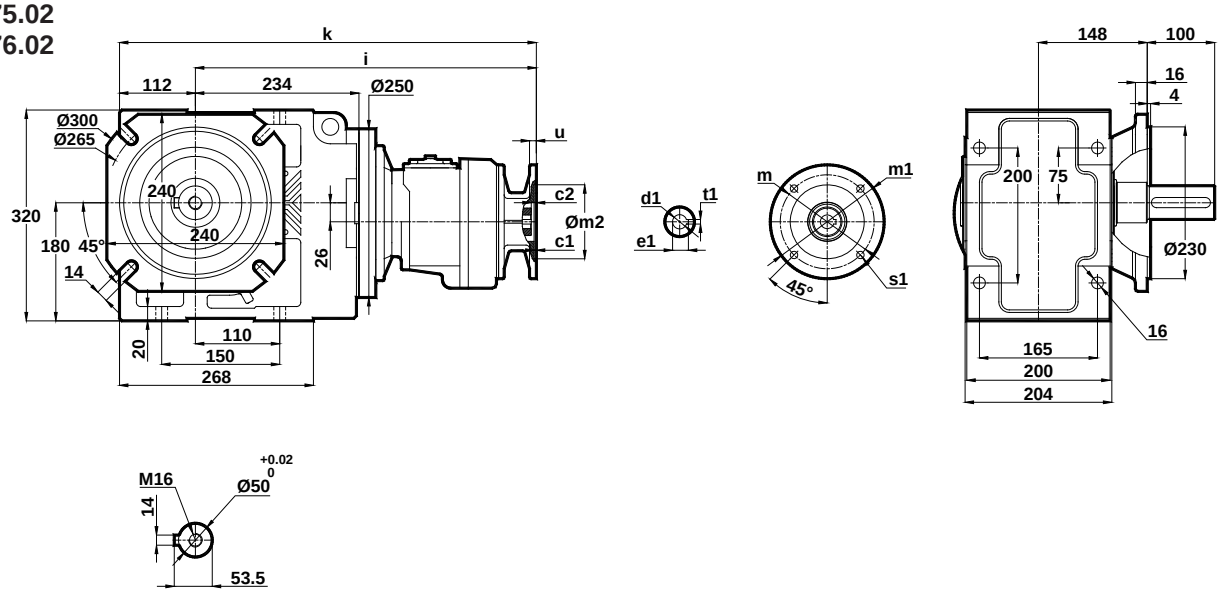
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	517	12	629	11	4	12,8
71/B5	4	8,5	11	130	160	110	488	12	600	14	5	16,3



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

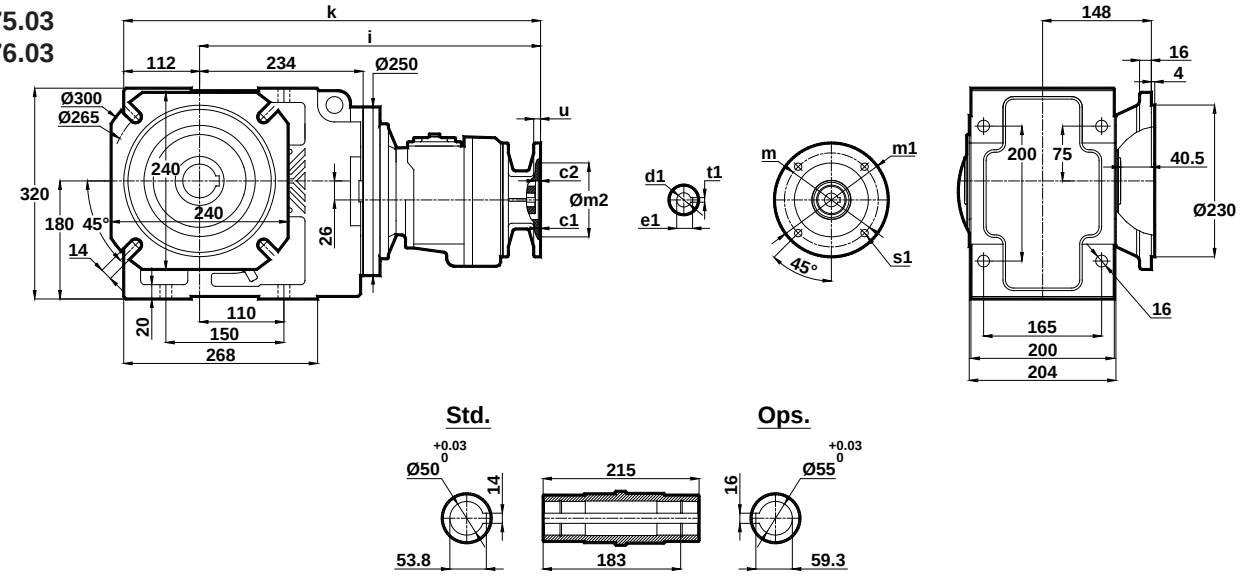
Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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



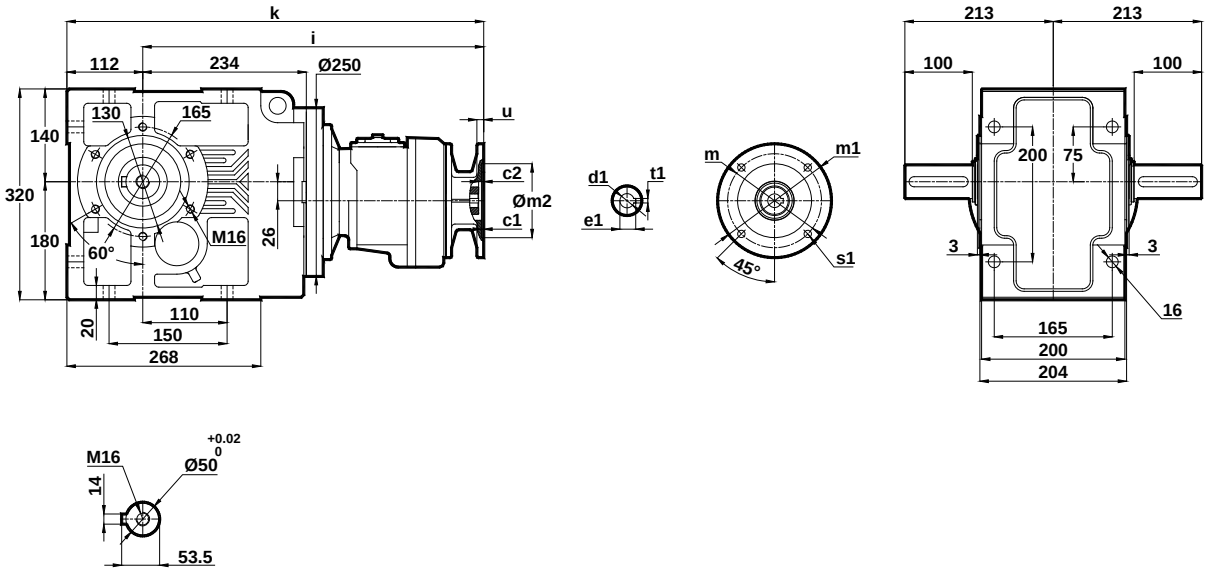
Std.

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

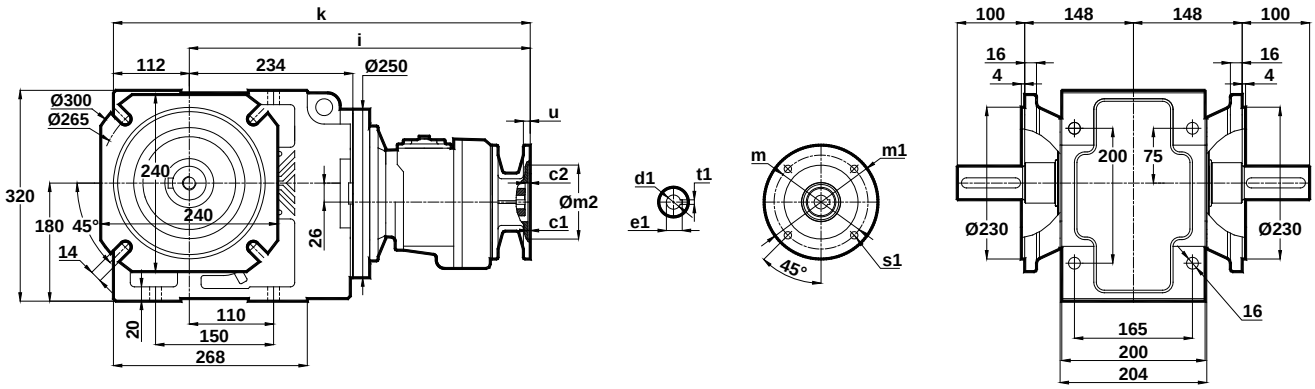
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

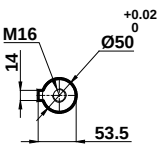
KN475.04
KN476.04



	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

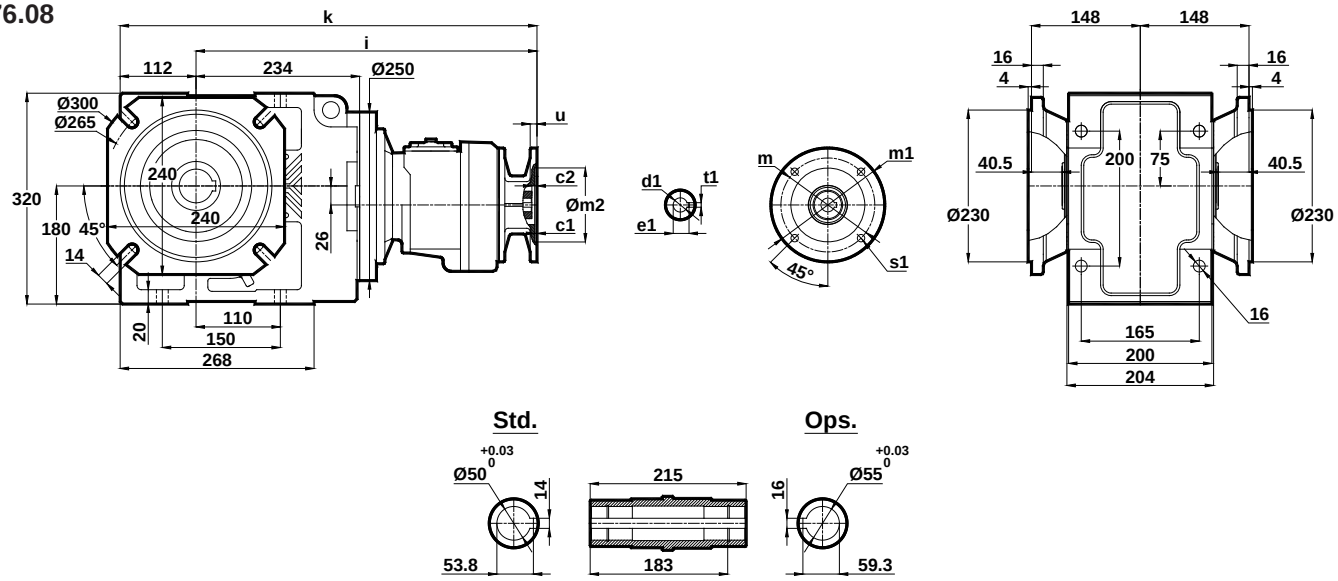




	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	517	12	629	11	4	12,8
71/B5	4	8,5	11	130	160	110	488	12	600	14	5	16,3

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN475.08
KN476.08



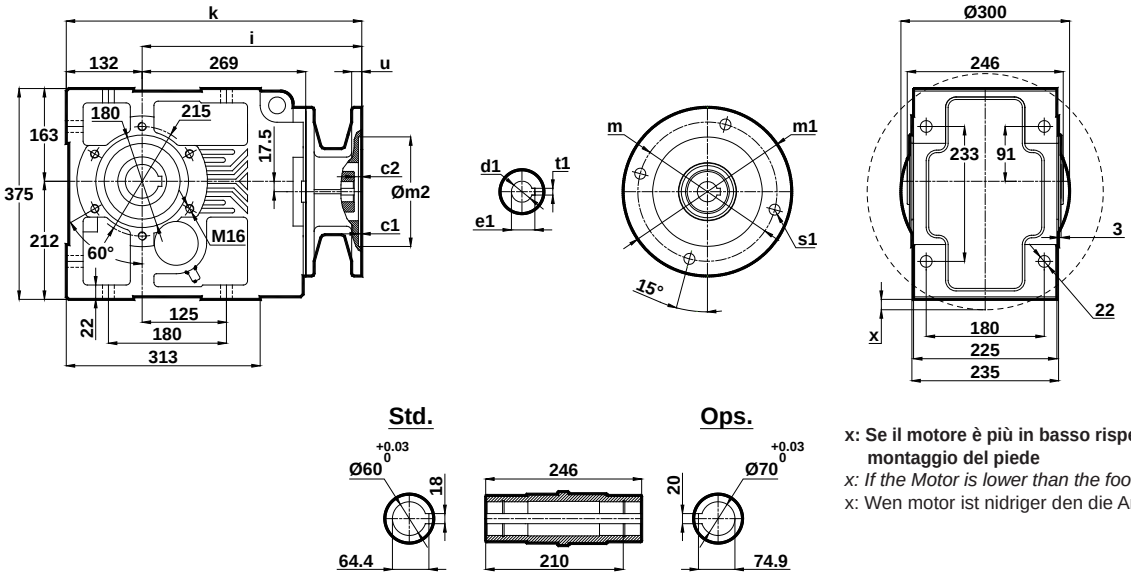
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	517	12	629	11	4	12,8
71/B5	4	8,5	11	130	160	110	488	12	600	14	5	16,3



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

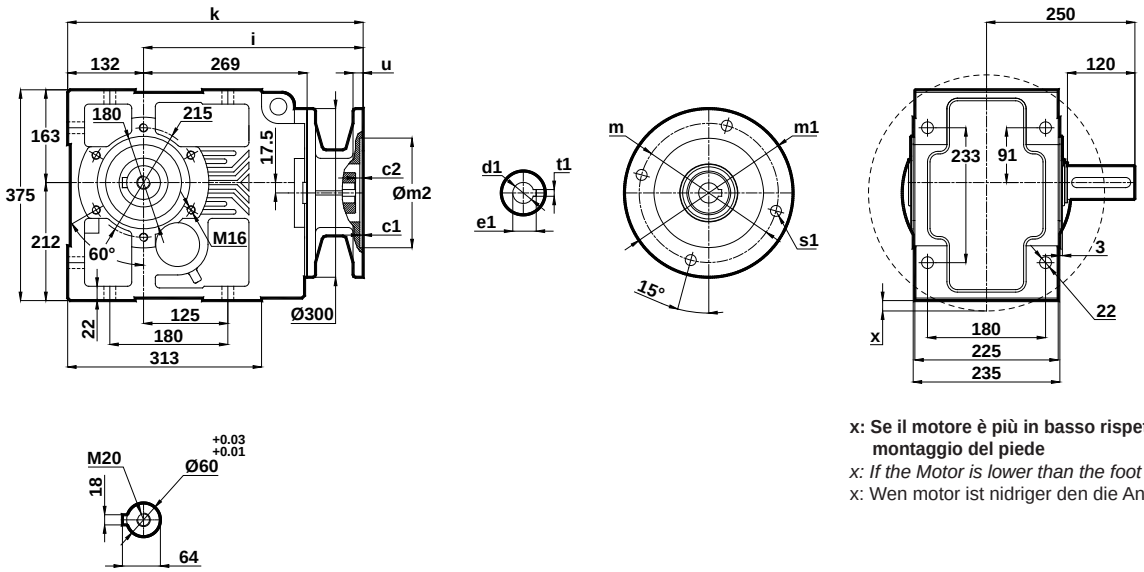
KN573.00



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

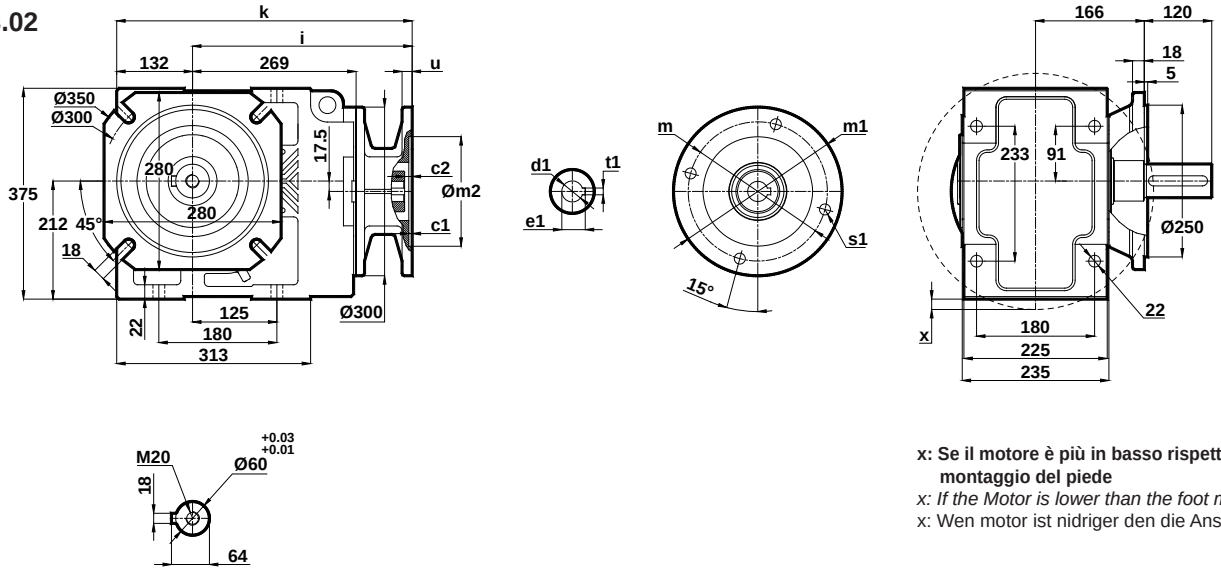
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
100/B5	4,5	20	15	215	250	180	342	15	474	28	8	31,3	-
112/B5	4,5	20	15	215	250	180	342	15	474	28	8	31,3	-
132/B5	4,5	9	15	265	300	230	363	15	495	38	10	41,3	-
160/B5	5,5	10	19	300	350	250	438	18	570	42	12	45,3	-
180/B5	5,5	10	19	300	350	250	438	18	570	48	14	51,8	-



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

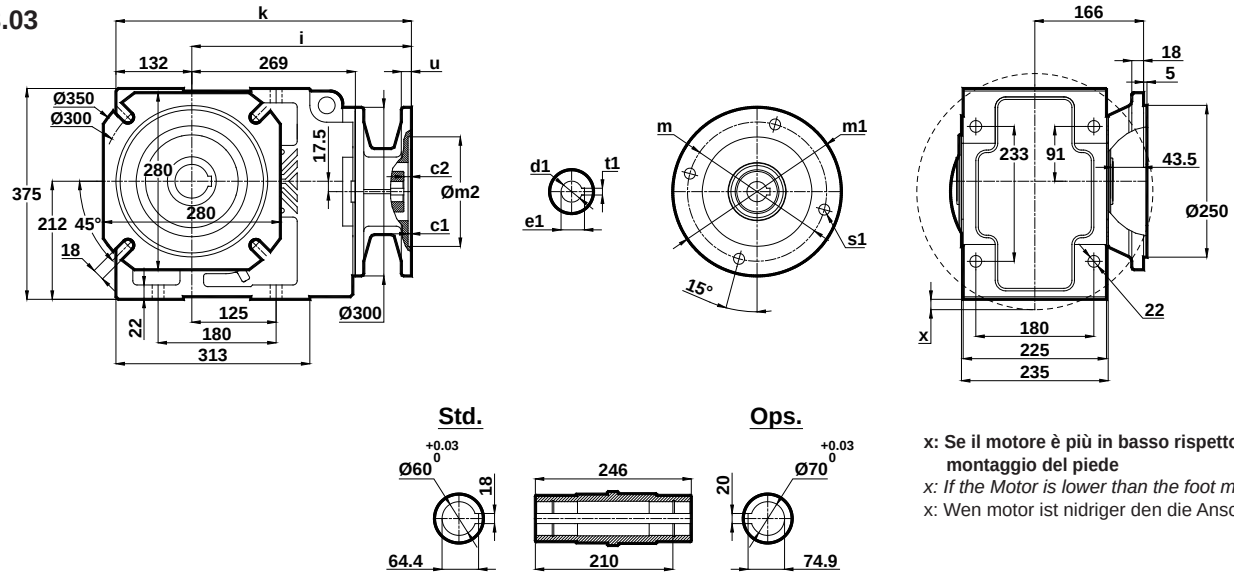
KN573.02



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

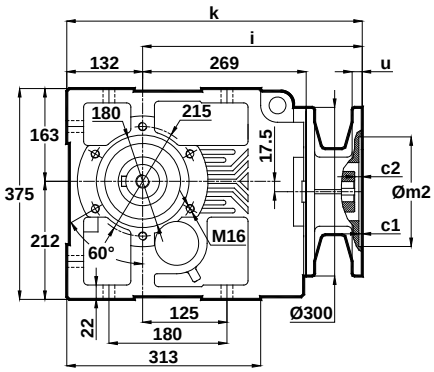


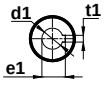
x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

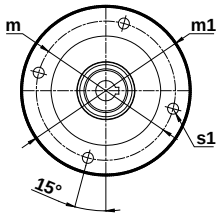
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
100/B5	4,5	20	15	215	250	180	342	15	474	28	8	31,3	-
112/B5	4,5	20	15	215	250	180	342	15	474	28	8	31,3	-
132/B5	4,5	9	15	265	300	230	363	15	495	38	10	41,3	-
160/B5	5,5	10	19	300	350	250	438	18	570	42	12	45,3	-
180/B5	5,5	10	19	300	350	250	438	18	570	48	14	51,8	-

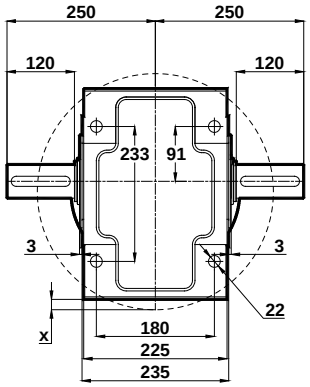
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

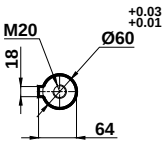
KN573.04







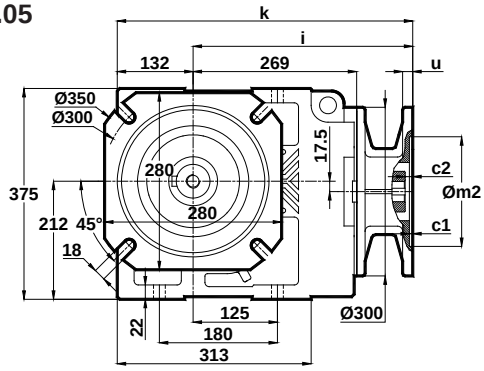


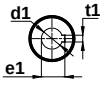


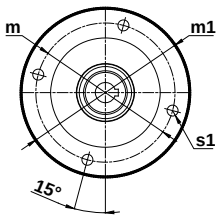
x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

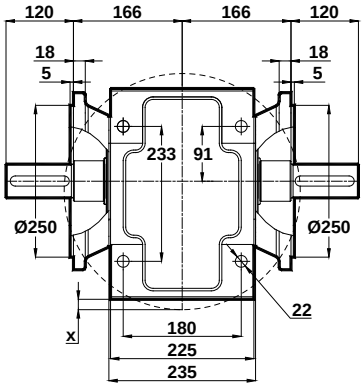
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
100/B5	4,5	20	15	215	250	180	342	15	474	28	8	31,3	-
112/B5	4,5	20	15	215	250	180	342	15	474	28	8	31,3	-
132/B5	4,5	9	15	265	300	230	363	15	495	38	10	41,3	-
160/B5	5,5	10	19	300	350	250	438	18	570	42	12	45,3	-
180/B5	5,5	10	19	300	350	250	438	18	570	48	14	51,8	-

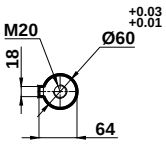
KN573.05











x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

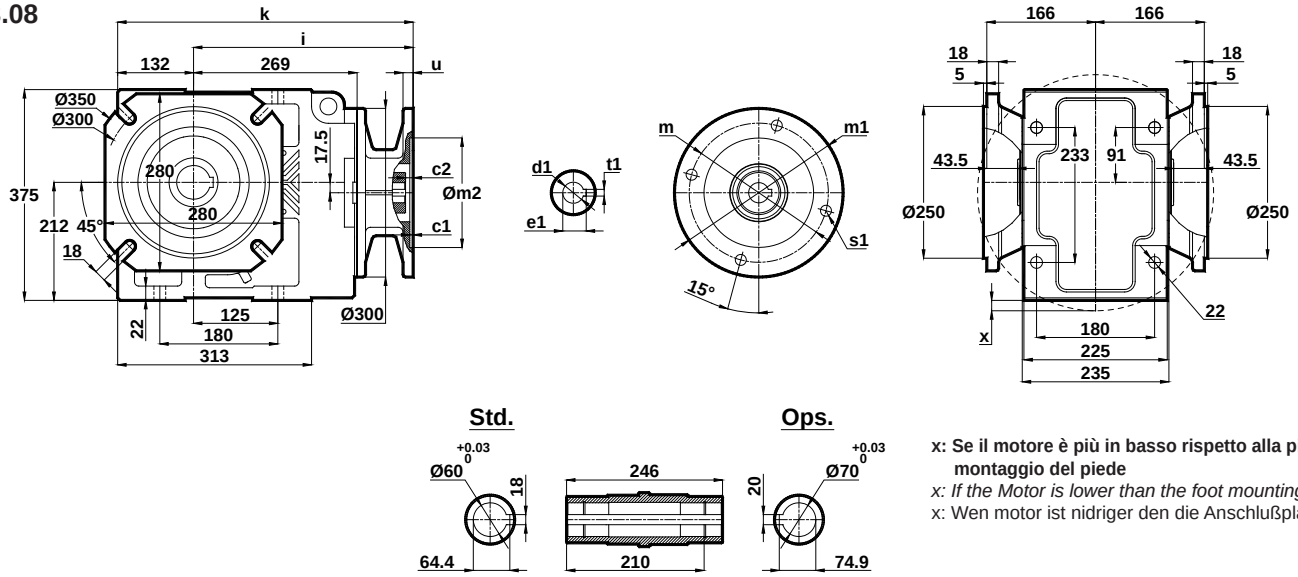
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1	x
100/B5	4,5	20	15	215	250	180	342	15	474	28	8	31,3	-
112/B5	4,5	20	15	215	250	180	342	15	474	28	8	31,3	-
132/B5	4,5	9	15	265	300	230	363	15	495	38	10	41,3	-
160/B5	5,5	10	19	300	350	250	438	18	570	42	12	45,3	-
180/B5	5,5	10	19	300	350	250	438	18	570	48	14	51,8	-



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN573.08

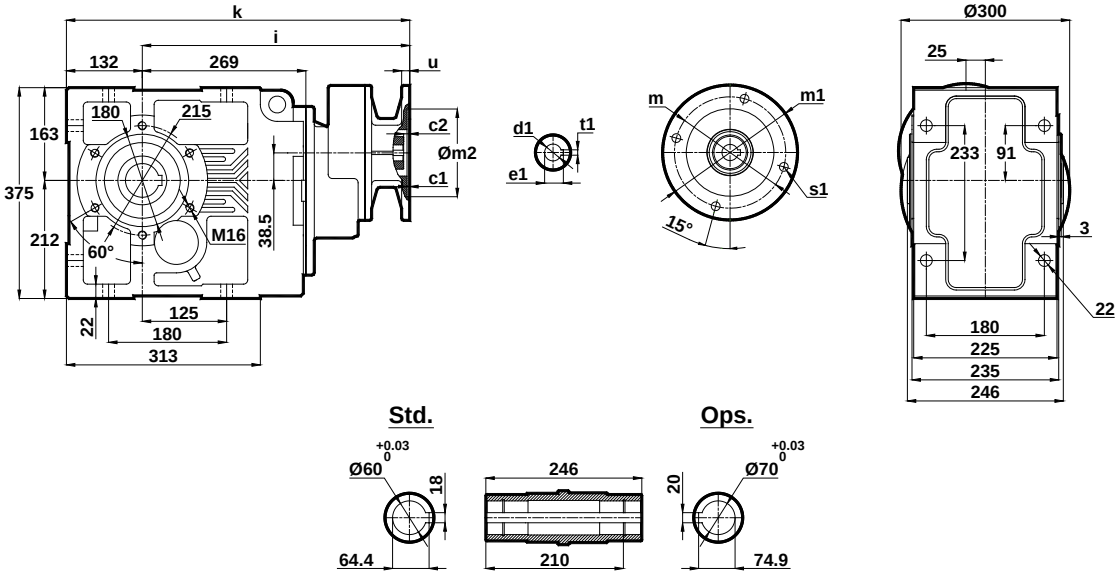


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	-

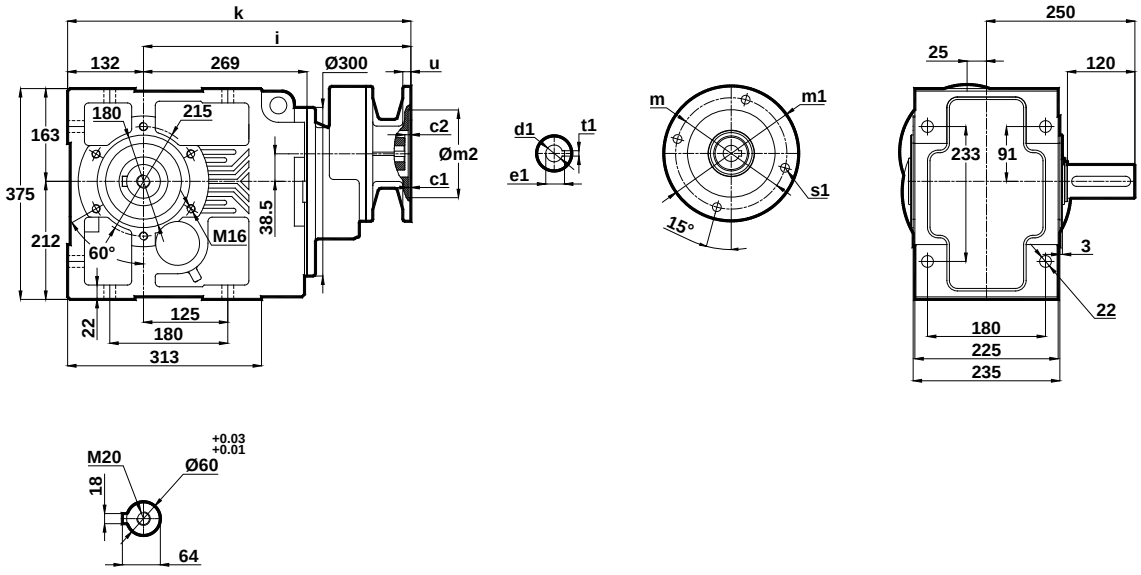
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	422	12	554	19	6	21,8
90/B5	4	9	12	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



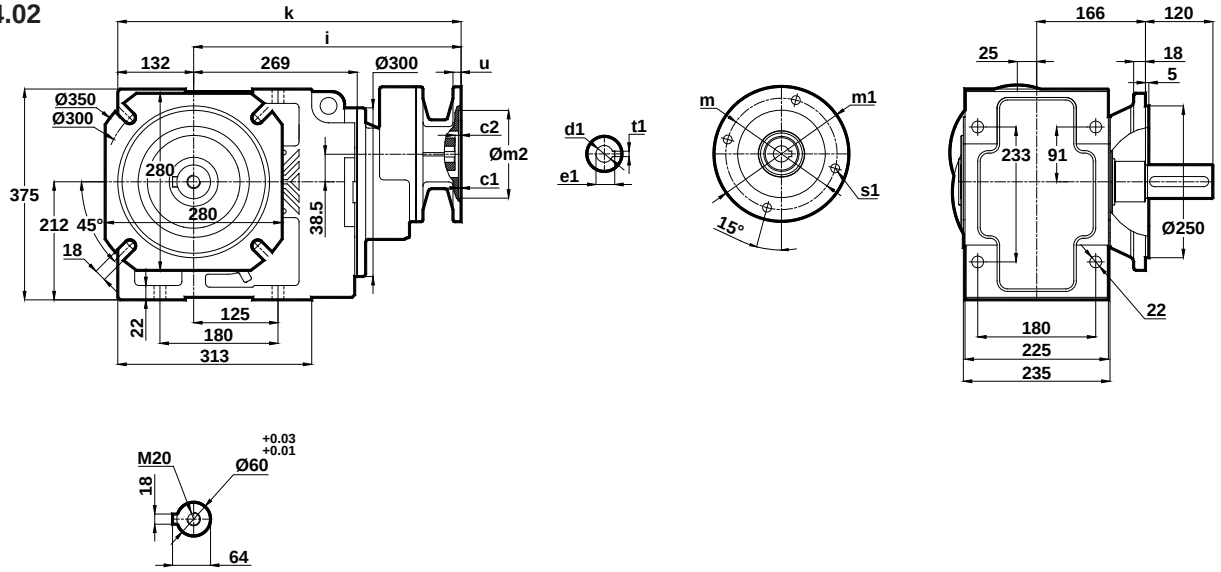
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	422	12	554	14	5	16,3
80/B5	4	9	12	165	200	130	422	12	554	19	6	21,8
90/B5	4	9	12	165	200	130	422	12	554	24	8	27,3
100/B5	4,5	9	15	215	250	180	439	15	571	28	8	31,3



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

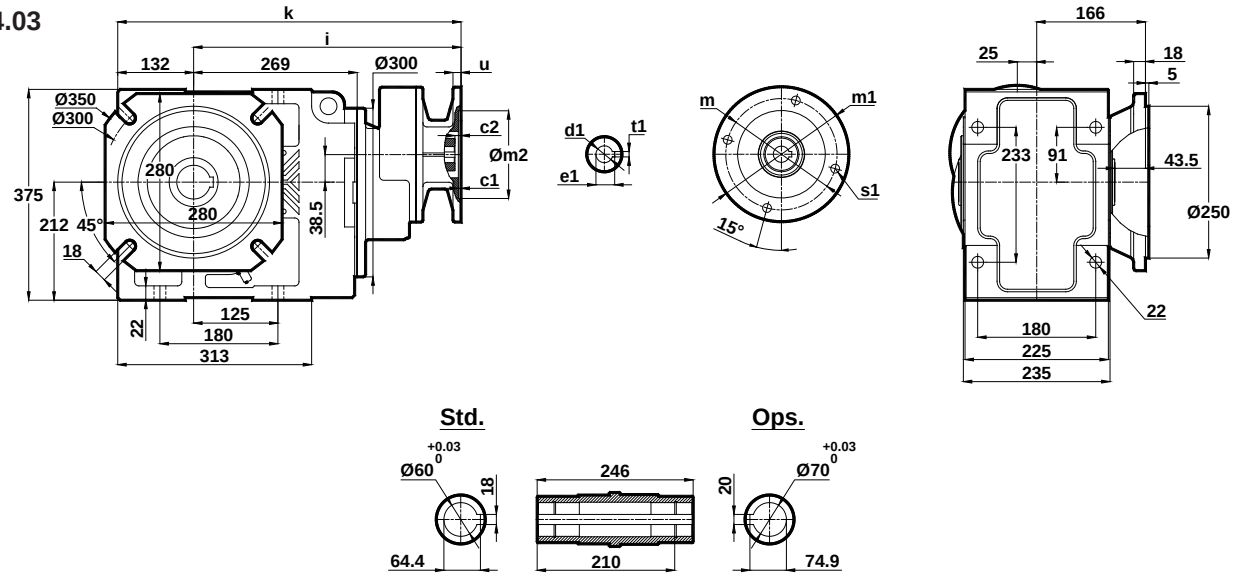
Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	422	12	554	19	6	21,8
90/B5	4	9	12	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

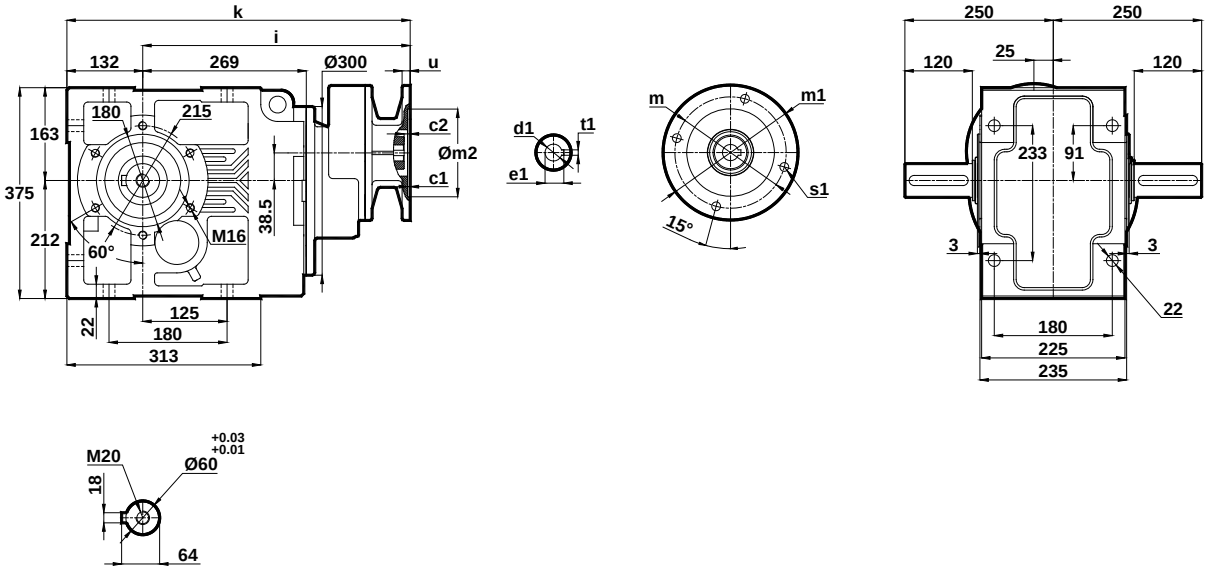
KN574.03



	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	12	165	200	130	422	12	554	19	6	21,8
90/B5	4	9	12	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

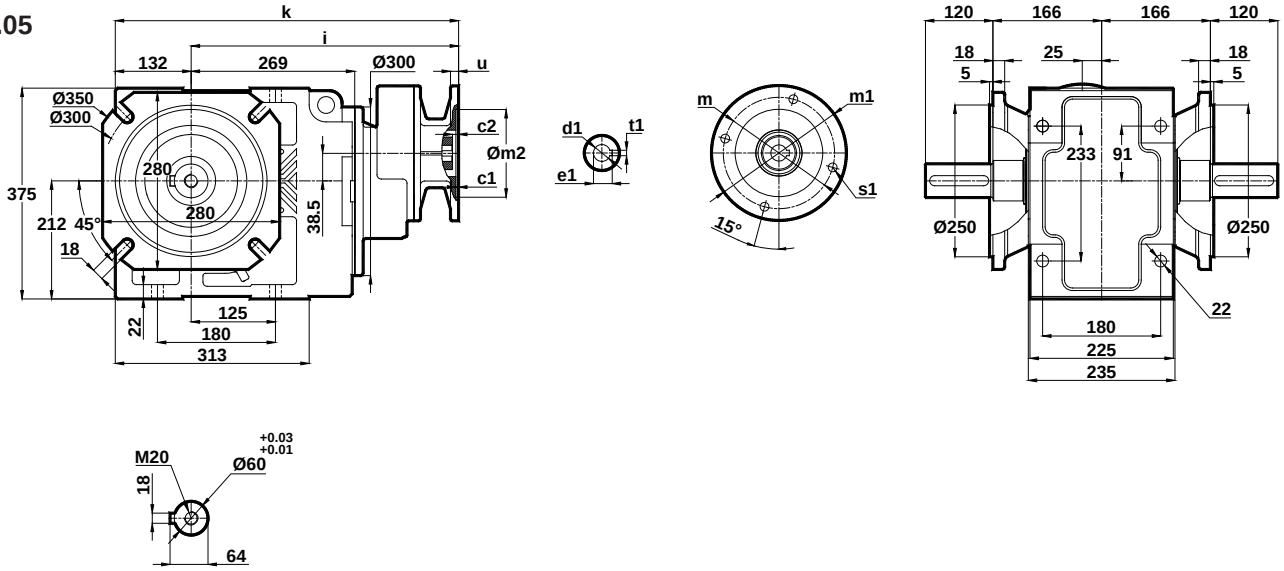
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	422	12	554	19	6	21,8
90/B5	4	9	12	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

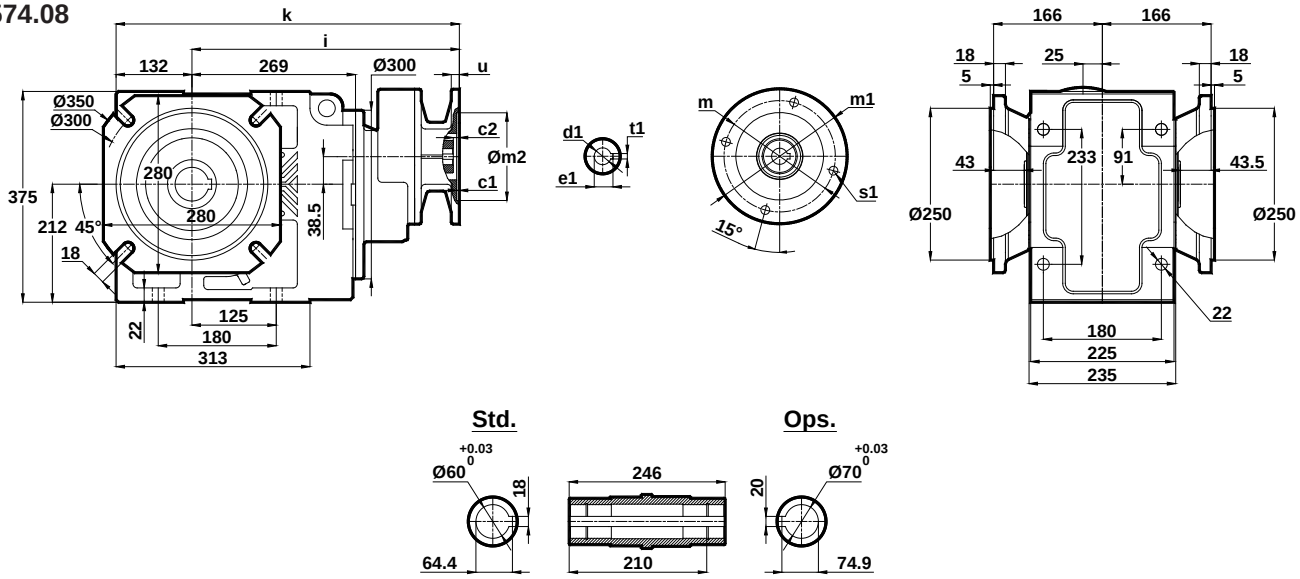
KN574.05



	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	12	165	200	130	422	12	554	19	6	21,8
90/B5	4	9	12	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN574.08



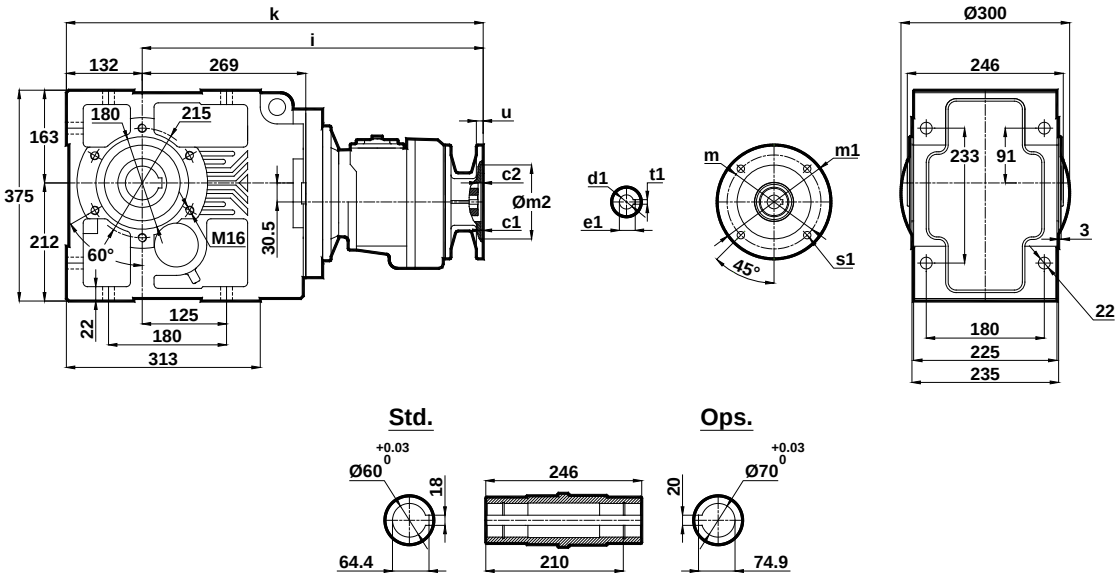
Std.

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	12	165	200	130	422	12	554	19	6	21,8
90/B5	4	9	12	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

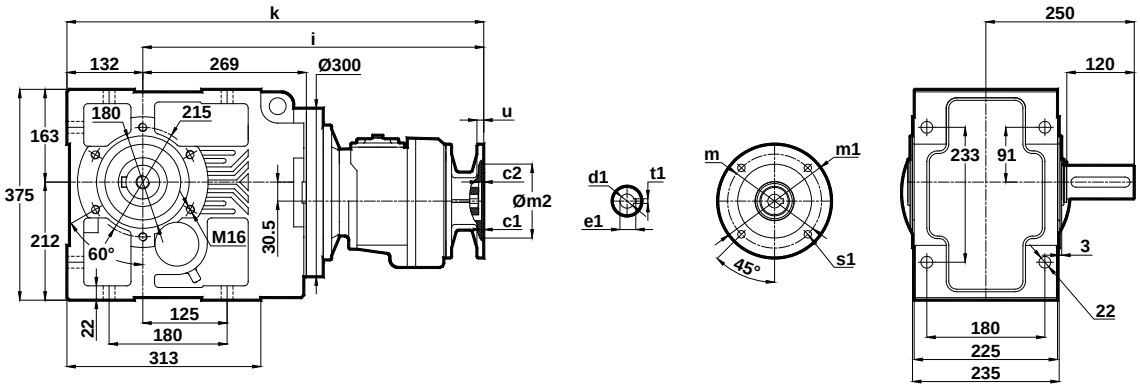
KN575.00
KN576.00

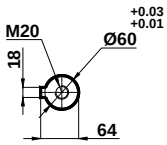


Std. **Ops.**

	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	12	165	200	130	552	12	684	19	6	21,8

KN575.01
KN576.01

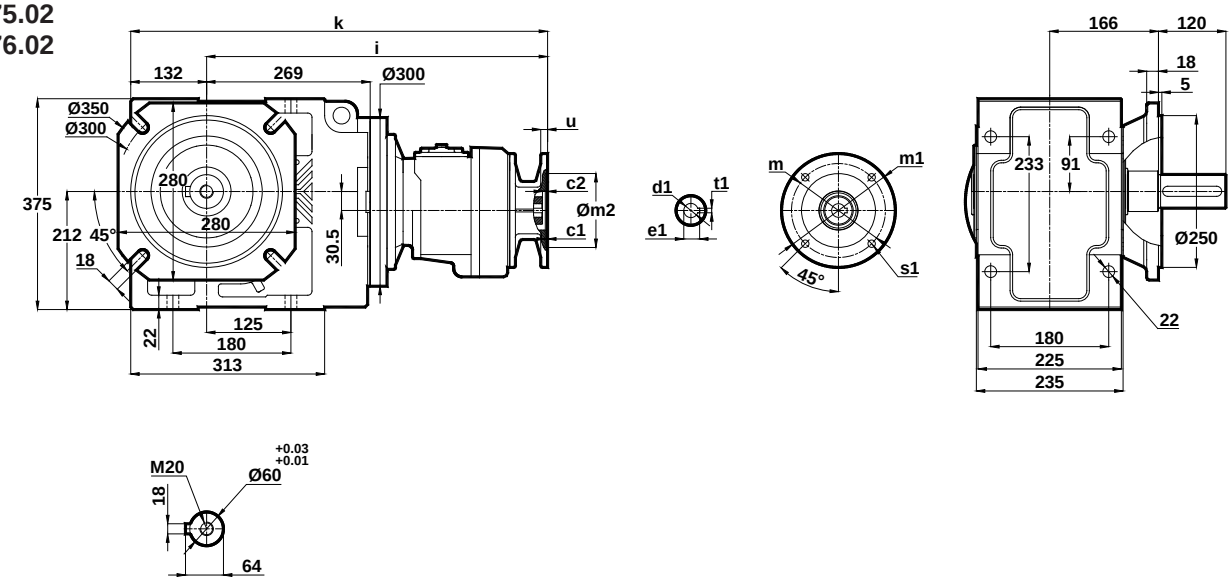




	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	552	12	684	11	4	12,8
71/B5	4	8,5	11	130	160	110	523	12	655	14	5	16,3
80/B5	4	5	12	165	200	130	552	12	684	19	6	21,8

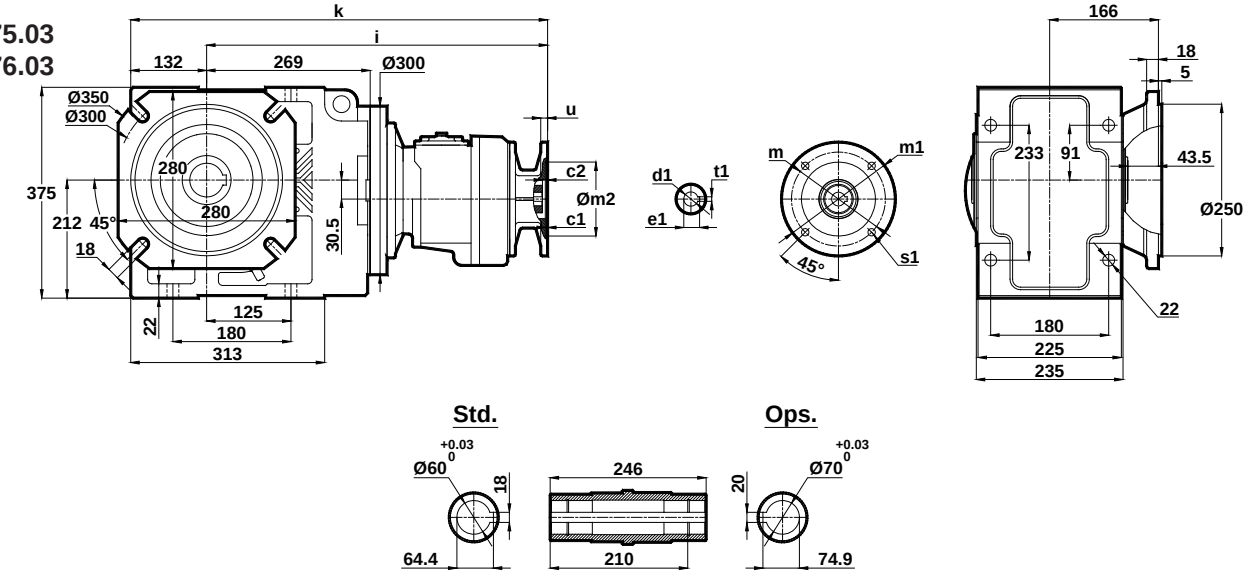
Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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



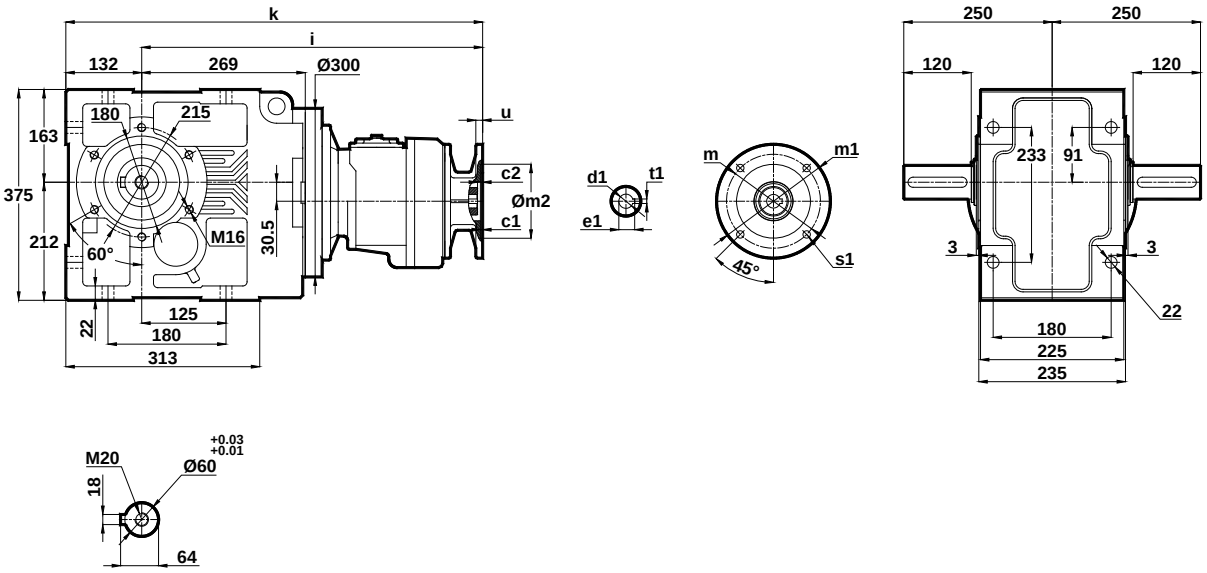
Std.

Ops.

	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

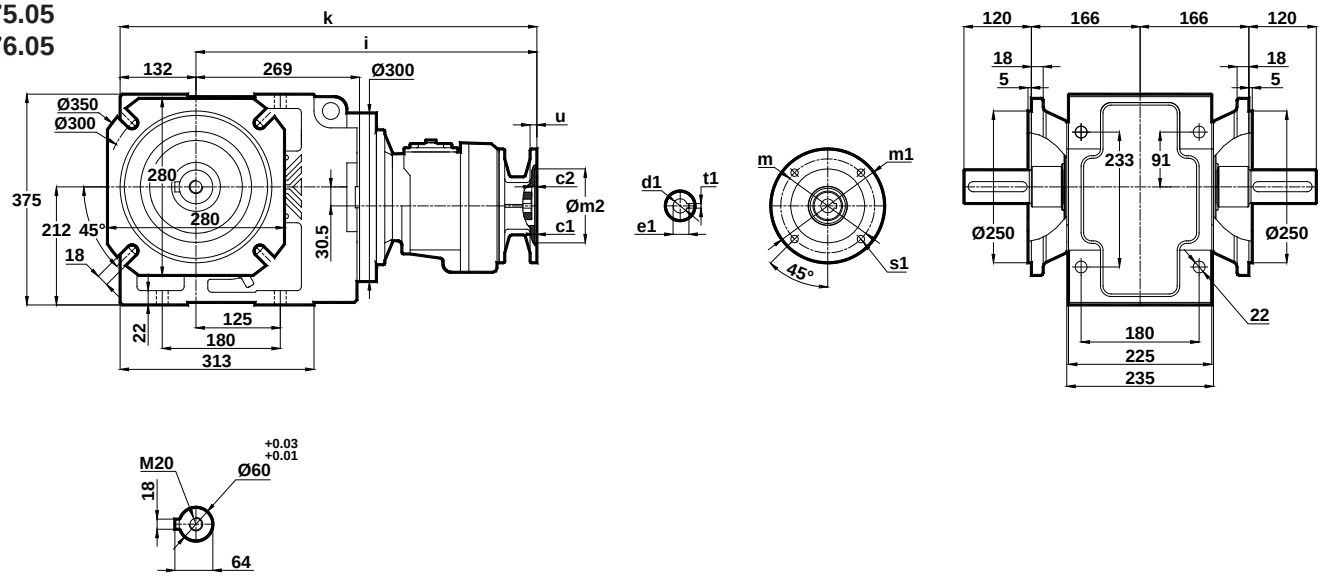
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN575.04
KN576.04



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
63/B5	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



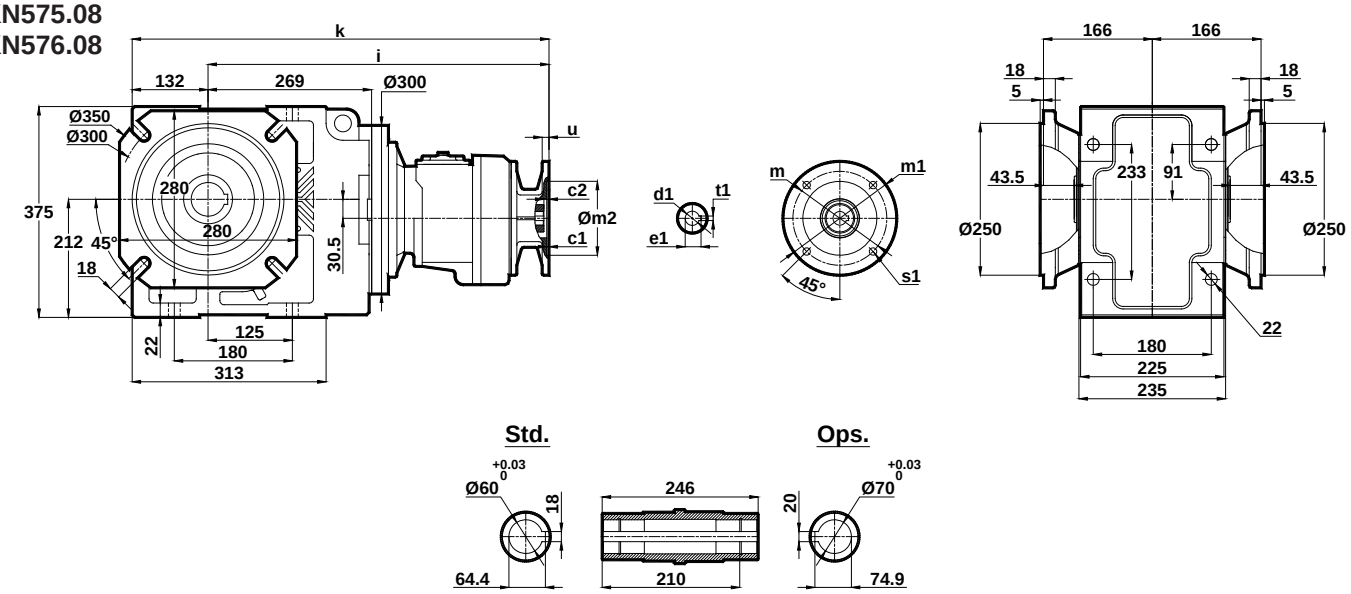
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
63/B5	4	8	9	115	140	95	552	12	684	11	4	12,8
71/B5	4	8,5	11	130	160	110	523	12	655	14	5	16,3
80/B5	4	5	13	165	200	130	552	12	684	19	6	21,8



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

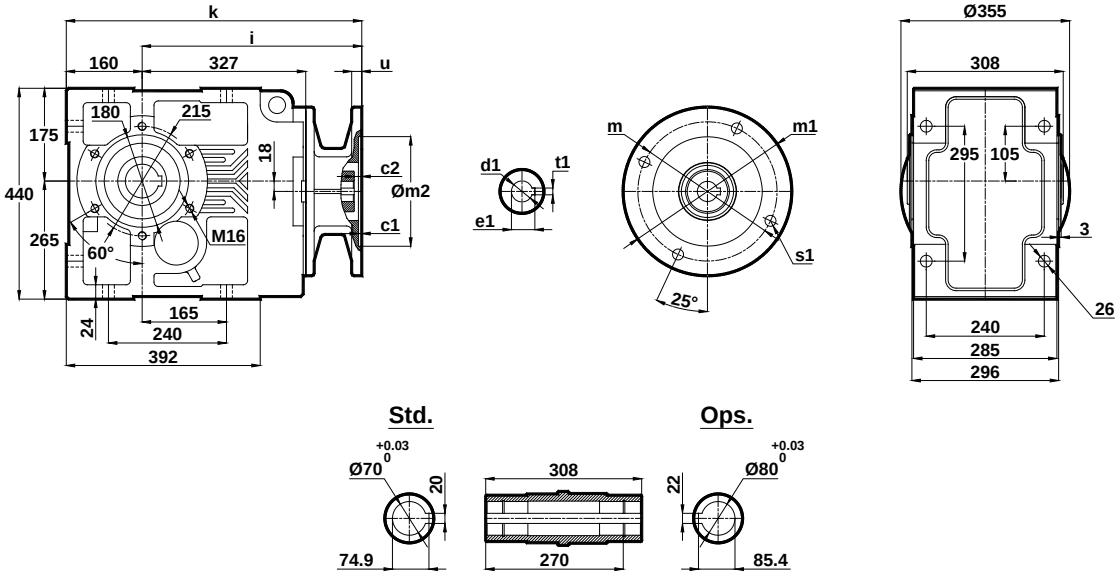
KN575.08
KN576.08



	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

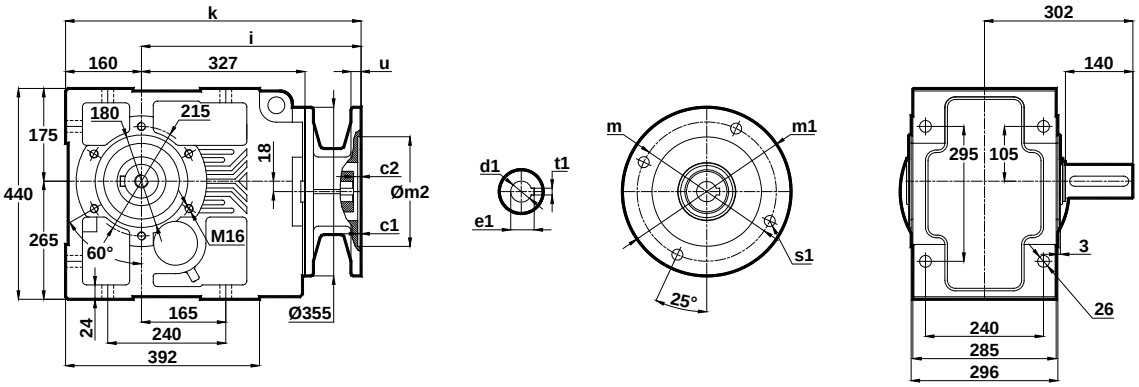
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

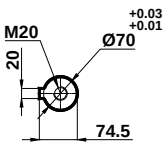
KN673.00



	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





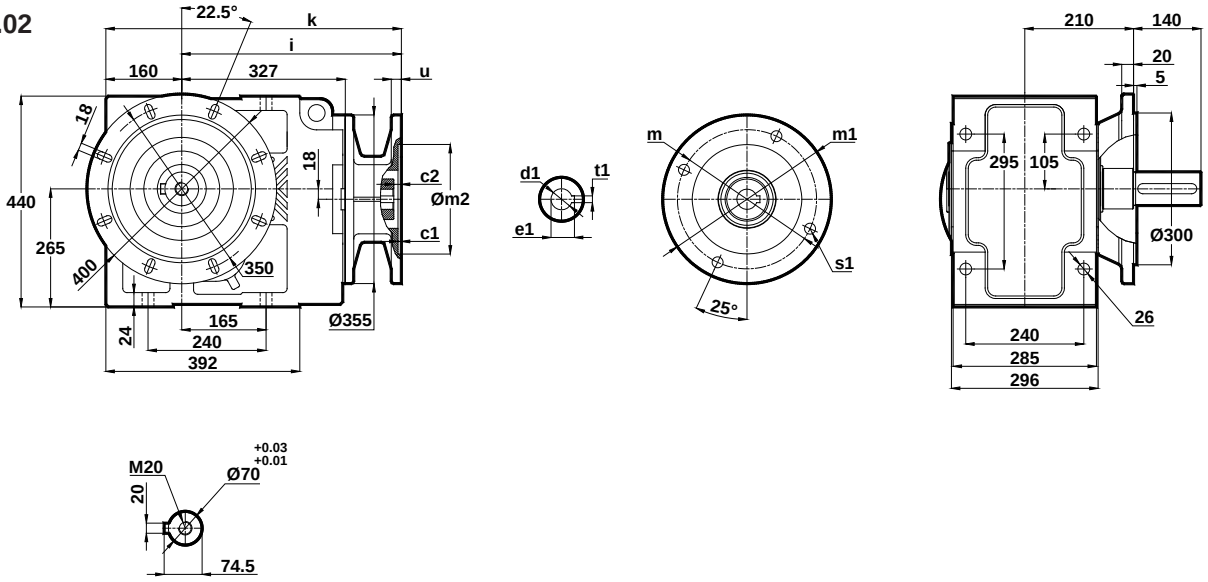
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
100/B5	4,5	14,5	15	215	250	180	396	15	556	28	8	31,3
112/B5	4,5	14,5	15	215	250	180	396	15	556	28	8	31,3
132/B5	4,5	9	15	265	300	230	411	15	571	38	10	41,3
160/B5	5,5	10	19	300	350	250	486	20	646	42	12	45,3
180/B5	5,5	10	19	300	350	250	486	20	646	48	14	51,8
200/B5	5,5	10	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



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

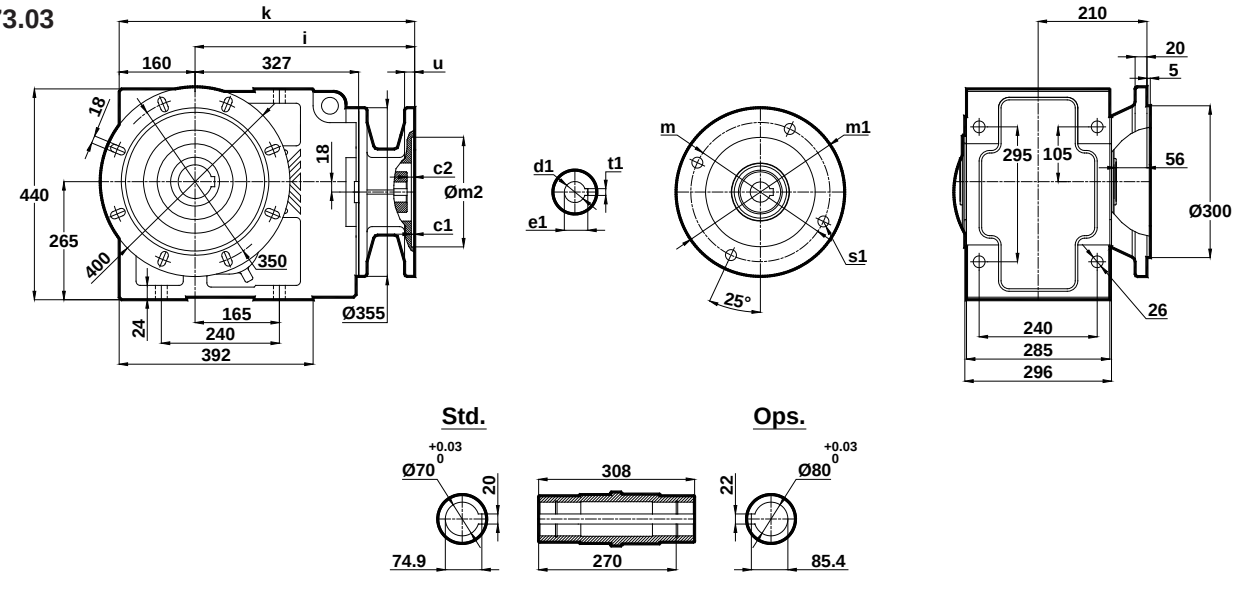
Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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

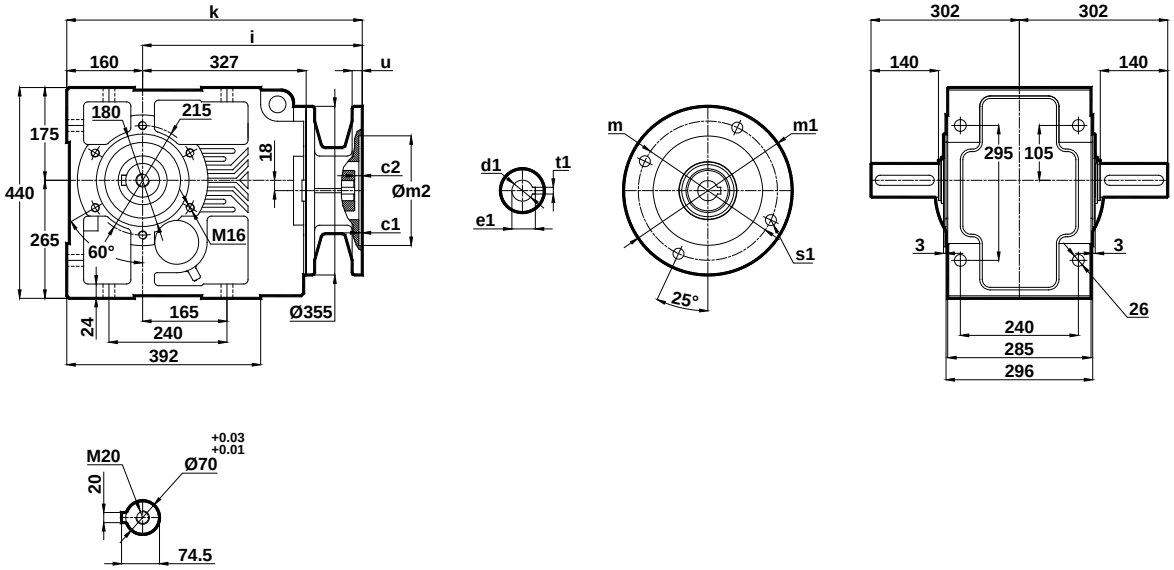
KN673.03



	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

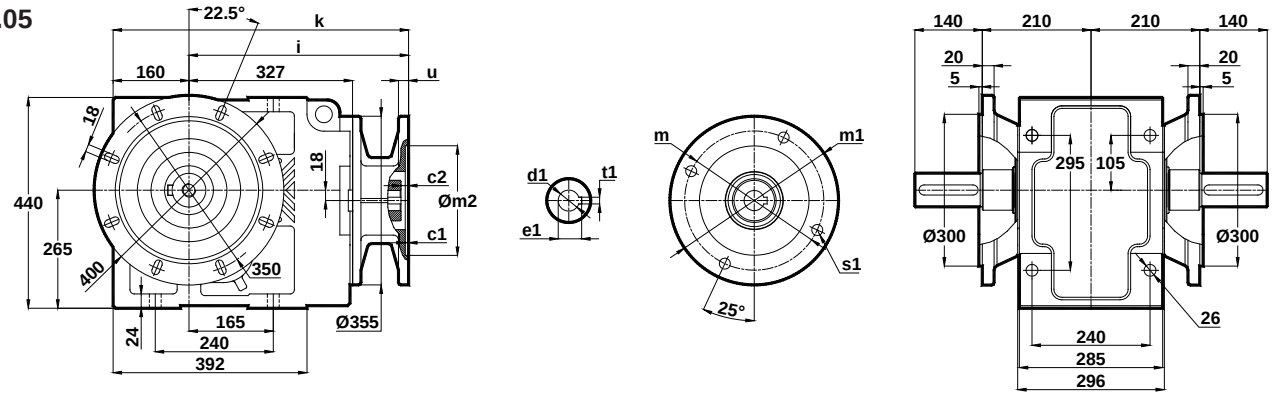
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

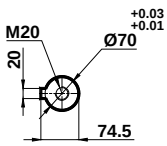
KN673.04



	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

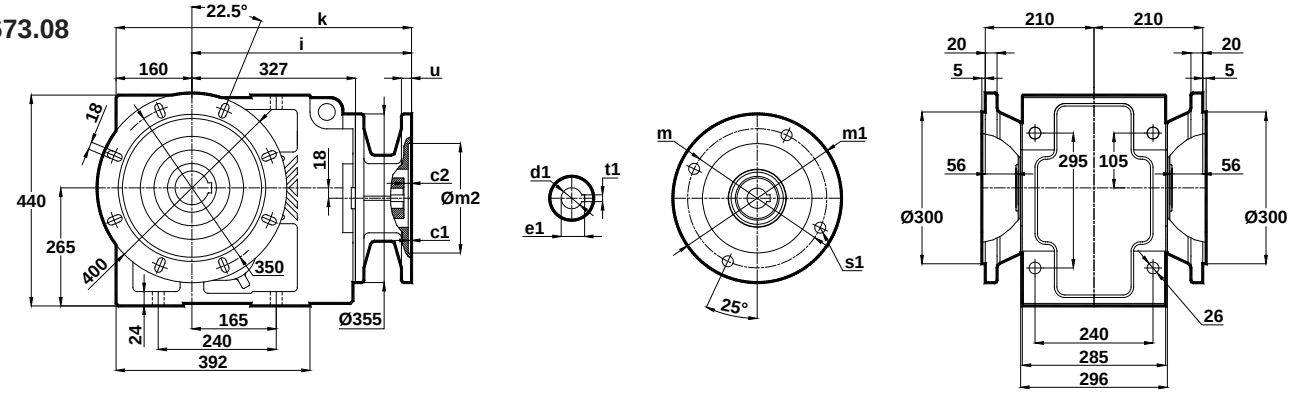


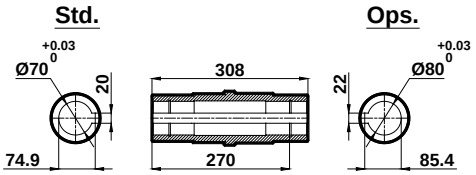


	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
100/B5	4,5	14,5	15	215	250	180	396	15	556	28	8	31,3
112/B5	4,5	14,5	15	215	250	180	396	15	556	28	8	31,3
132/B5	4,5	9	15	265	300	230	411	15	571	38	10	41,3
160/B5	5,5	10	19	300	350	250	486	20	646	42	12	45,3
180/B5	5,5	10	19	300	350	250	486	20	646	48	14	51,8
200/B5	5,5	10	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN673.08

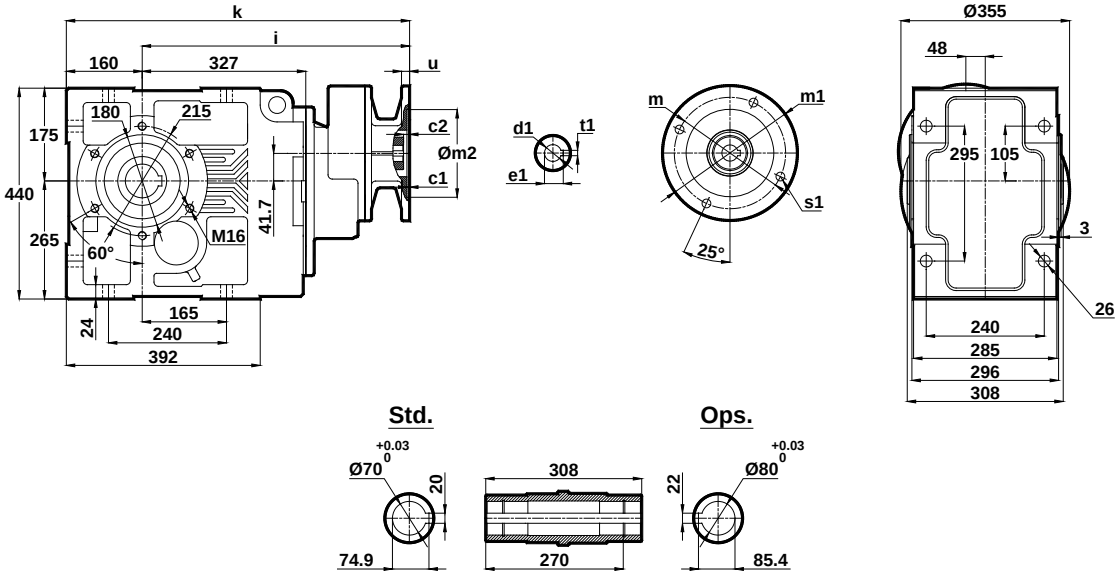




	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
100/B5	4,5	14,5	15	215	250	180	396	15	556	28	8	31,3
112/B5	4,5	14,5	15	215	250	180	396	15	556	28	8	31,3
132/B5	4,5	9	15	265	300	230	411	15	571	38	10	41,3
160/B5	5,5	10	19	300	350	250	486	20	646	42	12	45,3
180/B5	5,5	10	19	300	350	250	486	20	646	48	14	51,8
200/B5	5,5	10	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN674.00

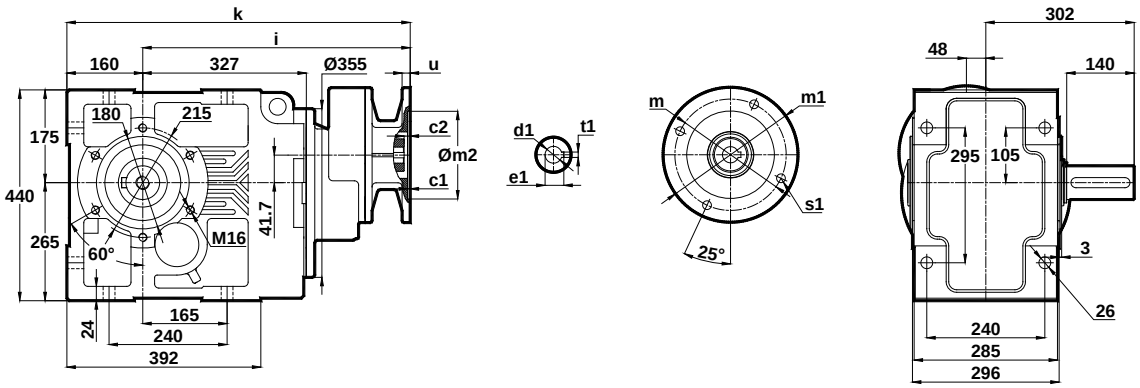


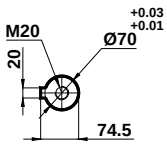
Std.

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

KN674.01





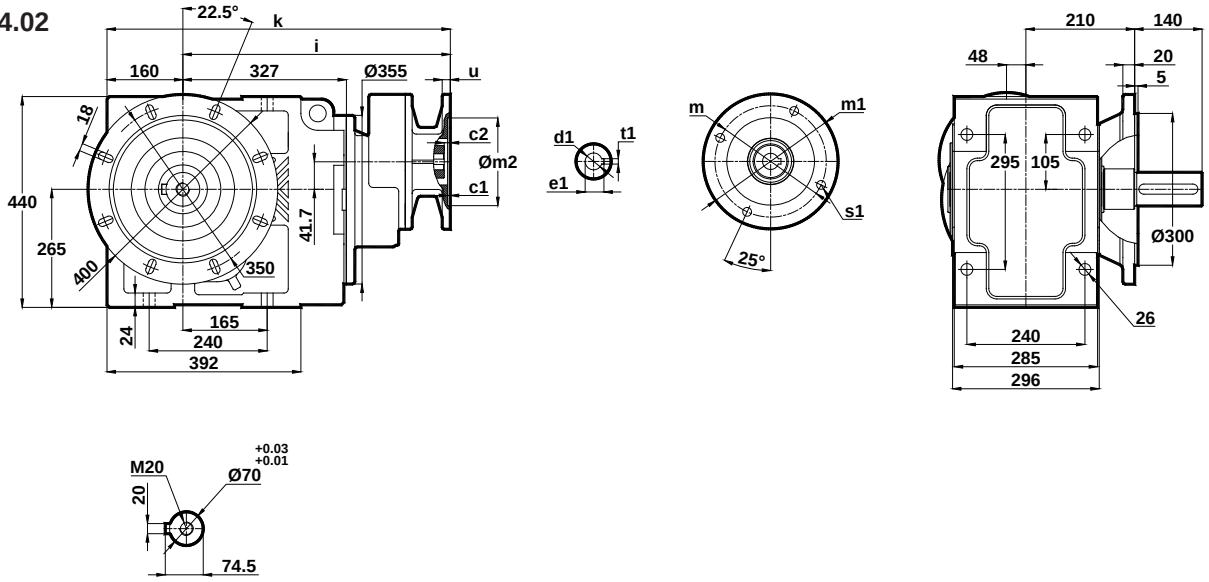
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	162	200	130	486	12	646	19	6	21,8
90/B5	4	5	13	165	200	130	486	12	646	24	8	27,3
100/B5	4,5	9	15	215	250	180	504	15	664	28	8	31,3



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

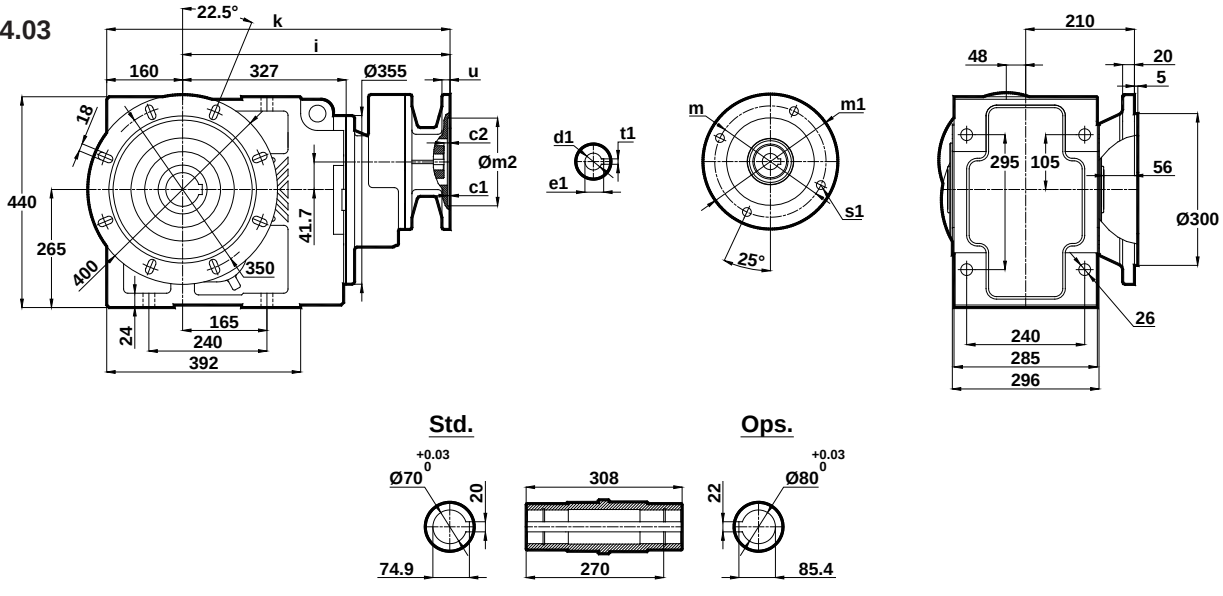
Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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



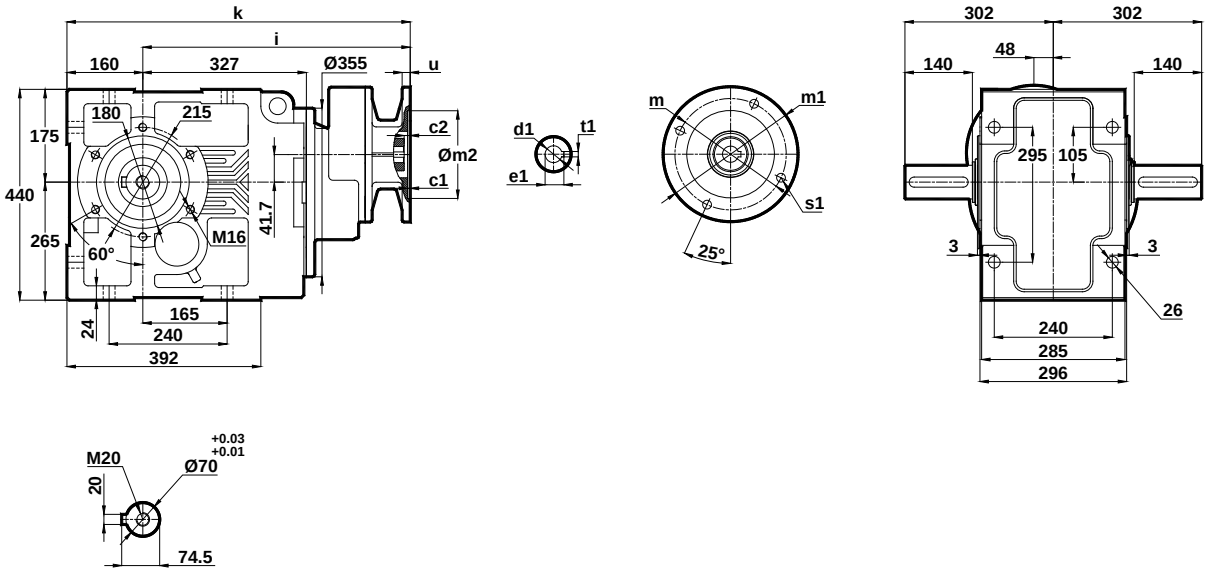
Std.

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

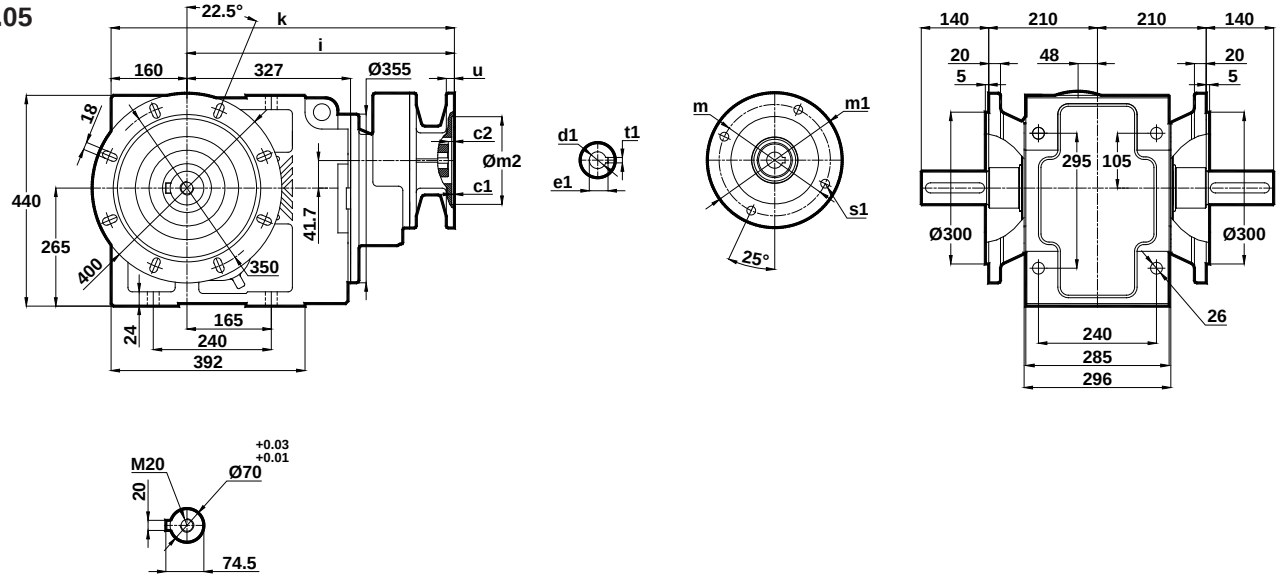
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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

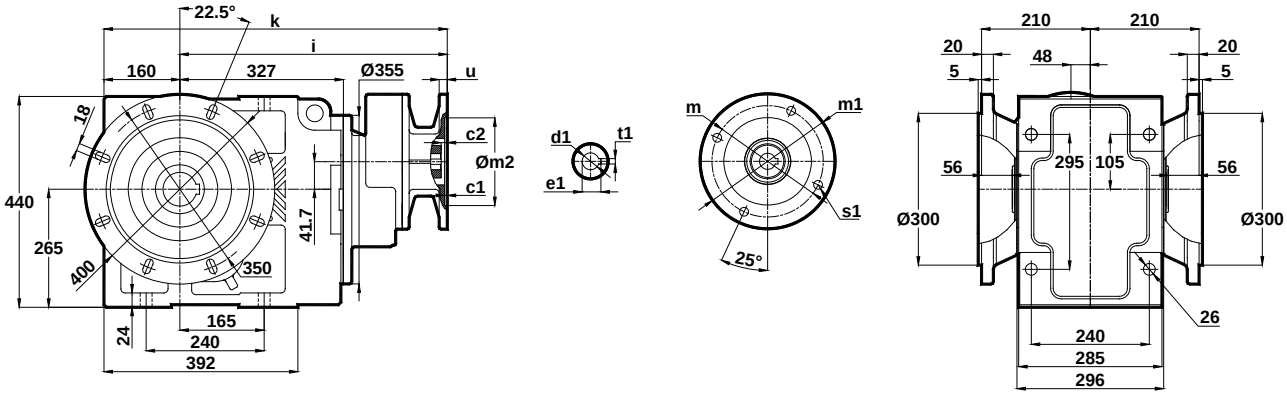
KN674.05

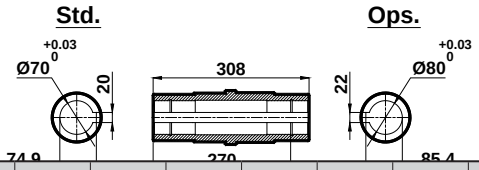


	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	162	200	130	486	12	646	19	6	21,8
90/B5	4	5	13	165	200	130	486	12	646	24	8	27,3
100/B5	4,5	9	15	215	250	180	504	15	664	28	8	31,3

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN674.08





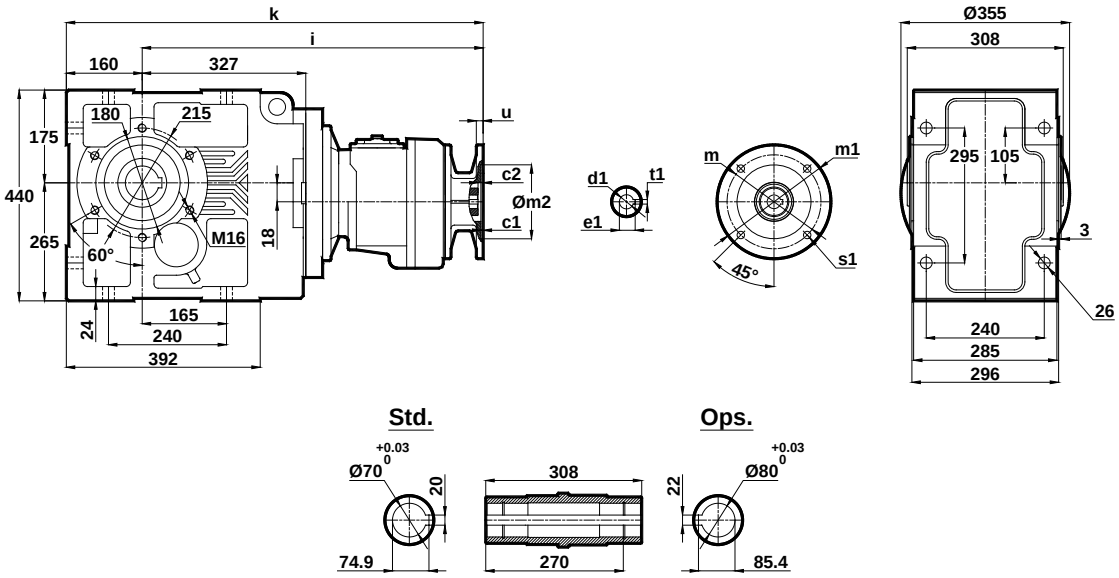
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
80/B5	4	5	12	162	200	130	486	12	646	19	6	21,8
90/B5	4	5	13	165	200	130	486	12	646	24	8	27,3
100/B5	4,5	9	15	215	250	180	504	15	664	28	8	31,3



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

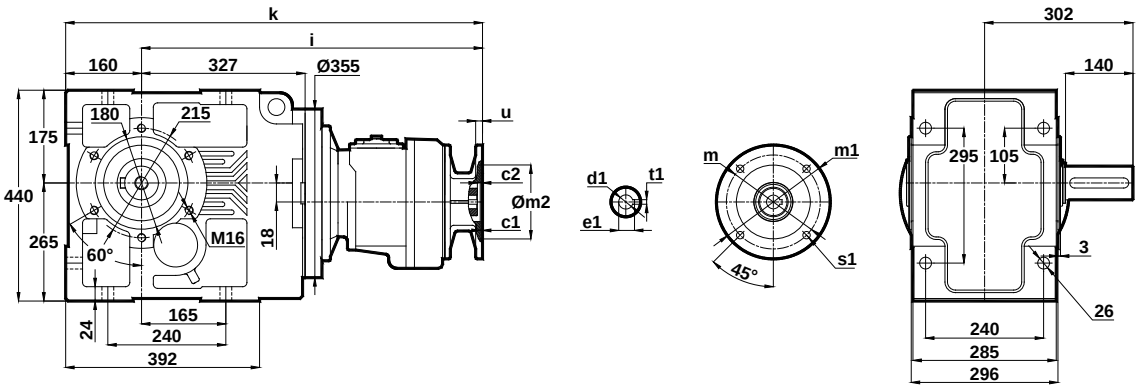
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

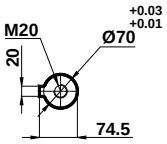
KN675.00
KN676.00



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	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





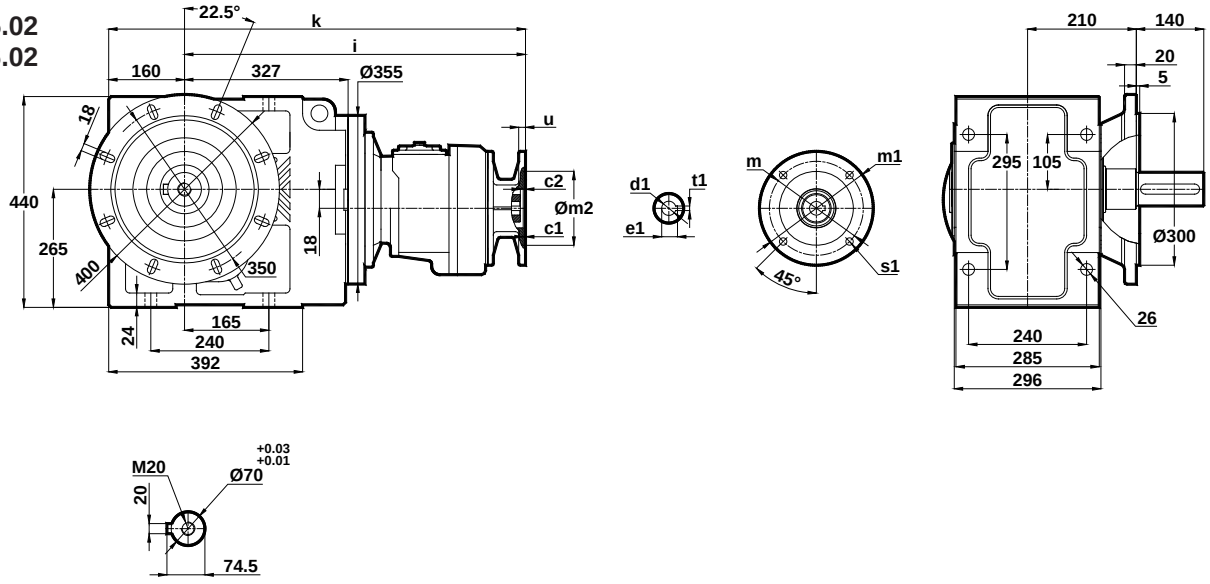
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	637	12	797	14	5	16,3
80/B5	4	9	13	165	200	130	637	12	797	19	6	21,8
90/B5	4	9	13	165	200	130	637	12	797	24	8	27,3



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

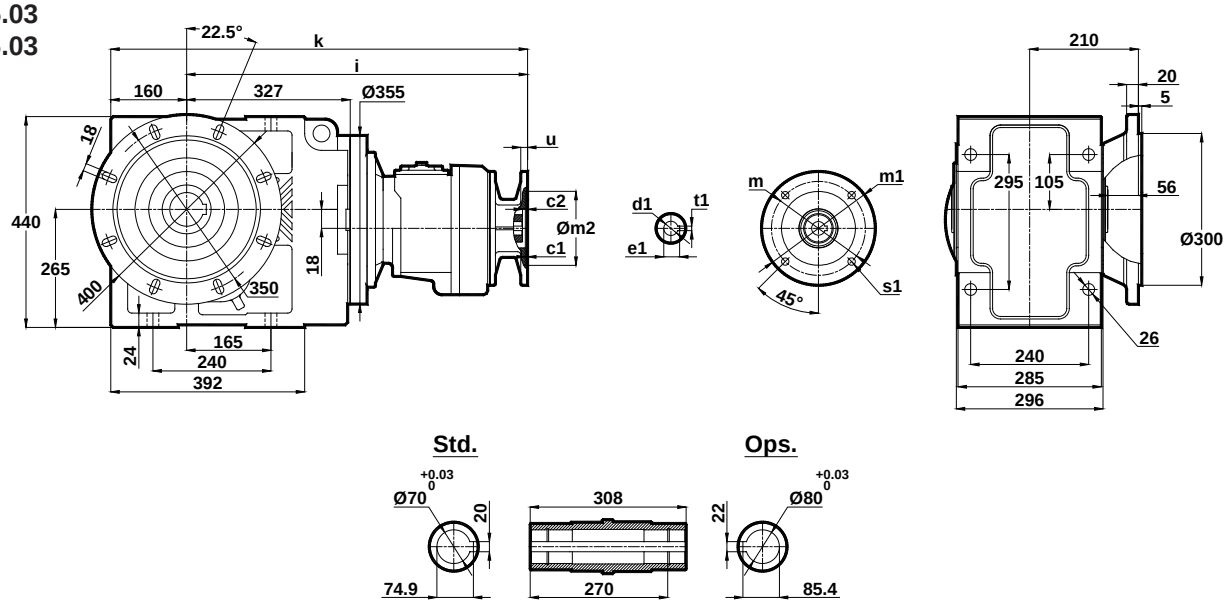
Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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



Std.

Ops.

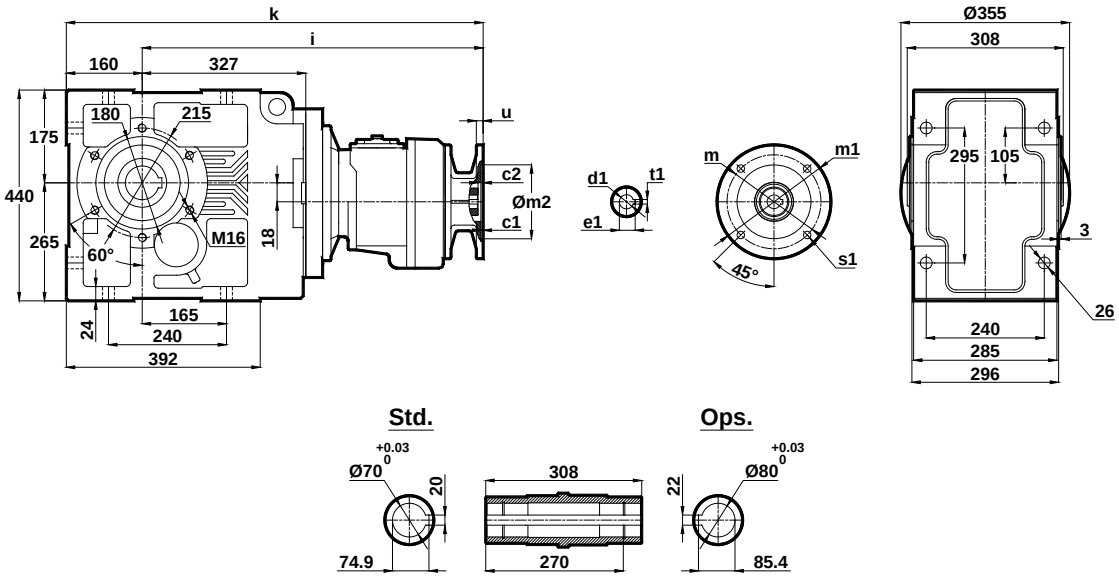
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	637	12	797	14	5	16,3
80/B5	4	9	13	165	200	130	637	12	797	19	6	21,8
90/B5	4	9	13	165	200	130	637	12	797	24	8	27,3



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

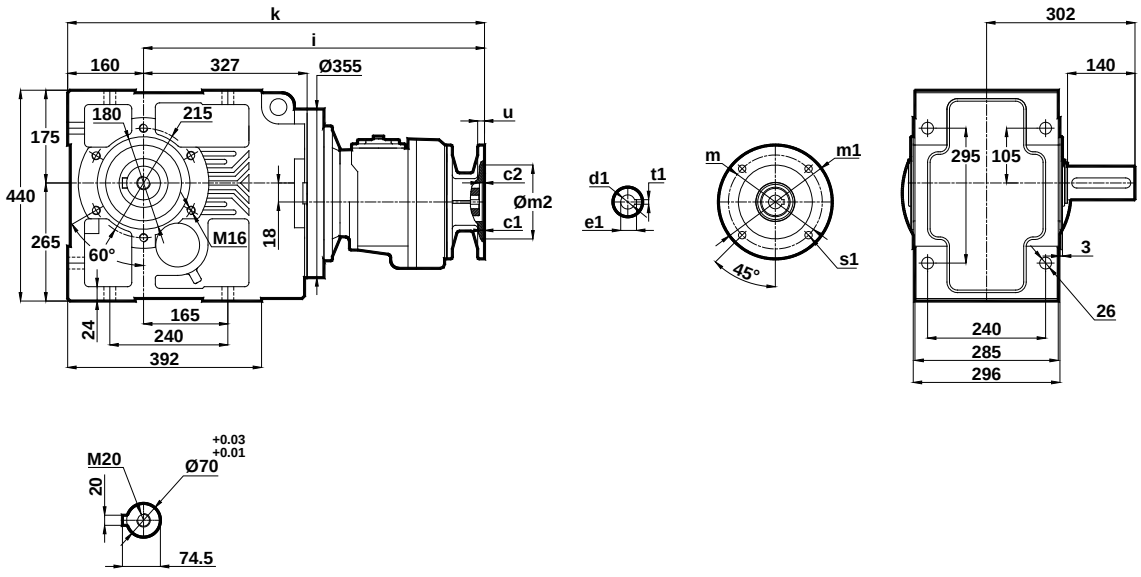
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN675.04
KN676.04



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	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

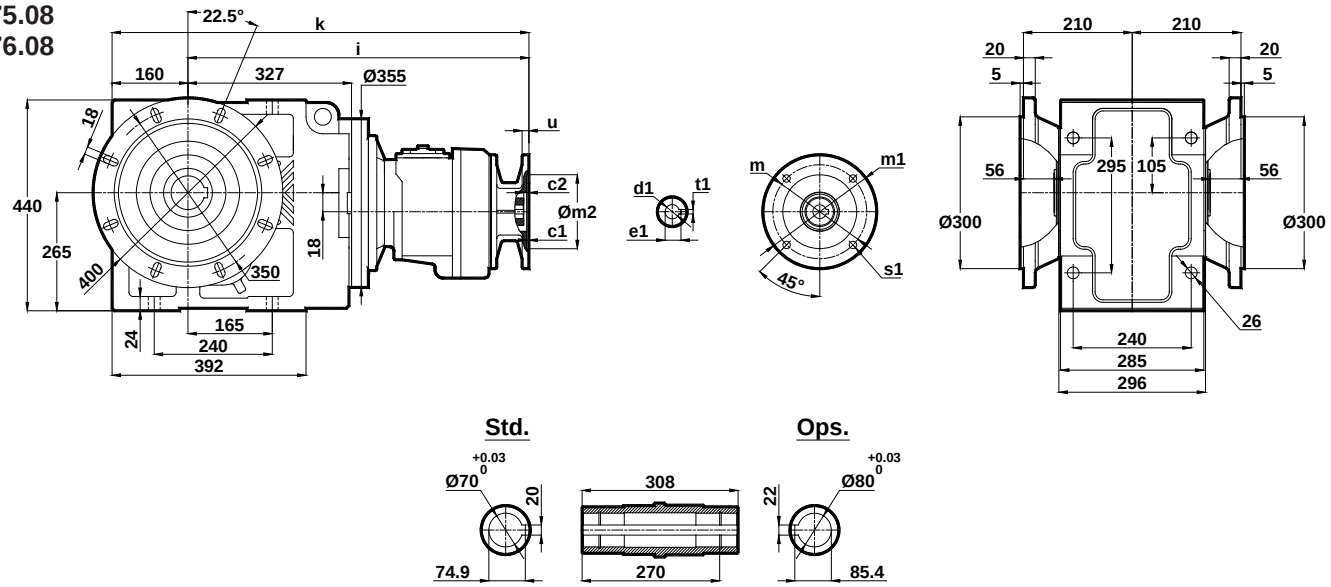
KN675.05
KN676.05



	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

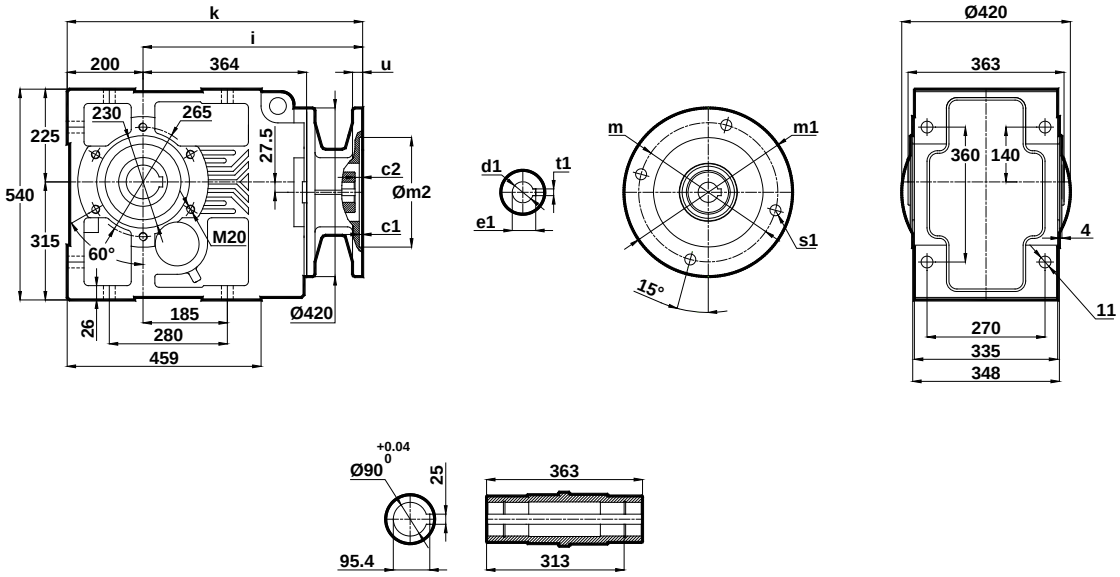
KN675.08
KN676.08



	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

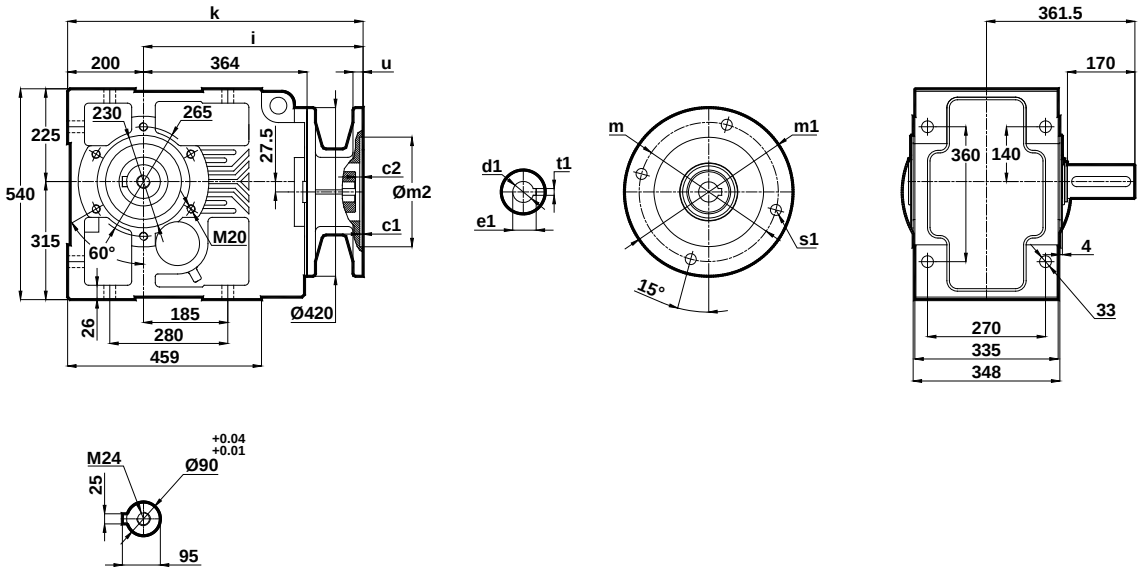
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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



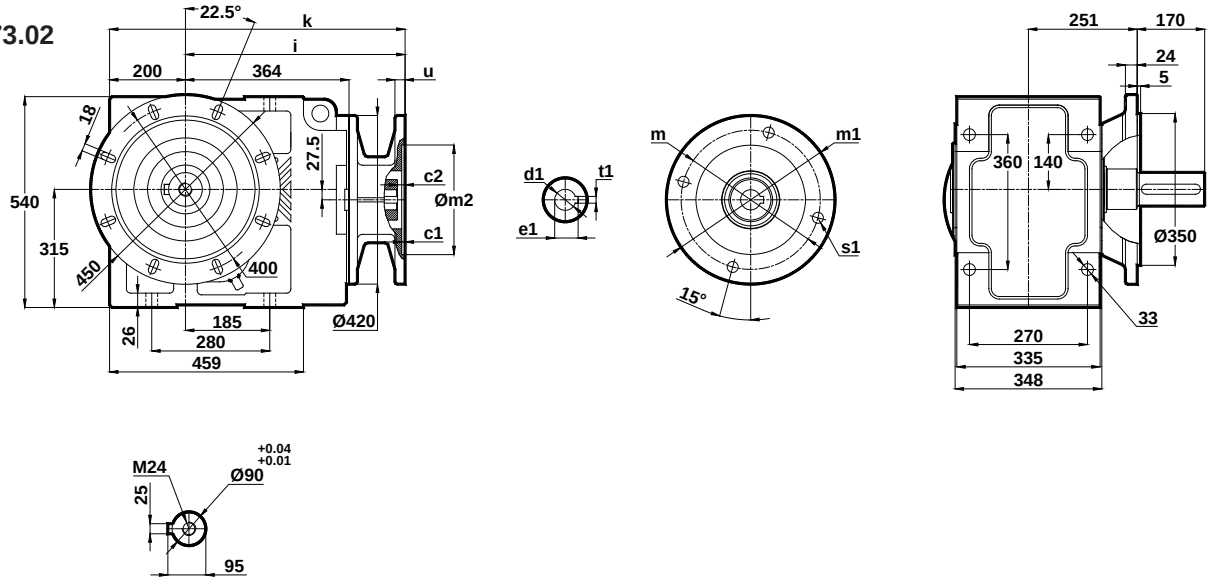
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
132/B5	4,5	15	15	265	300	230	448	15	648	38	10	41,3
160/B5	5,5	10	19	300	350	250	517	20	717	42	12	45,3
180/B5	5,5	10	19	300	350	250	517	20	717	48	14	51,8
200/B5	5,5	10	19	350	400	300	539	20	739	55	16	59,3
225/B5	5,5	10	19	400	450	350	592	24	792	60	18	64,4
250/B5	5,5	10	19	500	550	450	592	24	792	65	18	69,4



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

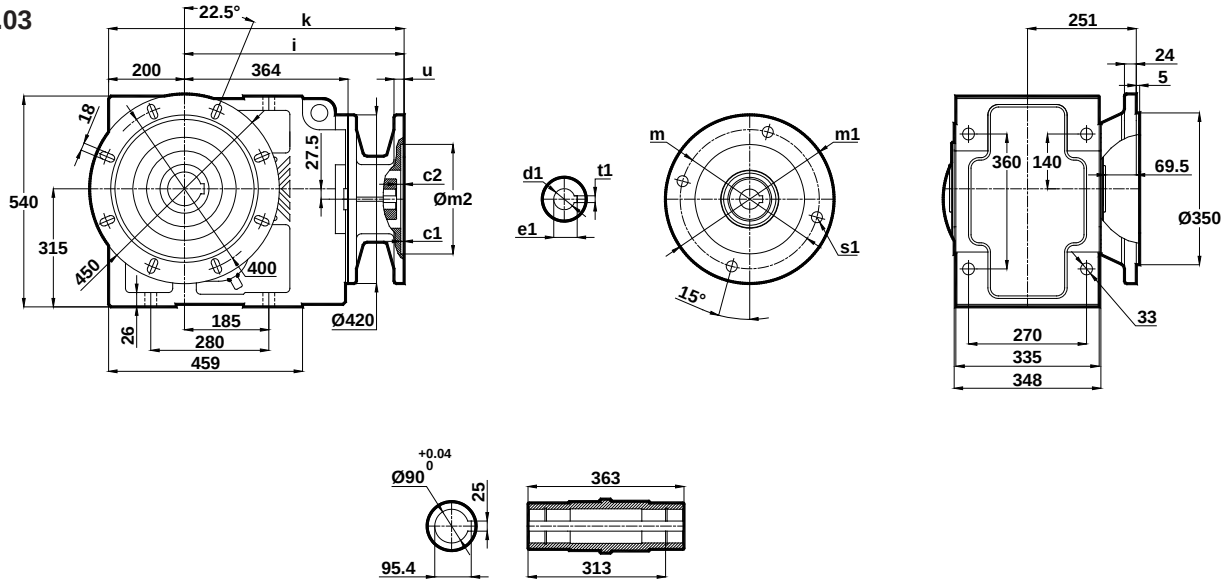
Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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

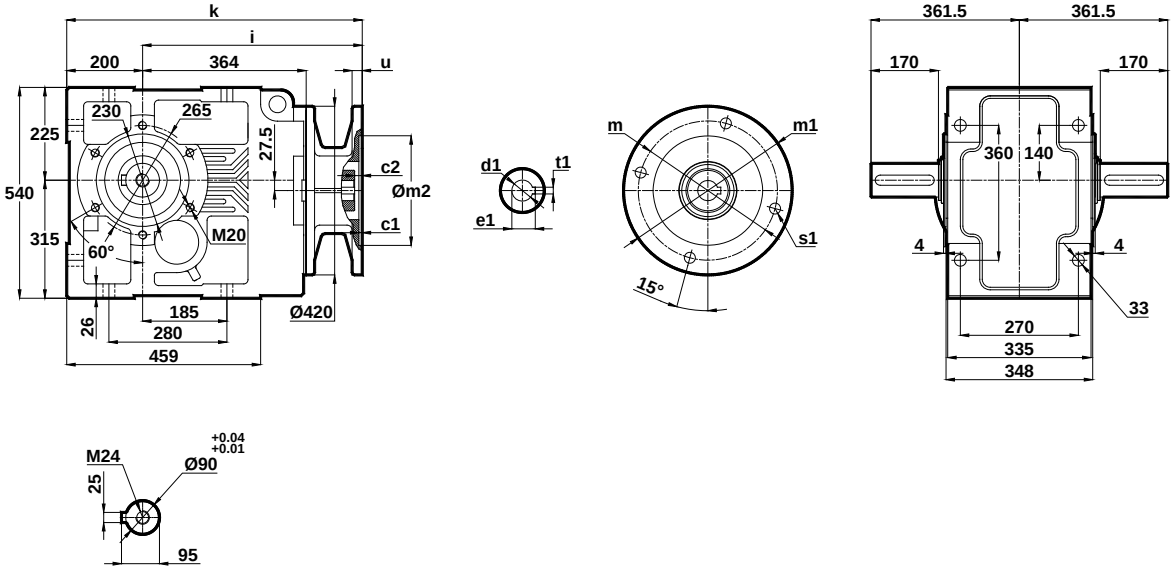
KN773.03



	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

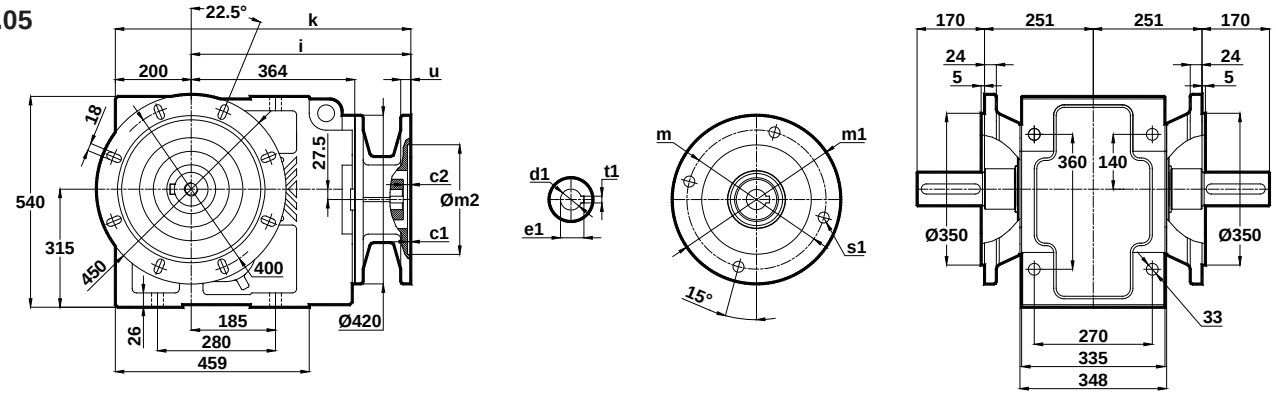
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

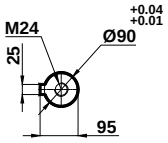
KN773.04



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
132/B5	4,5	15	15	265	300	230	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

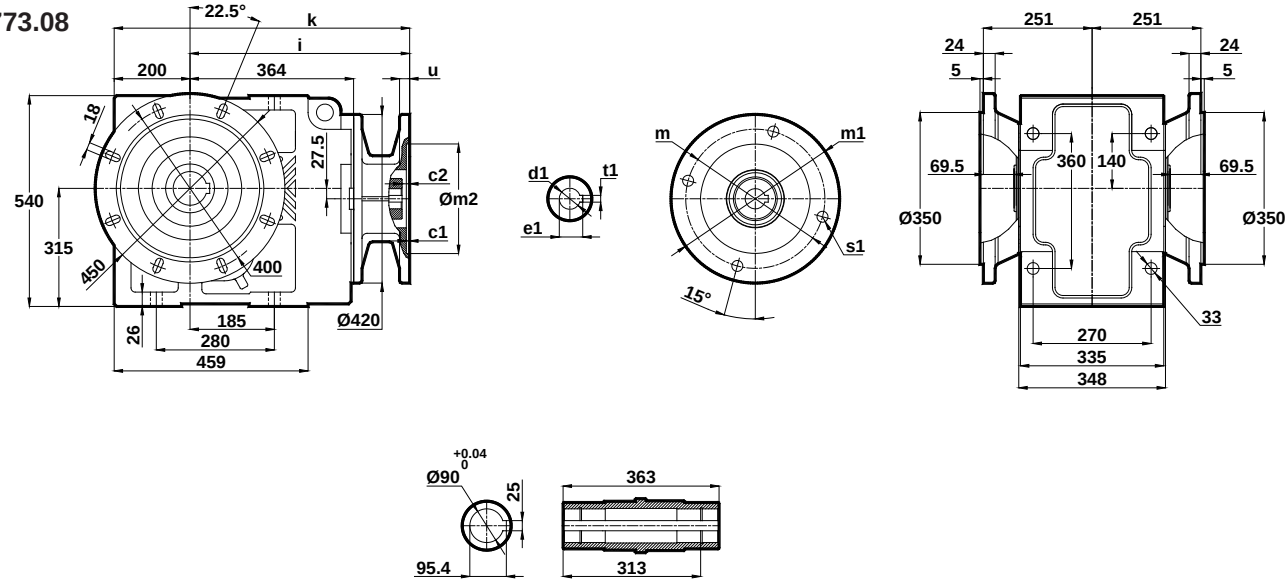




	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
132/B5	4,5	15	15	265	300	230	448	15	648	38	10	41,3
160/B5	5,5	10	19	300	350	250	517	20	717	42	12	45,3
180/B5	5,5	10	19	300	350	250	517	20	717	48	14	51,8
200/B5	5,5	10	19	350	400	300	539	20	739	55	16	59,3
225/B5	5,5	10	19	400	450	350	592	24	792	60	18	64,4
250/B5	5,5	10	19	500	550	450	592	24	792	65	18	69,4

Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN773.08



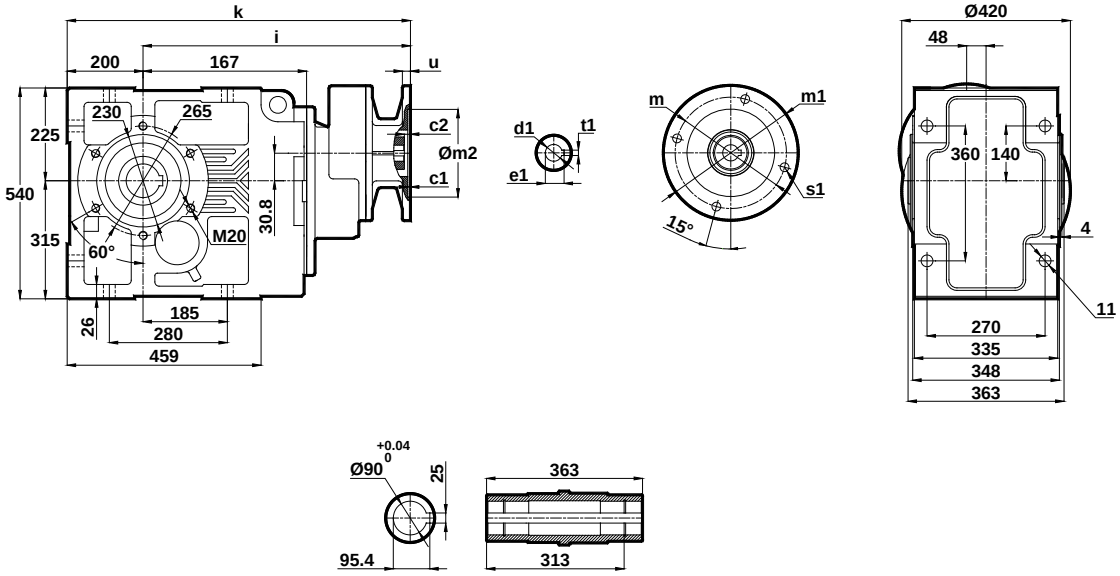
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
132/B5	4,5	15	15	265	300	230	448	15	648	38	10	41,3
160/B5	5,5	10	19	300	350	250	517	20	717	42	12	45,3
180/B5	5,5	10	19	300	350	250	517	20	717	48	14	51,8
200/B5	5,5	10	19	350	400	300	539	20	739	55	16	59,3
225/B5	5,5	10	19	400	450	350	592	24	792	60	18	64,4
250/B5	5,5	10	19	500	550	450	592	24	792	65	18	69,4



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

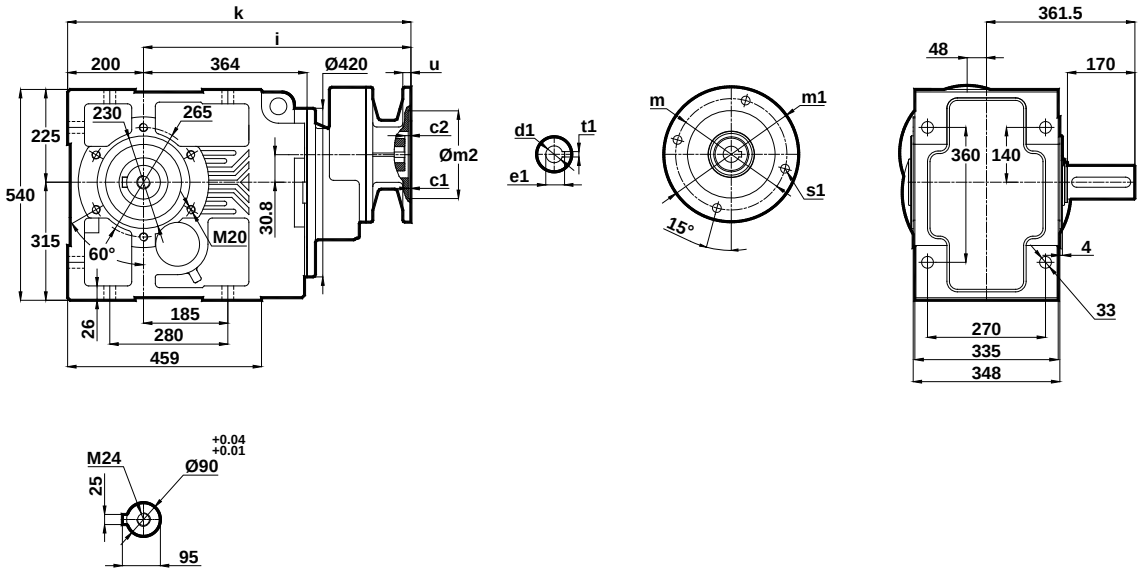
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN774.00



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
90/B5	4	5	12	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

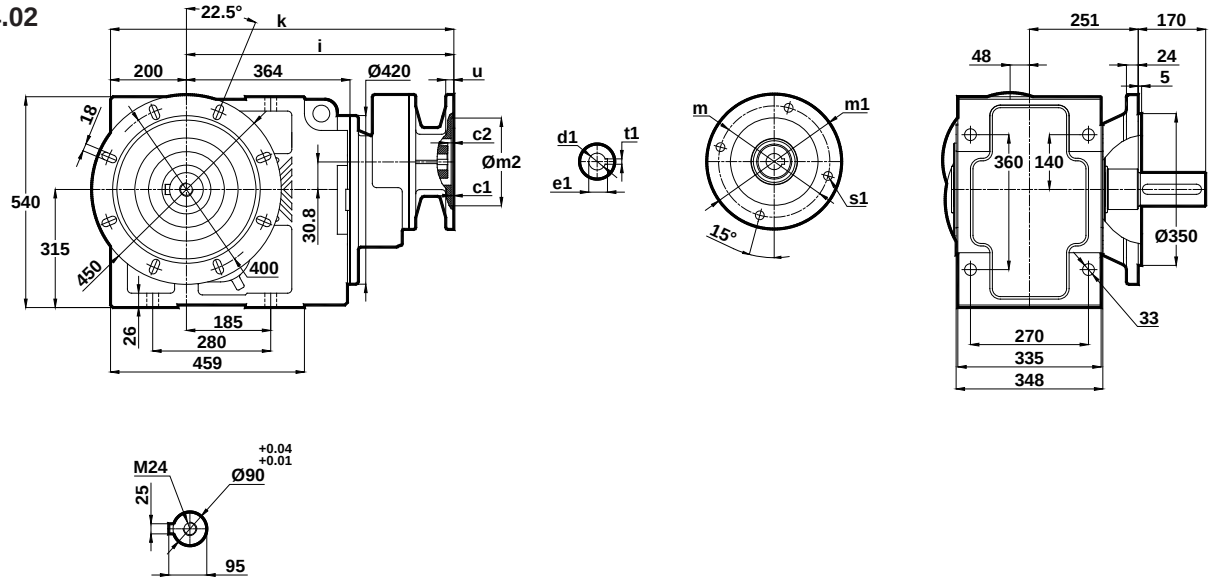
KN774.01



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
90/B5	4	5	12	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

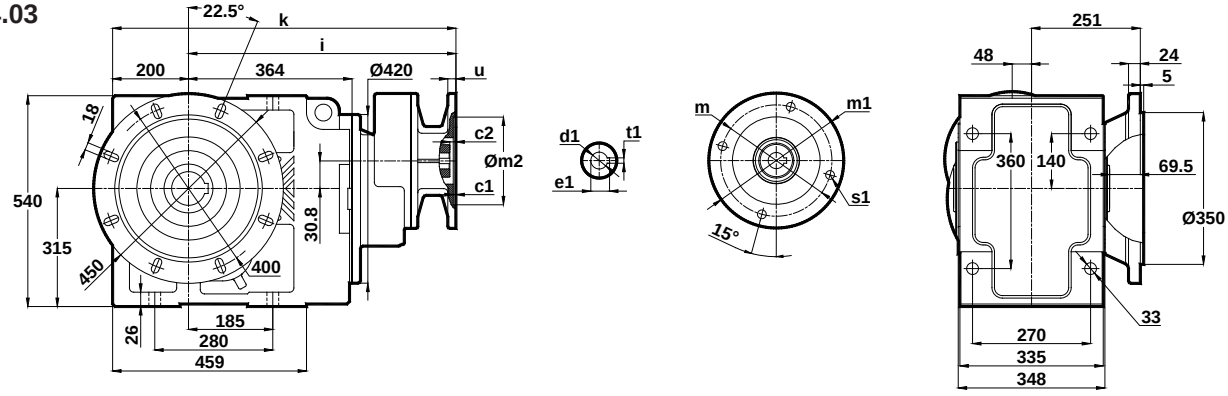
Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

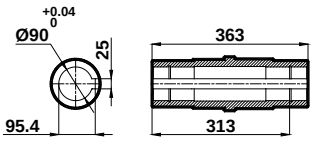
KN774.02



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
90/B5	4	5	12	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

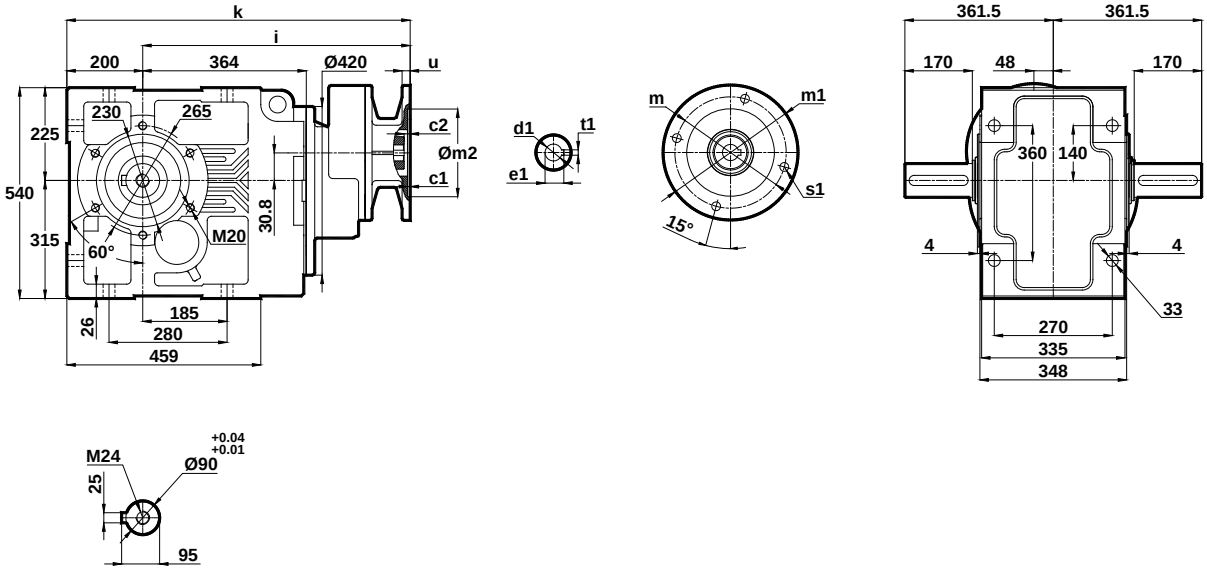




	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
90/B5	4	5	12	165	200	130	523	12	723	24	8	27,3
100/B5	4,5	9	15	215	250	180	541	15	741	28	8	31,3
112/B5	4,5	9	15	215	250	180	560	15	741	28	8	31,3
132/B5	4,5	6	15	265	300	230	639	15	760	38	10	41,3

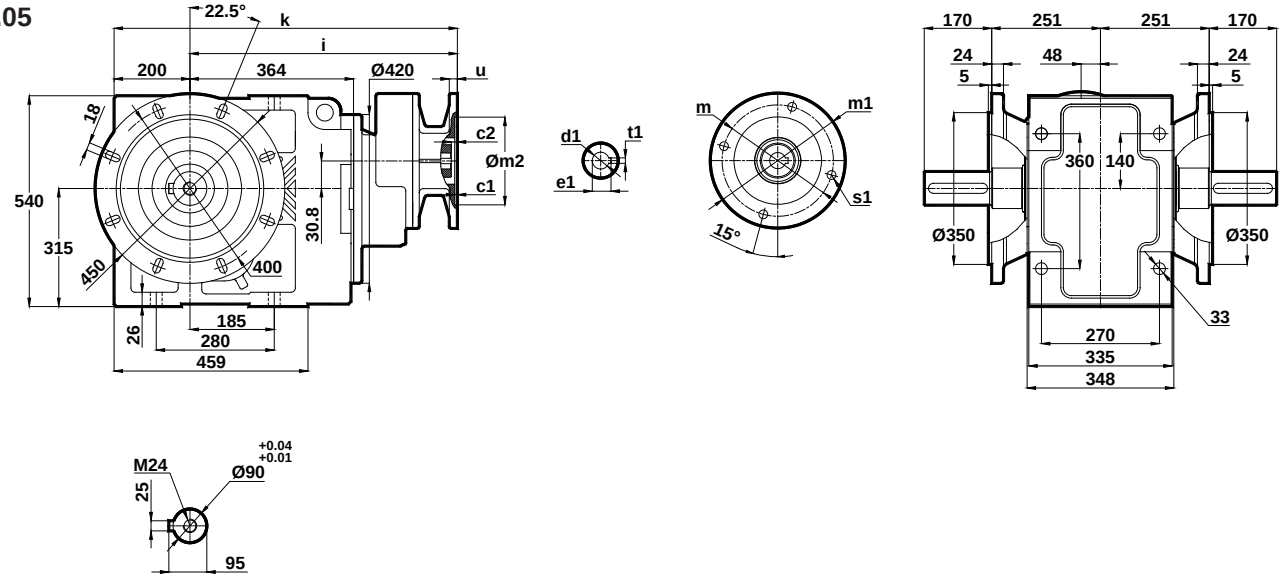
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN774.04



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
90/B5	4	5	12	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

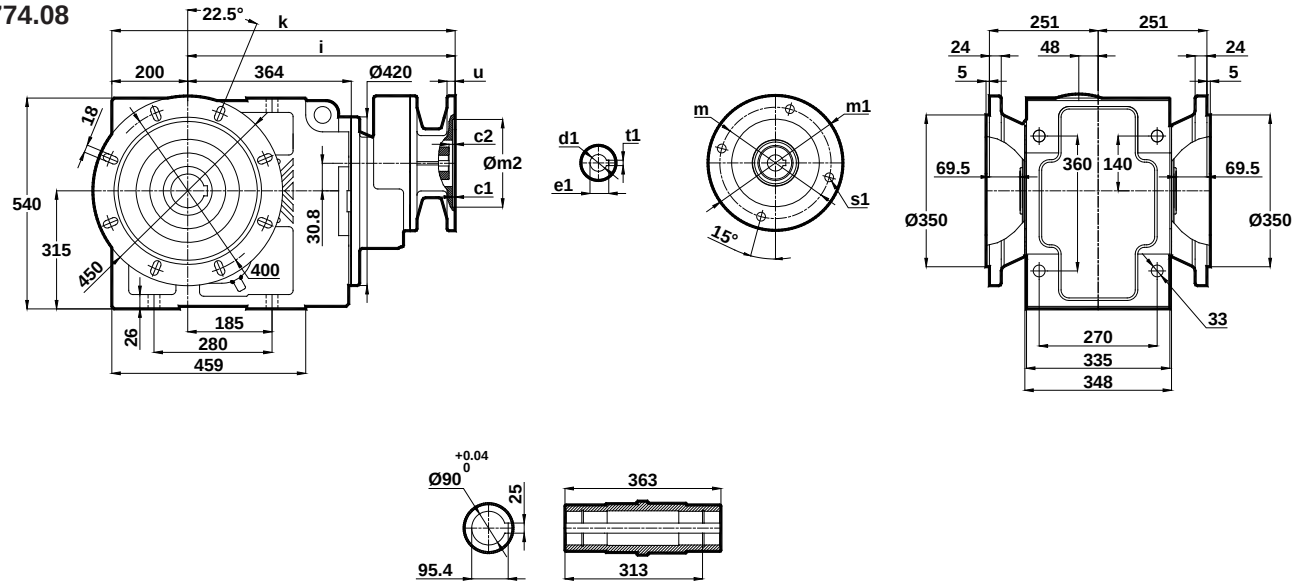
KN774.05



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
90/B5	4	5	12	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

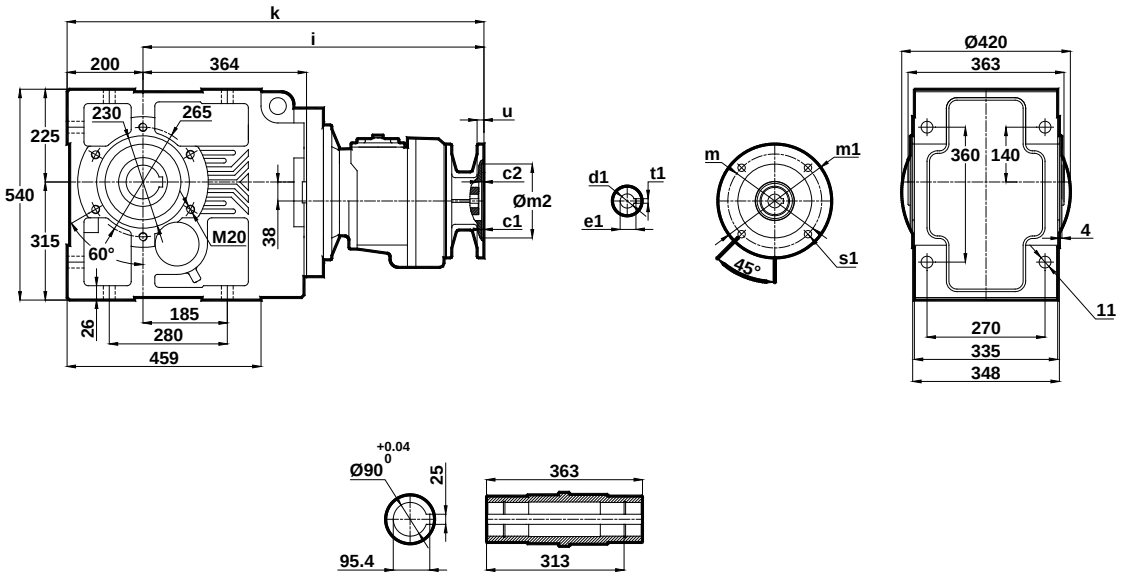
KN774.08



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
90/B5	4	5	12	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

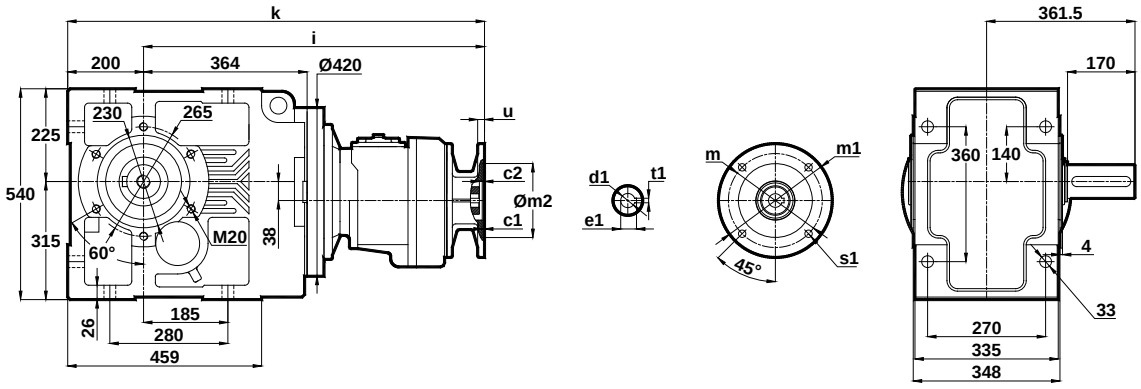
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

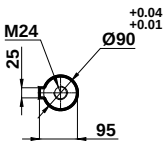
KN775.00
KN776.00



	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	12	165	200	130	674	12	874	19	6	21,8
90/B5	4	9	12	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





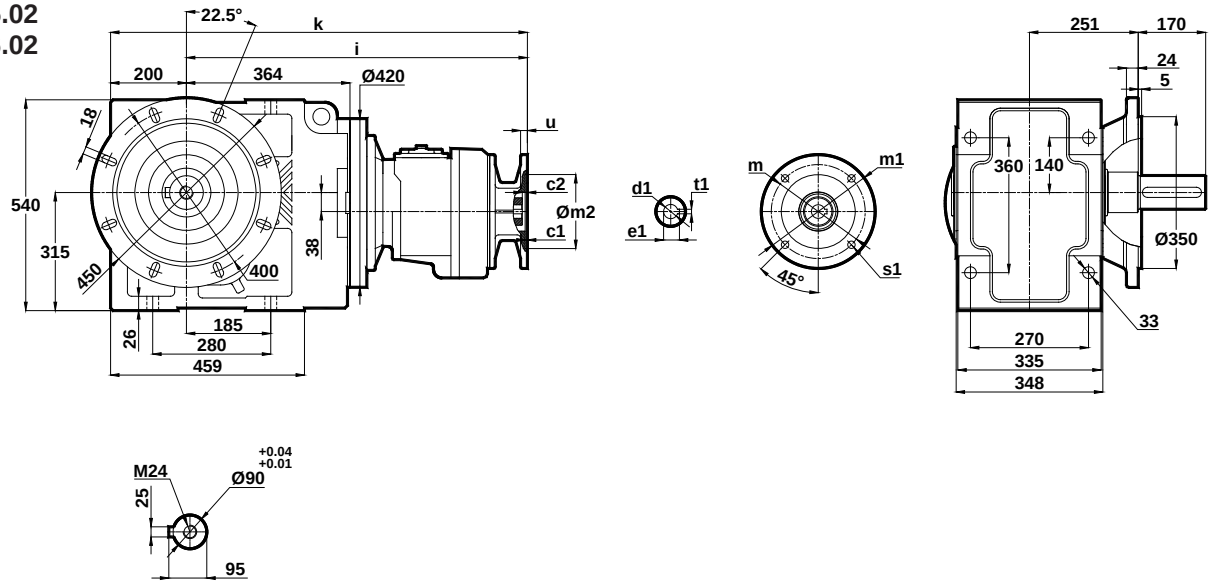
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	674	12	874	14	5	16,3
80/B5	4	9	12	165	200	130	674	12	874	19	6	21,8
90/B5	4	9	12	165	200	130	674	12	874	24	8	27,3
100/B5	4,5	9	15	215	250	180	691	15	891	28	8	31,3



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

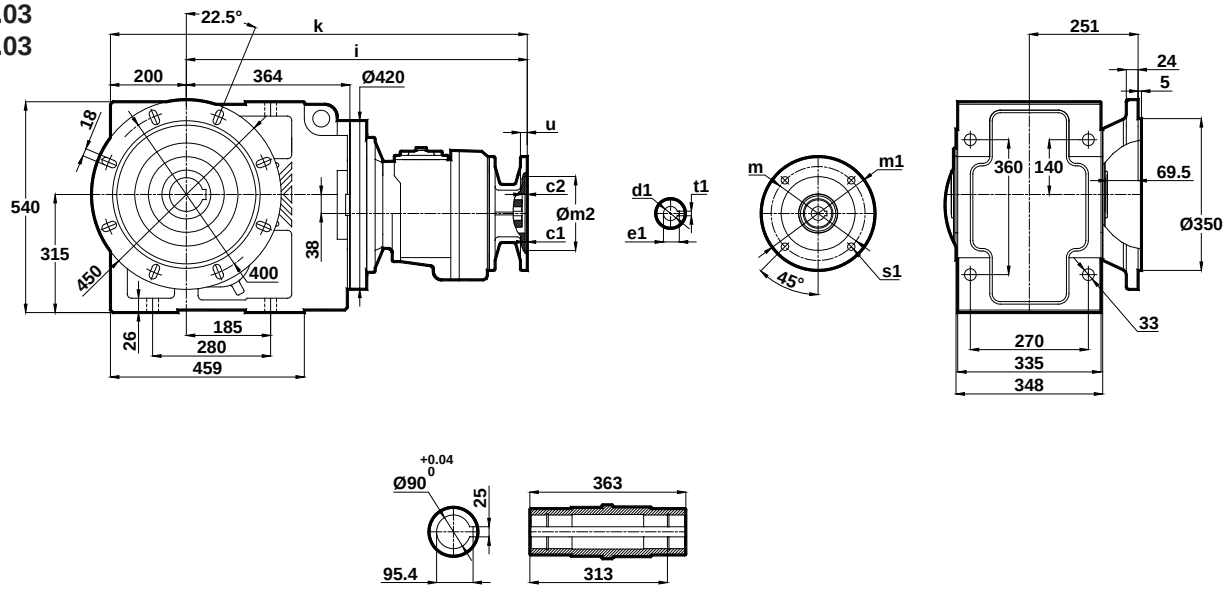
Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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

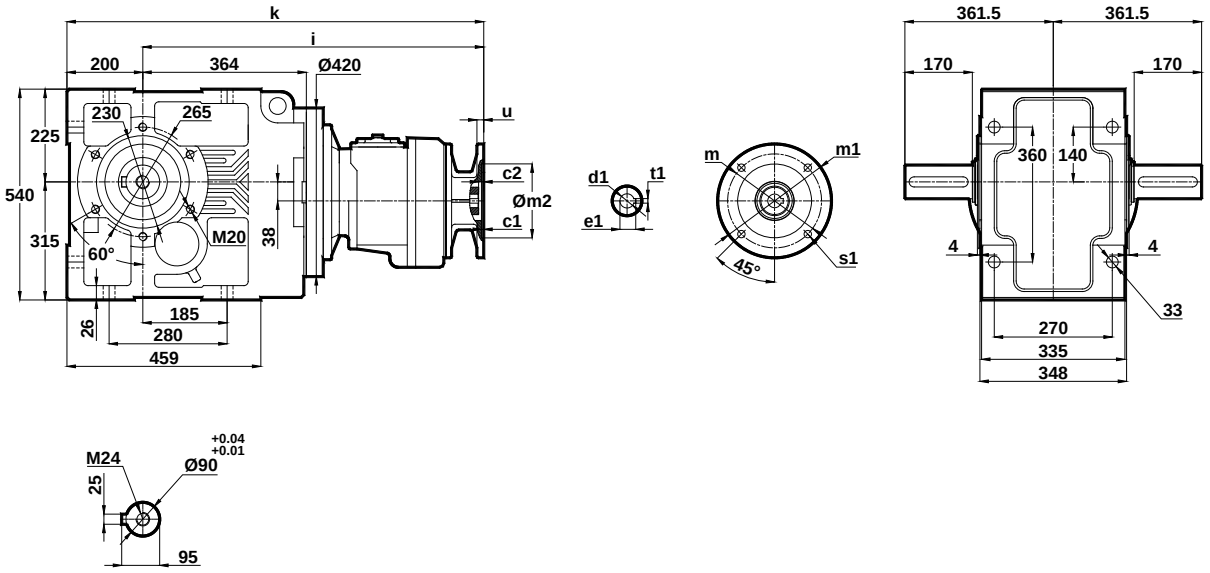
KN775.03
KN776.03



	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	12	165	200	130	674	12	874	19	6	21,8
90/B5	4	9	12	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

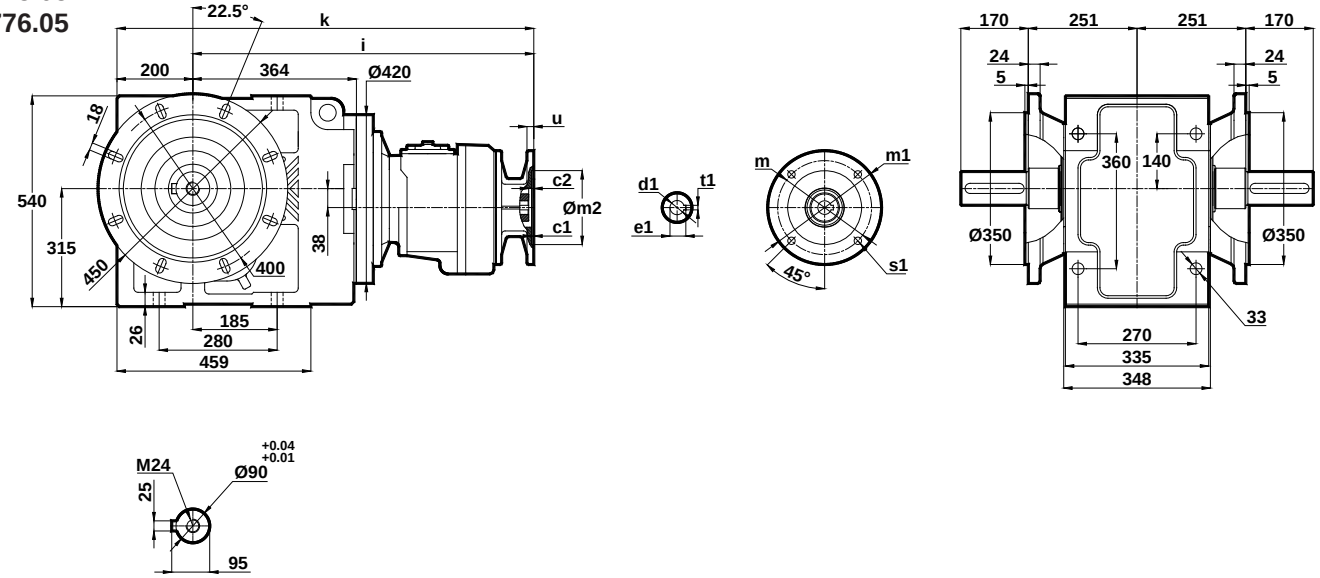
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	674	12	874	19	6	21,8
90/B5	4	9	12	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

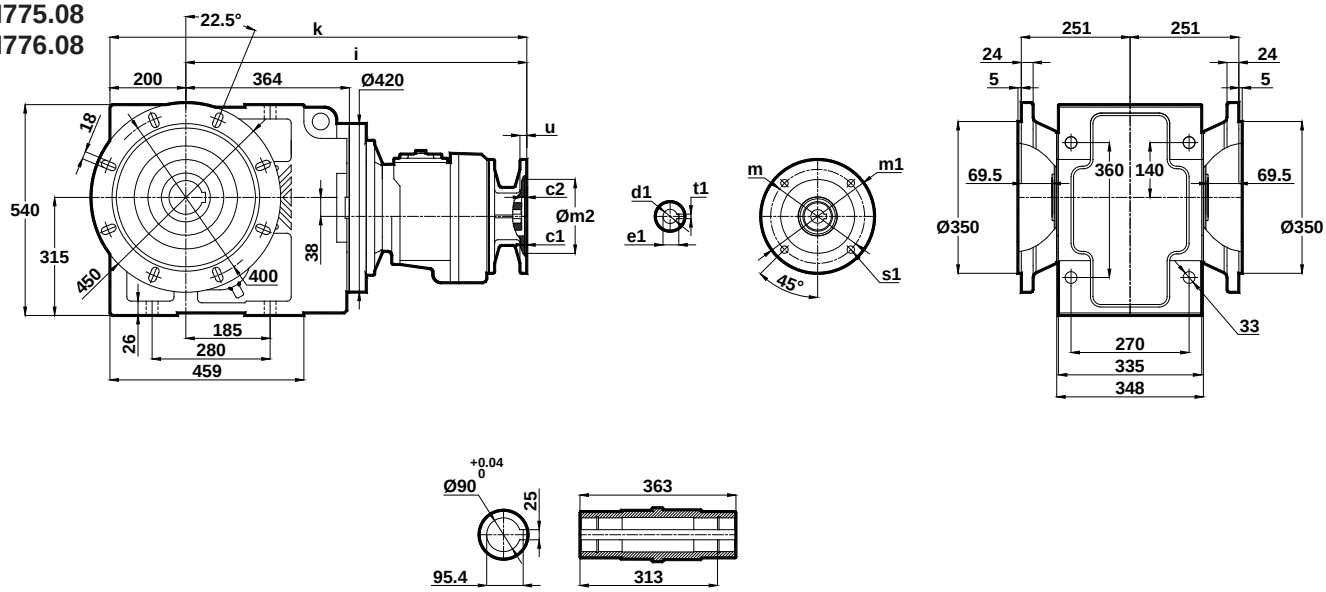
KN775.05
KN776.05



	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	12	165	200	130	674	12	874	19	6	21,8
90/B5	4	9	12	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

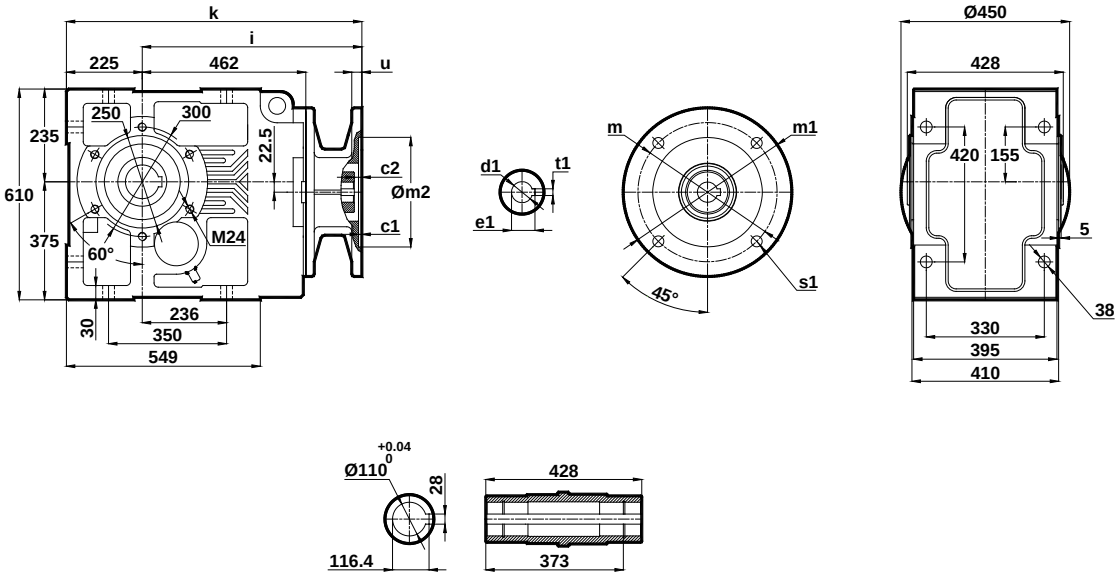
KN775.08
KN776.08



	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	12	165	200	130	674	12	874	19	6	21,8
90/B5	4	9	12	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

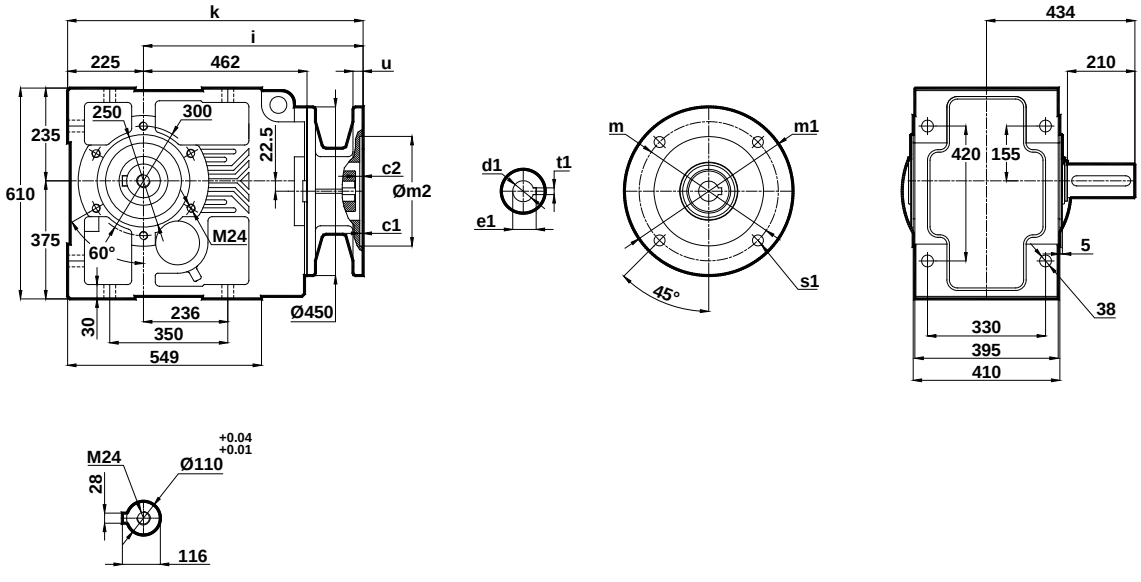
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN873.00



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
132/B5	4,5	14	15	265	300	230	535	15	760	38	10	41,3
160/B5	5,5	10	19	300	350	250	680	20	905	42	12	45,3
180/B5	5,5	10	19	300	350	250	680	20	905	48	14	51,8
200/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



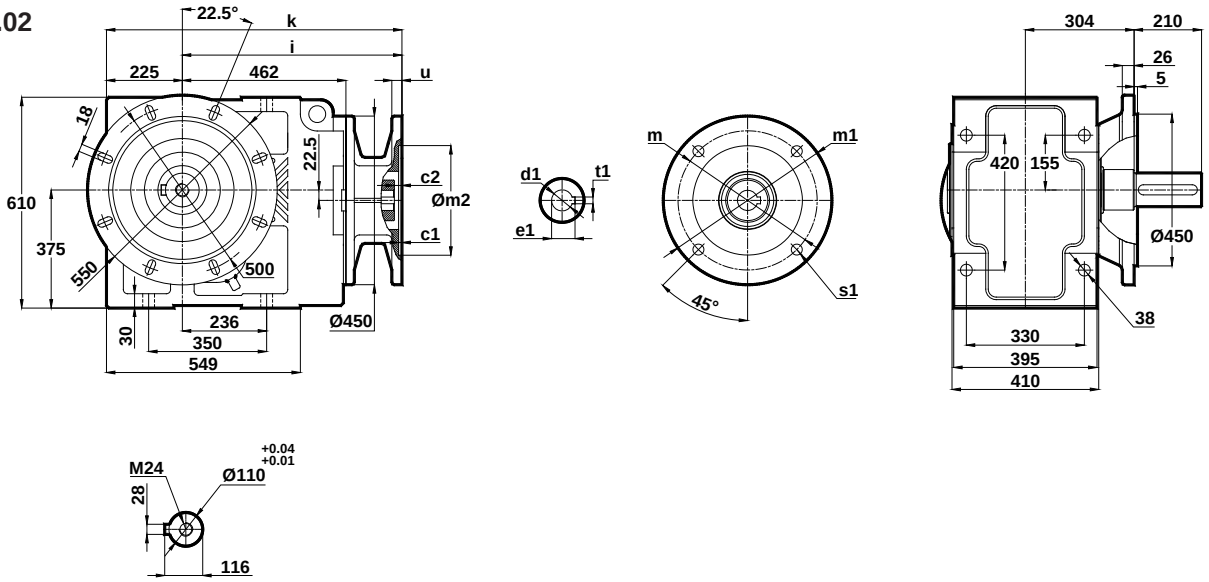
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
132/B5	4,5	14	15	265	300	230	535	15	760	38	10	41,3
160/B5	5,5	10	19	300	350	250	680	20	905	42	12	45,3
180/B5	5,5	10	19	300	350	250	680	20	905	48	14	51,8
200/B4	5,5	10	19	350	400	300	680	22	905	55	16	59,3
225/B5	5,5	10	19	400	450	350	680	24	905	60	18	64,4
250/B5	5,5	10	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



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

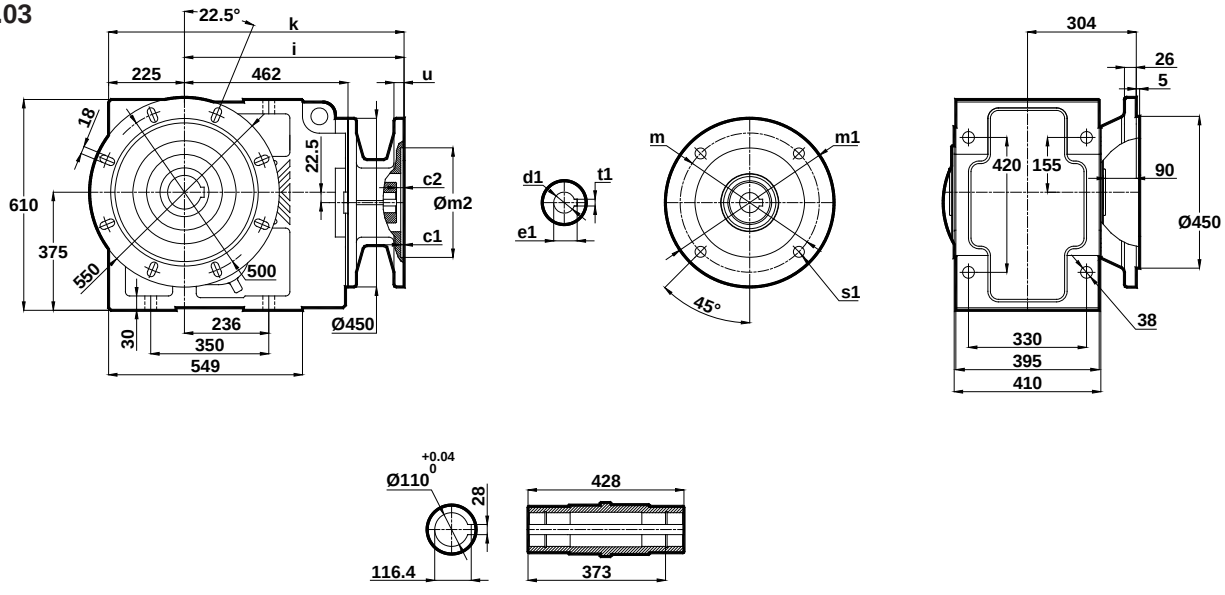
Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN873.02



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
132/B5	4,5	14	15	265	300	230	535	15	760	38	10	41,3
160/B5	5,5	10	19	300	350	250	680	20	905	42	12	45,3
180/B5	5,5	10	19	300	350	250	680	20	905	48	14	51,8
200/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

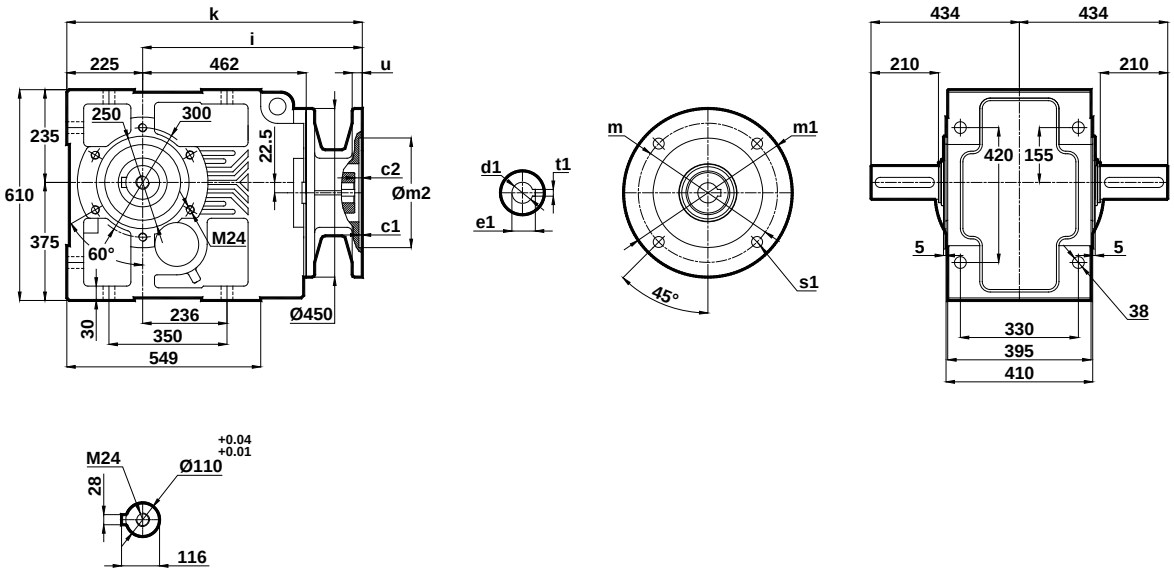
KN873.03



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
132/B5	4,5	14	15	265	300	230	535	15	760	38	10	41,3
160/B5	5,5	10	19	300	350	250	680	20	905	42	12	45,3
180/B5	5,5	10	19	300	350	250	680	20	905	48	14	51,8
200/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

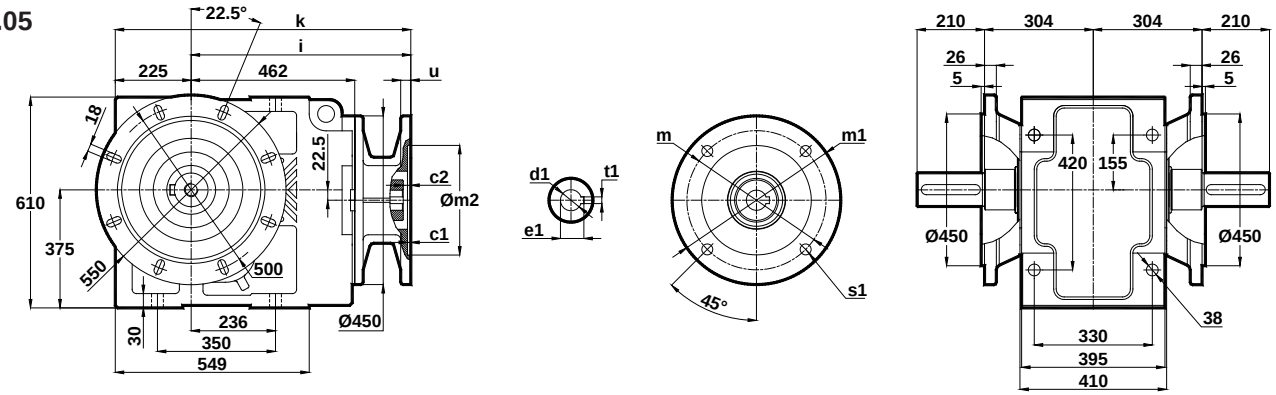
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

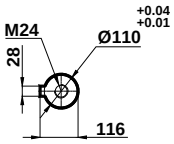
KN873.04



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
132/B5	4,5	14	15	265	300	230	535	15	760	38	10	41,3
160/B5	5,5	10	19	300	350	250	680	20	905	42	12	45,3
180/B5	5,5	10	19	300	350	250	680	20	905	48	14	51,8
200/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

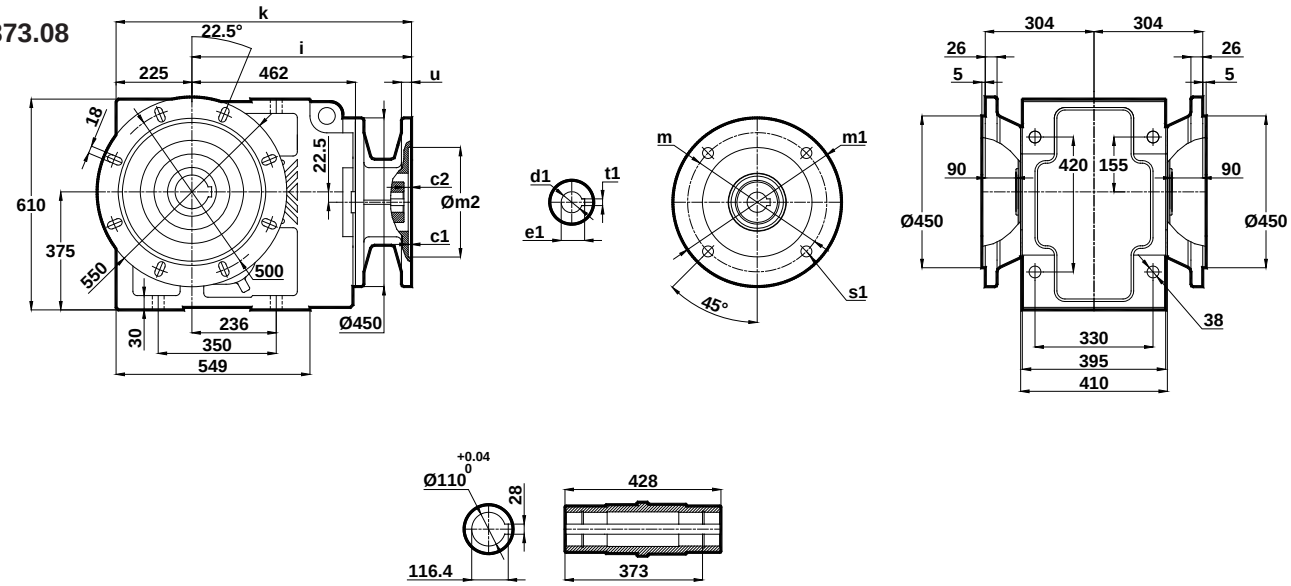




	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
132/B5	4,5	14	15	265	300	230	535	15	760	38	10	41,3
160/B5	5,5	10	19	300	350	250	680	20	905	42	12	45,3
180/B5	5,5	10	19	300	350	250	680	20	905	48	14	51,8
200/B4	5,5	10	19	350	400	300	680	22	905	55	16	59,3
225/B5	5,5	10	19	400	450	350	680	24	905	60	18	64,4
250/B5	5,5	10	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

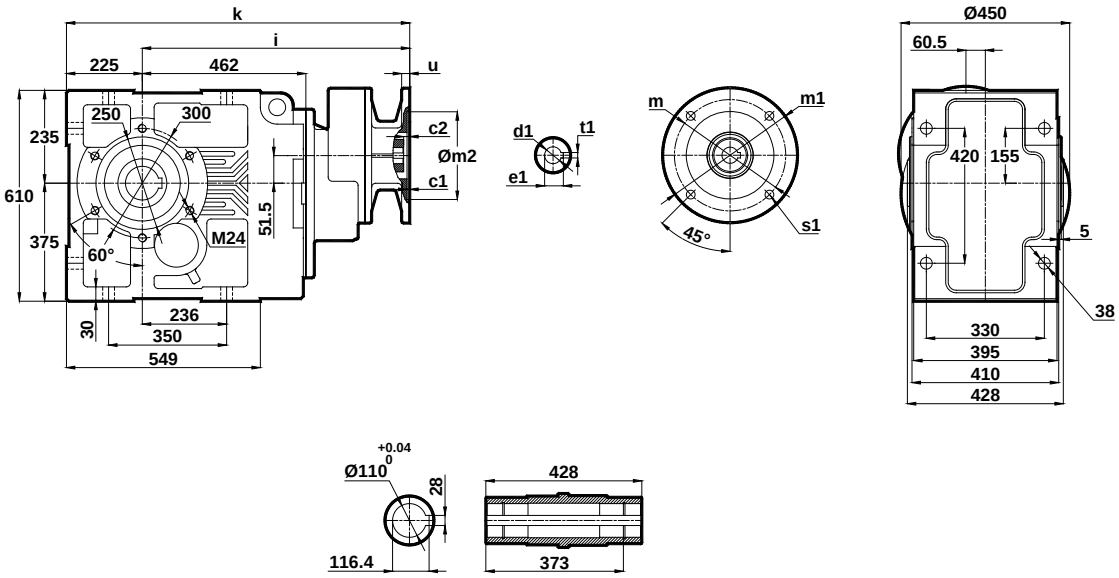
KN873.08



	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
132/B5	4,5	14	15	265	300	230	535	15	760	38	10	41,3
160/B5	5,5	10	19	300	350	250	680	20	905	42	12	45,3
180/B5	5,5	10	19	300	350	250	680	20	905	48	14	51,8
200/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

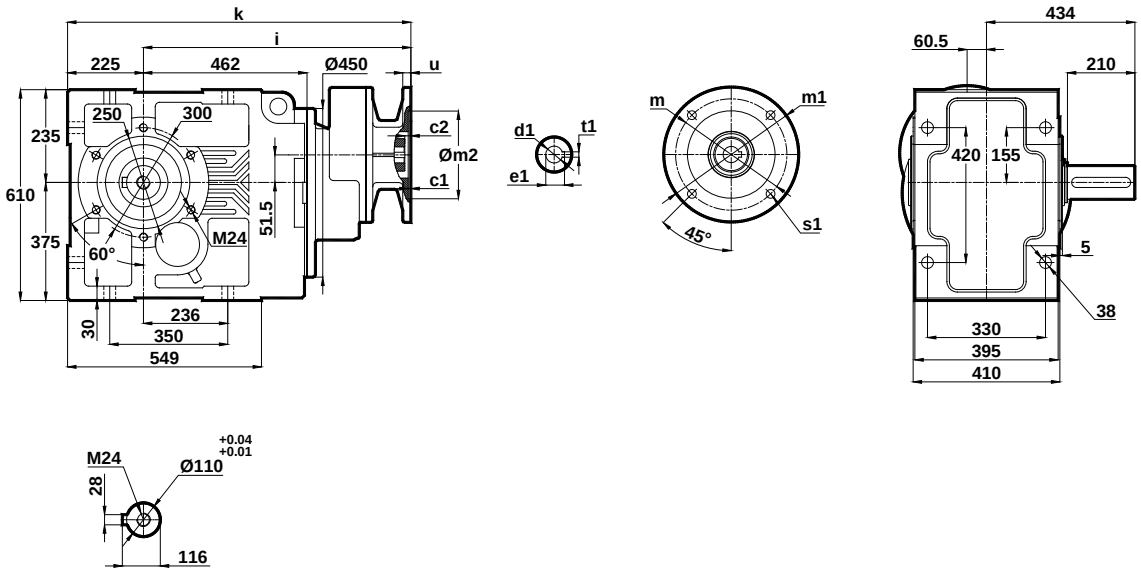
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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



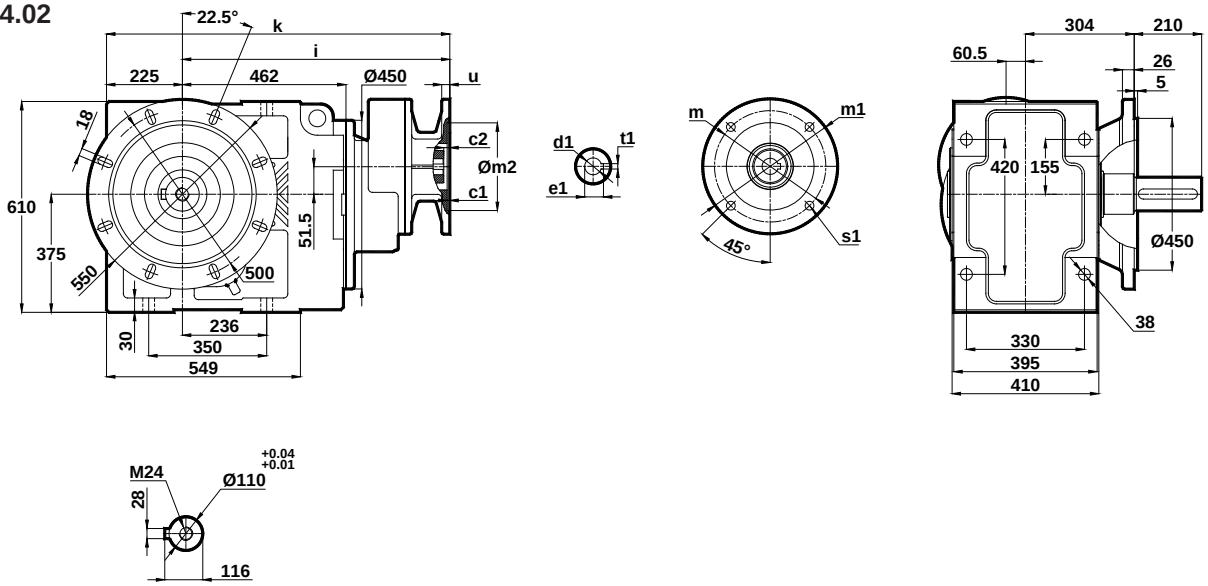
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
100/B5	4,5	20	15	215	250	180	653	15	878	28	8	31,3
112/B5	4,5	20	15	215	250	180	653	15	878	28	8	31,3
132/B5	4,5	9	15	265	300	230	674	15	899	38	10	41,3
160/B5	5,5	10	19	300	350	250	749	18	974	42	12	45,3
180/B5	5,5	10	19	300	350	250	749	18	974	48	14	51,8



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

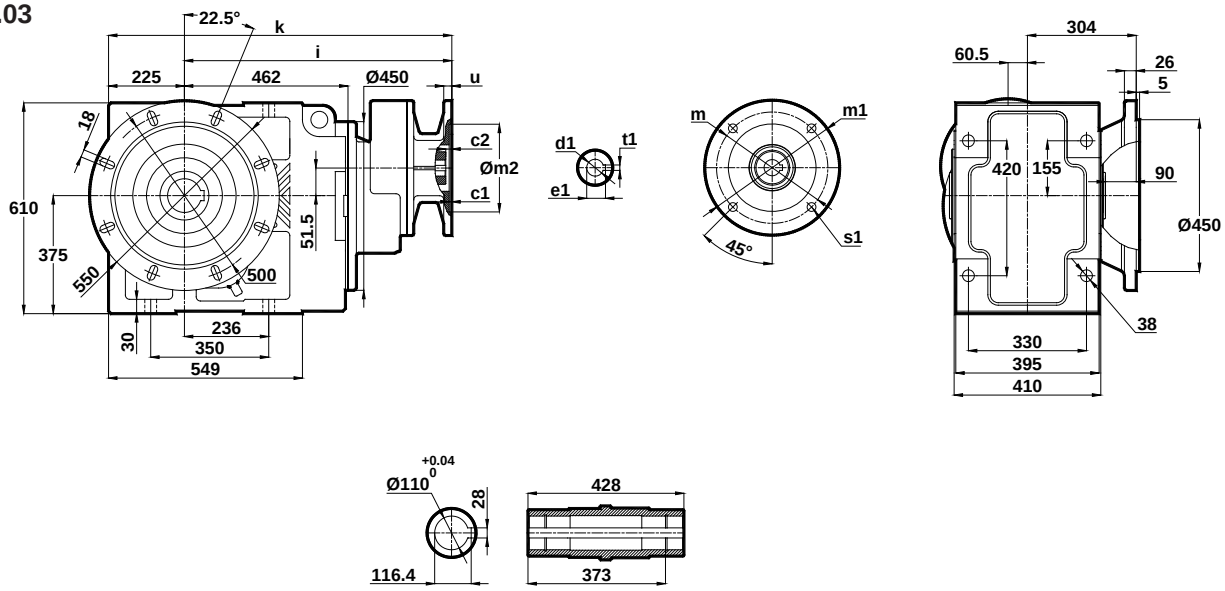
Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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

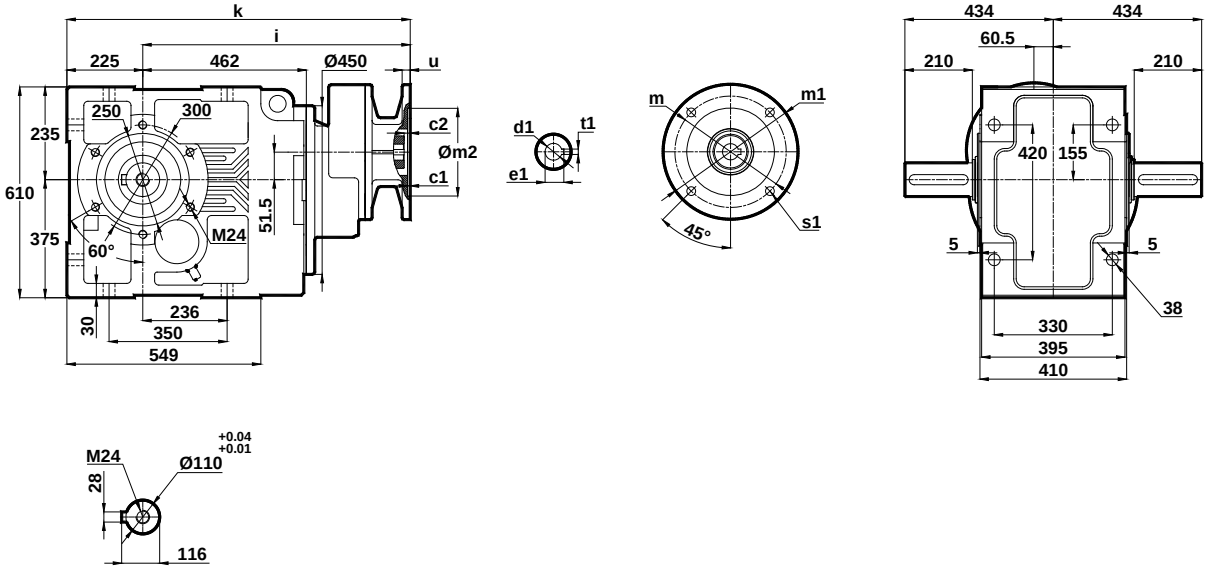
KN874.03



	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

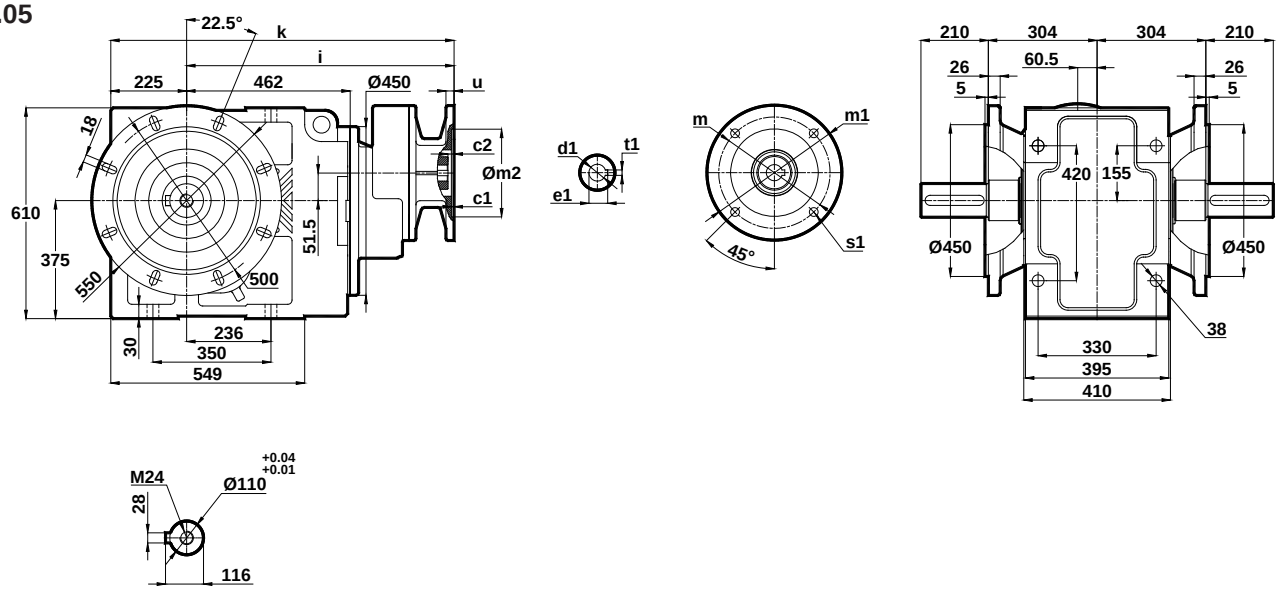
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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

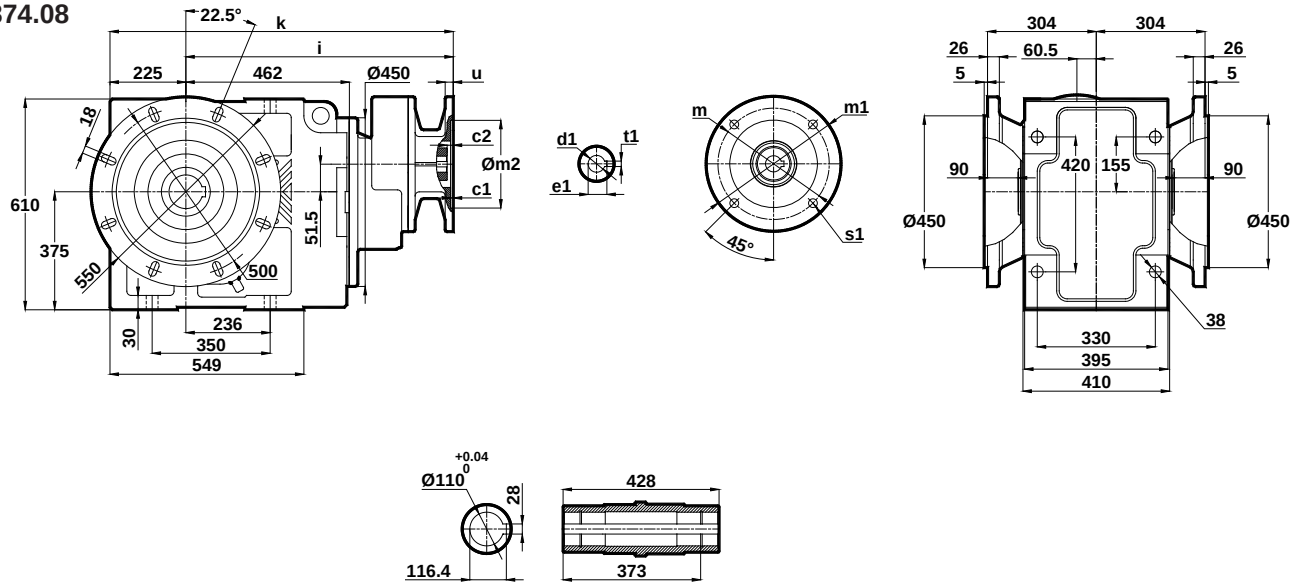
KN874.05



	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

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN874.08



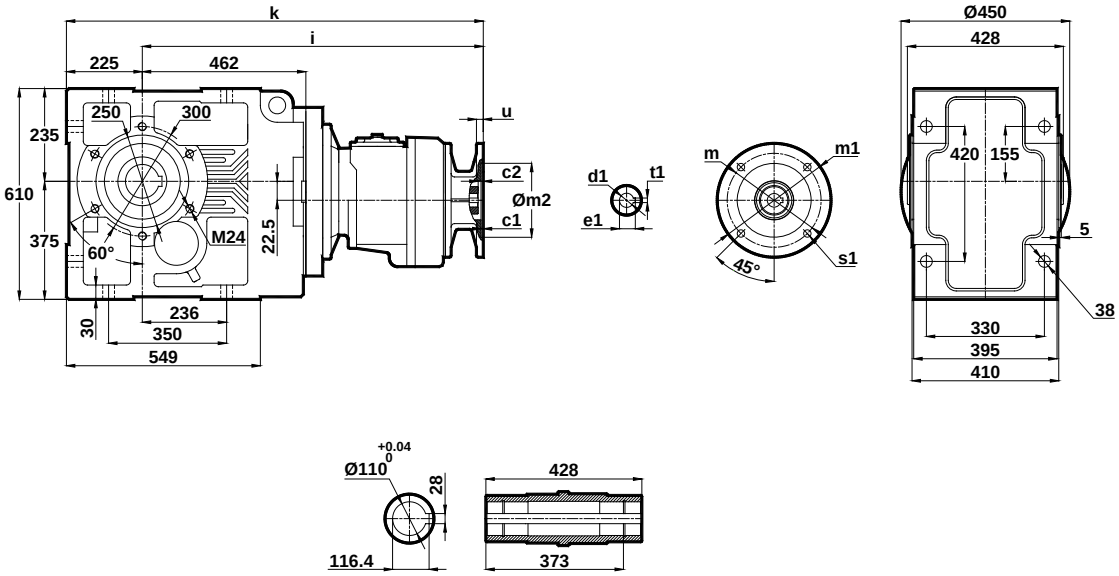
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
100/B5	4,5	20	15	215	250	180	653	15	878	28	8	31,3
112/B5	4,5	20	15	215	250	180	653	15	878	28	8	31,3
132/B5	4,5	9	15	265	300	230	674	15	899	38	10	41,3
160/B5	5,5	10	19	300	350	250	749	18	974	42	12	45,3
180/B5	5,5	10	19	300	350	250	749	18	974	48	14	51,8



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

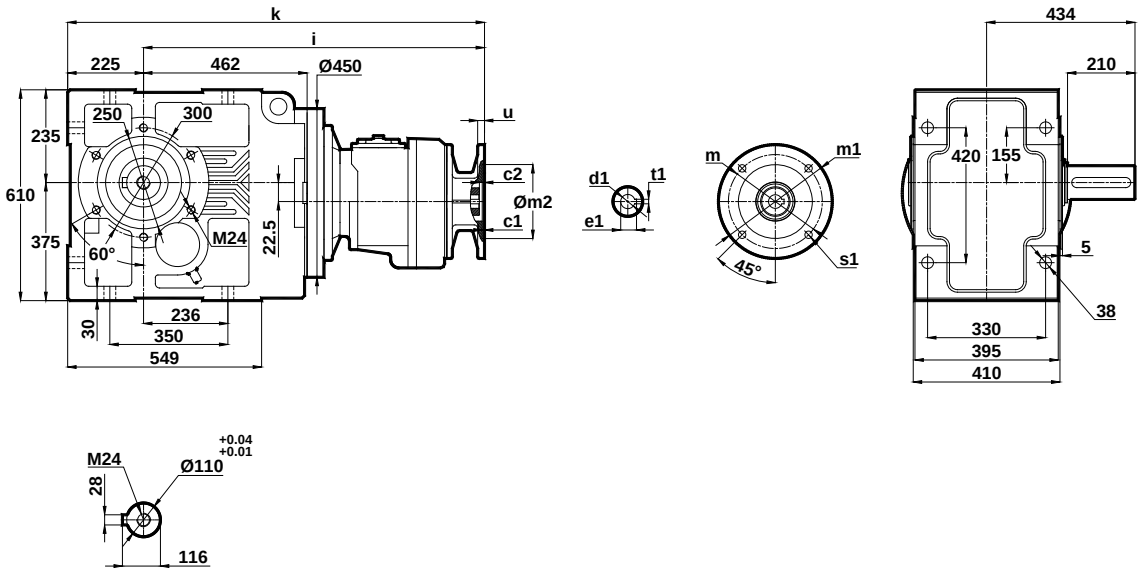
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	772	12	997	19	6	21,8
90/B5	4	9	12	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

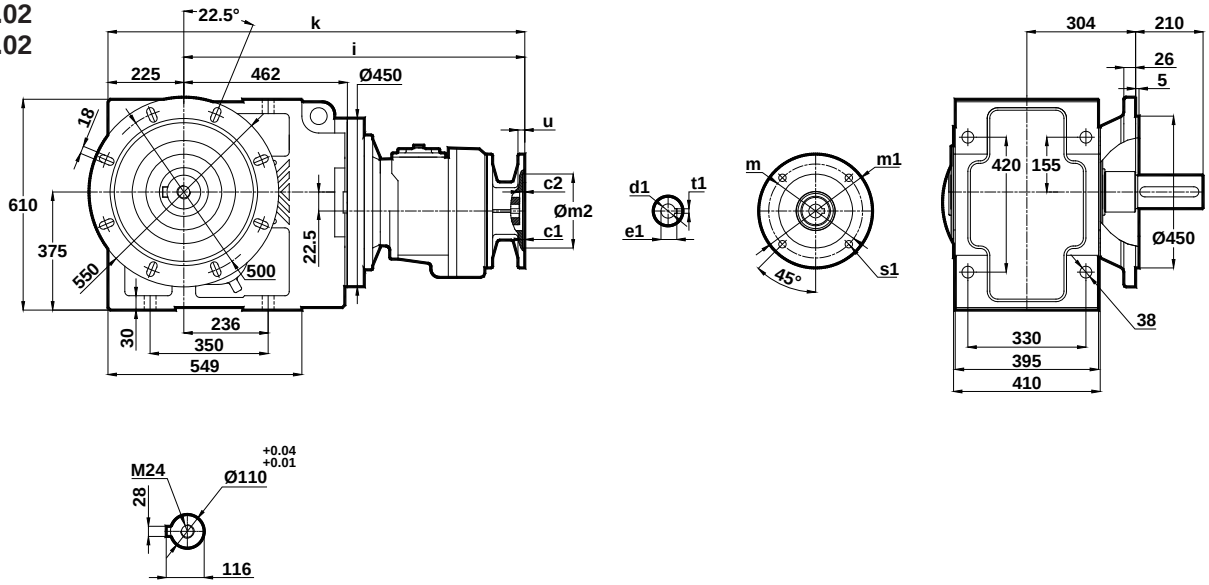
KN875.01
KN876.01



	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	12	165	200	130	772	12	997	19	6	21,8
90/B5	4	9	12	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

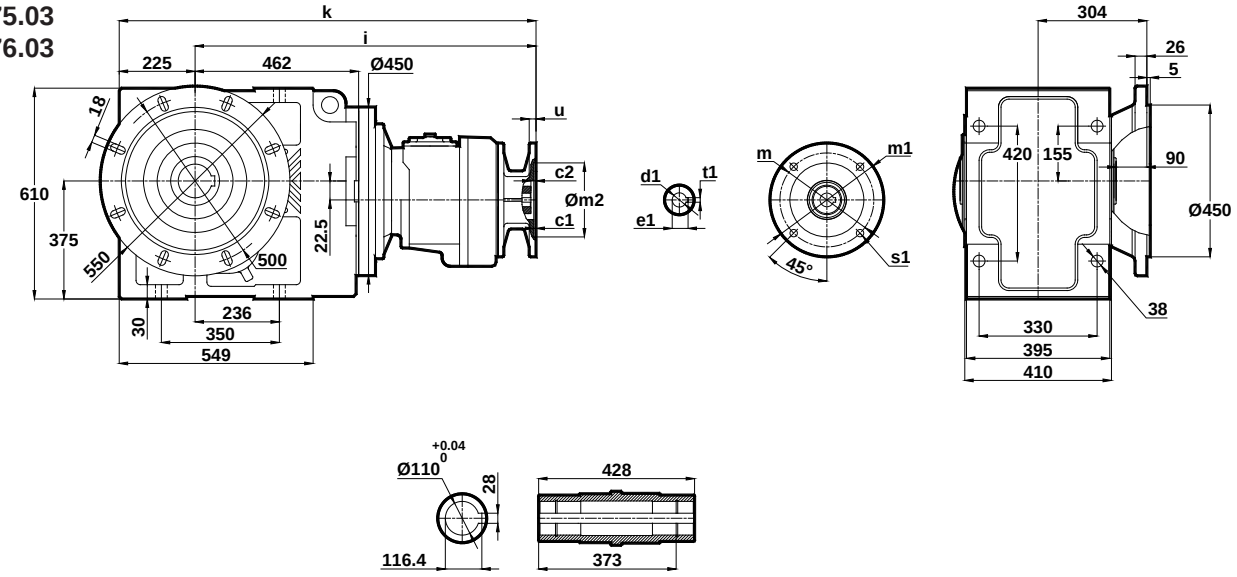
Foro di centraggio filettato secondo DIN 332 foglio 2 / - *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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	12	165	200	130	772	12	997	19	6	21,8
90/B5	4	9	12	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

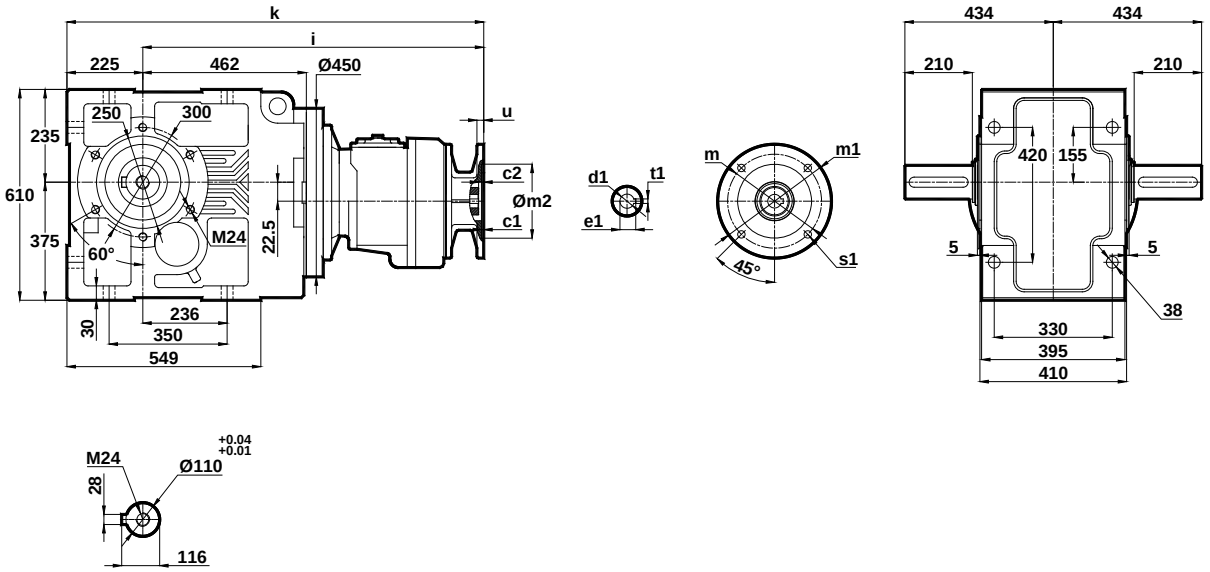
KN875.03
KN876.03



	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	12	165	200	130	772	12	997	19	6	21,8
90/B5	4	9	12	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

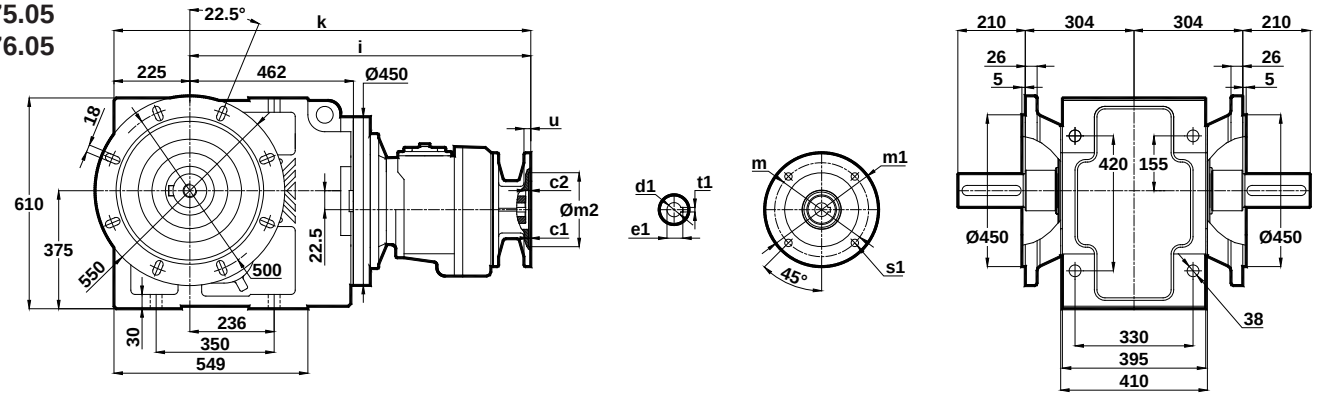
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

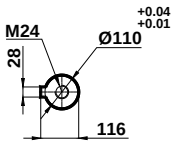
KN875.04
KN876.04



	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	12	165	200	130	772	12	997	19	6	21,8
90/B5	4	9	12	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





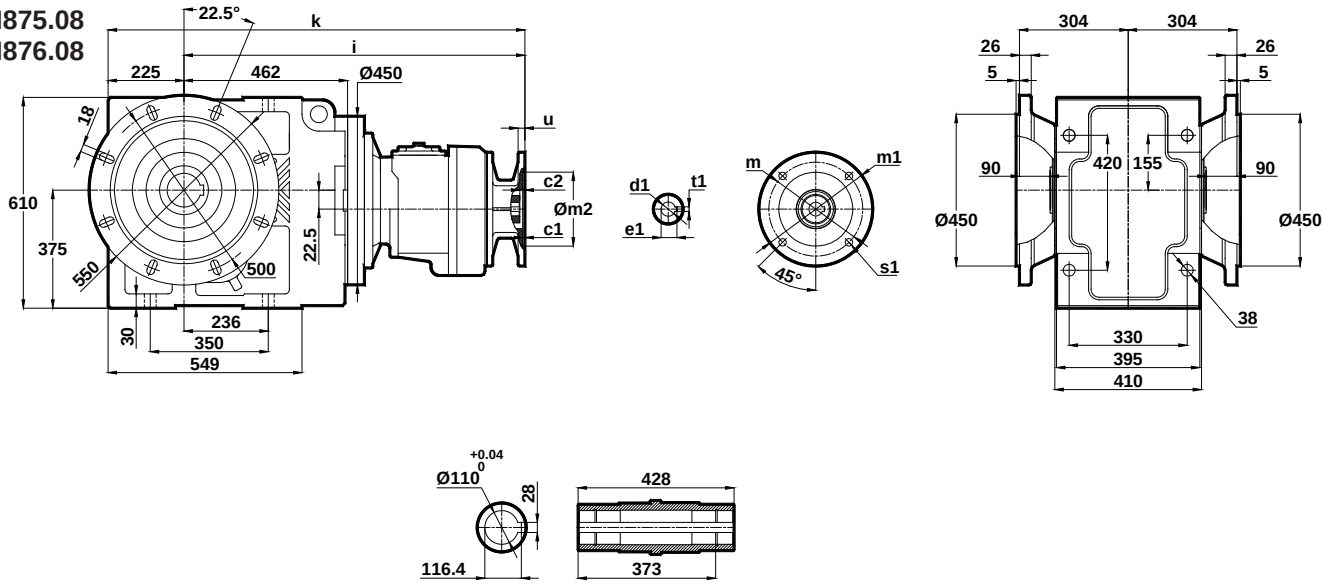
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	772	12	997	14	5	16,3
80/B5	4	9	12	165	200	130	772	12	997	19	6	21,8
90/B5	4	9	12	165	200	130	772	12	997	24	8	27,3
100/B5	4,5	9	15	215	250	180	789	15	1014	28	8	31,3
112/B5	4,5	9	15	215	250	180	789	15	1014	28	8	31,3



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / **-** *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KN875.08
KN876.08



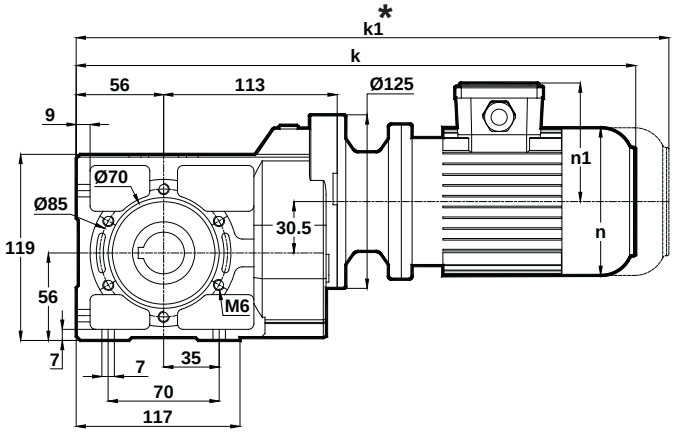
	c1	c2	S1	m	M1	m2	i	u	k	d1	t1	e1
71/B5	4	9	11	130	160	110	772	12	997	14	5	16,3
80/B5	4	9	12	165	200	130	772	12	997	19	6	21,8
90/B5	4	9	12	165	200	130	772	12	997	24	8	27,3
100/B5	4,5	9	15	215	250	180	789	15	1014	28	8	31,3
112/B5	4,5	9	15	215	250	180	789	15	1014	28	8	31,3

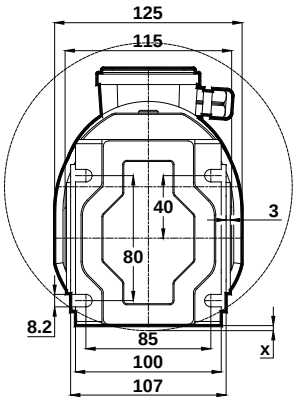


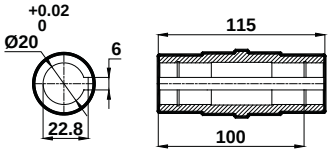
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV002.00
KV003.00



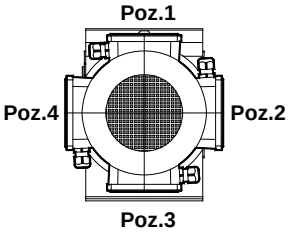




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

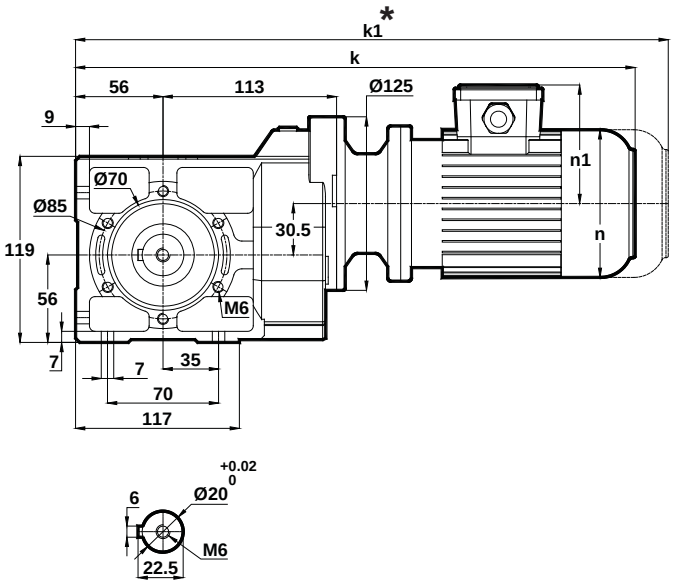
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	375	432,5	467,5	487,5	512,5
k1	428	552,5	587,5	612,5	637,5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	1,5	1,5

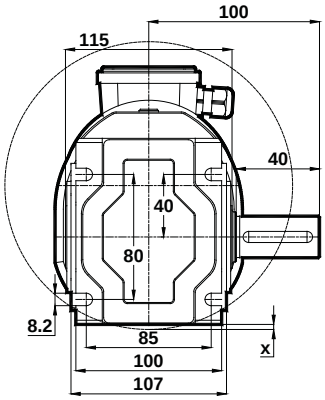
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

KV002.01
KV003.01





x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

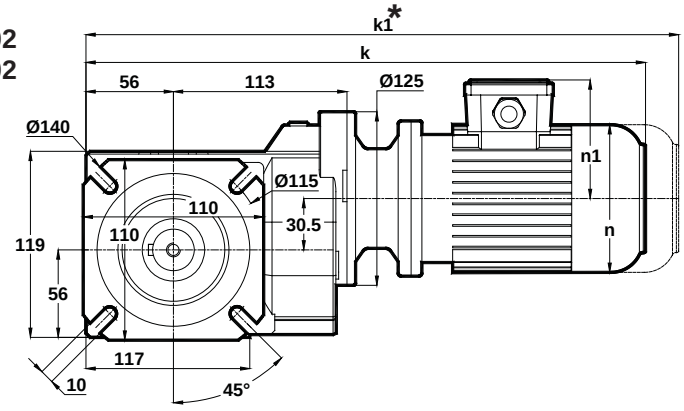
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

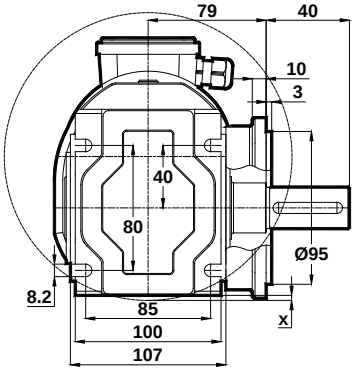


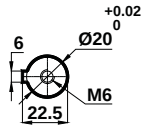
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV002.02
KV003.02



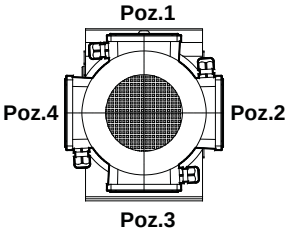




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

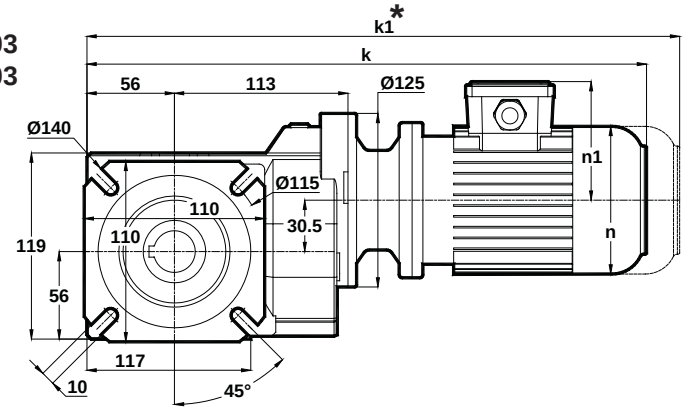
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	375	432,5	467,5	487,5	512,5
k1	428	552,5	587,5	612,5	637,5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	1,5	1,5

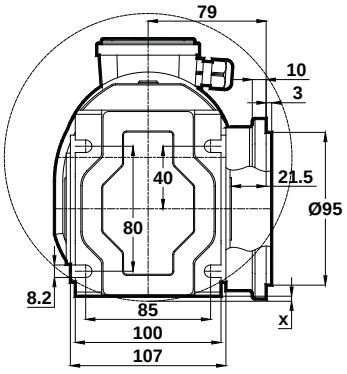
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

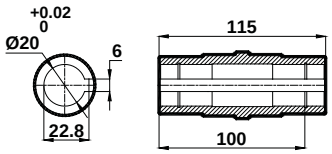


63-71-80-90
Tipo / *Type* **/** Typ

KV002.03
KV003.03







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

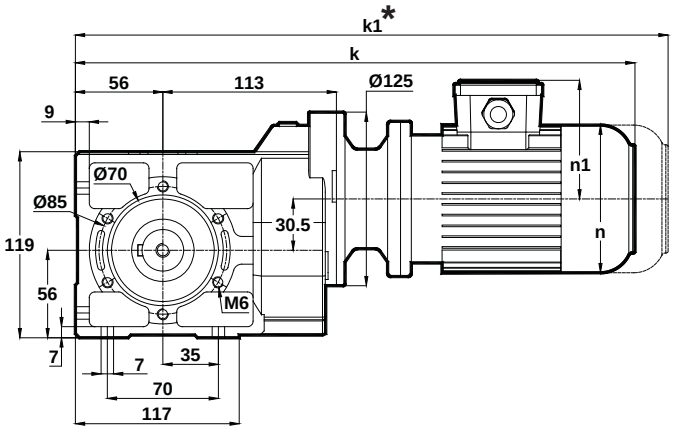
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

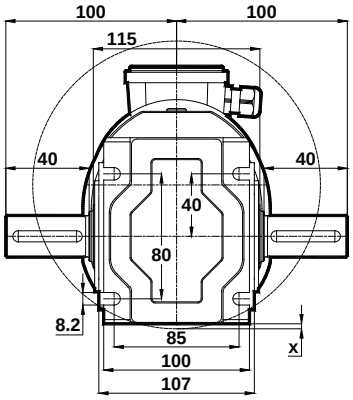


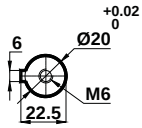
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV002.04
KV003.04



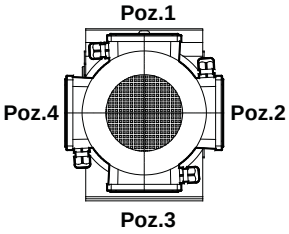




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

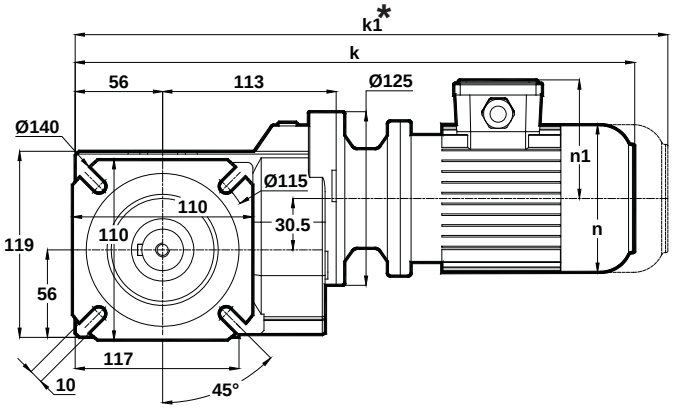
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	375	432,5	467,5	487,5	512,5
k1	428	552,5	587,5	612,5	637,5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	1,5	1,5

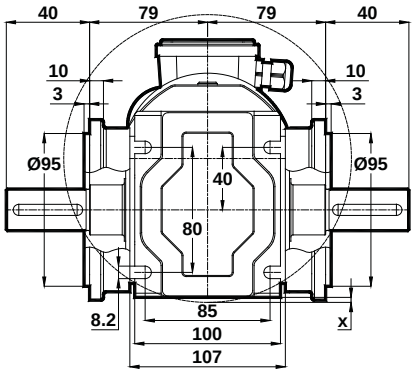
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

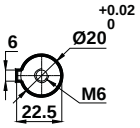


63-71-80-90
Tipo / *Type* **/** Typ

KV002.05
KV003.05







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

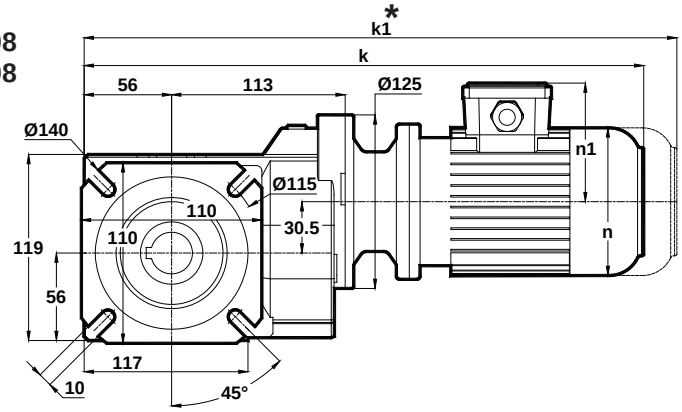
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

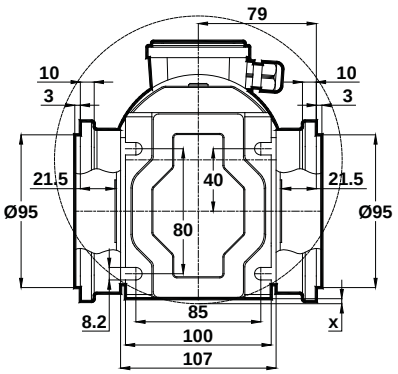


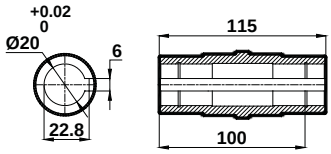
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV002.08
KV003.08



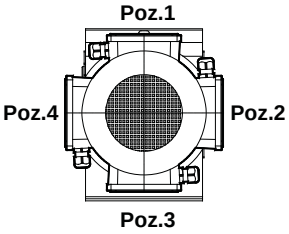




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

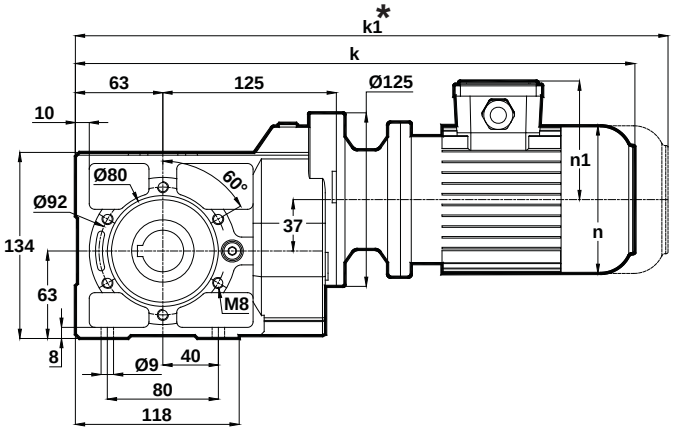
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

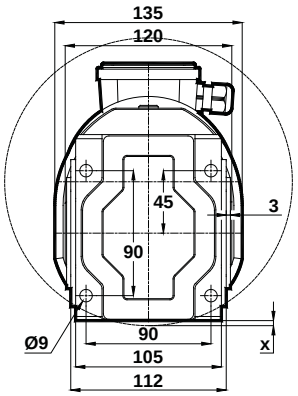


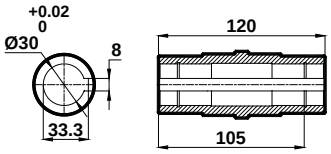
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV102.00
KV103.00



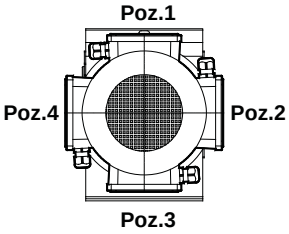




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

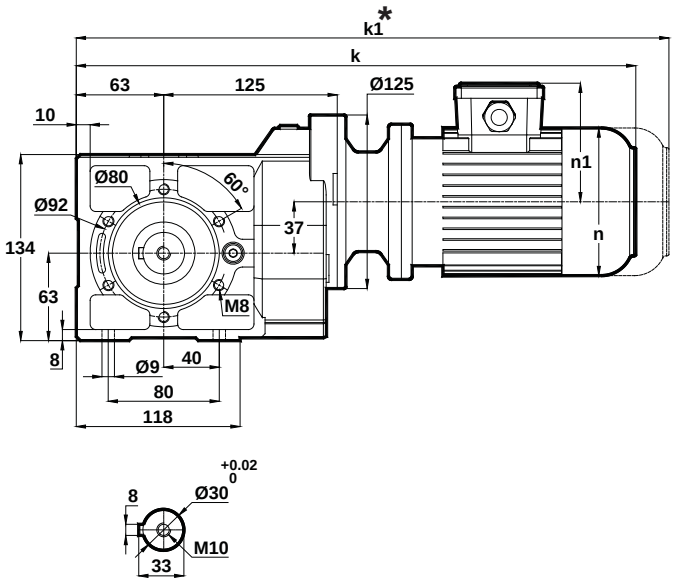
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	394	451,5	486,5	506,5	531,5
k1	447	571,5	606,5	631,5	656,5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	-	-

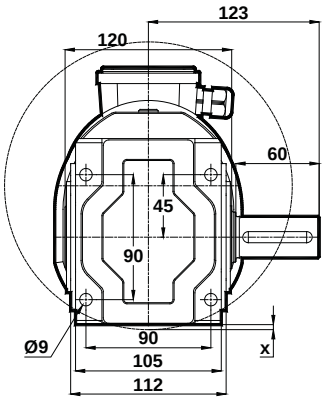
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

KV102.01
KV103.01





x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

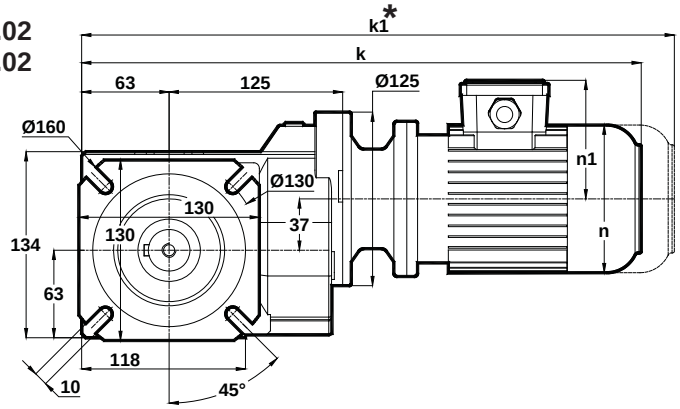
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

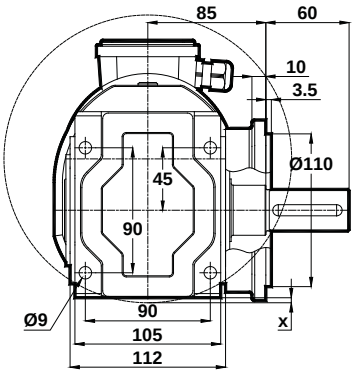


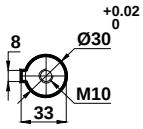
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV102.02
KV103.02



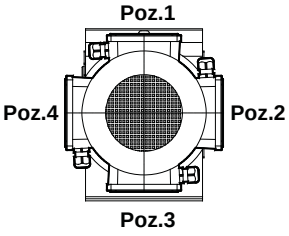




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

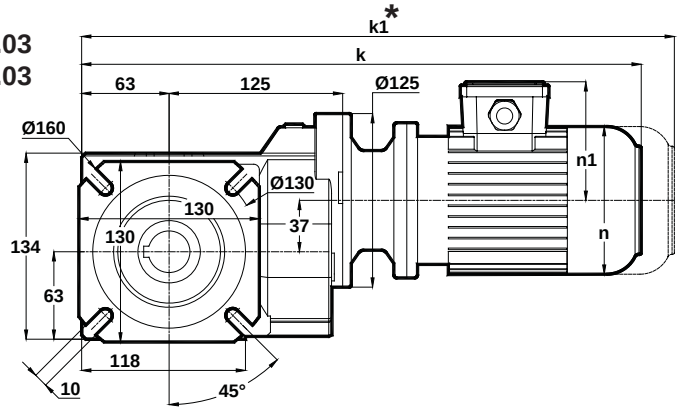
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	394	451,5	486,5	506,5	531,5
k1	447	571,5	606,5	631,5	656,5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	-	-

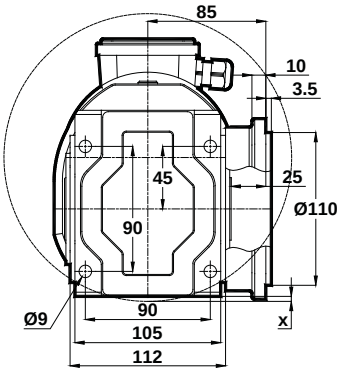
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

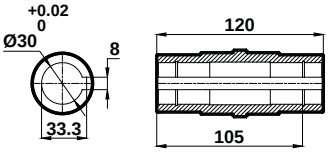


63-71-80-90
Tipo / *Type* **/** Typ

KV102.03
KV103.03







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-

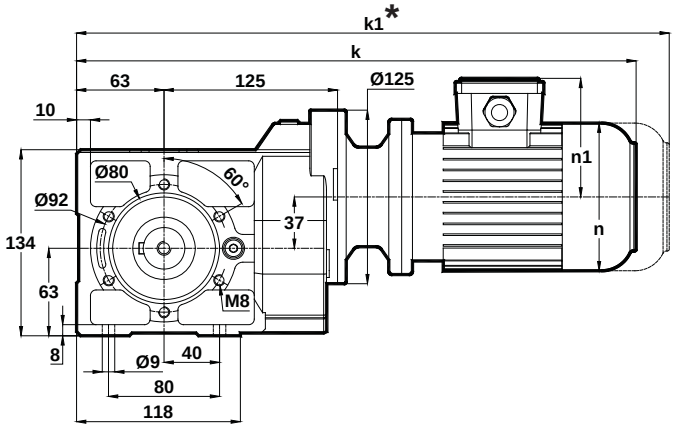
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

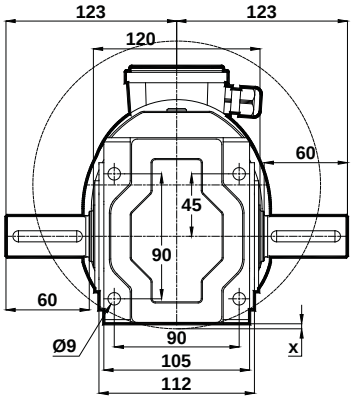


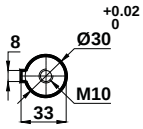
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV102.04
KV103.04



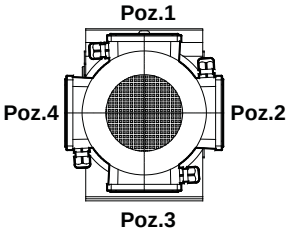




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

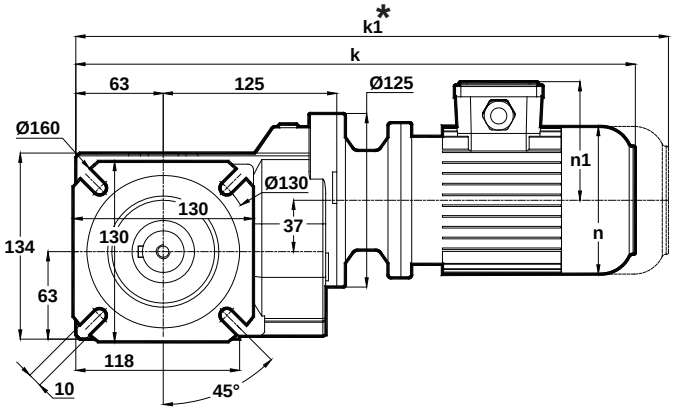
	63/B5	71/B5	80/B5	90S/B5	90L/B5
k	394	451,5	486,5	506,5	531,5
k1	447	571,5	606,5	631,5	656,5
n	116	138	156	176	176
n1	97	110	118	126	126
x	-	-	-	-	-

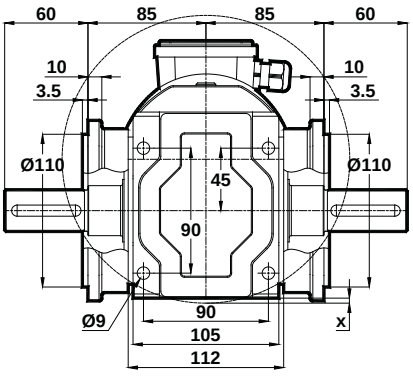
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

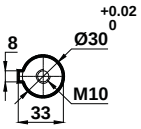


63-71-80-90
Tipo / *Type /* Typ

KV102.05
KV103.05







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

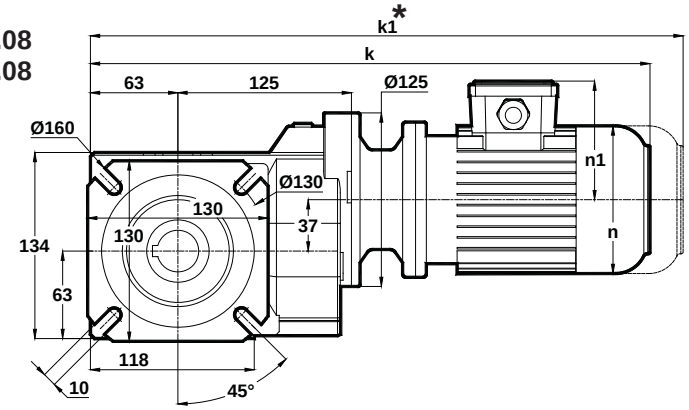
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

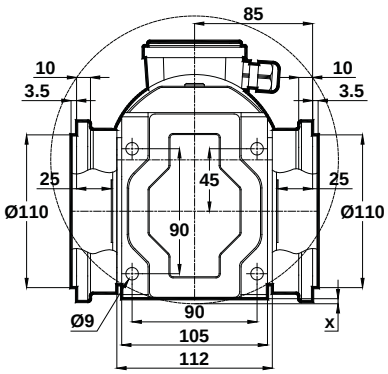


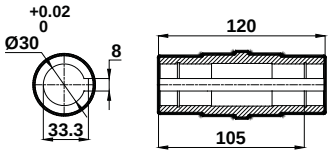
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV102.08
KV103.08



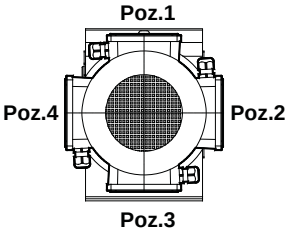




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	-	-	-	-	-

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

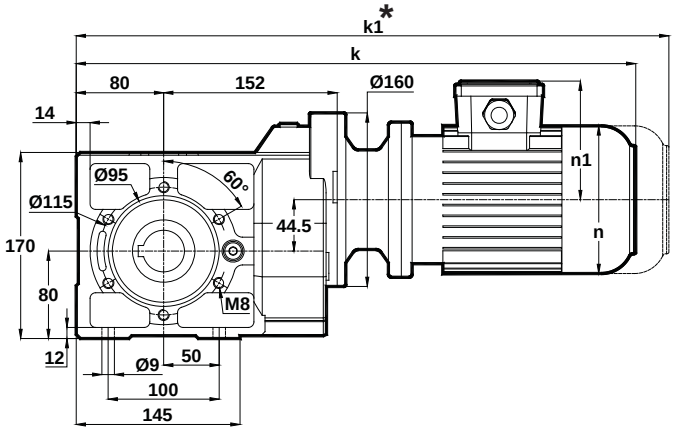
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

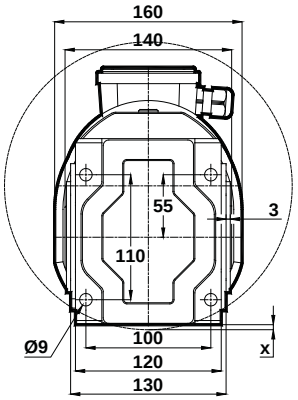


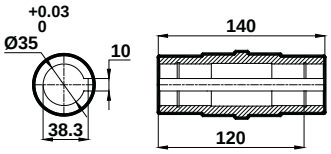
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV202.00
KV203.00



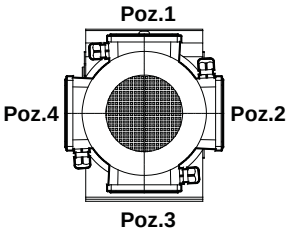




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

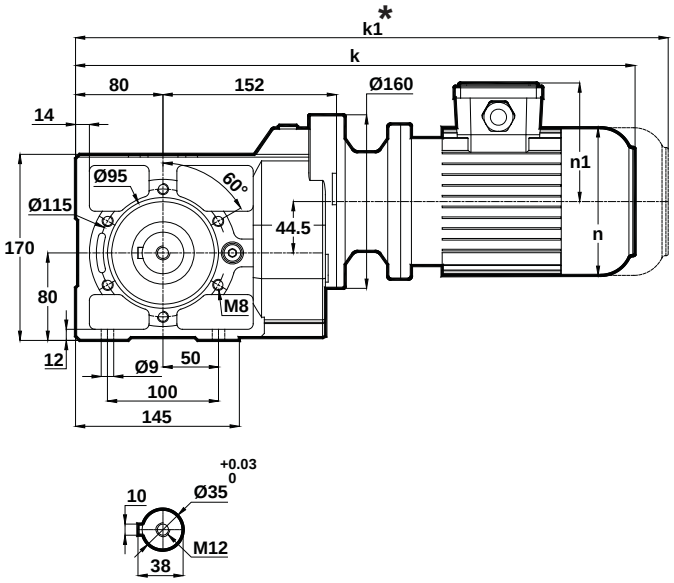
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	468,5	495,5	544,5	564,5	589,5	614,5	634,5
k1	521,5	615,5	664,5	689,5	714,5	749,5	769,5
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	-

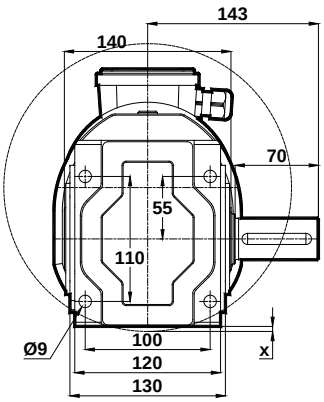
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

KV202.01
KV203.01





x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-	-	-

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

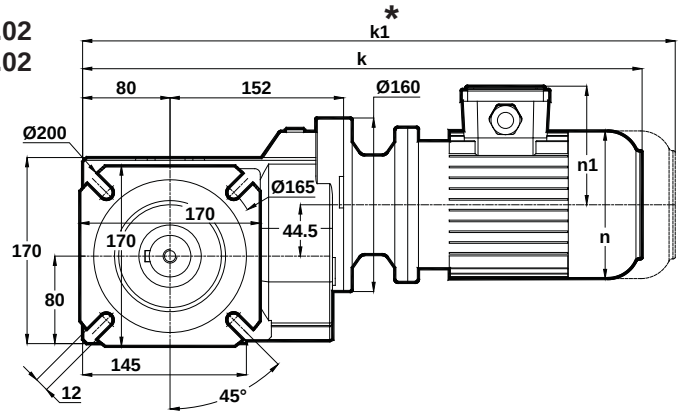
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

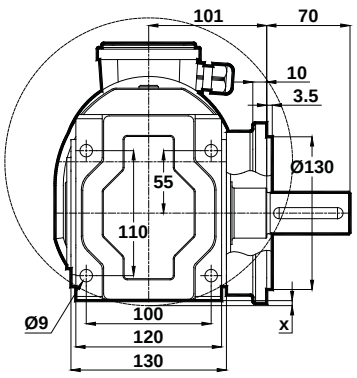


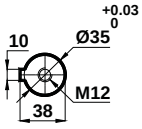
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV202.02
KV203.02



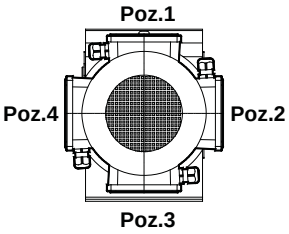




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

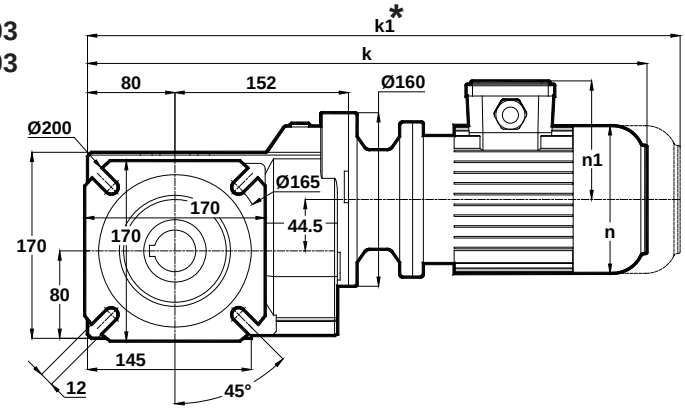
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	468,5	495,5	544,5	564,5	589,5	614,5	634,5
k1	521,5	615,5	664,5	689,5	714,5	749,5	769,5
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	-

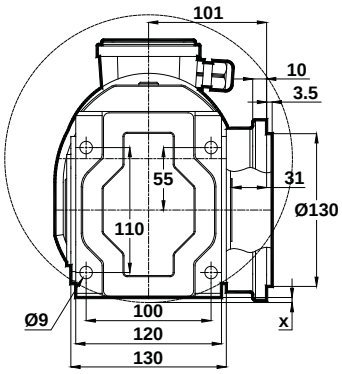
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

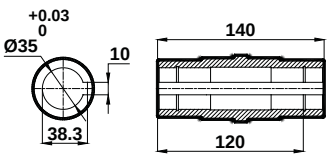


63-71-80-90-100-112
Tipo / *Type* **/** Typ

KV202.03
KV203.03







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-	-	-

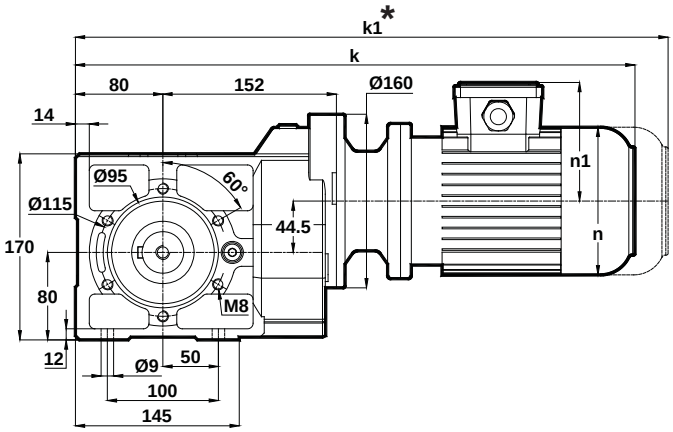
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

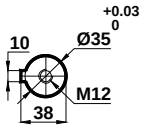


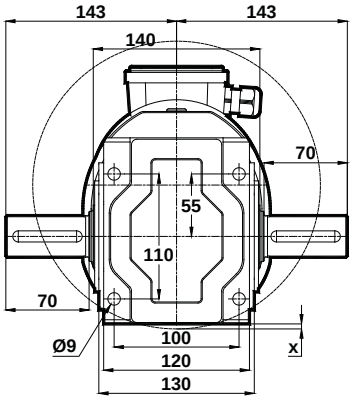
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV202.04
KV203.04



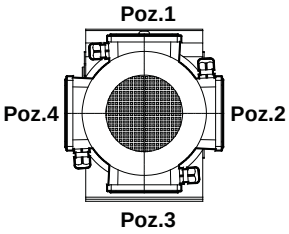




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

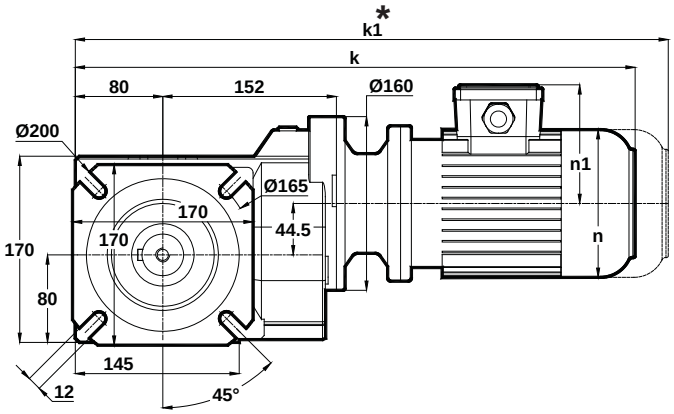
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	468,5	495,5	544,5	564,5	589,5	614,5	634,5
k1	521,5	615,5	664,5	689,5	714,5	749,5	769,5
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	-

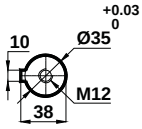
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

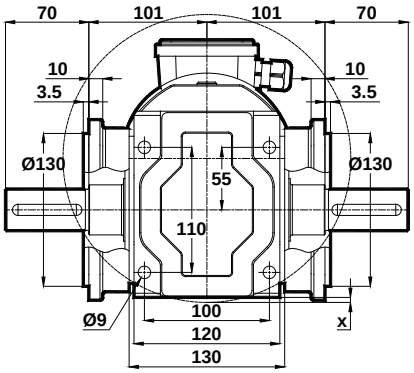


63-71-80-90-100-112
Tipo / *Type /* Typ

KV202.05
KV203.05







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-	-	-

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

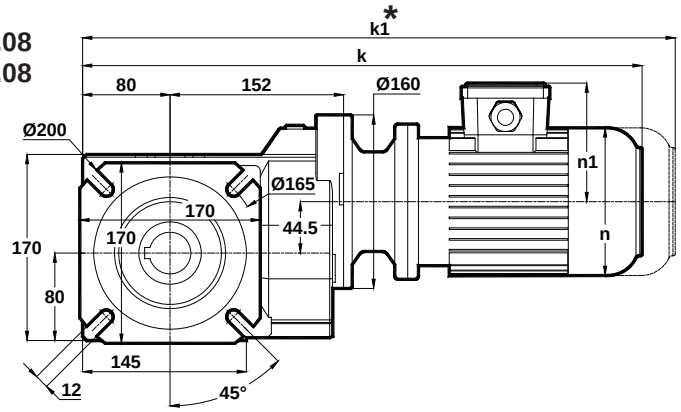
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

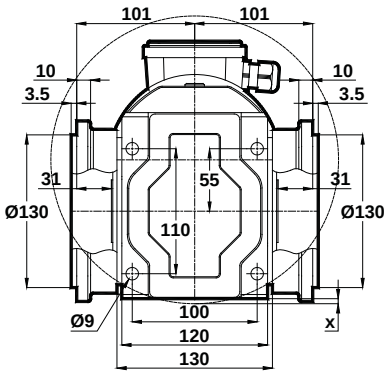


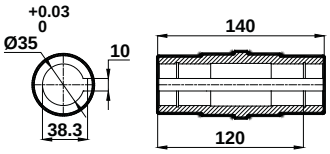
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV202.08
KV203.08



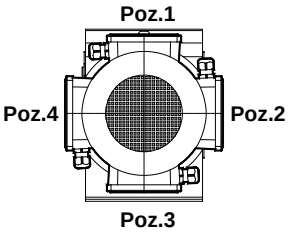




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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	-	-	-	-	-	-	-

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

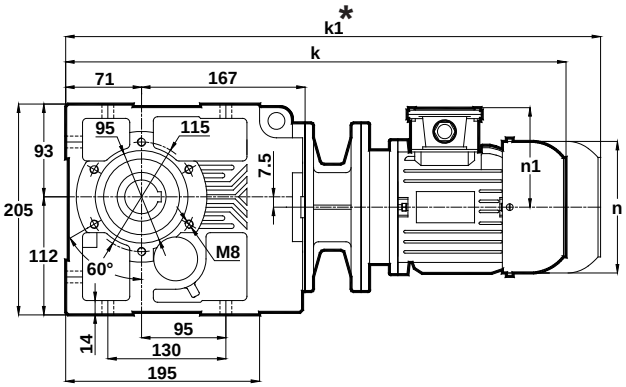
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

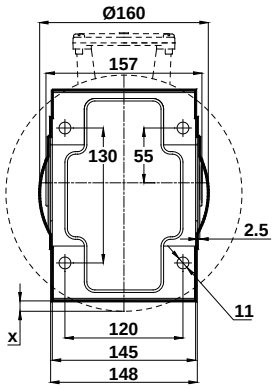


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

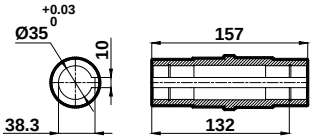
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV273.00

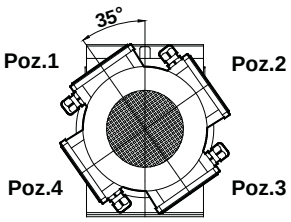




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte



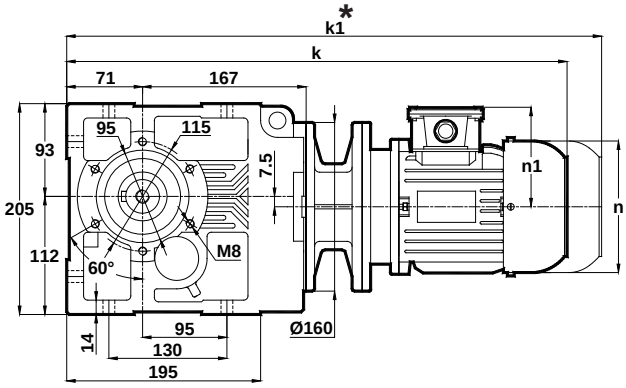
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

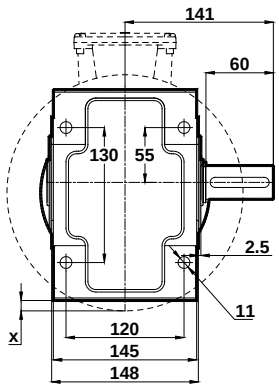


63-71-80-90-100-112
Tipo / *Type /* Typ

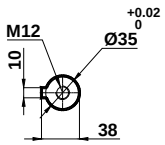
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	505	502	551	571	596	621	641
k1	-	622	671	696	721	756	776
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4,5

KV273.01





x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

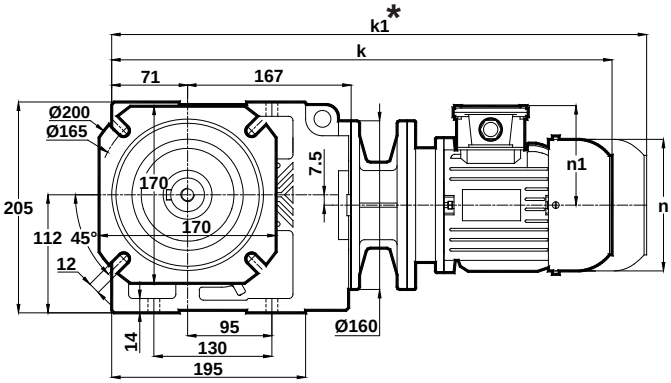
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

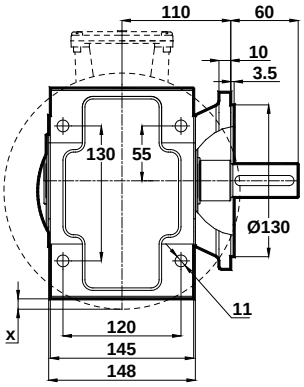


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

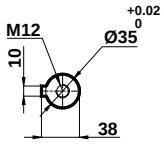
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV273.02



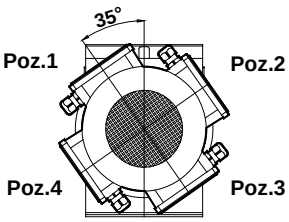


x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte



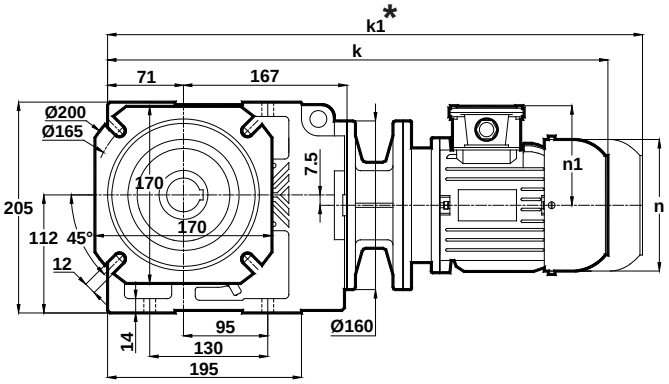
	63/B5	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	505	502	551	571	596	621	641
k1	-	622	671	696	721	756	776
n	116	138	156	176	176	194	218
n1	97	110	118	126	126	135	146
x	-	-	-	-	-	-	4,5

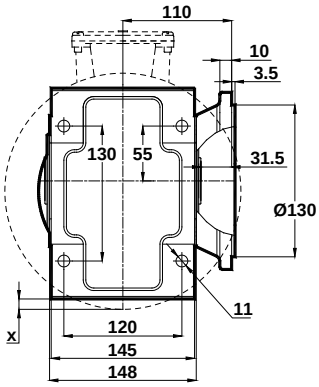
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



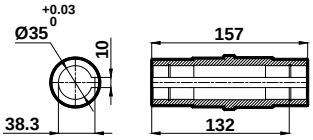
63-71-80-90-100-112
Tipo / *Type /* Typ

KV273.03





x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

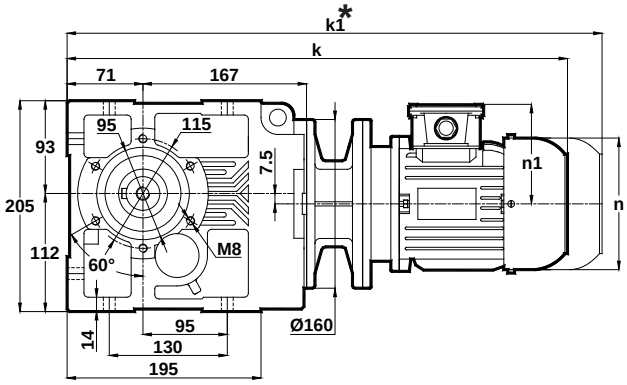
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

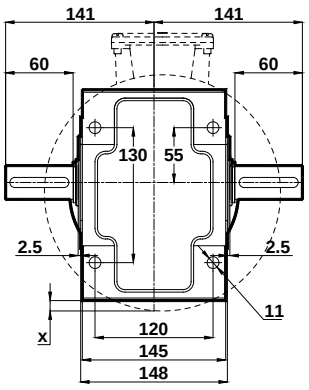


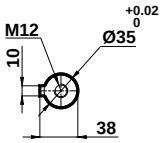
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV273.04

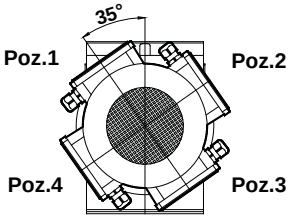






x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

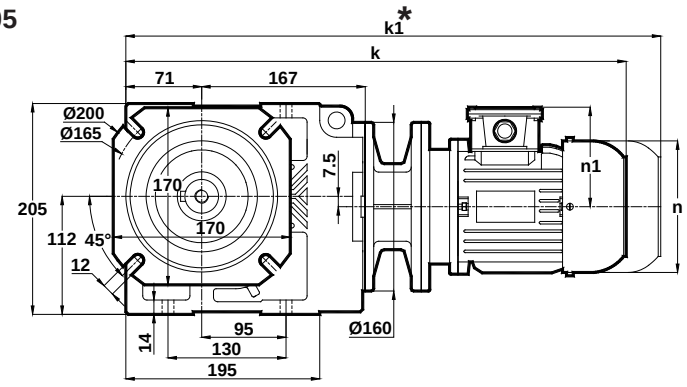
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

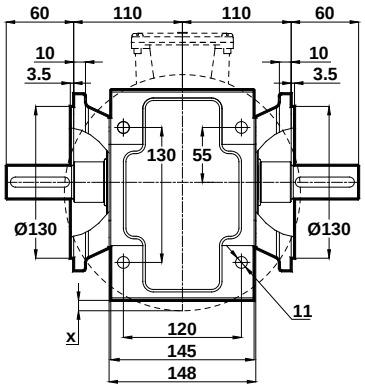


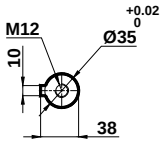
63-71-80-90-100-112
Tipo / *Type* **/** Typ

	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

KV273.05







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
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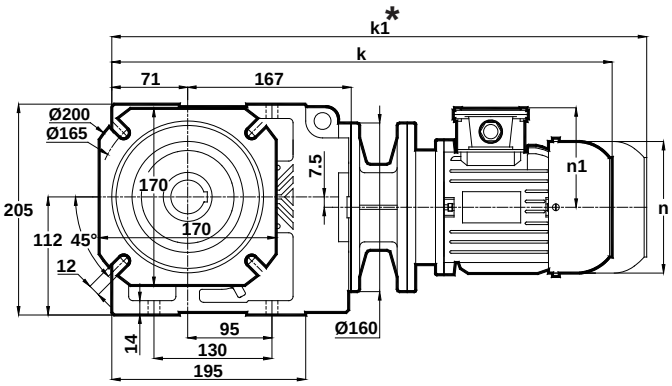
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

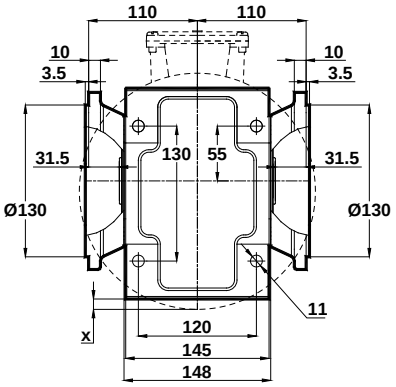


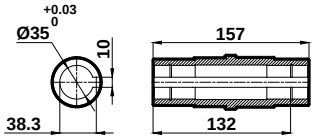
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV273.08



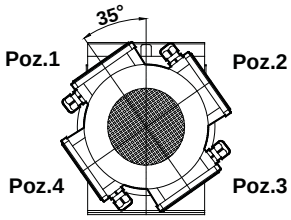




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

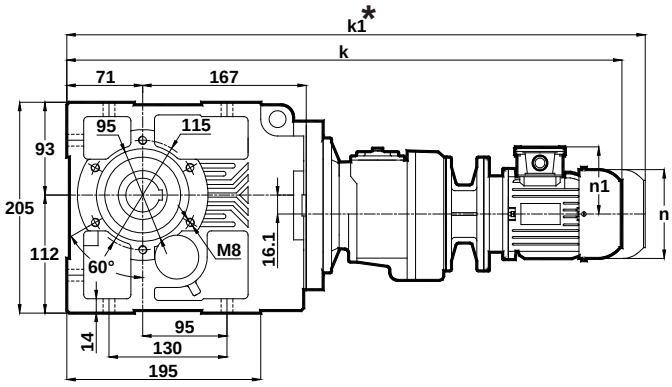
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

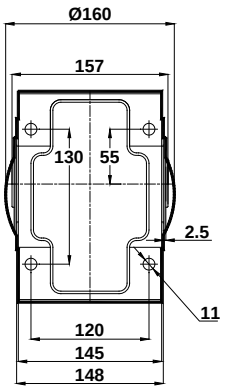


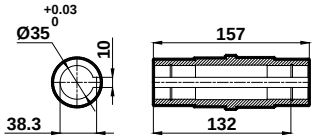
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV275.00
KV276.00

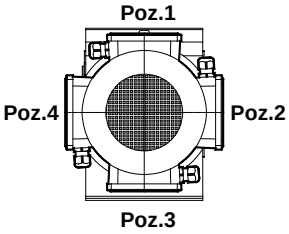






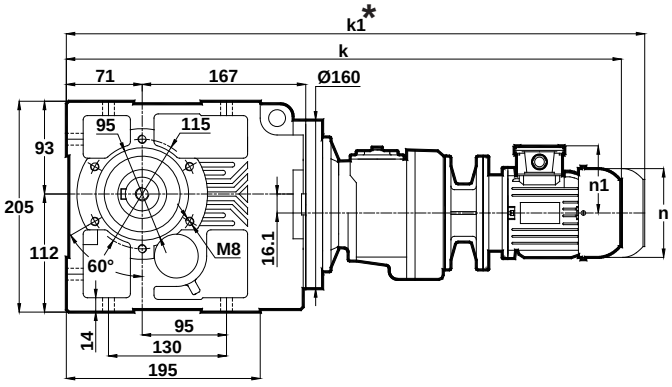
	63/B5	71/B5	80/B5
k	620	648	683
k1	-	768	803
n	116	138	156
n1	97	110	118

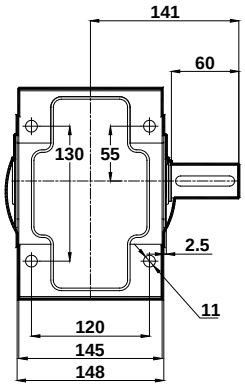
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

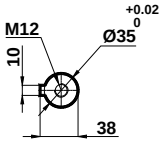


63-71-80
Tipo / *Type /* Typ

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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

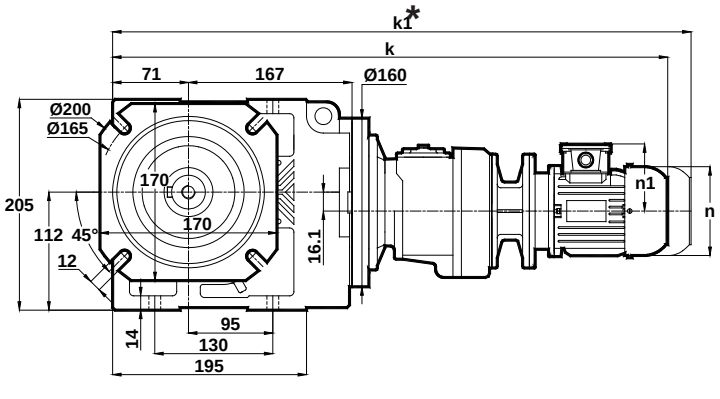
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

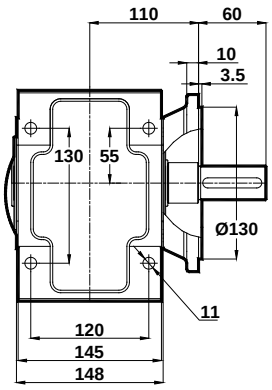


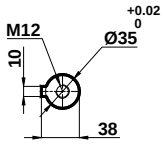
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV275.02
KV276.02

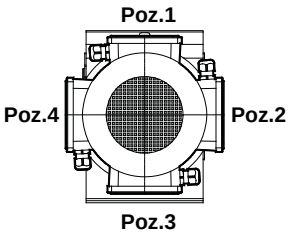






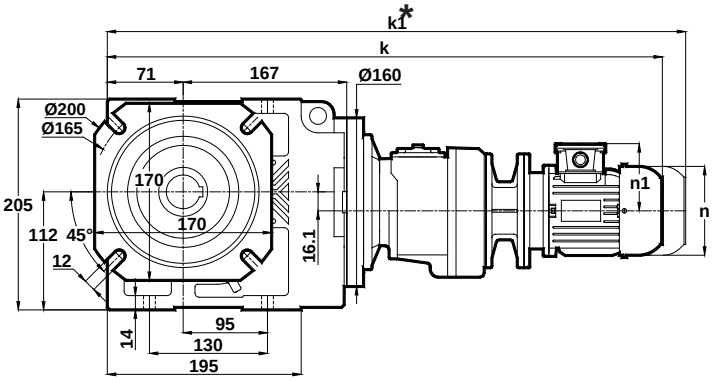
	63/B5	71/B5	80/B5
k	620	648	683
k1	-	768	803
n	116	138	156
n1	97	110	118

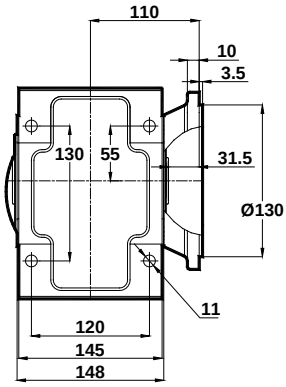
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

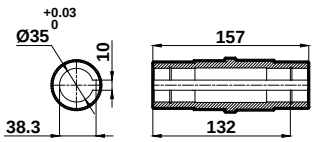


63-71-80
Tipo / *Type* / Typ

KV275.03
KV276.03





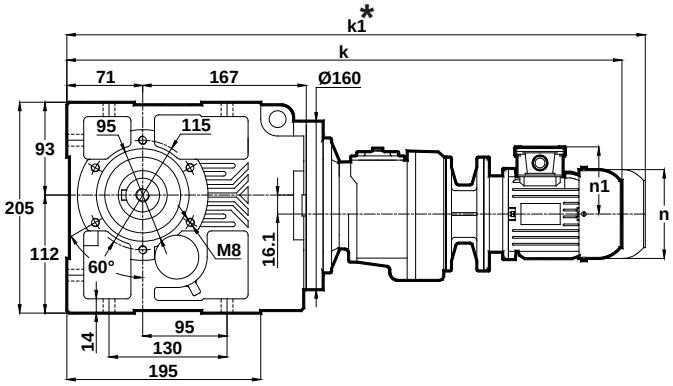


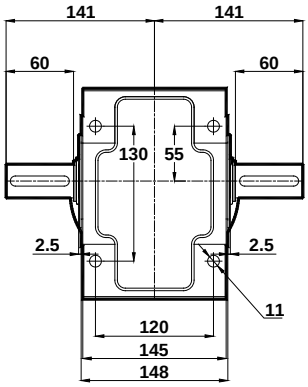
	63/B5	71/B5	80/B5
k	620	648	683
k1	-	768	803
n	116	138	156
n1	97	110	118

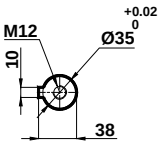
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV275.04
KV276.04

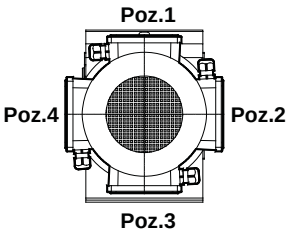






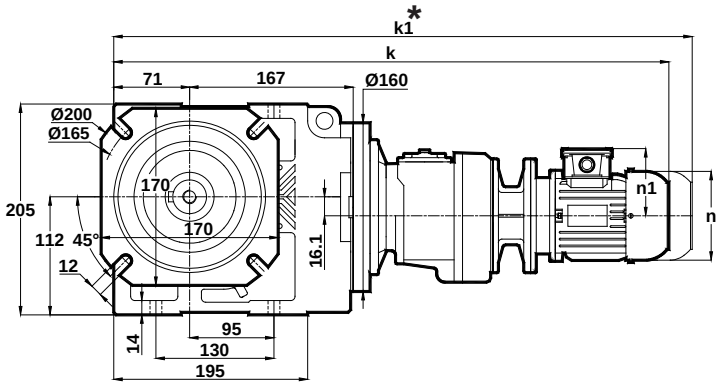
	63/B5	71/B5	80/B5
k	620	648	683
k1	-	768	803
n	116	138	156
n1	97	110	118

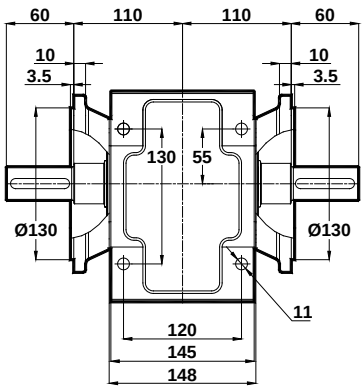
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

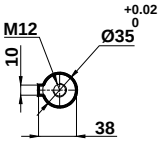


63-71-80
Tipo / *Type* **/** Typ

KV275.05
KV276.05







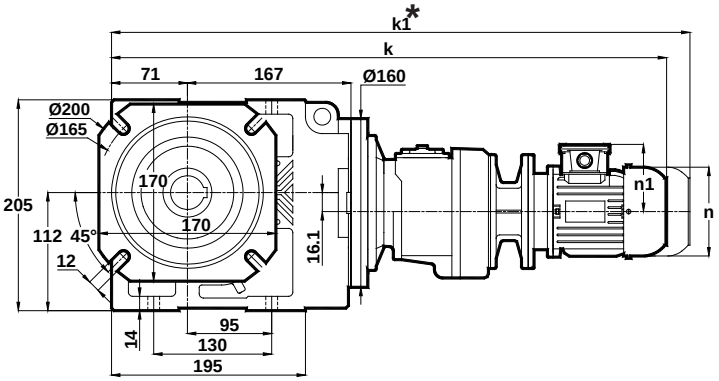
	63/B5	71/B5	80/B5
k	620	648	683
k1	-	768	803
n	116	138	156
n1	97	110	118

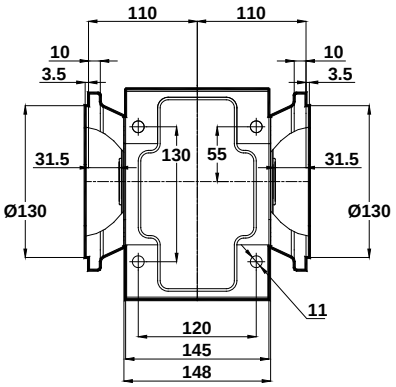
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße "k1" ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

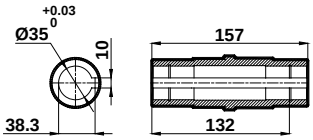
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV275.08
KV276.08

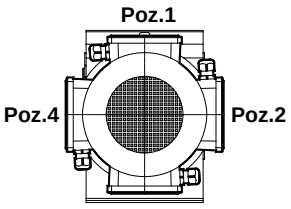






	63/B5	71/B5	80/B5
k	620	648	683
k1	-	768	803
n	116	138	156
n1	97	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

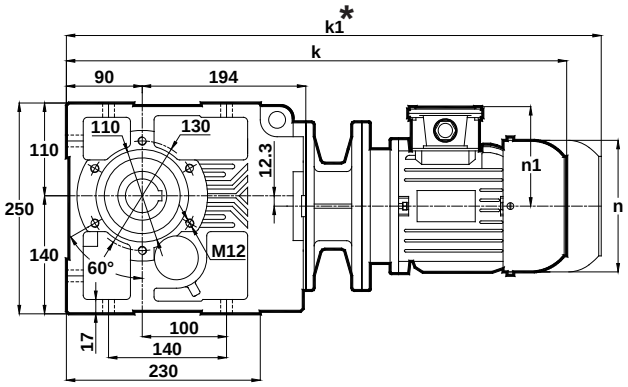
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

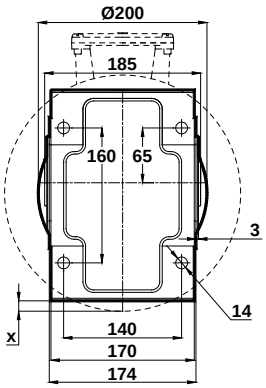


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

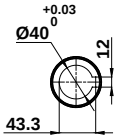
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

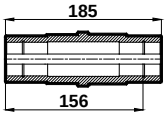
KV373.00



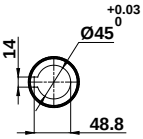


Std.





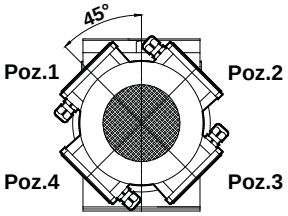
Ops.



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

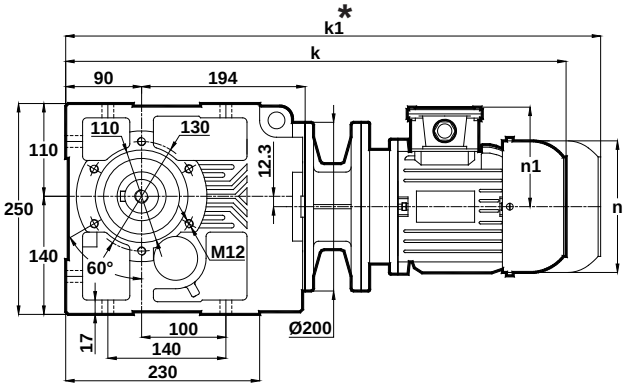
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	570	590	610	635	684	704	768	806
k1	690	710	735	760	819	839	913	951
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1,3	1,3

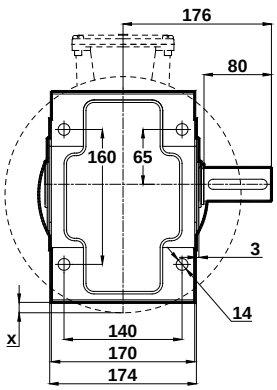
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

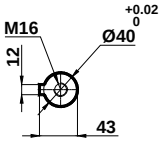


71-80-90-100-112-132
Tipo / *Type* **/** Typ

KV373.01







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

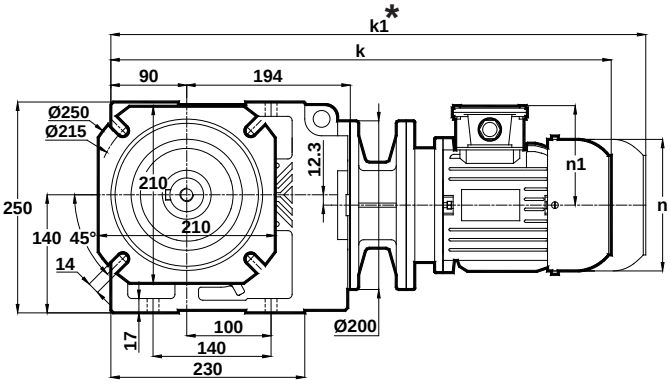
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße "k1" ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

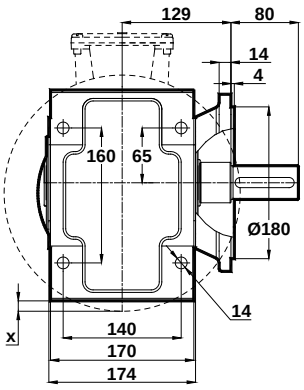
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

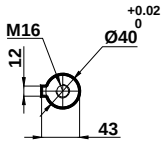


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2



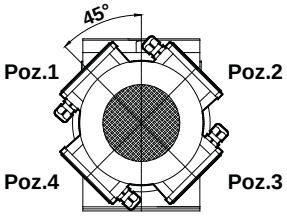




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

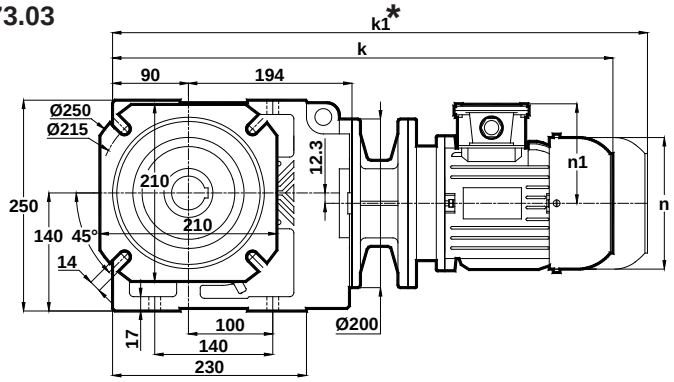
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	570	590	610	635	684	704	768	806
k1	690	710	735	760	819	839	913	951
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1,3	1,3

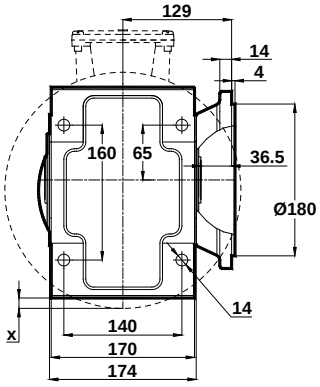
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



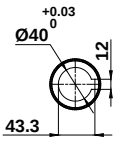
71-80-90-100-112-132
Tipo / *Type* **/** Typ

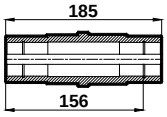
KV373.03



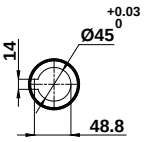


Std.





Ops.



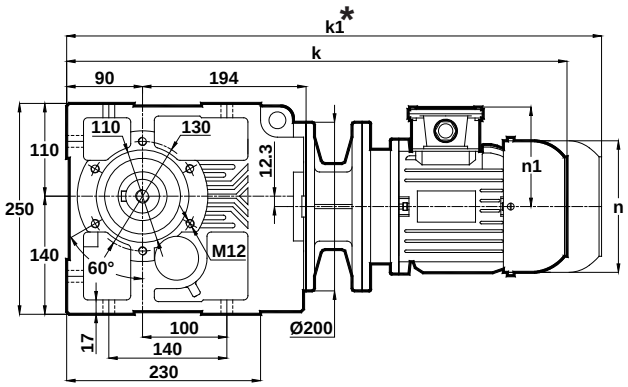
x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

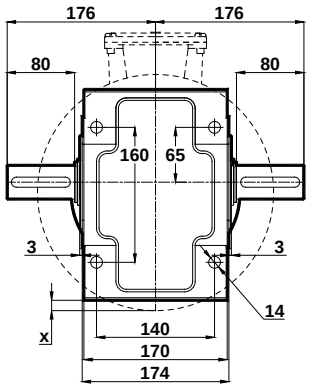
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	570	590	610	635	684	704	768	806
k1	690	710	735	760	819	839	913	951
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1,3	1,3

La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

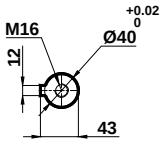
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV373.04
KV373.04

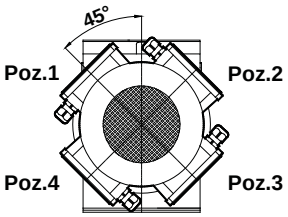




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte



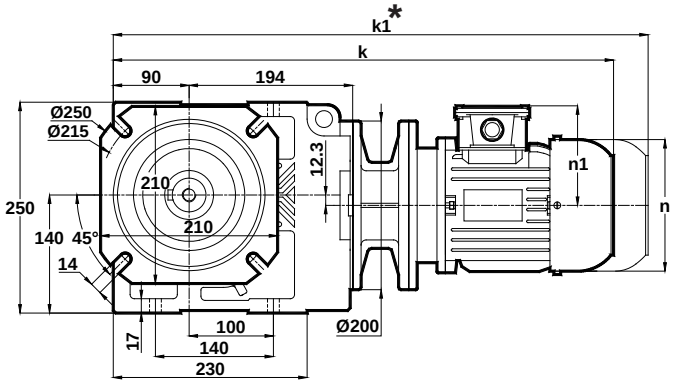
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

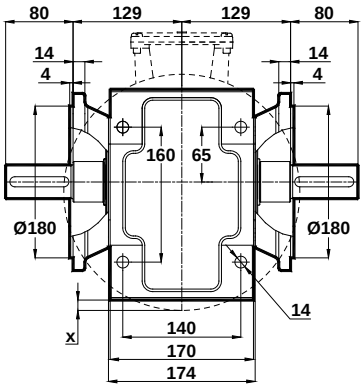


71-80-90-100-112-132
Tipo / *Type* **/** Typ

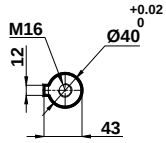
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	570	590	610	635	684	704	768	806
k1	690	710	735	760	819	839	913	951
n	138	156	176	176	194	218	258	258
n1	110	118	126	126	135	146	168	168
x	-	-	-	-	-	-	1,3	1,3

KV373.05
KV373.05





x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

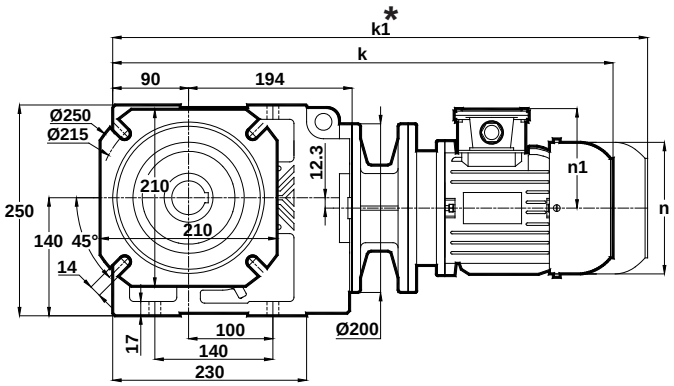
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

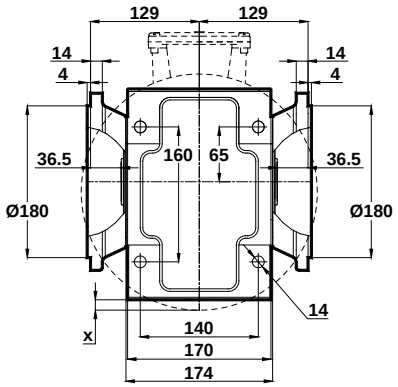


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

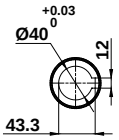
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

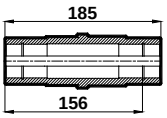
KV373.08
KV373.08



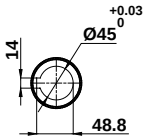


Std.





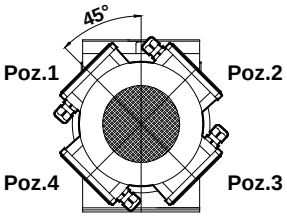
Ops.



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71-80-90-100-112-132
Tipo / *Type* **/** Typ

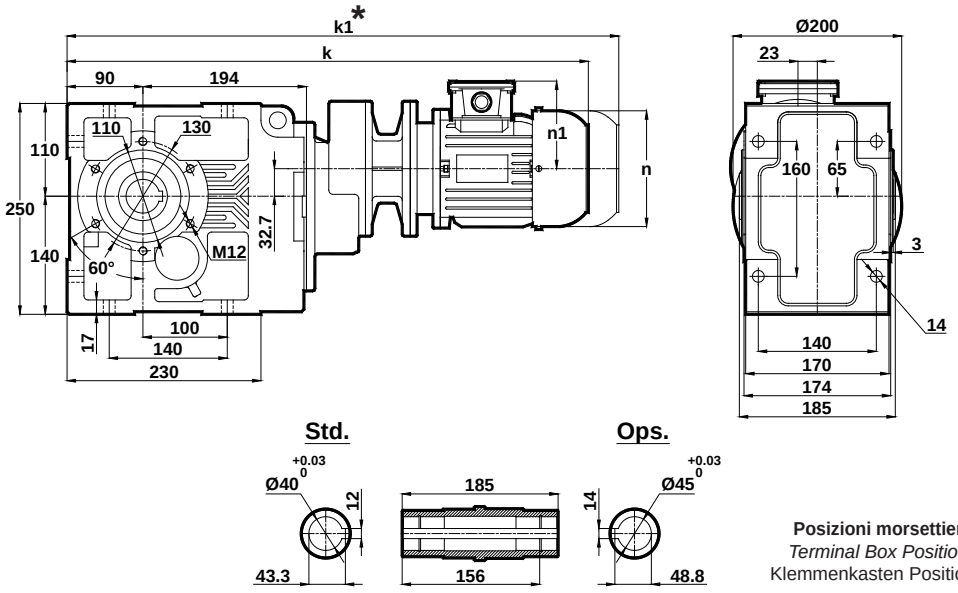
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

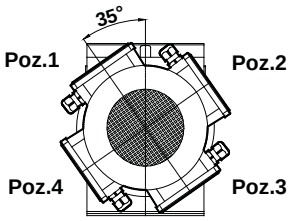
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV374.00



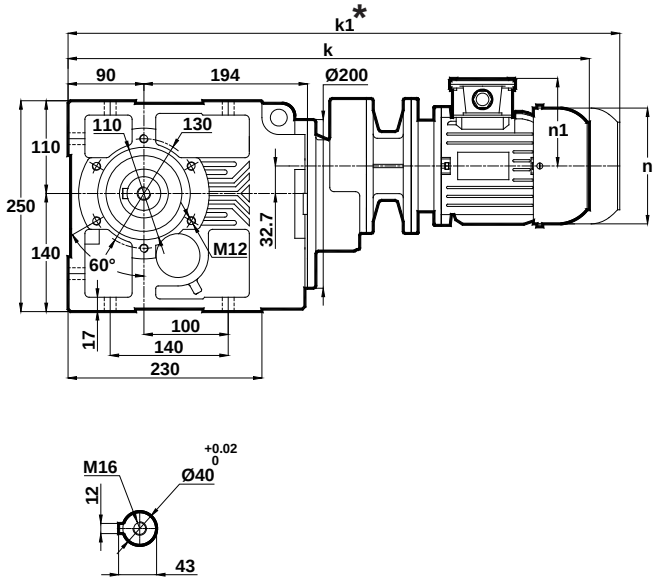
	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

KV374.01



	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

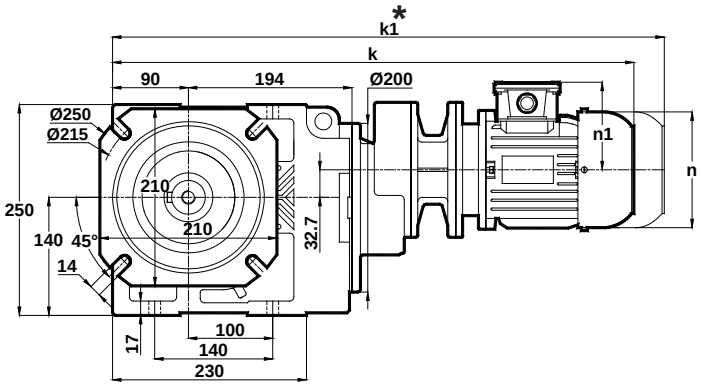
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

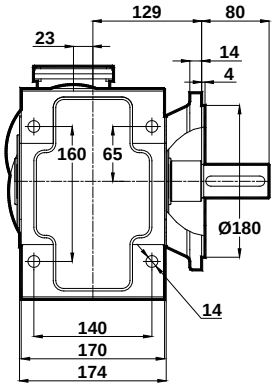


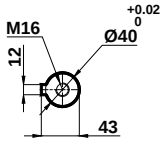
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV374.02

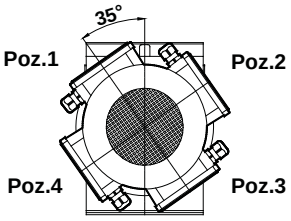






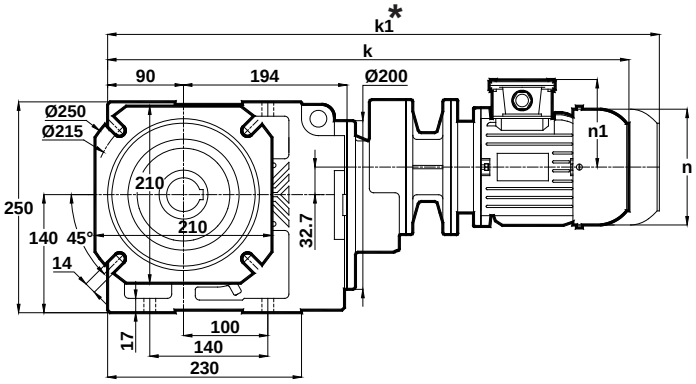
	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

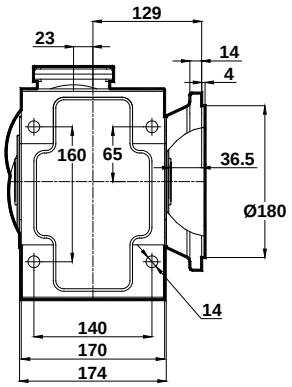
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



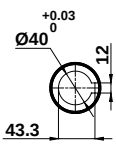
63-71-80
Tipo / *Type* **/** Typ

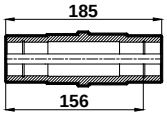
KV374.03



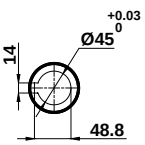


Std.





Ops.



	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

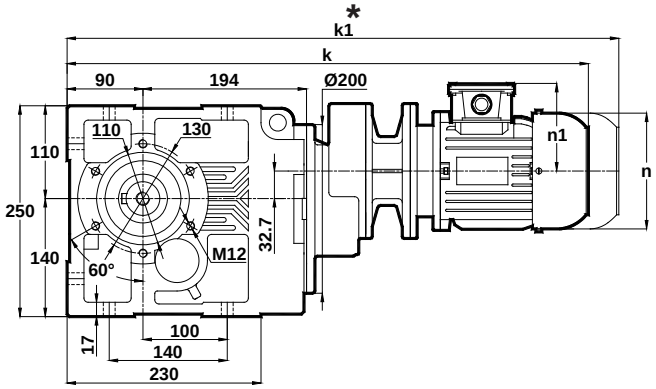
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

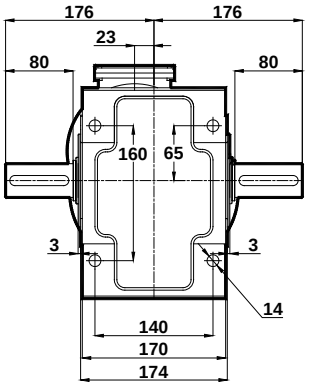


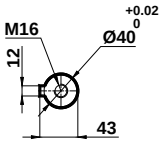
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV374.04

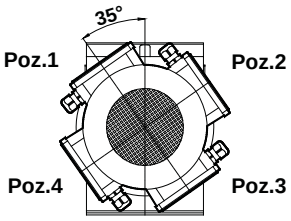






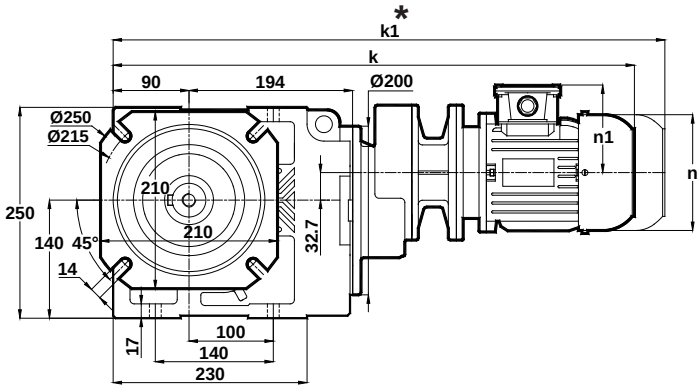
	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

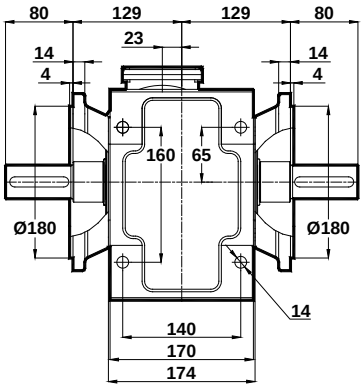
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

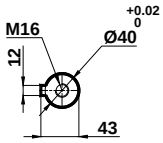


63-71-80
Tipo / *Type* / Typ

KV374.05







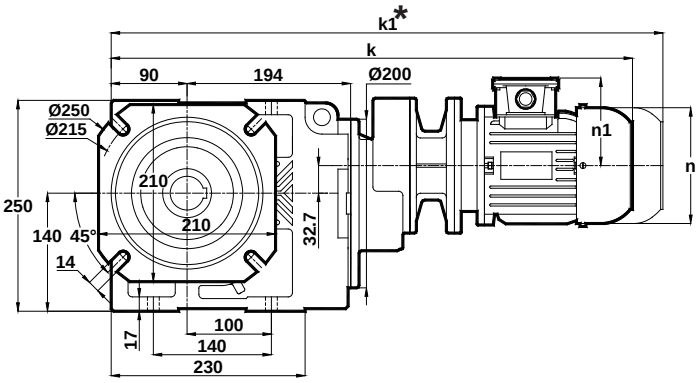
	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

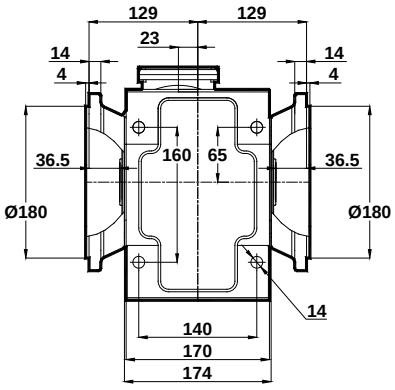
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße "k1" ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

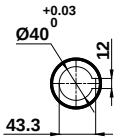
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

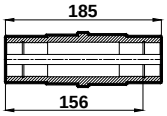
KV374.08



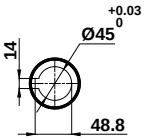


Std.



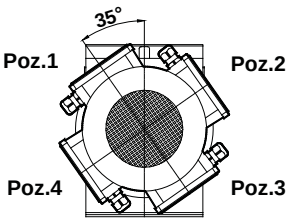


Ops.



	63/B5	71/B5	80/B5
k	621	618	667
k1	-	738	787
n	116	138	156
n1	97	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

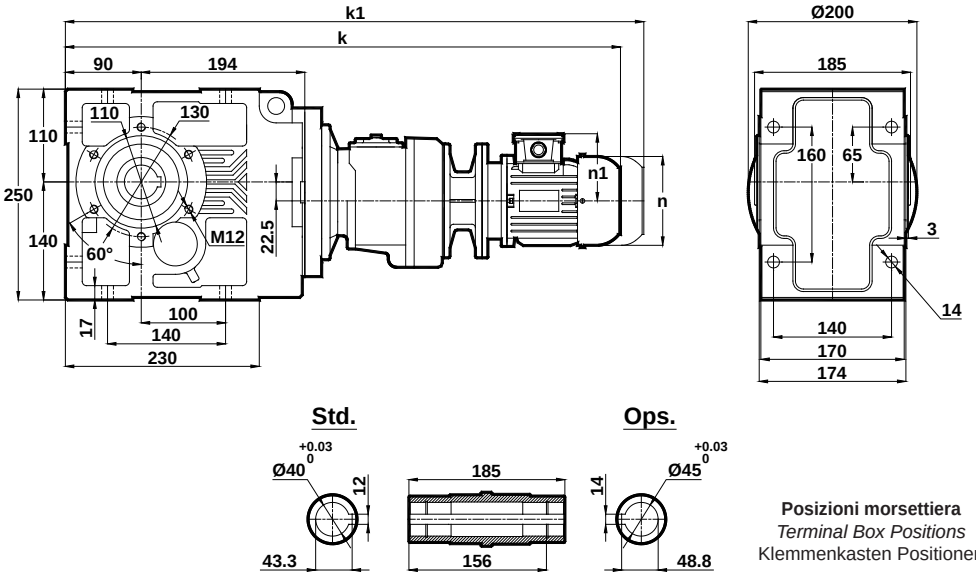


63-71-80
Tipo / *Type* / Typ

La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

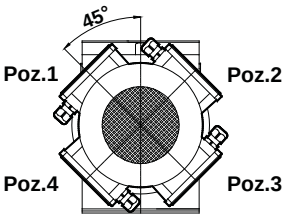
KV375.00
KV376.00



Std. **Ops.**

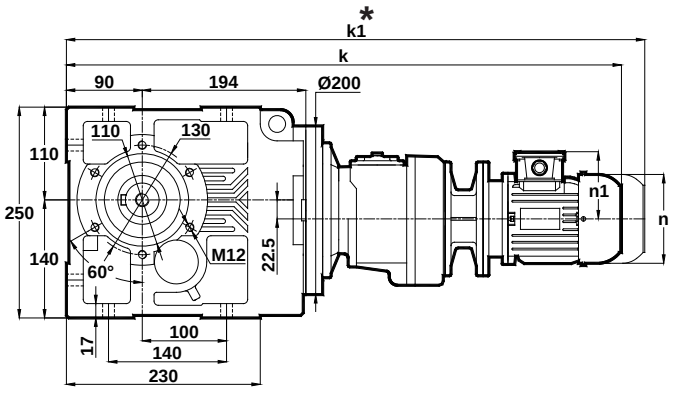
	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

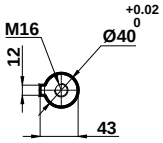
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tipo / *Type* / Typ

KV375.01
KV376.01





	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

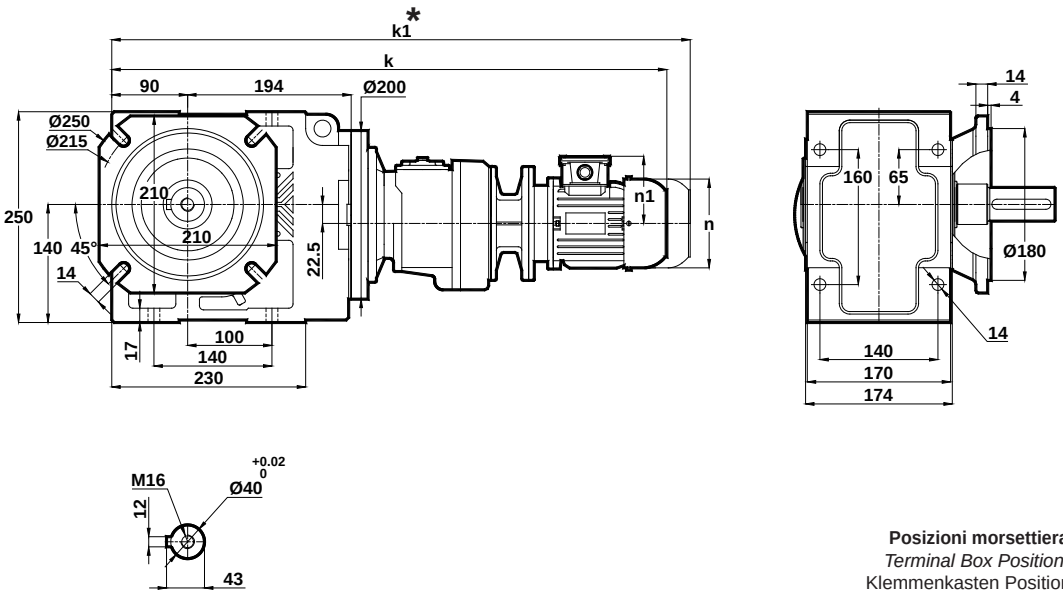
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

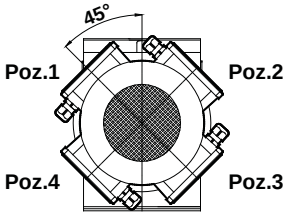
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV375.02
KV376.02



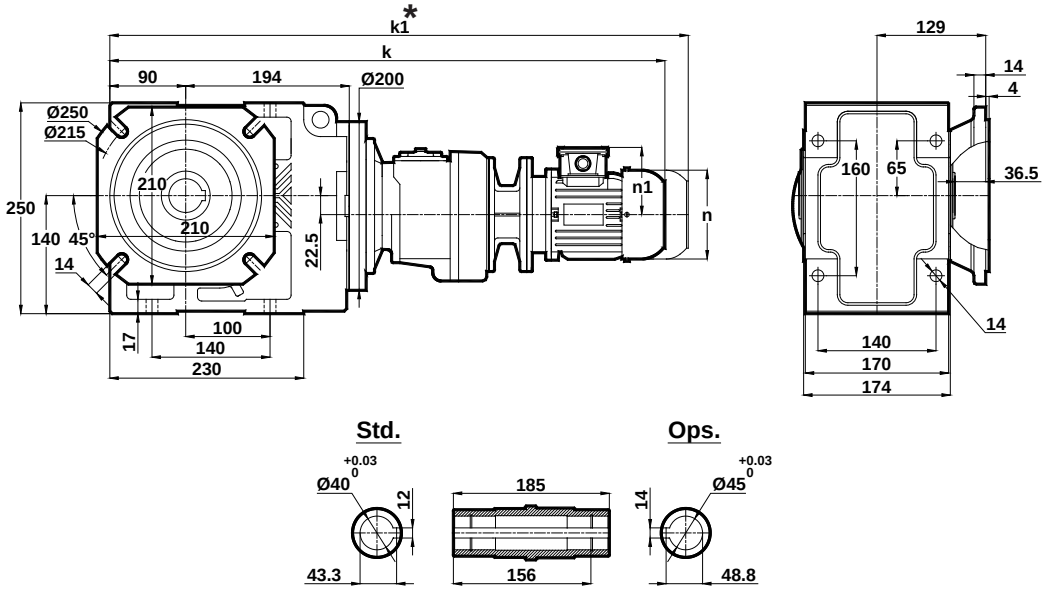
	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tipo / *Type* / Typ

KV375.03
KV376.03



Std.

Ops.

	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

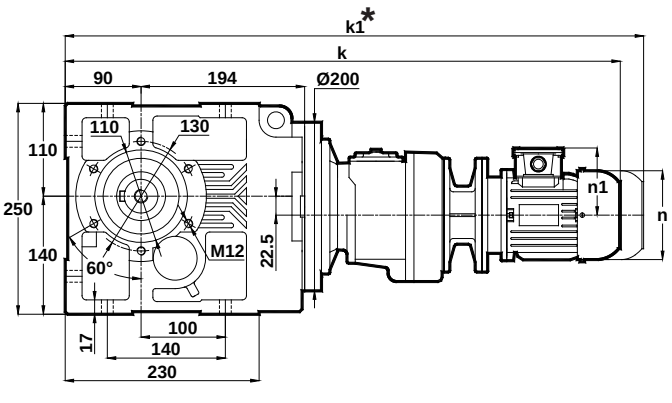
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

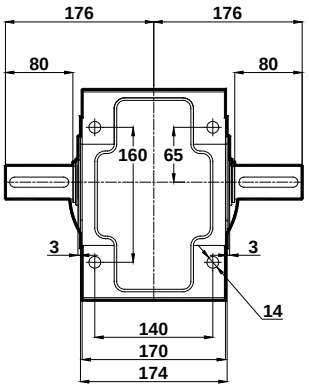


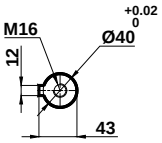
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV375.04
KV376.04

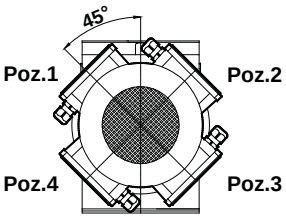






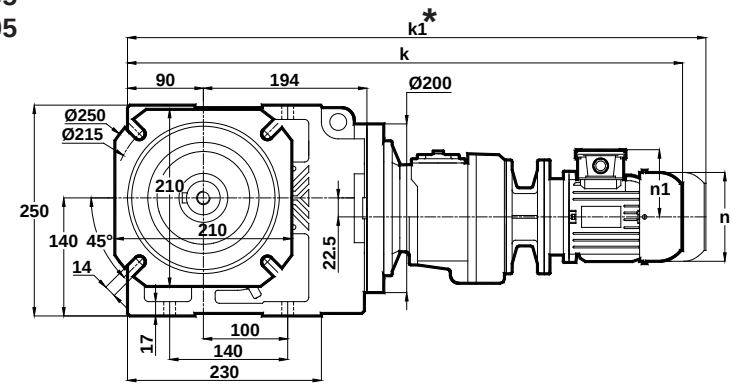
	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

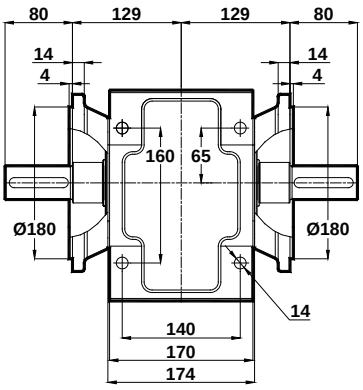
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

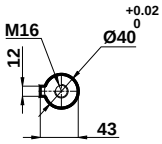


63-71
Tipo / *Type* **/** Typ

KV375.05
KV376.05







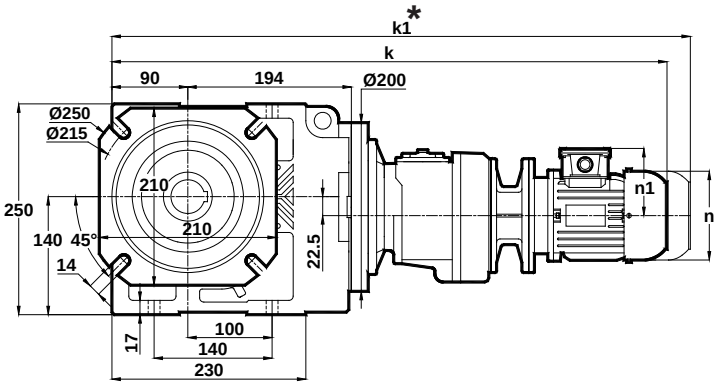
	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

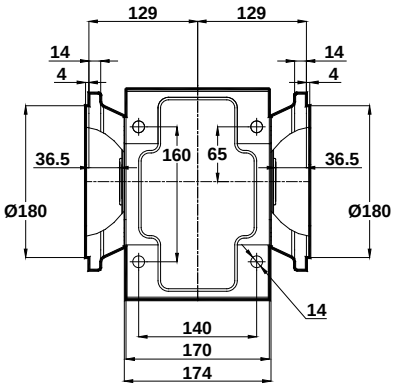
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße "k1" ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

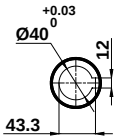
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

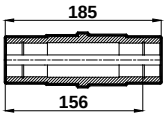
KV375.08
KV376.08



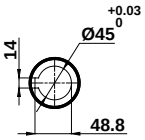


Std.



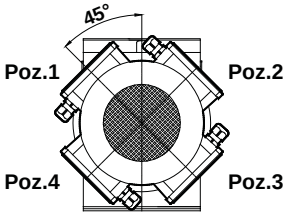


Ops.



	63/B5	71/B5
k	688	714
k1	-	834
n	116	138
n1	97	110

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

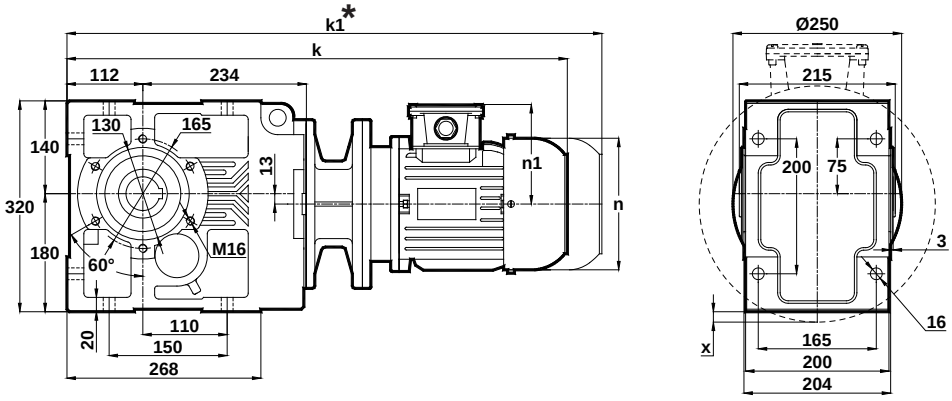


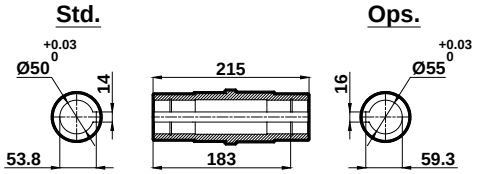
63-71
Tipo / *Type* / Typ

La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV473.00

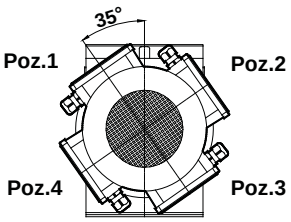




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

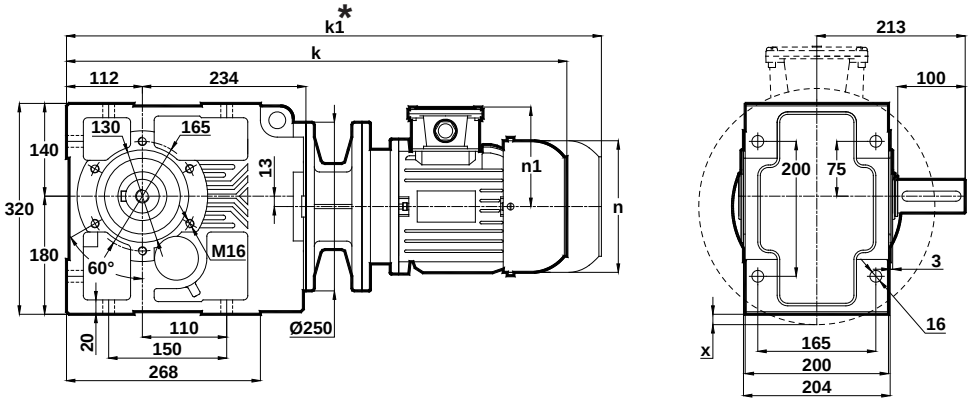
	642	662	687	737	757	820	858	1009	1053	1066	1104
	762	787	812	872	892	965	1003	1179	1223	1236	1274
	156	176	176	194	218	258	258	310	310	348	348
	118	126	126	135	146	168	168	225	225	241	241
	-	-	-	-	-	-	-	-	-	7	7

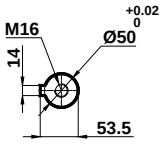
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

KV473.01





x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

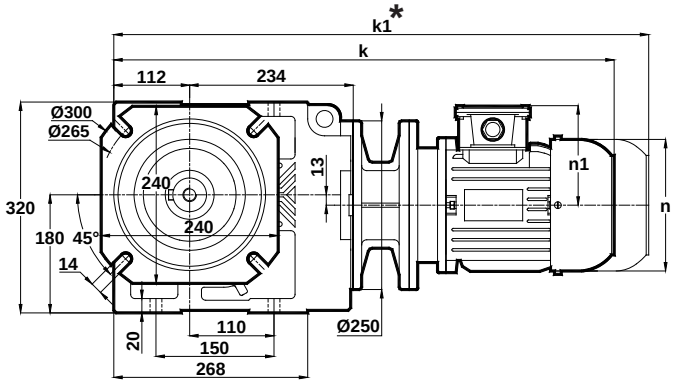
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

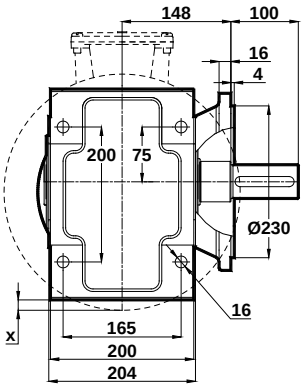


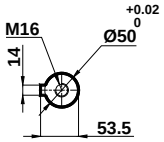
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV473.02



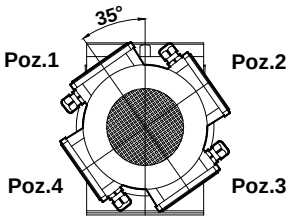




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

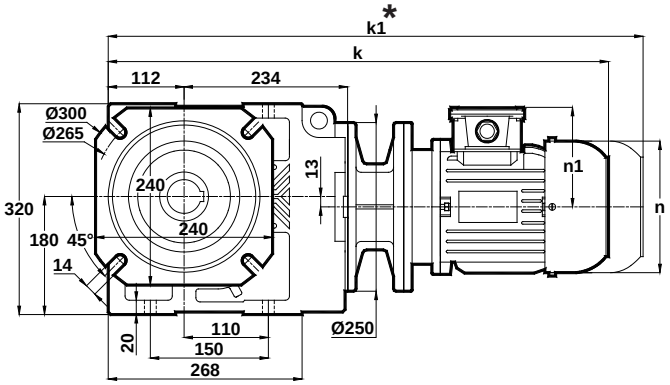
	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	642	662	687	737	757	820	858	1009	1053	1066	1104
k1	762	787	812	872	892	965	1003	1179	1223	1236	1274
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

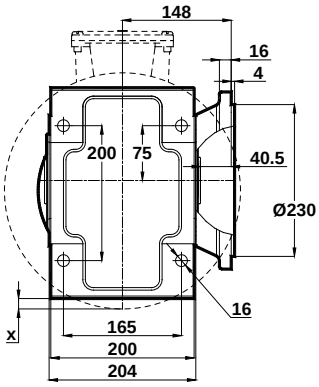
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

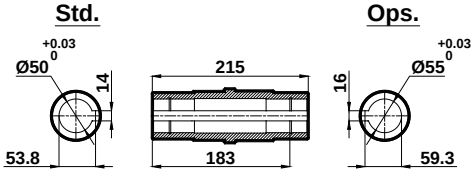


80-90-100-112-132-160-180
Tipo / *Type* / Typ

KV473.03







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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

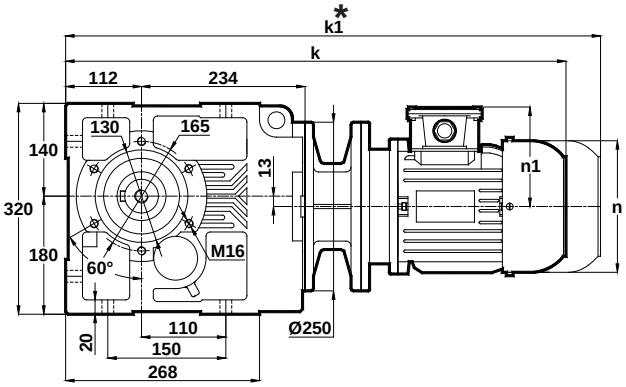
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

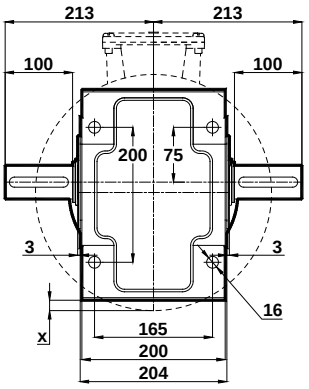


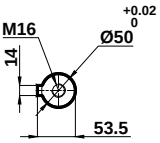
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV473.04



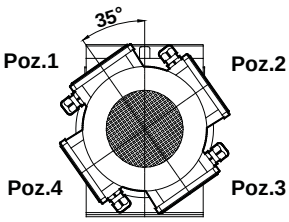




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

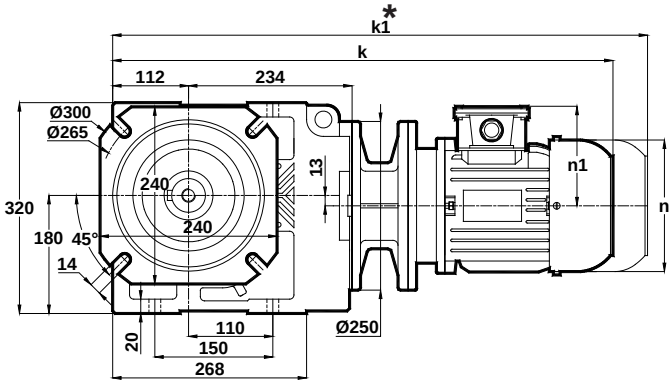
	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	642	662	687	737	757	820	858	1009	1053	1066	1104
k1	762	787	812	872	892	965	1003	1179	1223	1236	1274
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

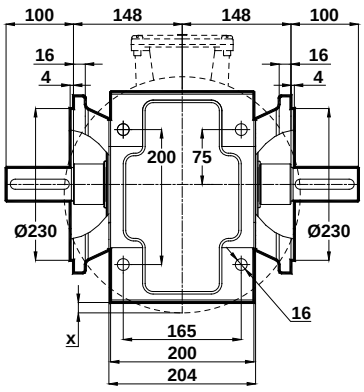
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

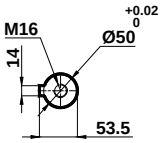


80-90-100-112-132-160-180
Tipo / *Type /* Typ

KV473.05







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

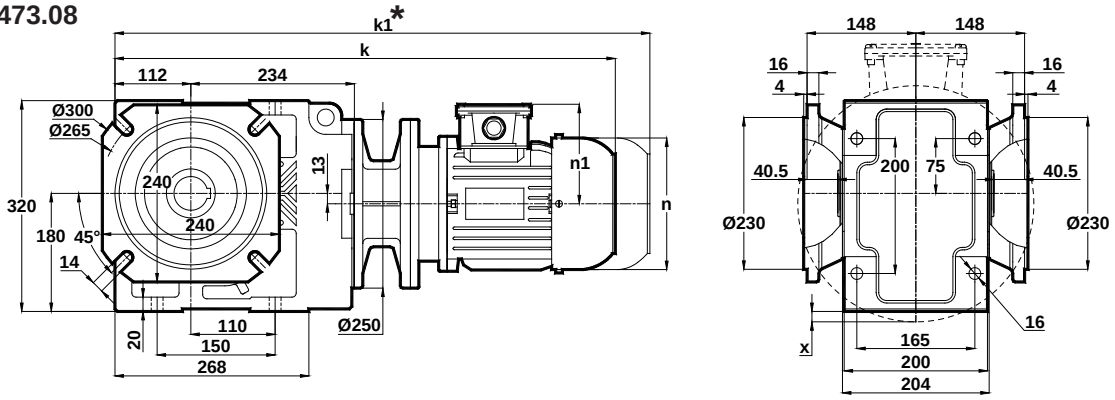
	80/B5	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	642	662	687	737	757	820	858	1009	1053	1066	1104
k1	762	787	812	872	892	965	1003	1179	1223	1236	1274
n	156	176	176	194	218	258	258	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	7	7

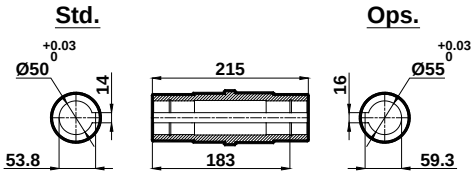
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße "k1" ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV473.08

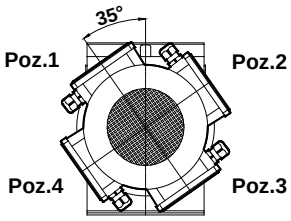




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

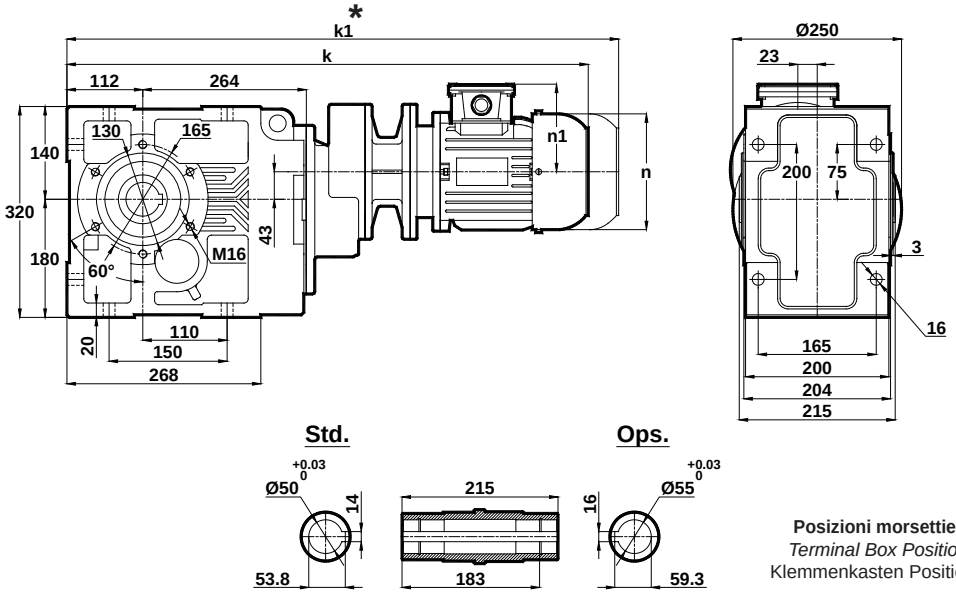


80-90-100-112-132-160-180
Tipo / *Type /* Typ

La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

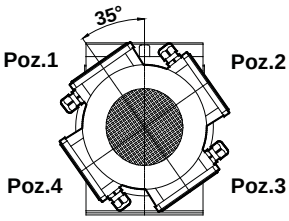
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV474.00



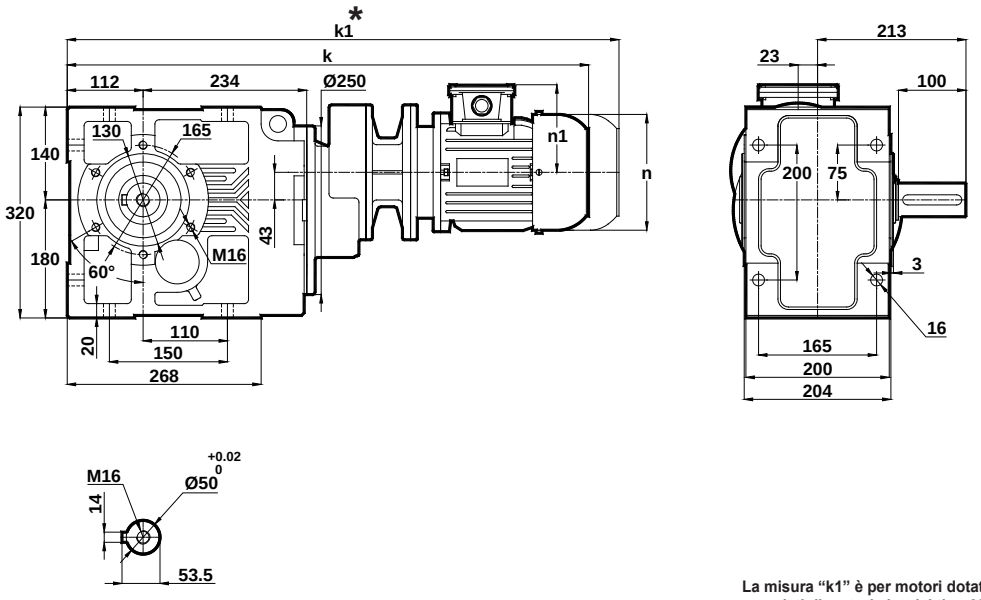
	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71-80
Tipo / *Type* / Typ

KV474.01



	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

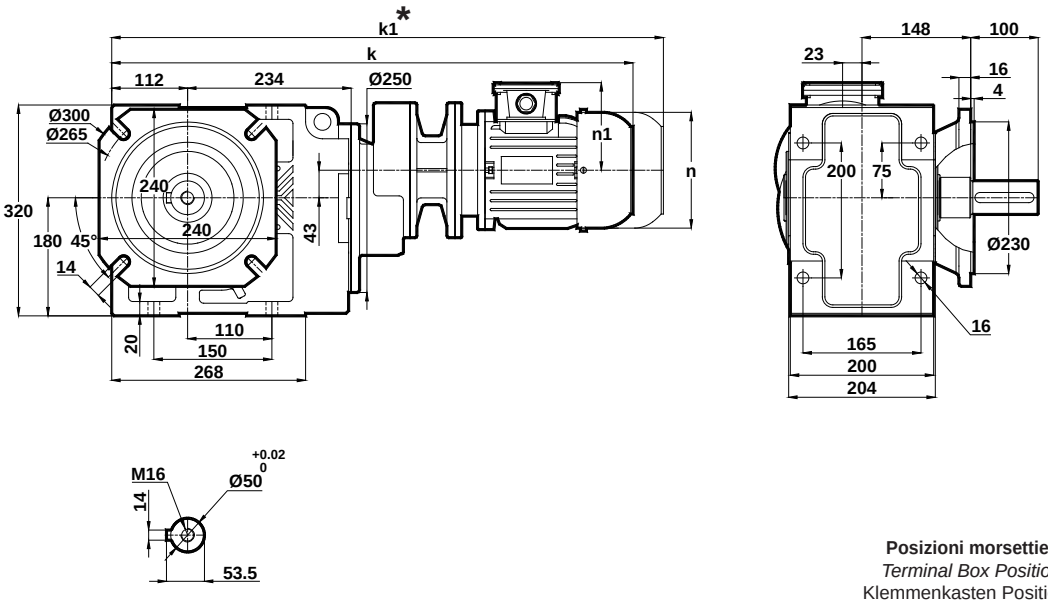
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

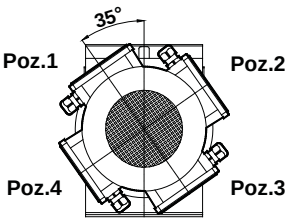
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV474.02



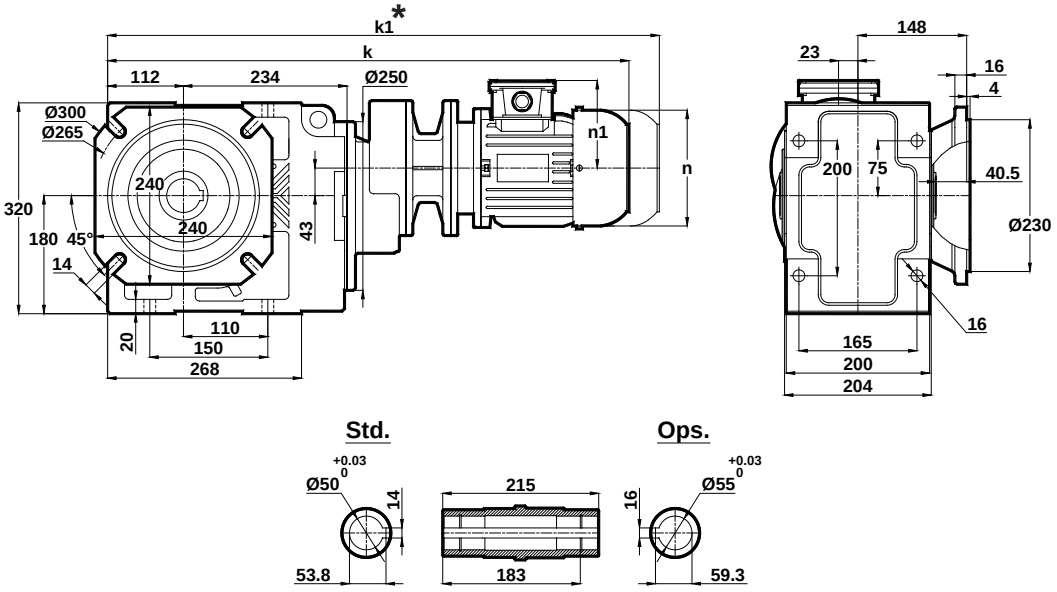
	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71-80
Tipo / *Type* / Typ

KV474.03



Std.

Ops.

	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

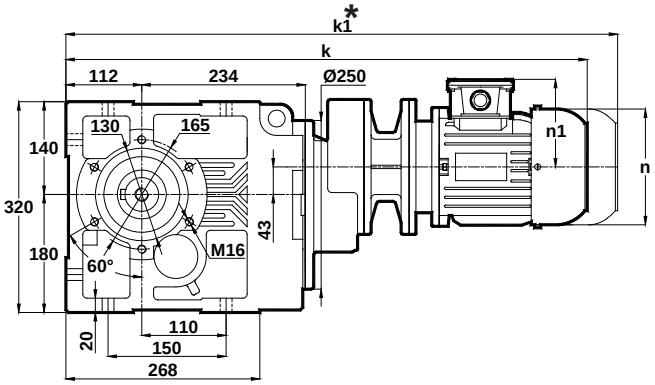
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

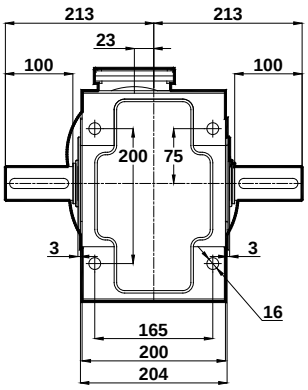


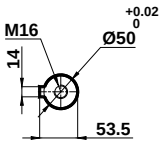
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV474.04

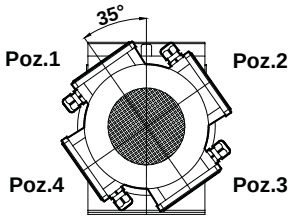






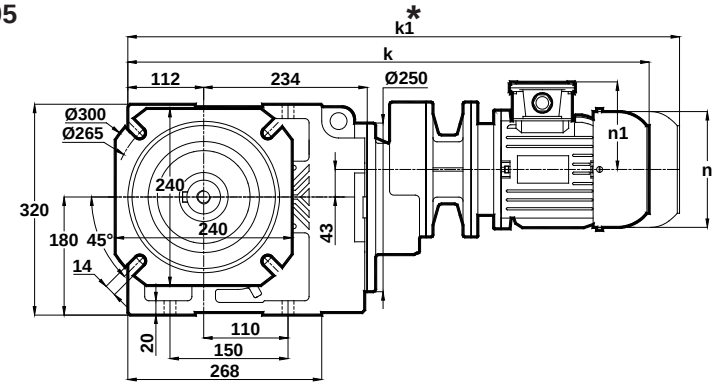
	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

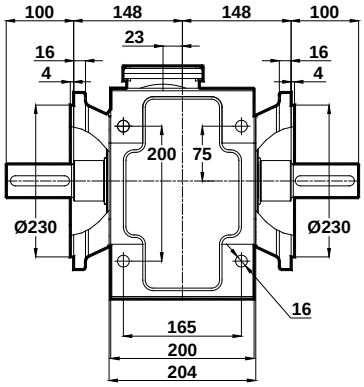
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

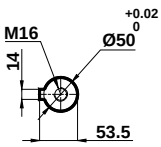


71-80
Tipo / *Type* / Typ

KV474.05







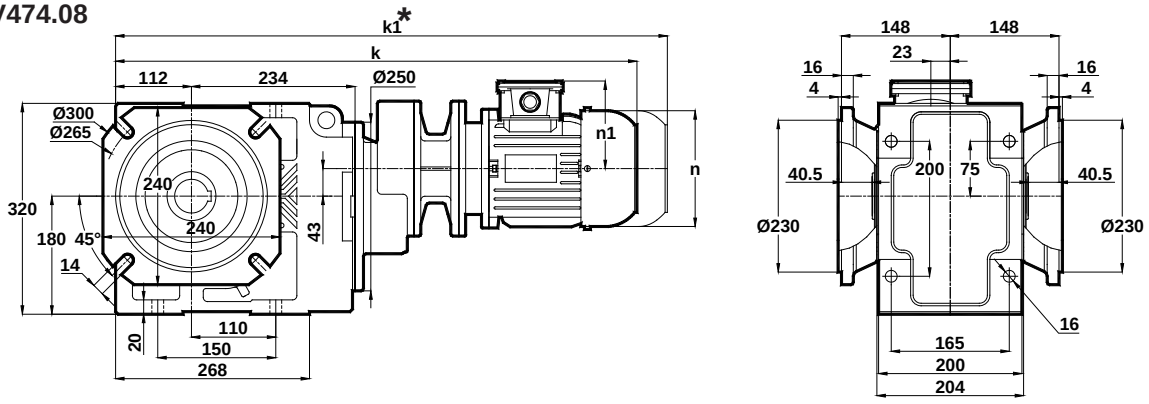
	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

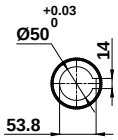
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

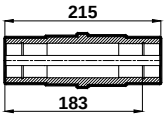
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV474.08

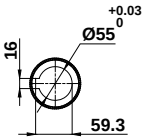


Std.



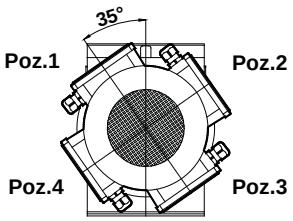


Ops.



	71/B5	80/B5
k	720	740
k1	840	860
n	138	156
n1	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71-80
Tipo / *Type* **/** Typ

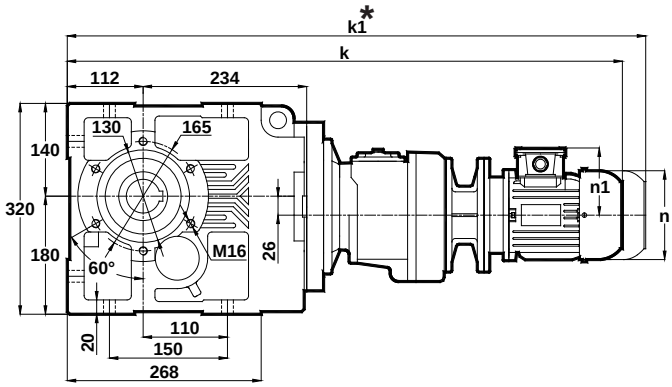
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

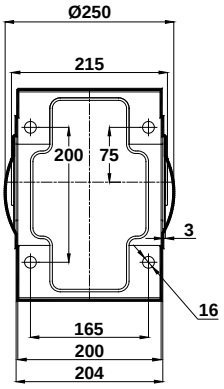


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

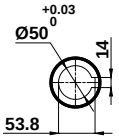
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

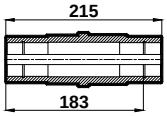
KV475.00
KV476.00



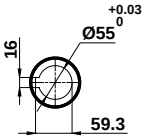


Std.



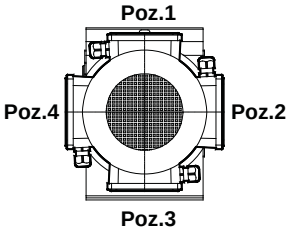


Ops.



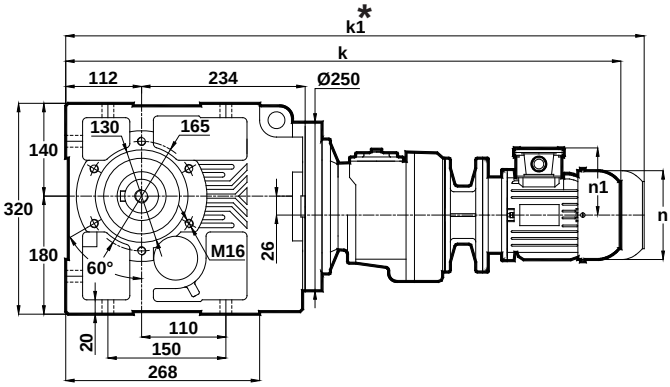
	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

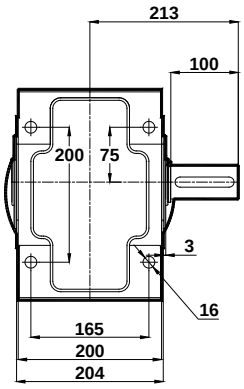
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

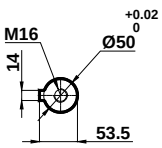


63-71
Tipo / *Type* / Typ

KV475.01
KV476.01







	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

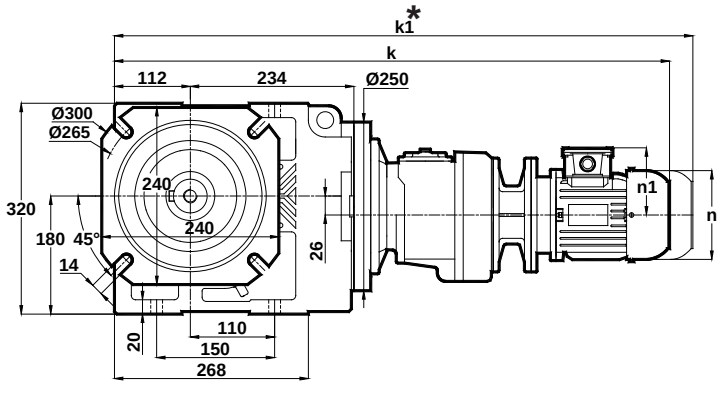
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

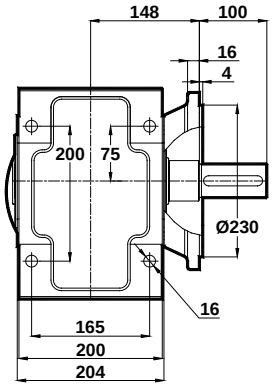


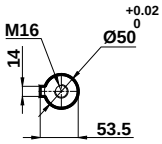
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV475.02
KV476.02

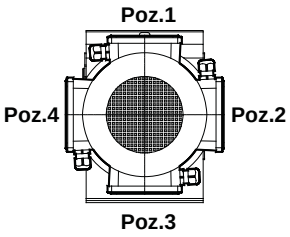






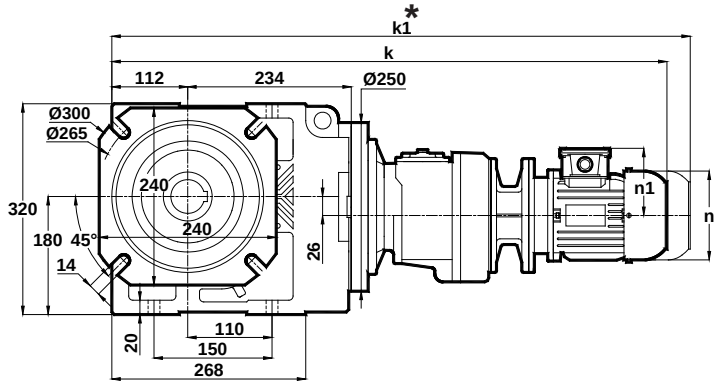
	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

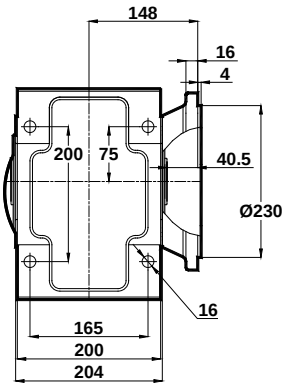
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



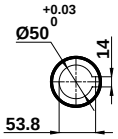
63-71
Tipo / *Type* / Typ

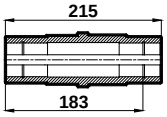
KV475.03
KV476.03



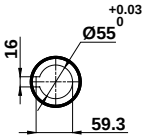


Std.





Ops.



	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

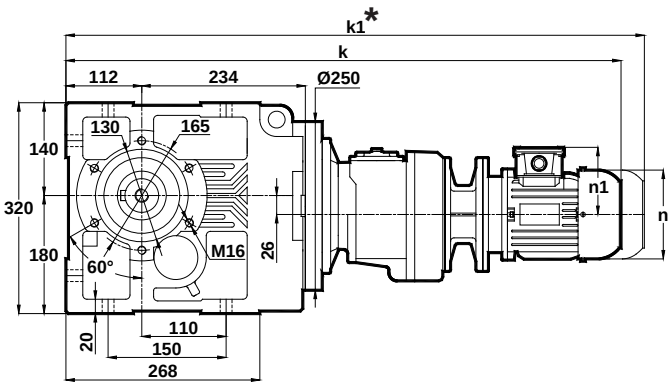
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

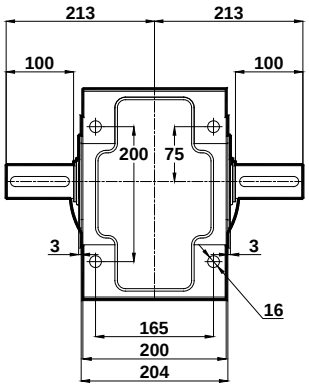


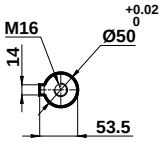
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV475.04
KV476.04

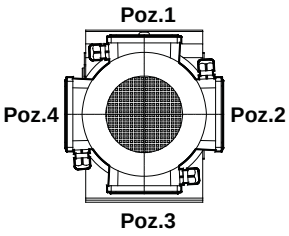






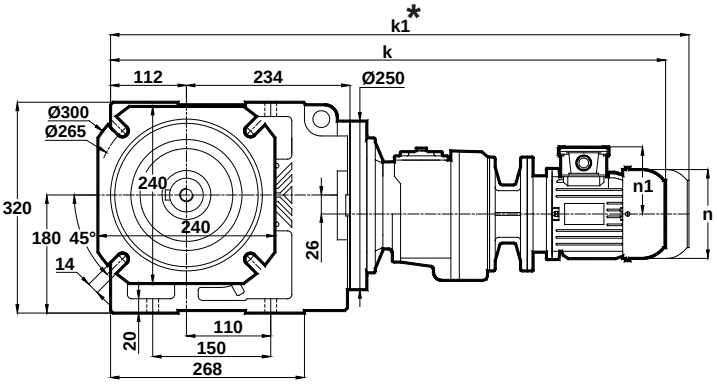
	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

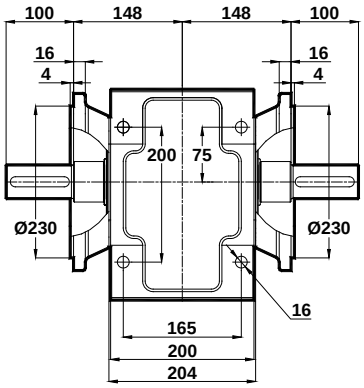
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

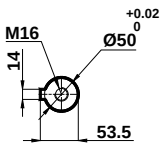


63-71
Tipo / *Type* / Typ

KV475.05
KV476.05







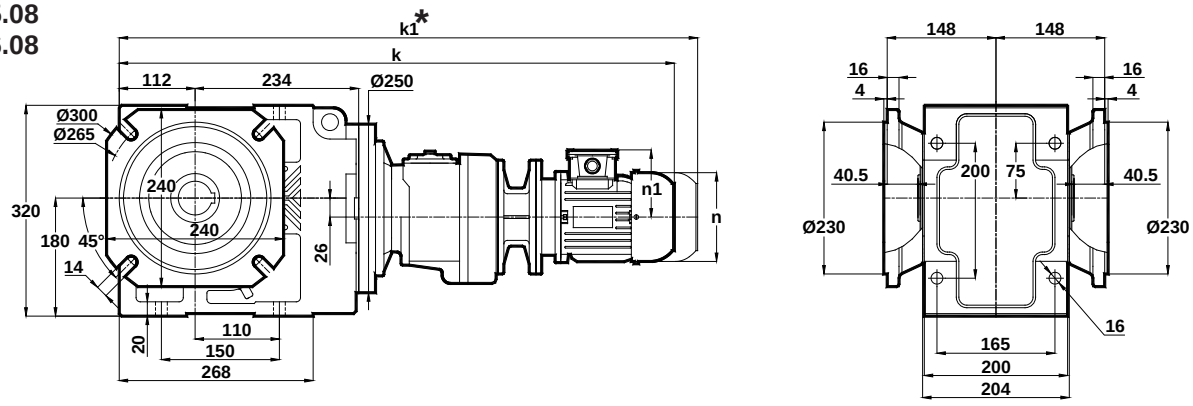
	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

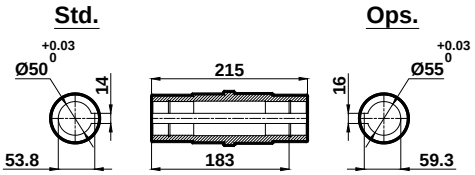
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße "k1" ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

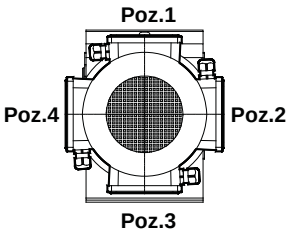
KV475.08
KV476.08





	63/B5	71/B5
k	822	819
k1	-	939
n	116	138
n1	97	110

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



63-71
Tipo / *Type* / Typ

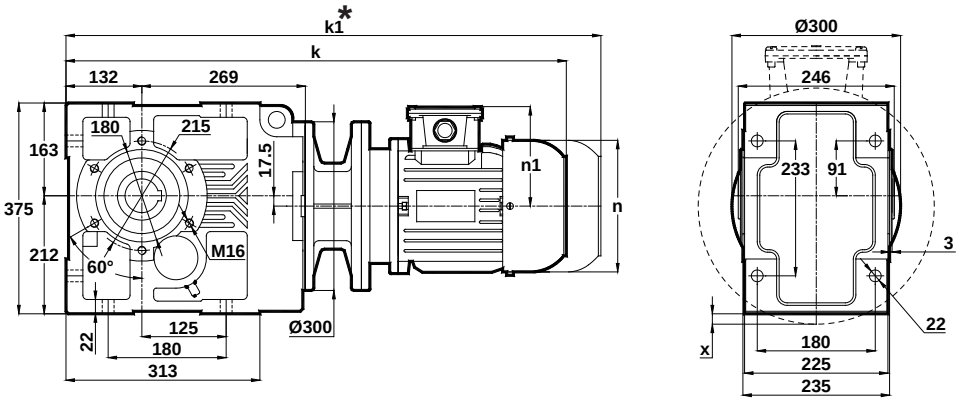
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

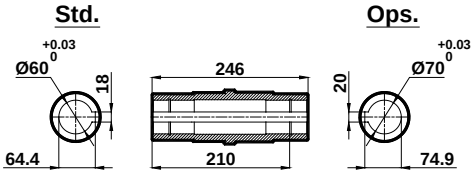


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV573.00

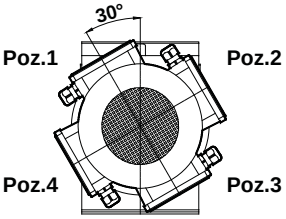




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

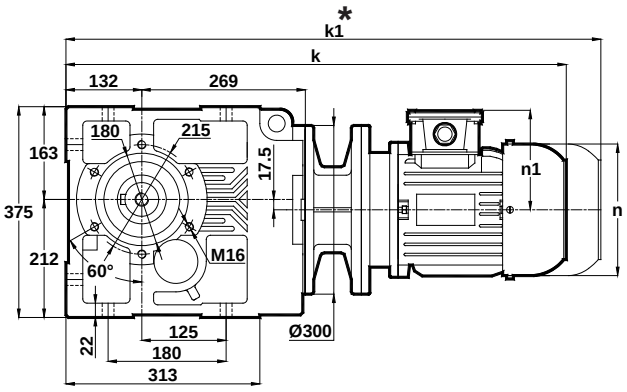
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	790	810	875	913	1060	1104	1117	1155
k1	925	945	1020	1058	1230	1274	1287	1325
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

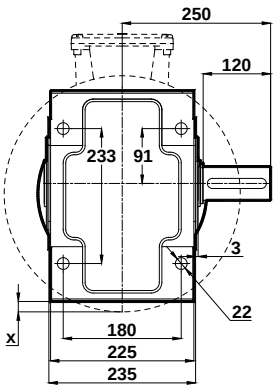
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

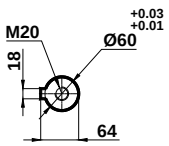


100-112-132-160-180
Tipo / *Type /* Typ

KV573.01







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-	-	-	-

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

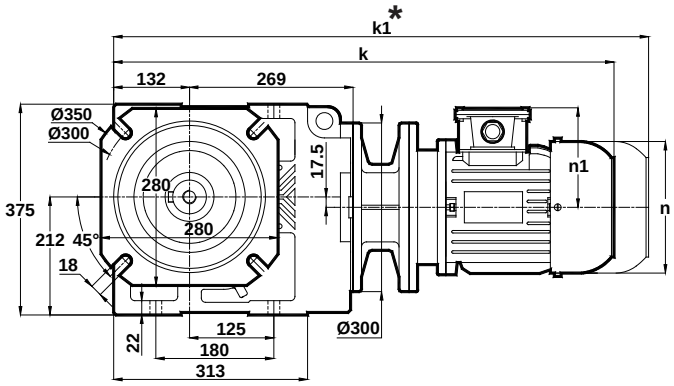
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

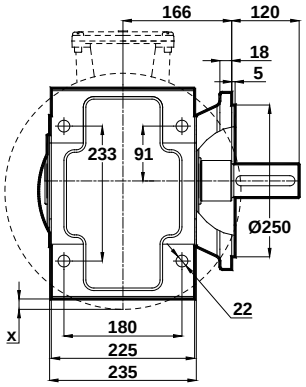


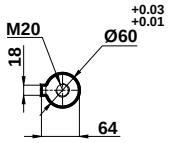
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV573.02

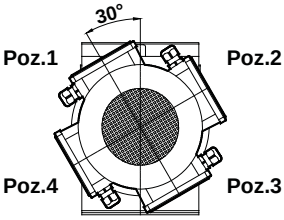






x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

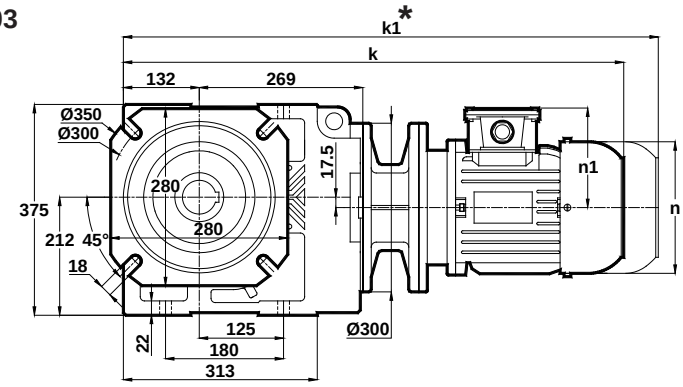
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

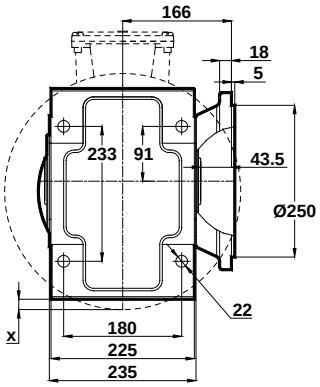


100-112-132-160-180
Tipo / *Type /* Typ

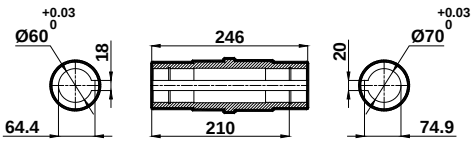
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	790	810	875	913	1060	1104	1117	1155
k1	925	945	1020	1058	1230	1274	1287	1325
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

KV573.03





Std. **Ops.**



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-	-	-	-

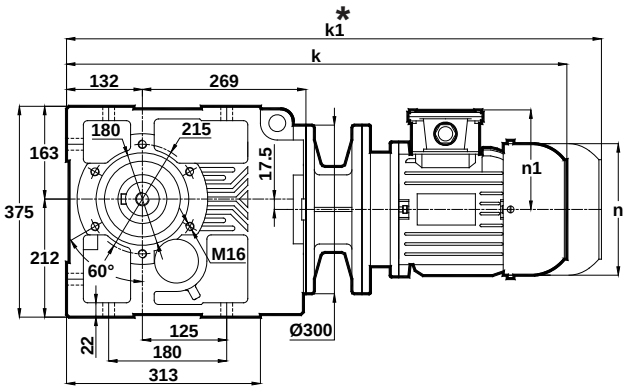
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

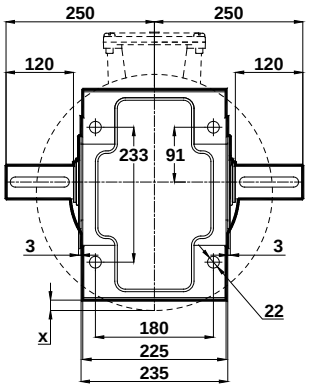


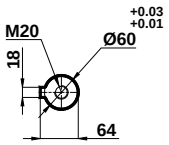
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV573.04



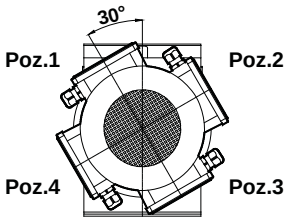




x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the foot mounting plane
x: Wen motor ist nidriger den die Anschlußplatte

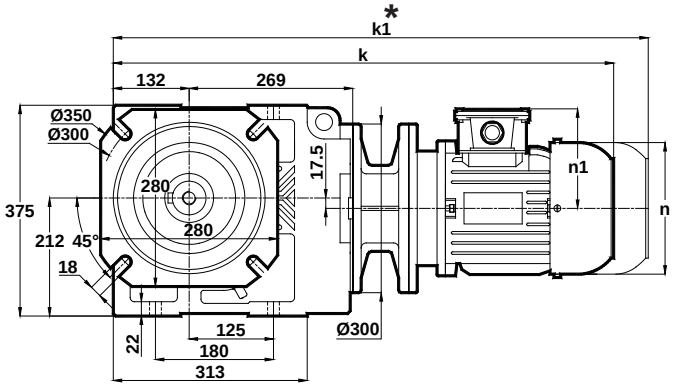
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5
k	790	810	875	913	1060	1104	1117	1155
k1	925	945	1020	1058	1230	1274	1287	1325
n	194	218	258	258	310	310	348	348
n1	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-

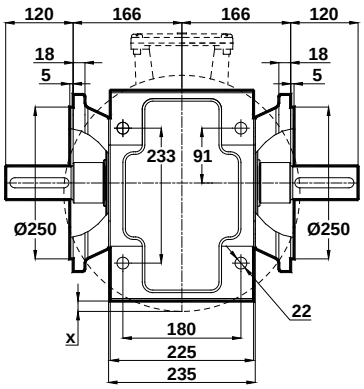
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

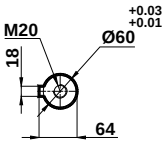


100-112-132-160-180
Tipo / *Type* / Typ

KV573.05







x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-	-	-	-

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

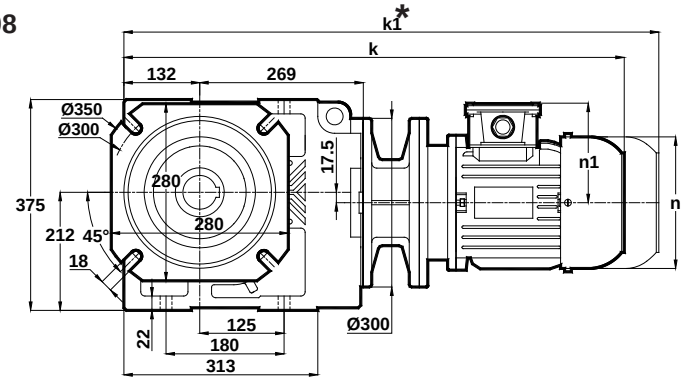
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

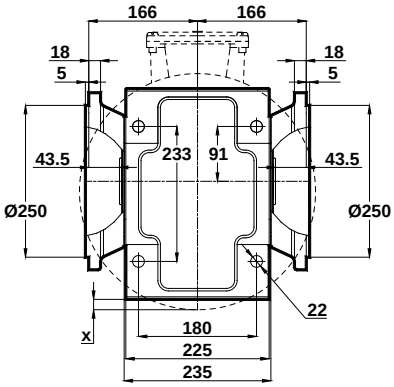


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

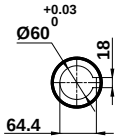
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

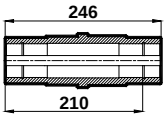
KV573.08



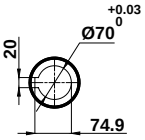


Std.





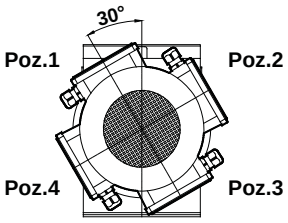
Ops.



x: Se il motore è più in basso rispetto alla piastra di montaggio del piede
x: If the Motor is lower than the 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	-	-	-	-	-	-	-	-

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

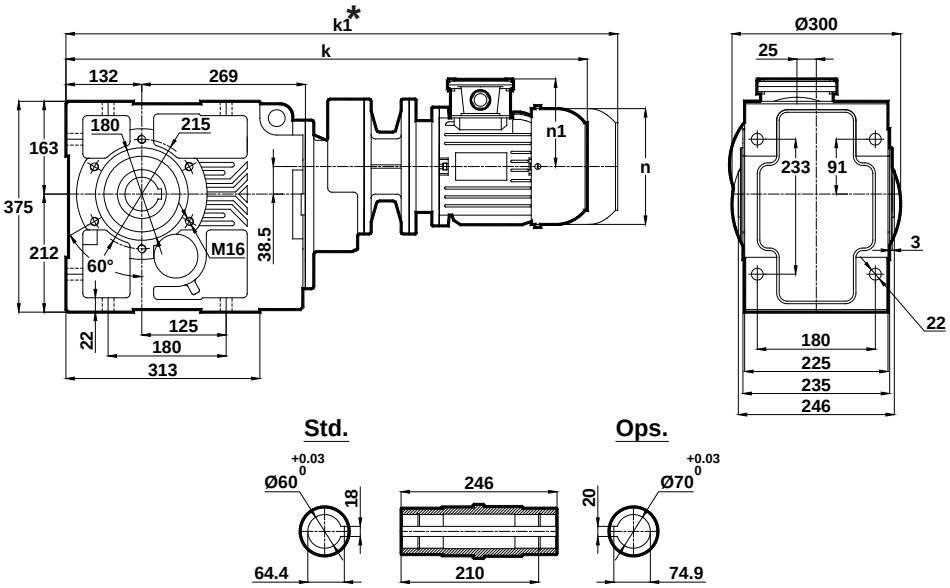
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

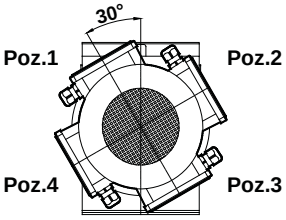
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV574.00



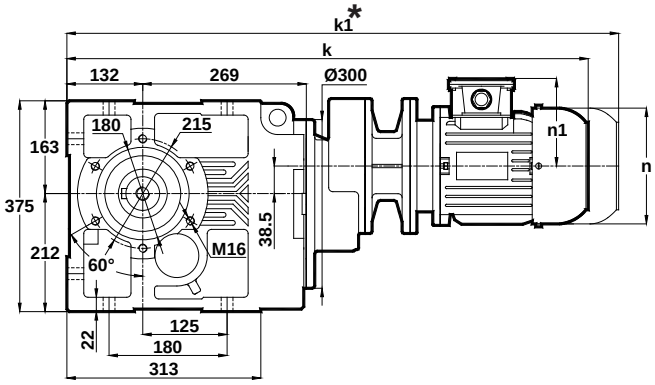
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	773	793	813	838	887
k1	893	913	938	963	1022
n	138	156	176	176	194
n1	110	118	126	126	135

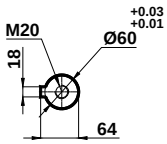
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71-80-90-100
Tipo / *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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

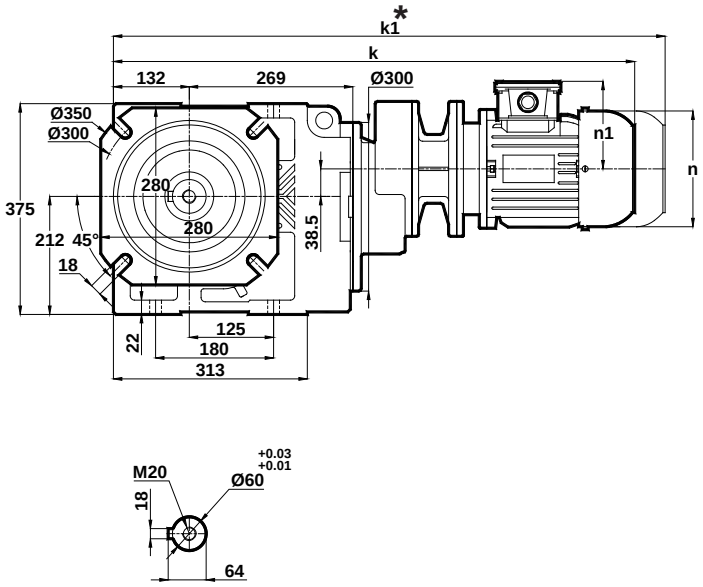
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

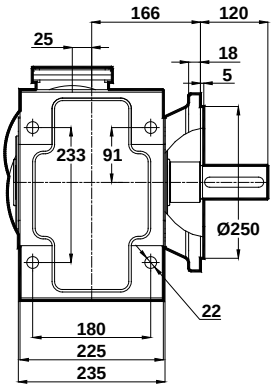


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

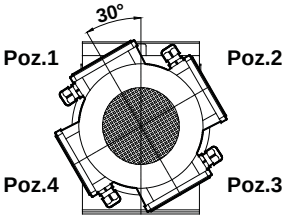
KV574.02





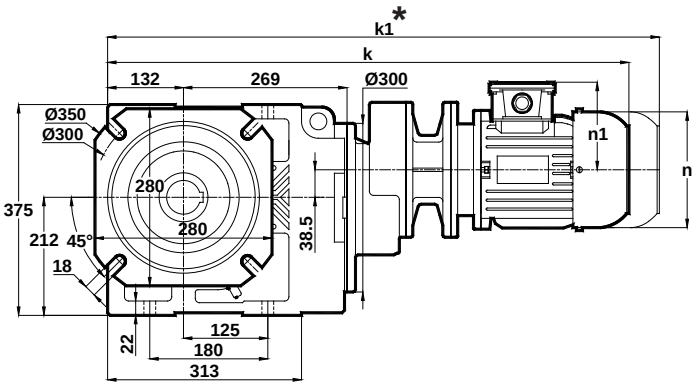
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	773	793	813	838	887
k1	893	913	938	963	1022
n	138	156	176	176	194
n1	110	118	126	126	135

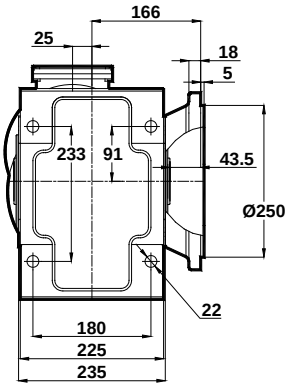
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

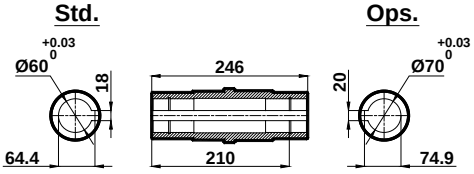


71-80-90-100
Tipo / *Type* **/** Typ

KV574.03





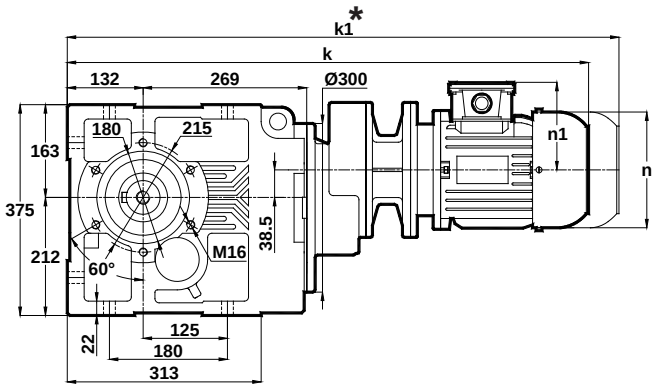


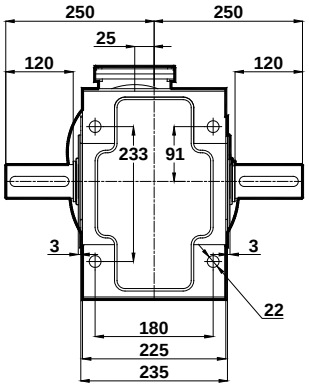
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	773	793	813	838	887
k1	893	913	938	963	1022
n	138	156	176	176	194
n1	110	118	126	126	135

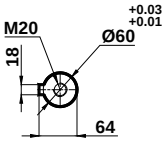
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV574.04

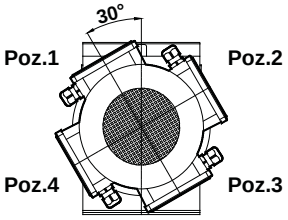






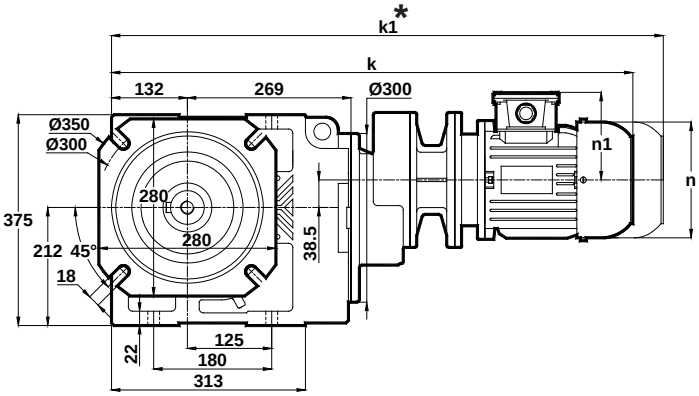
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	773	793	813	838	887
k1	893	913	938	963	1022
n	138	156	176	176	194
n1	110	118	126	126	135

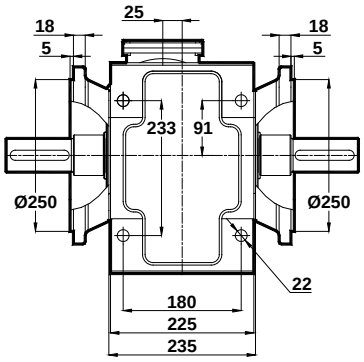
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

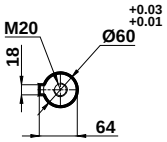


71-80-90-100
Tipo / *Type /* Typ

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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

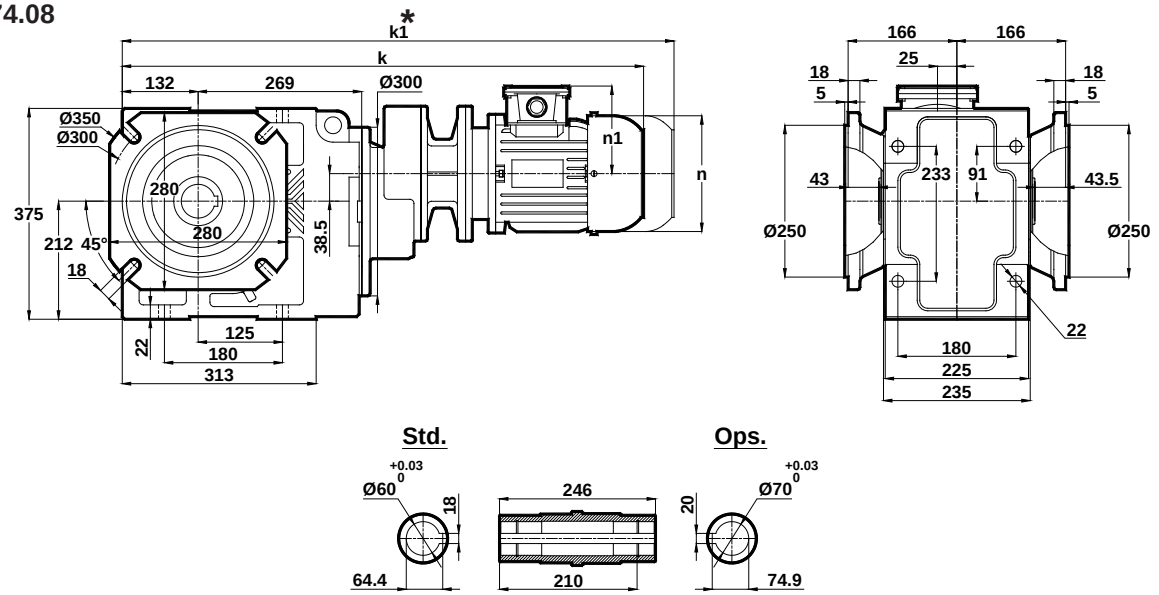
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

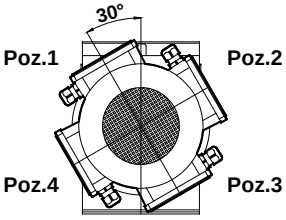
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

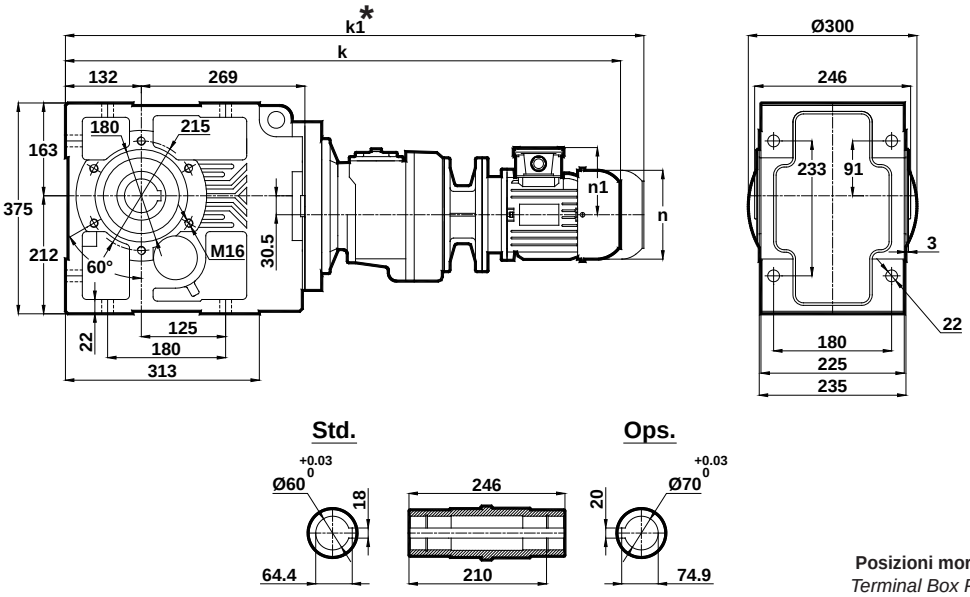


71-80-90-100
Tipo / *Type* **/** Typ

La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

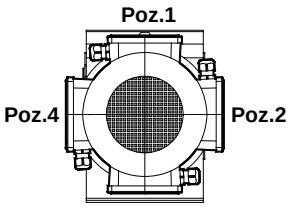
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV575.00
KV576.00



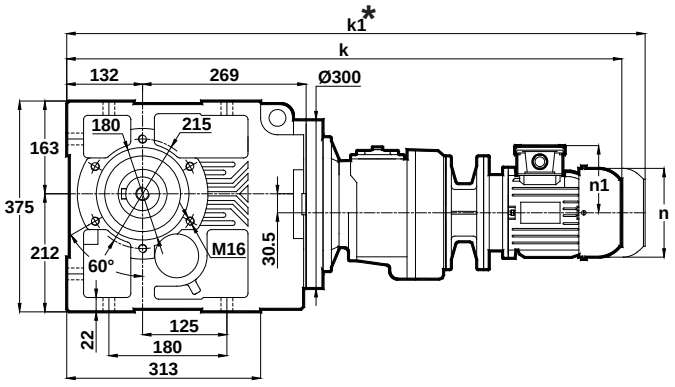
	63/B5	71/B5	80/B5
k	877	874	923
k1	-	994	1043
n	116	138	156
n1	97	110	118

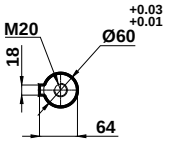
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



63-71-80
Tipo / *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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

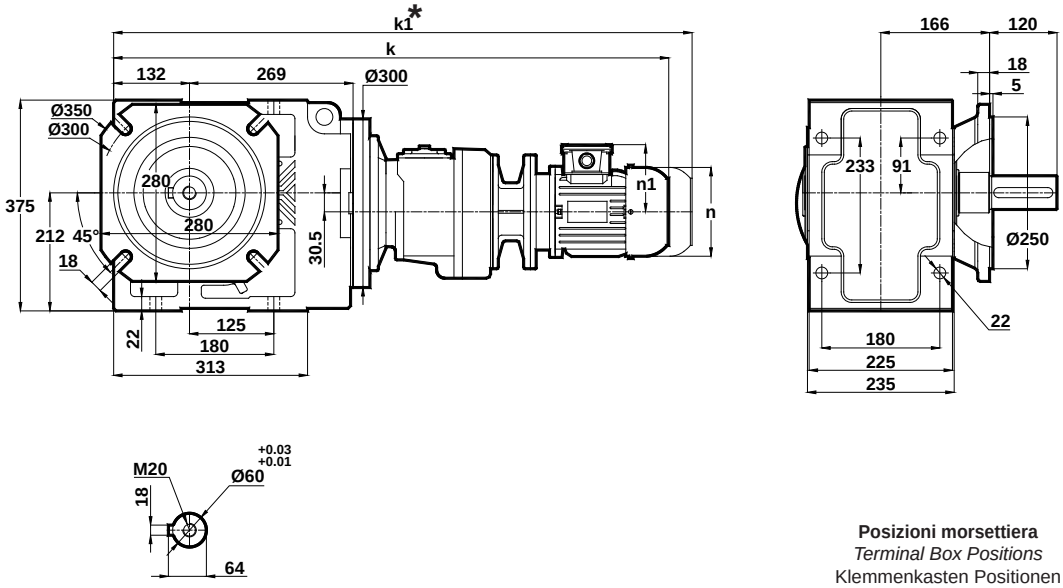
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

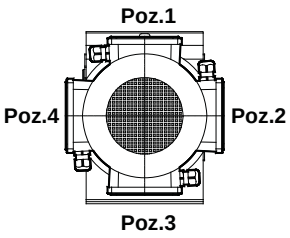
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV575.02
KV576.02



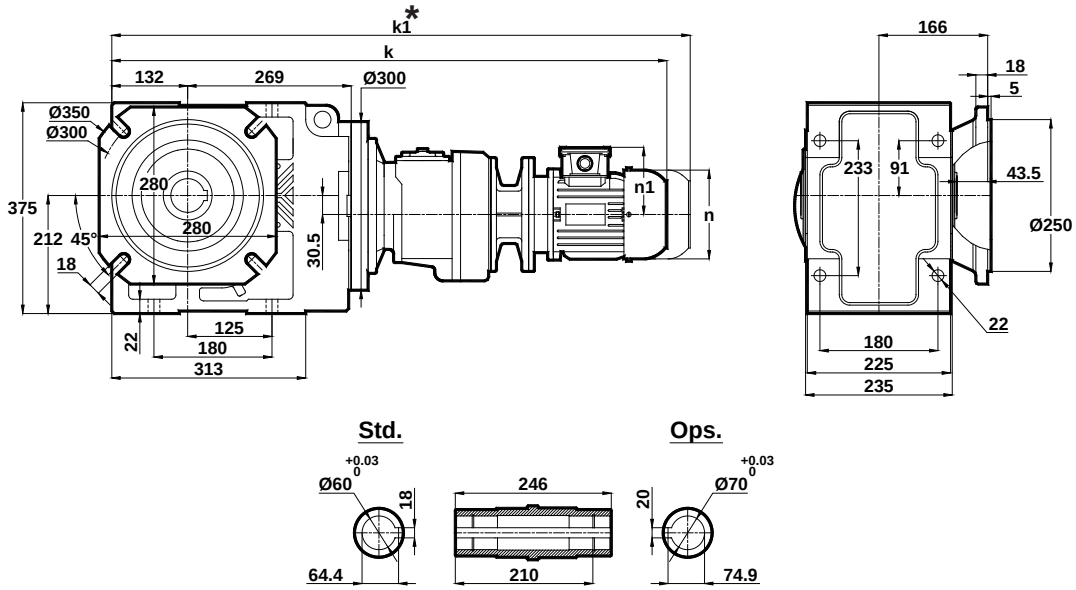
	63/B5	71/B5	80/B5
k	877	874	923
k1	-	994	1043
n	116	138	156
n1	97	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

KV575.03
KV576.03



	63/B5	71/B5	80/B5
k	877	874	923
k1	-	994	1043
n	116	138	156
n1	97	110	118

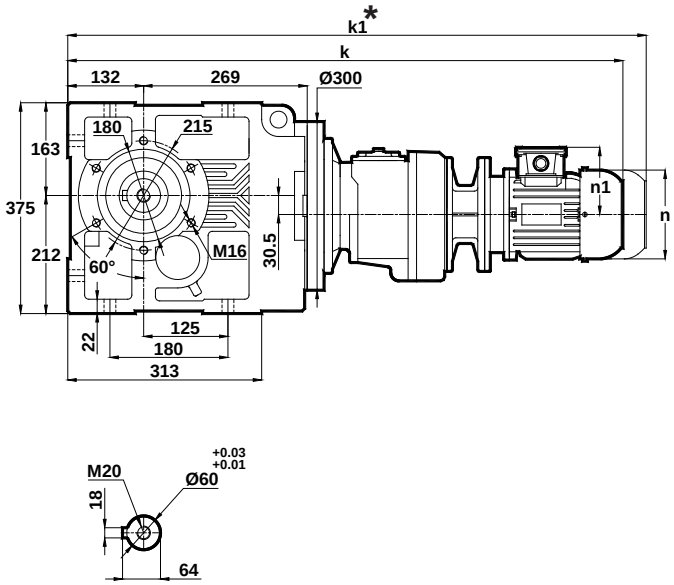
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

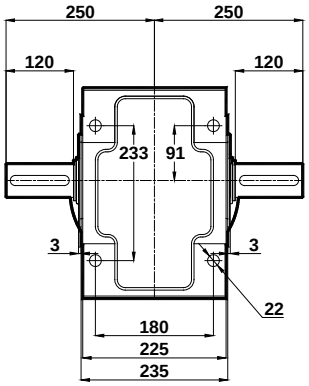


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

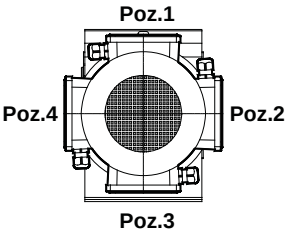
KV575.04
KV576.04





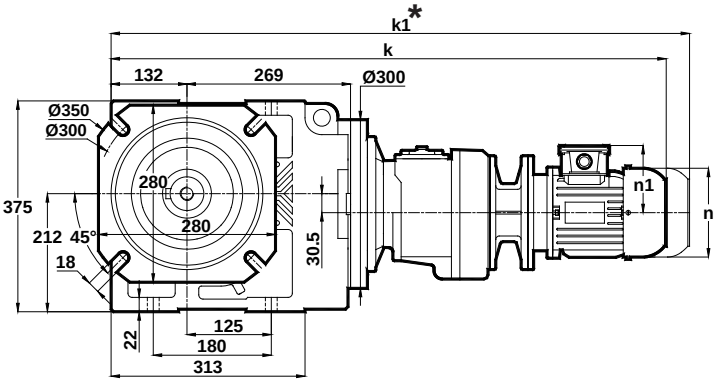
	63/B5	71/B5	80/B5
k	877	874	923
k1	-	994	1043
n	116	138	156
n1	97	110	118

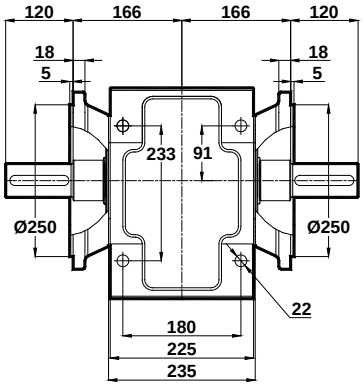
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

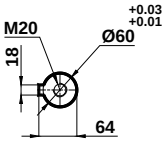


63-71-80
Tipo / *Type* / Typ

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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

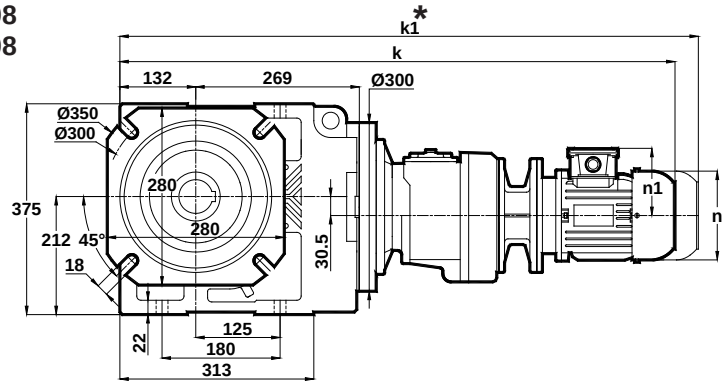
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

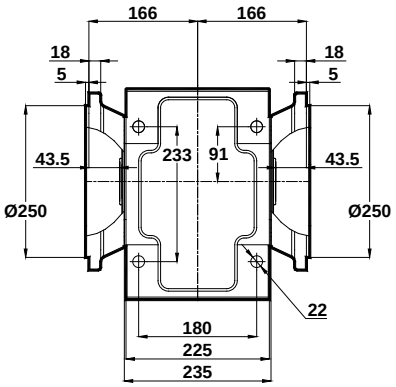


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

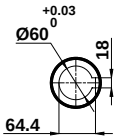
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

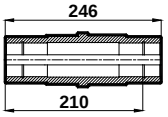
KV575.08
KV576.08



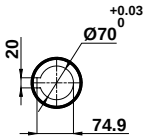


Std.



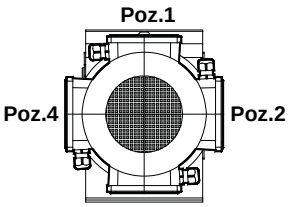


Ops.



	63/B5	71/B5	80/B5
k	877	874	923
k1	-	994	1043
n	116	138	156
n1	97	110	118

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

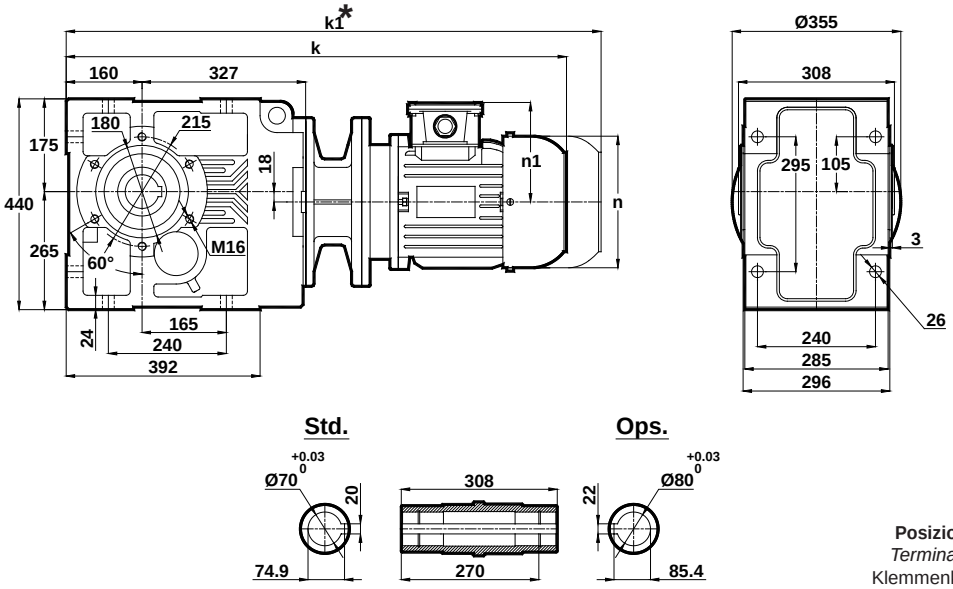
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

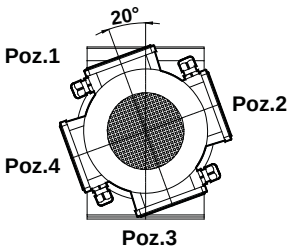
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV673.00



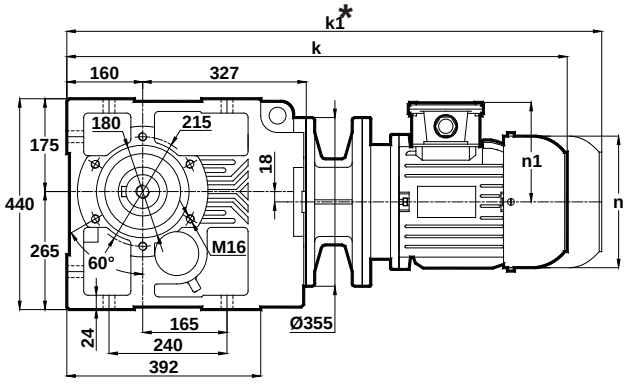
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	872	892	951	989	1136	1180	1193	1231	1303	1374	1399
k1	1007	1027	1096	1134	1306	1350	1363	1401	1503	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

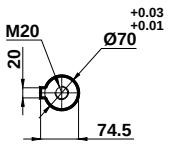
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



100-112-132-160-180-200-225
Tipo / *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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

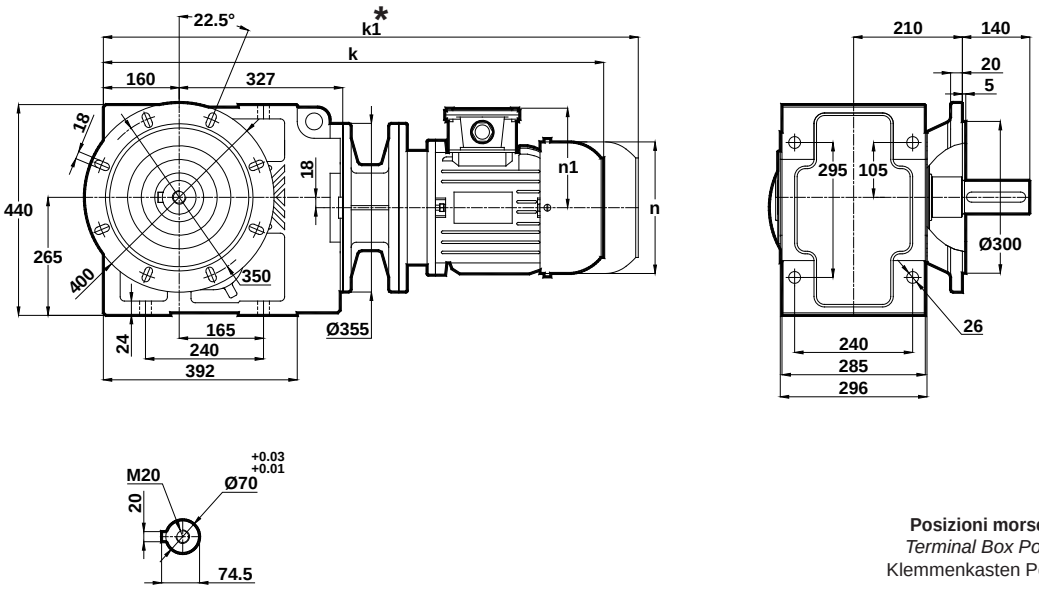
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

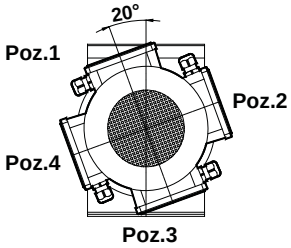
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV673.02



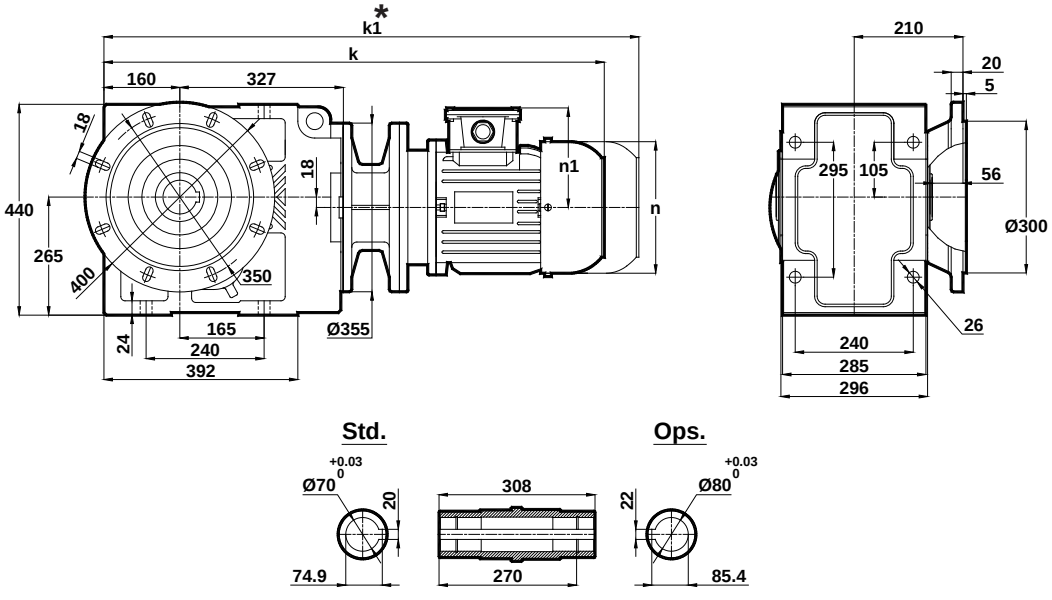
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	872	892	951	989	1136	1180	1193	1231	1303	1374	1399
k1	1007	1027	1096	1134	1306	1350	1363	1401	1503	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



100-112-132-160-180-200-225
Tipo / *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

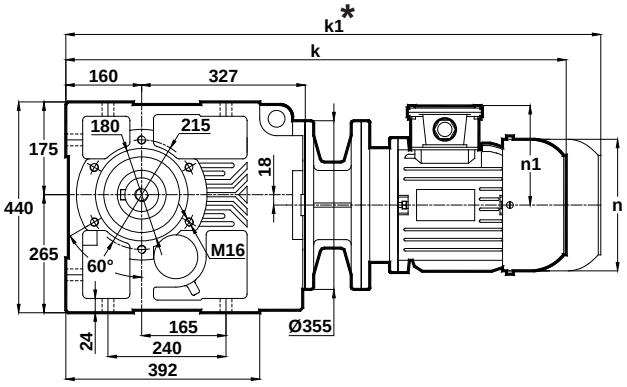
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

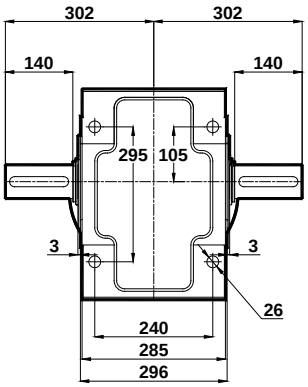


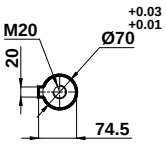
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV673.04

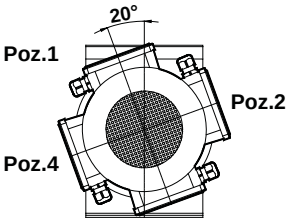






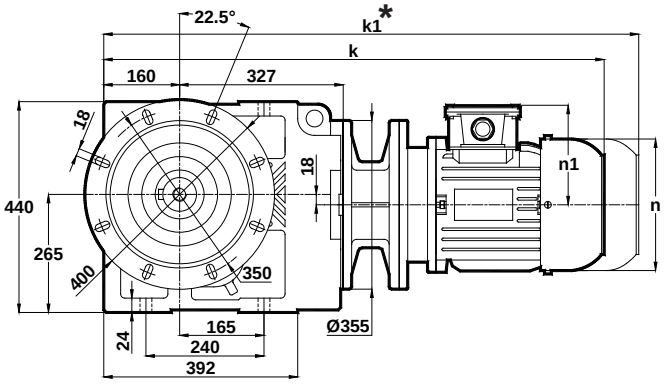
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5
k	872	892	951	989	1136	1180	1193	1231	1303	1374	1399
k1	1007	1027	1096	1134	1306	1350	1363	1401	1503	-	-
n	194	218	258	258	310	310	348	348	390	433	433
n1	135	146	168	168	225	225	241	241	275	285	285

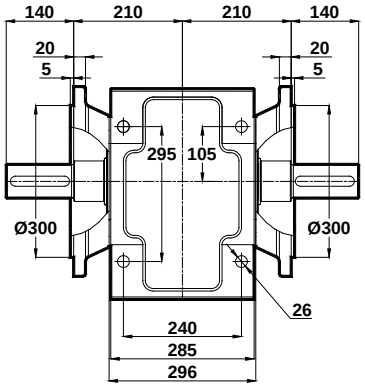
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

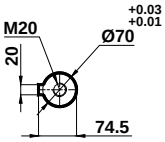


100-112-132-160-180-200-225
Tipo / *Type* / Typ

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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

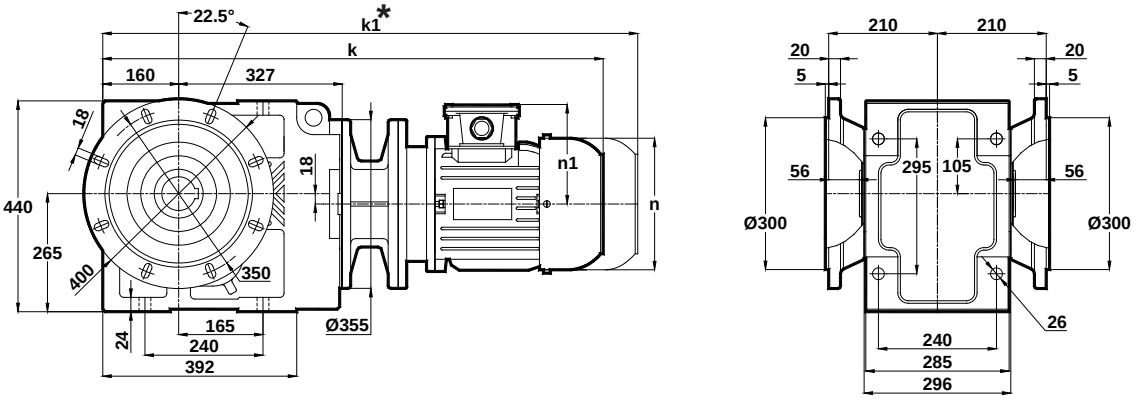
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

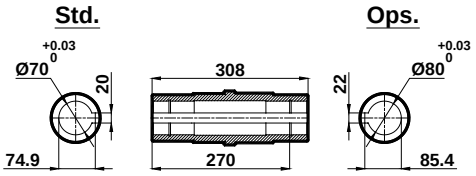


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

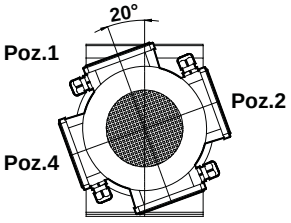
KV673.08





	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

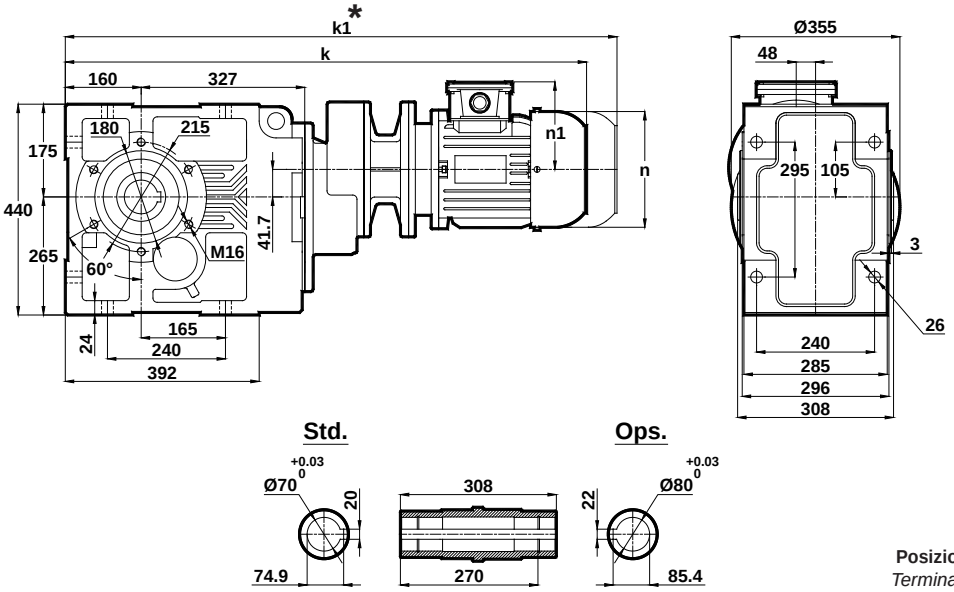
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

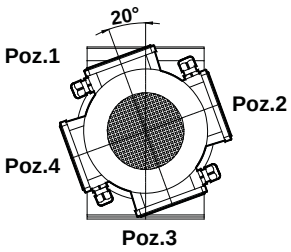
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV674.00



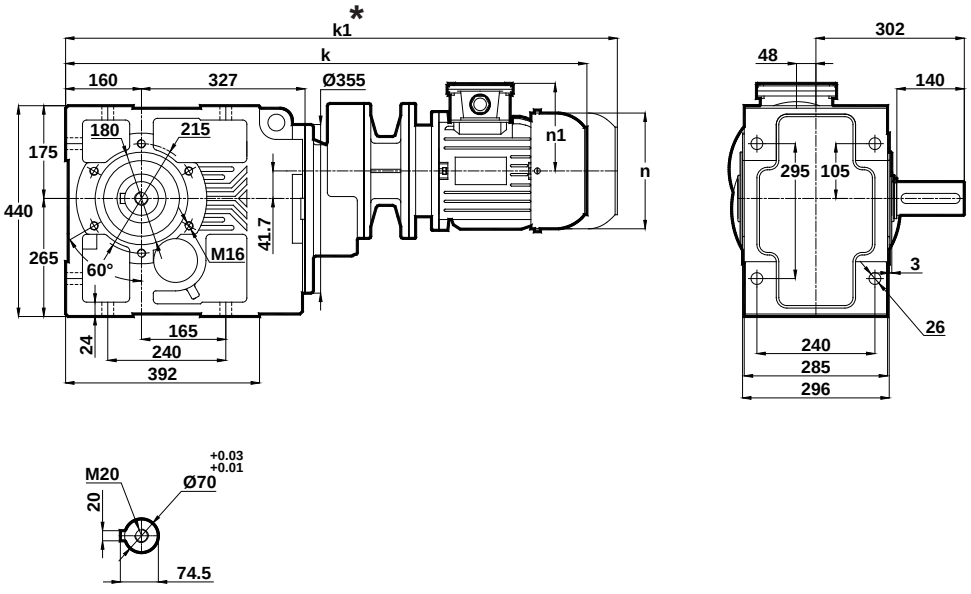
	80/B5	90S/B5	90L/B5	100L/B5
k	885	905	930	980
k1	1005	1030	1055	1115
n	156	176	176	194
n1	118	126	126	135

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



80-90-100
Tipo / *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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

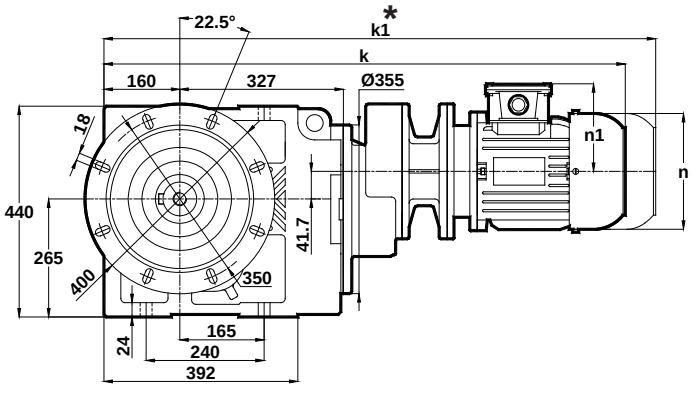
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

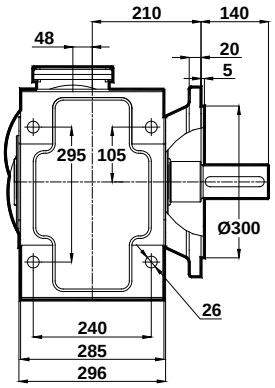


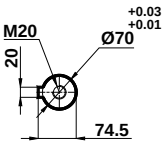
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV674.02

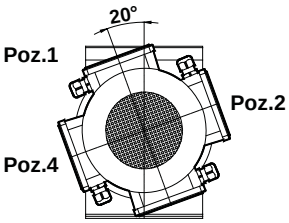






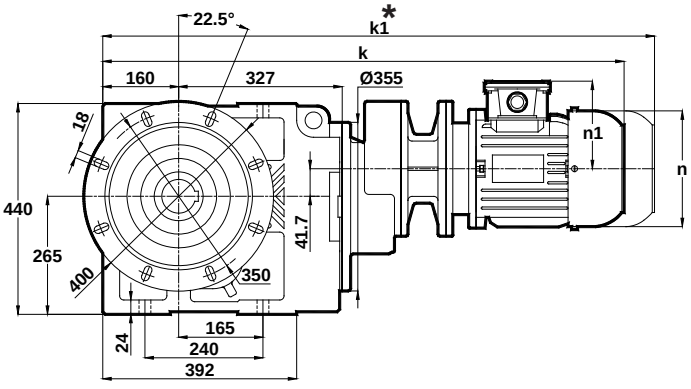
	80/B5	90S/B5	90L/B5	100L/B5
k	885	905	930	980
k1	1005	1030	1055	1115
n	156	176	176	194
n1	118	126	126	135

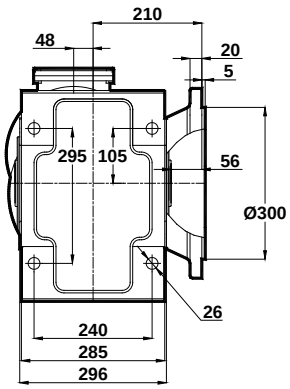
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



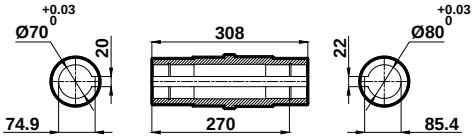
80-90-100
Tipo / *Type* / Typ

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

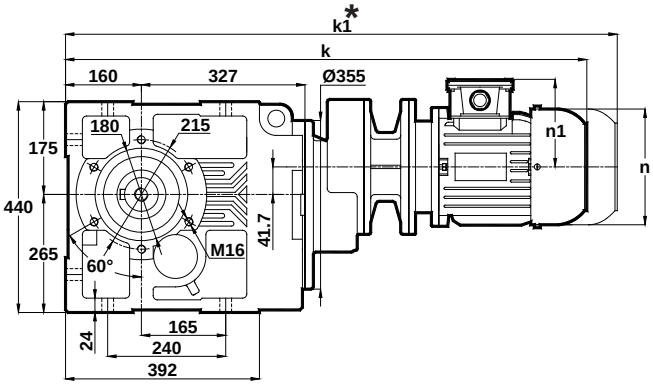
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

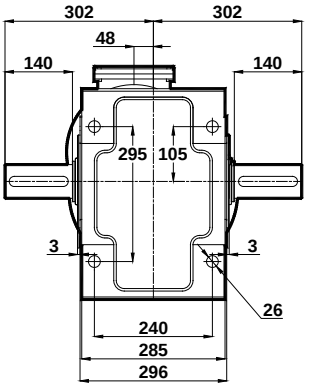


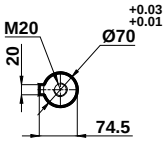
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV674.04

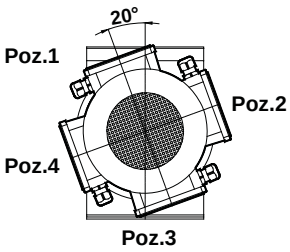






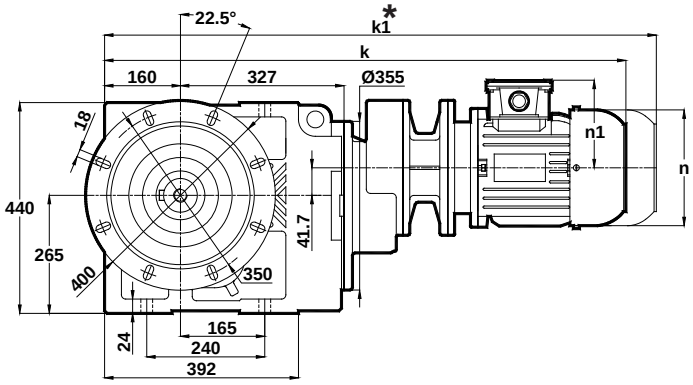
	80/B5	90S/B5	90L/B5	100L/B5
k	885	905	930	980
k1	1005	1030	1055	1115
n	156	176	176	194
n1	118	126	126	135

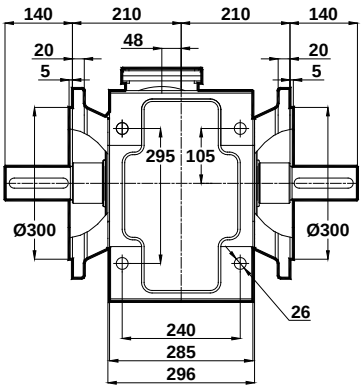
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

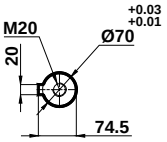


80-90-100
Tipo / *Type* / Typ

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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

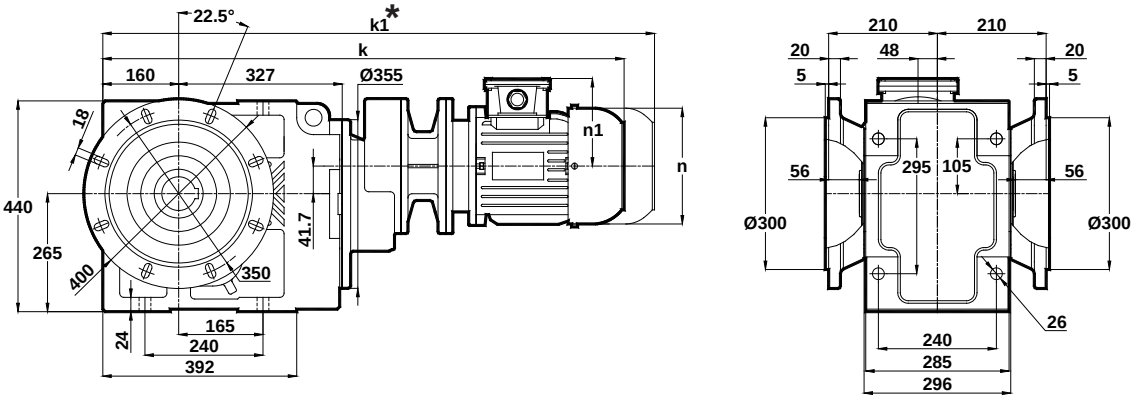
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

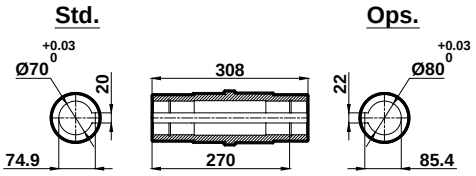


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

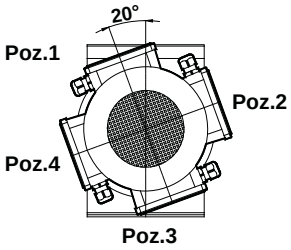
KV674.08





	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

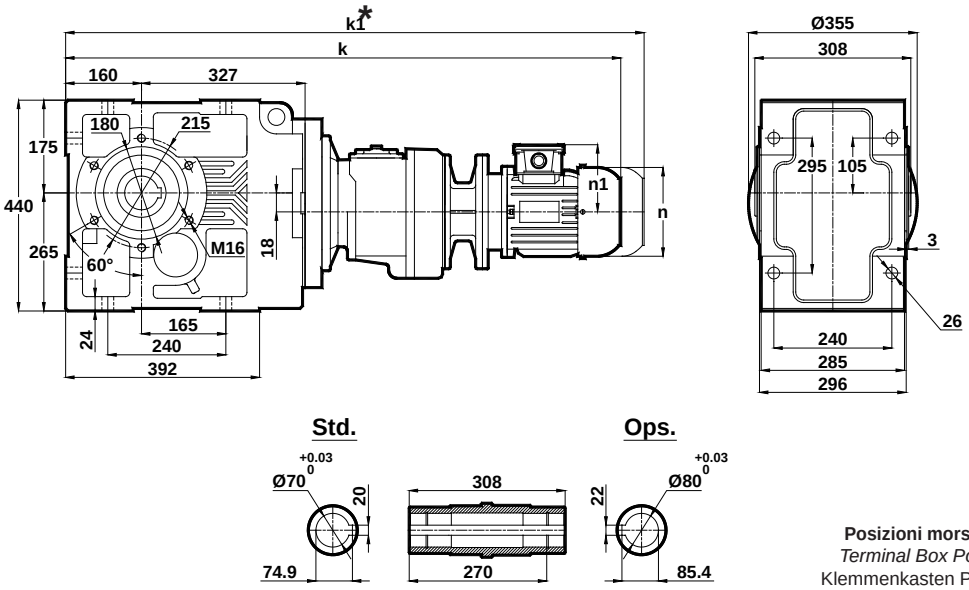
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

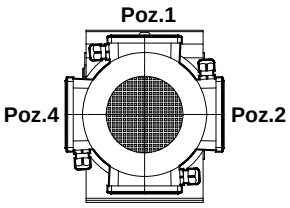
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV675.00
KV676.00



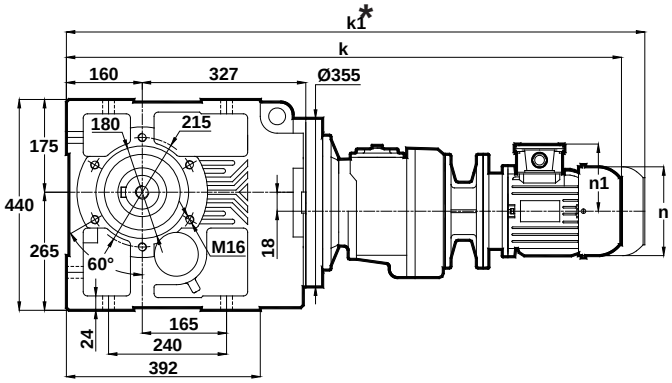
	71/B5	80/B5	90S/B5	90L/B5
k	1016	1036	1056	1081
k1	1136	1156	1181	1206
n	138	156	176	176
n1	110	118	126	126

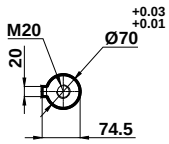
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71-80-90
Tipo / *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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

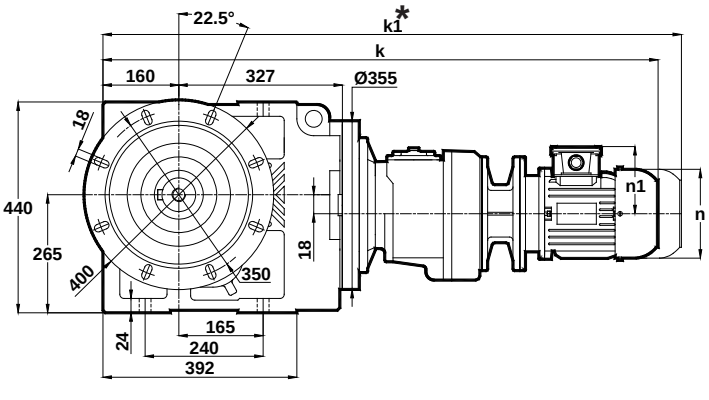
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

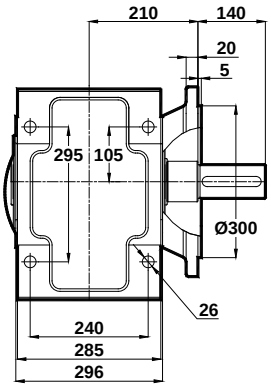


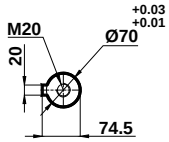
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV675.02
KV676.02

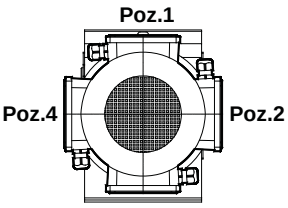






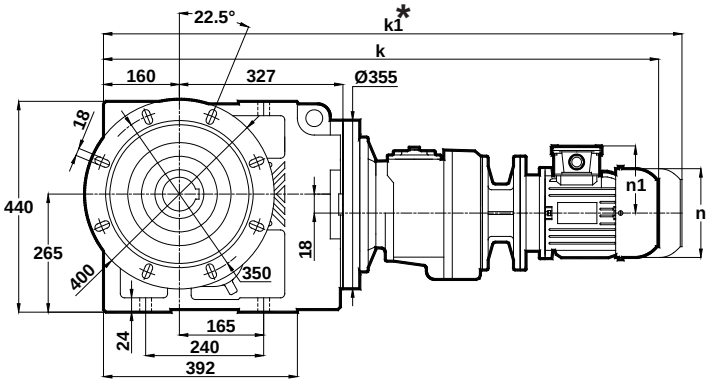
	71/B5	80/B5	90S/B5	90L/B5
k	1016	1036	1056	1081
k1	1136	1156	1181	1206
n	138	156	176	176
n1	110	118	126	126

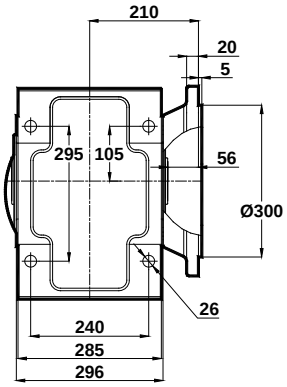
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



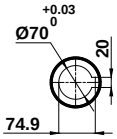
71-80-90
Tipo / *Type* / Typ

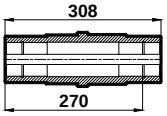
KV675.03
KV676.03



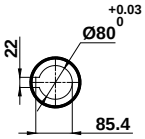


Std.





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

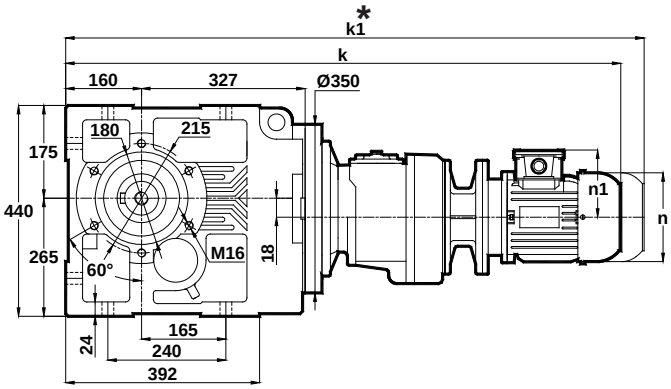
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

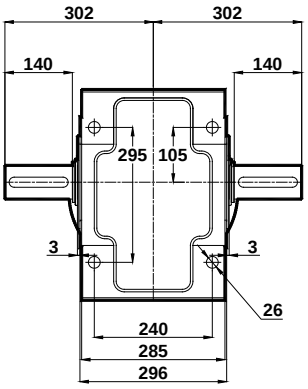


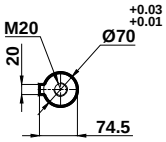
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV675.04
KV676.04

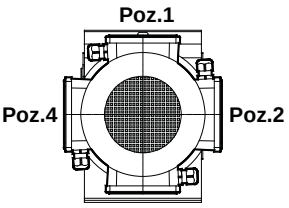






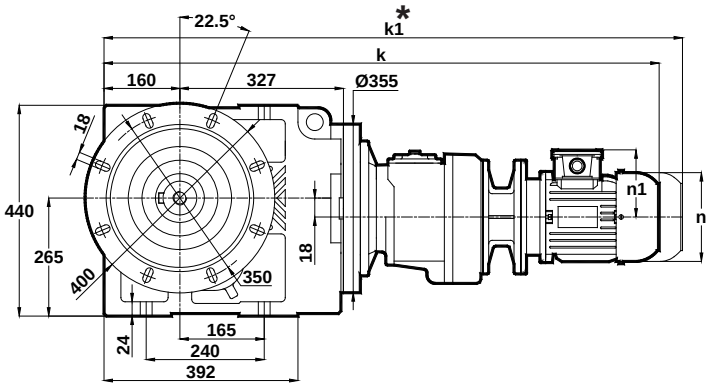
	71/B5	80/B5	90S/B5	90L/B5
k	1016	1036	1056	1081
k1	1136	1156	1181	1206
n	138	156	176	176
n1	110	118	126	126

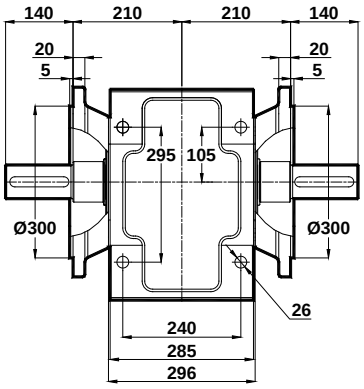
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

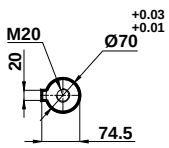


71-80-90
Tipo / *Type* / Typ

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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

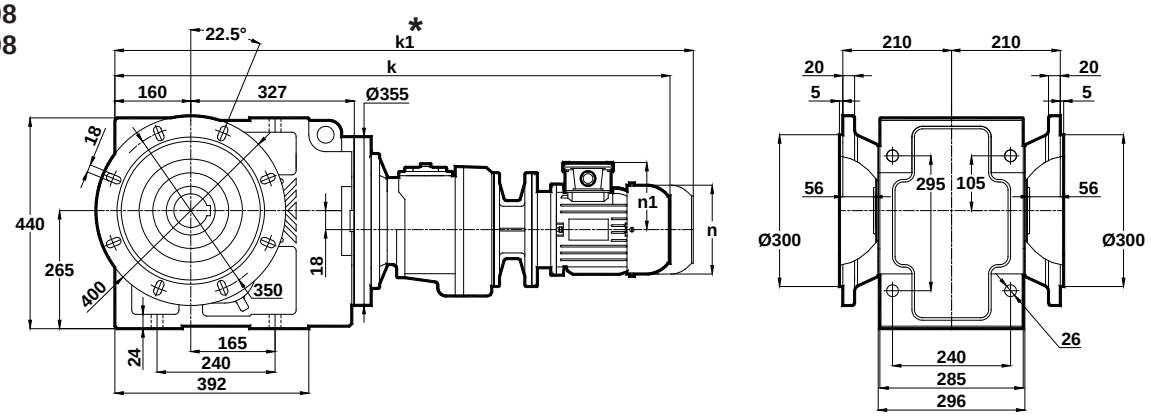
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

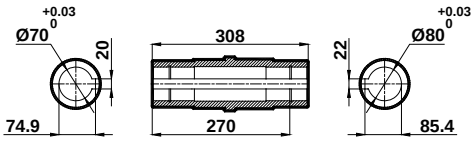


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

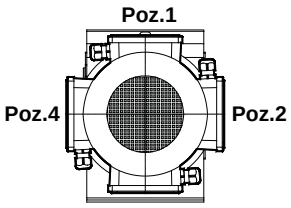
KV675.08
KV676.08





	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

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71-80-90
Tipo / *Type* / Typ

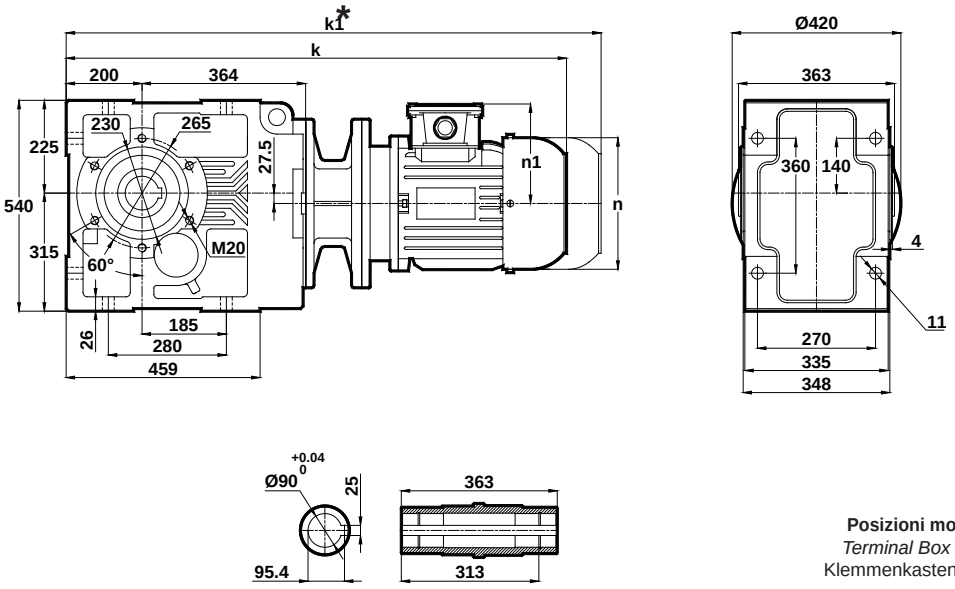
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

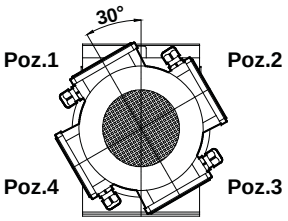
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV773.00



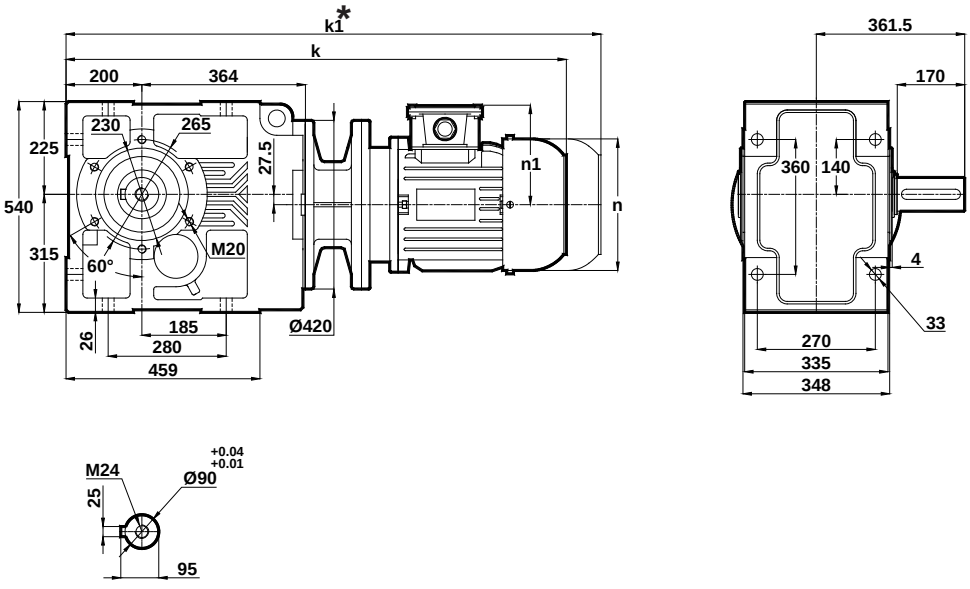
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1028	1066	1207	1251	1264	1302	1376	1447	1472	1548
k1	1173	1211	1377	1421	1434	1472	1576	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



132-160-180-200-225-250
Tipo / *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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

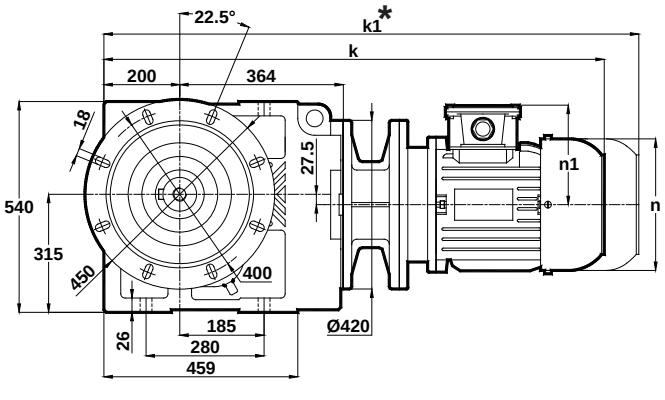
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

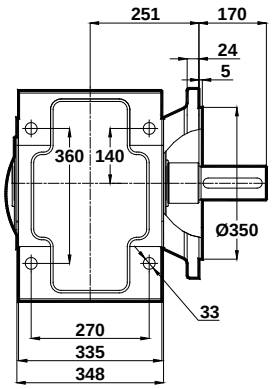


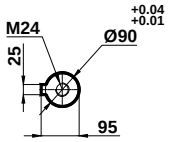
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV773.02

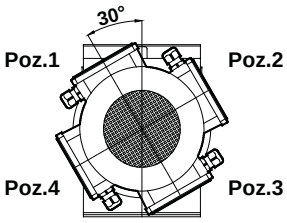






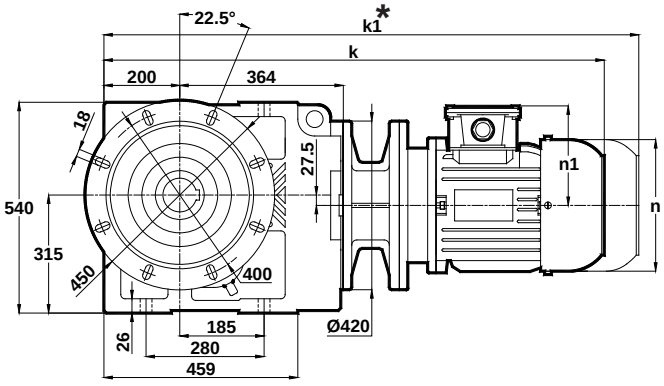
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1028	1066	1207	1251	1264	1302	1376	1447	1472	1548
k1	1173	1211	1377	1421	1434	1472	1576	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

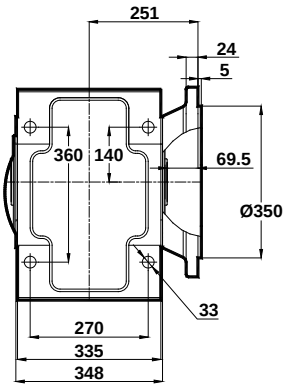
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

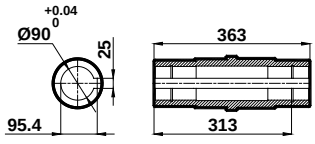


132-160-180-200-225-250
Tipo / *Type* / Typ

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

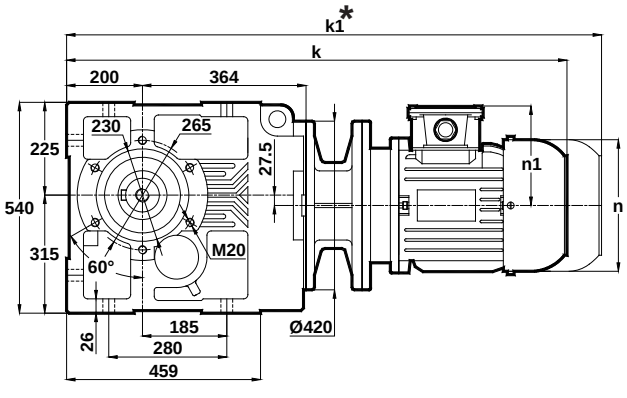
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

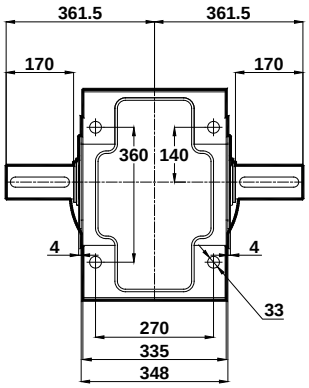


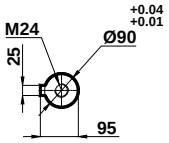
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV773.04

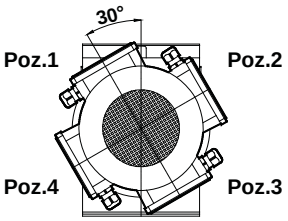






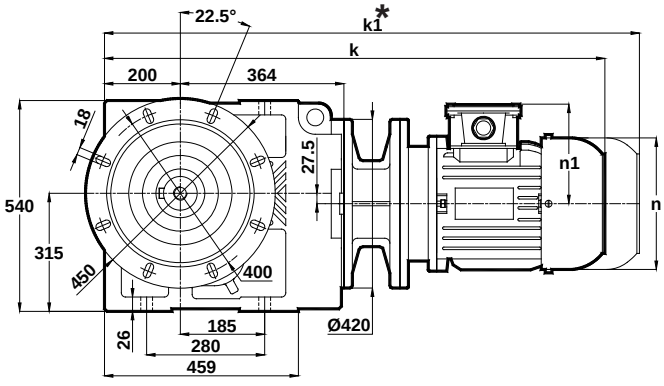
	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1028	1066	1207	1251	1264	1302	1376	1447	1472	1548
k1	1173	1211	1377	1421	1434	1472	1576	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

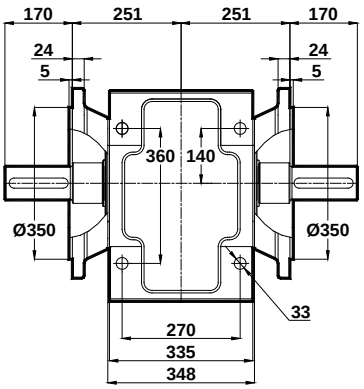
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

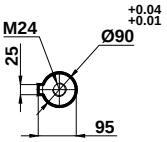


132-160-180-200-225-250
Tipo / *Type* **/** Typ

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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

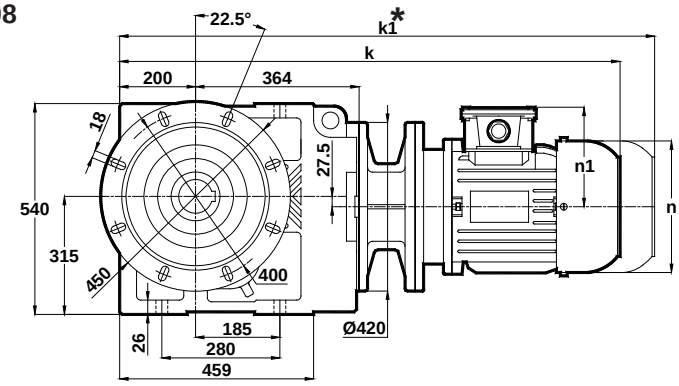
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

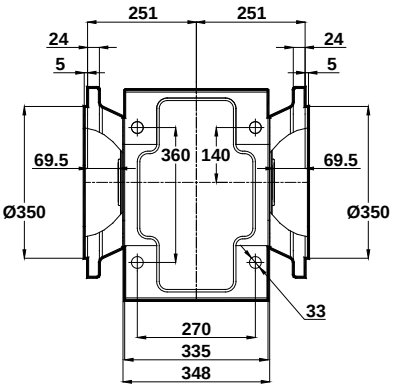


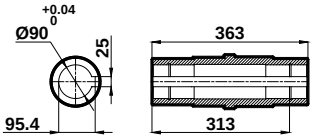
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV773.08

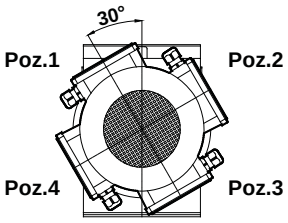






	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5
k	1028	1066	1207	1251	1264	1302	1376	1447	1472	1548
k1	1173	1211	1377	1421	1434	1472	1576	-	-	-
n	258	258	310	310	348	348	390	433	433	480
n1	168	168	225	225	241	241	275	285	285	322

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

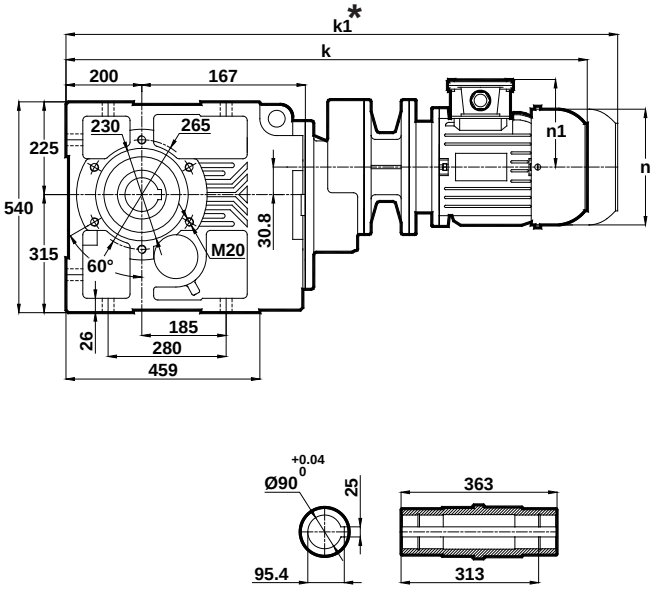
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

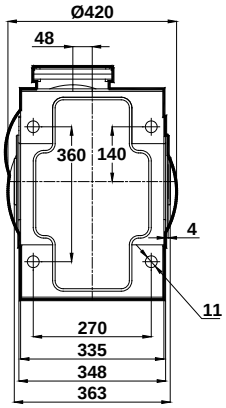


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

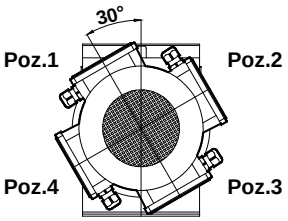
KV774.00





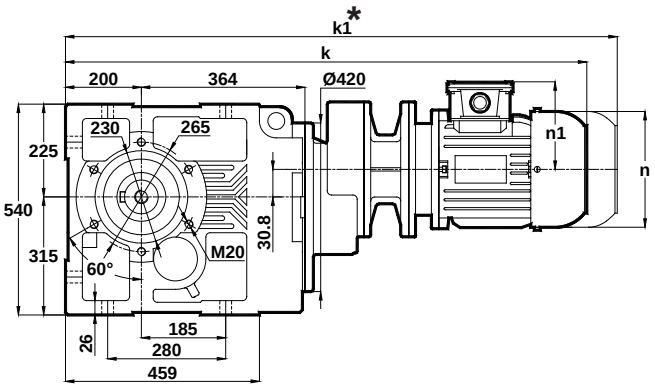
	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	982	1007	1057	1077	1140	1178
k1	1107	1132	1192	1212	1285	1323
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

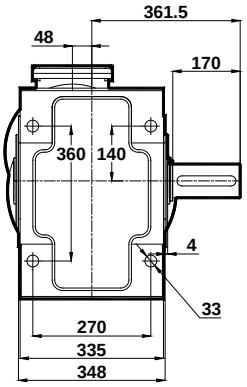
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

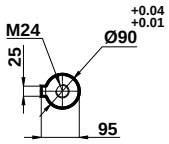


90-100-112-132
Tipo / *Type* **/** Typ

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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

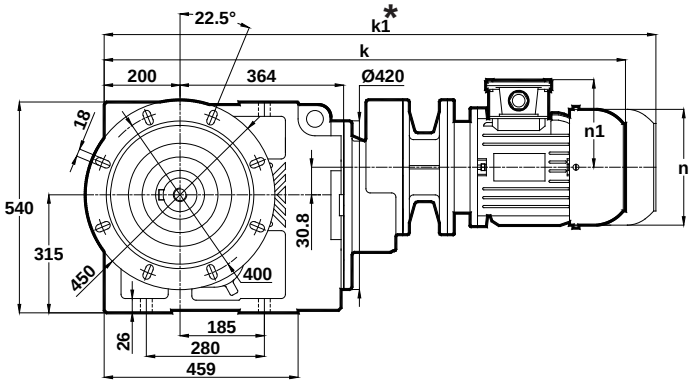
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

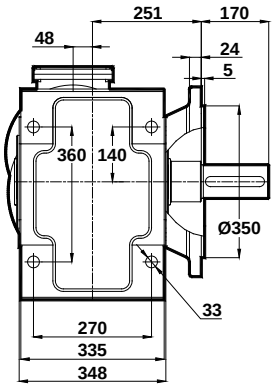


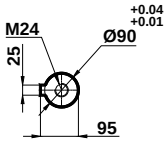
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV774.02

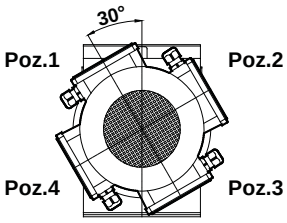






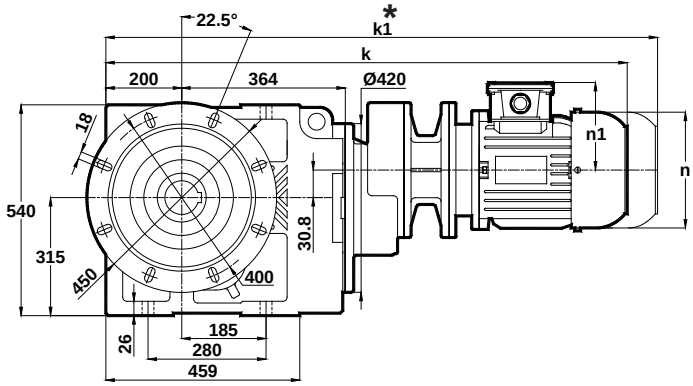
	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	982	1007	1057	1077	1140	1178
k1	1107	1132	1192	1212	1285	1323
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

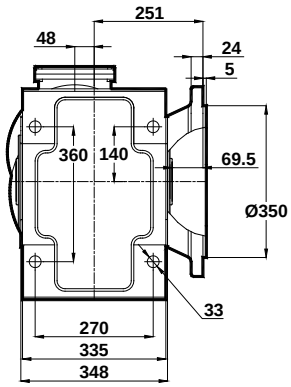
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

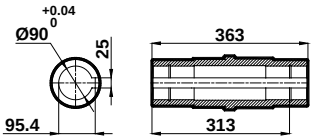


90-100-112-132
Tipo / *Type* / Typ

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

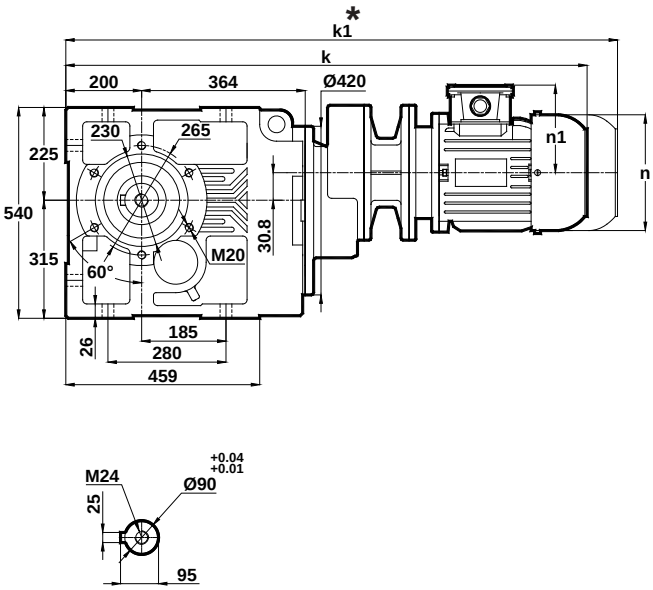
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

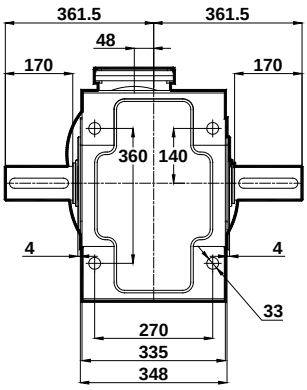


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

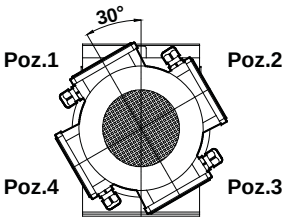
KV774.04





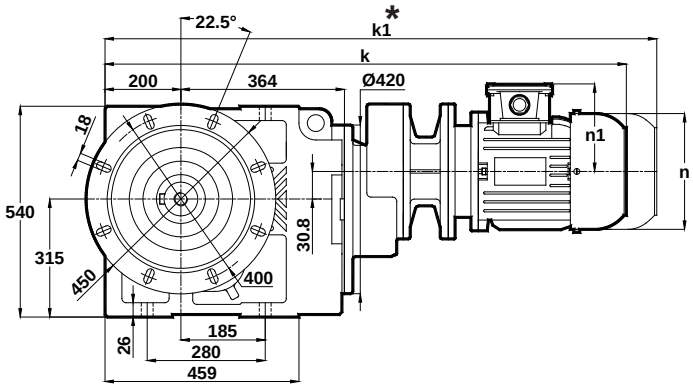
	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	982	1007	1057	1077	1140	1178
k1	1107	1132	1192	1212	1285	1323
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

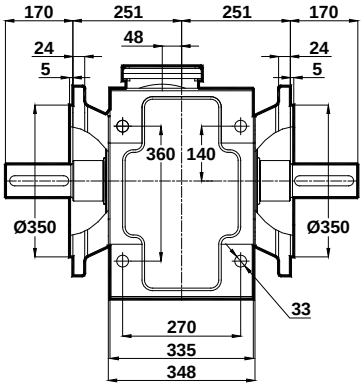
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

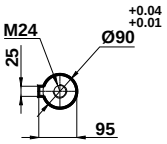


90-100-112-132
Tipo / *Type* / Typ

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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

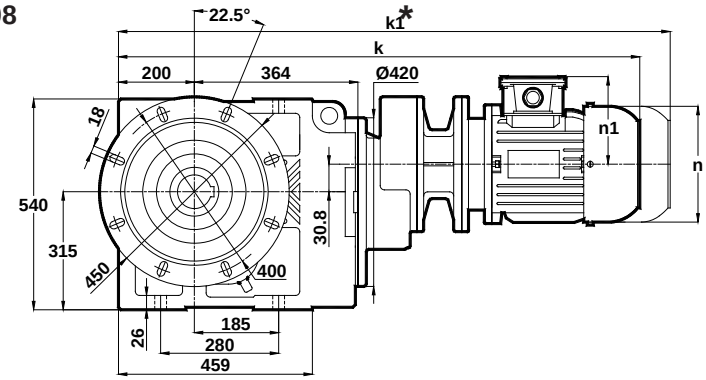
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

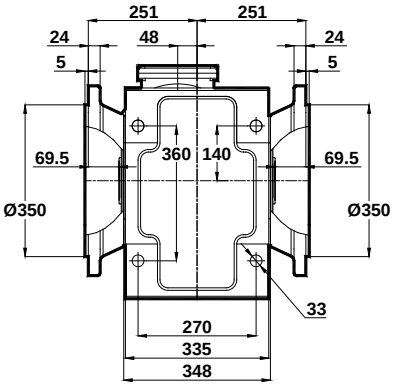


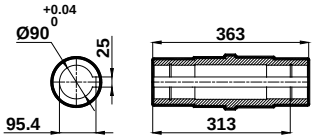
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV774.08

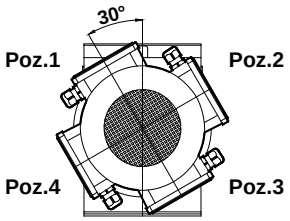






	90S/B5	90L/B5	100L/B5	112M/B5	132S/B5	132M/B5
k	982	1007	1057	1077	1140	1178
k1	1107	1132	1192	1212	1285	1323
n	176	176	194	218	258	258
n1	126	126	135	146	168	168

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

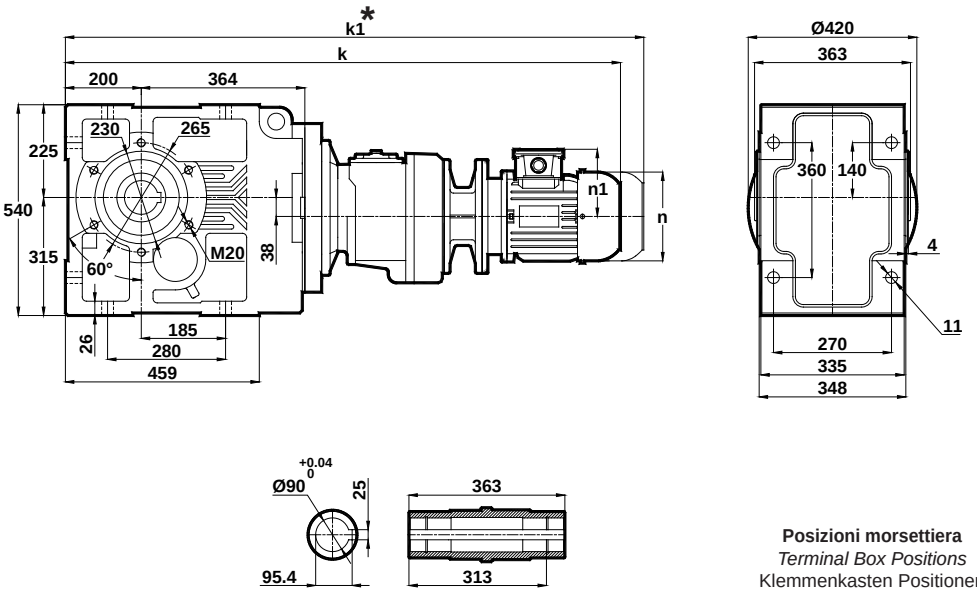
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

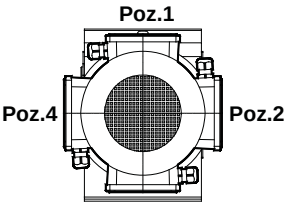
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV775.00
KV776.00



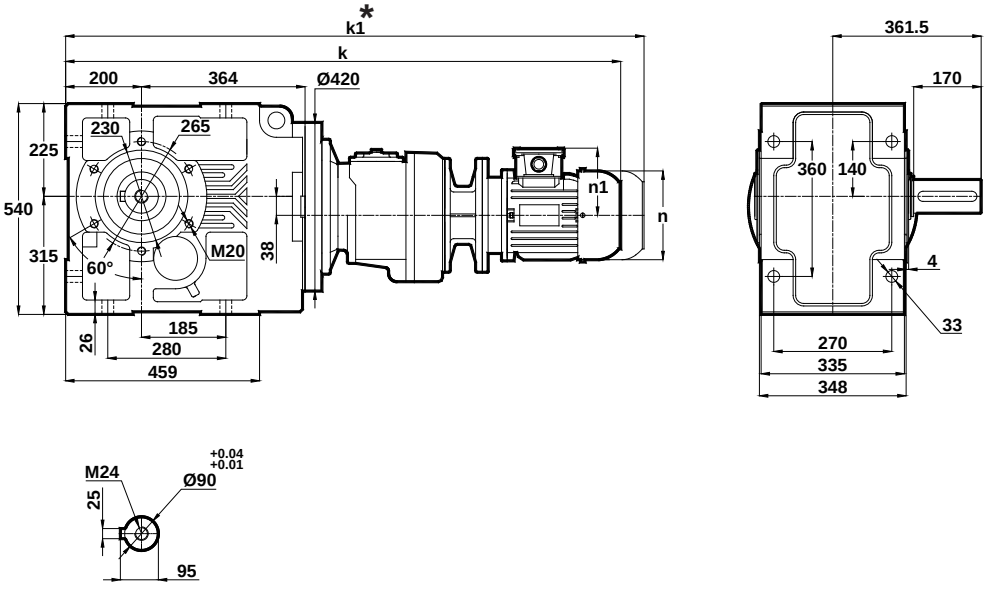
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	1093	1113	1133	1158	1207
k1	1213	1233	1258	1283	1342
n	138	156	176	176	194
n1	110	118	126	126	135

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



Poz.3
71-80-90-100
Tipo / *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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

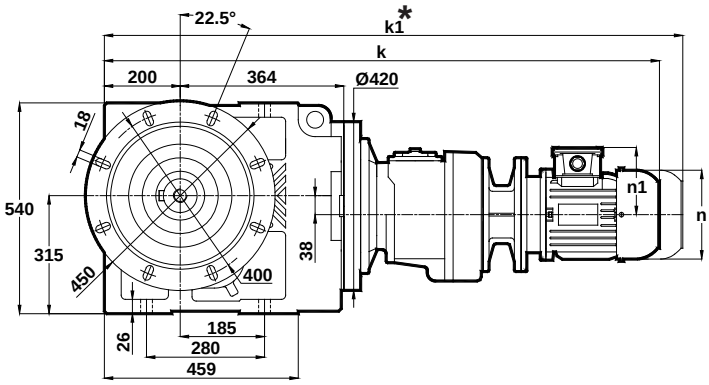
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

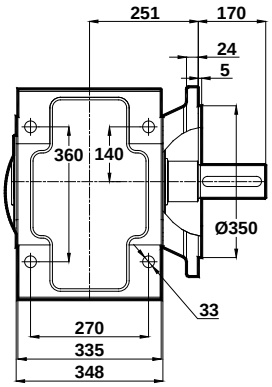


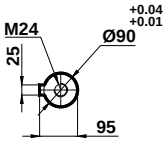
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV775.02
KV776.02

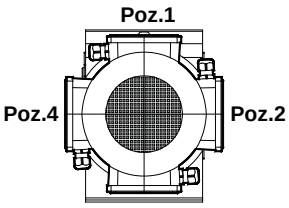






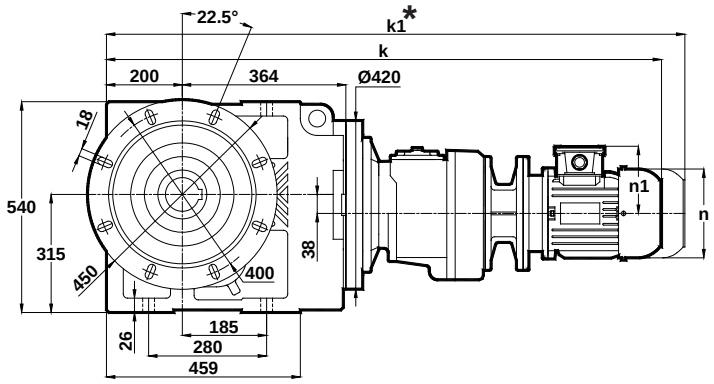
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	1093	1113	1133	1158	1207
k1	1213	1233	1258	1283	1342
n	138	156	176	176	194
n1	110	118	126	126	135

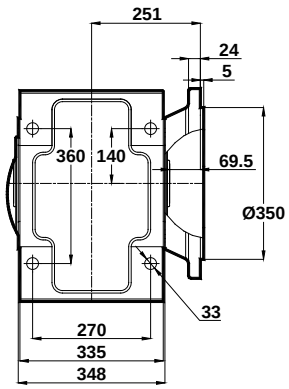
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

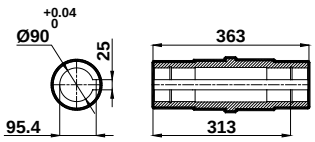


71-80-90-100
Tipo / *Type* / Typ

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

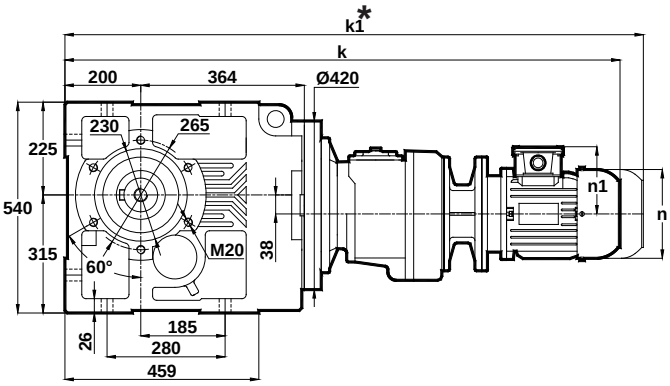
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

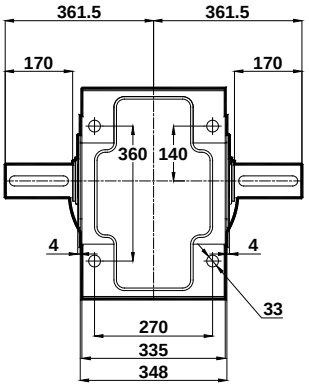


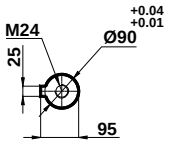
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV775.04
KV776.04

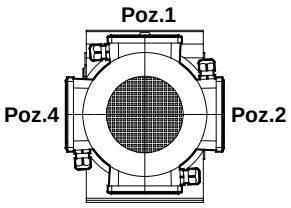






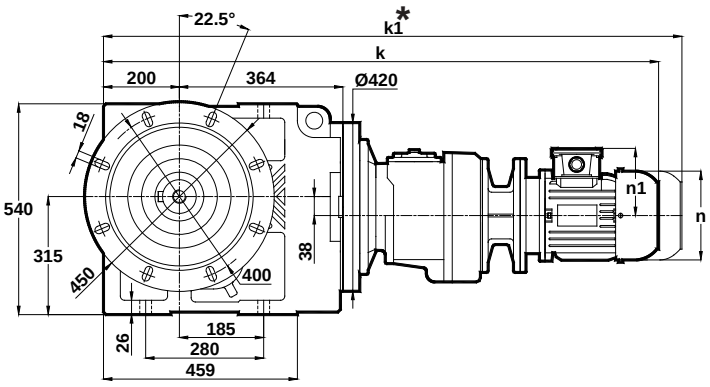
	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	1093	1113	1133	1158	1207
k1	1213	1233	1258	1283	1342
n	138	156	176	176	194
n1	110	118	126	126	135

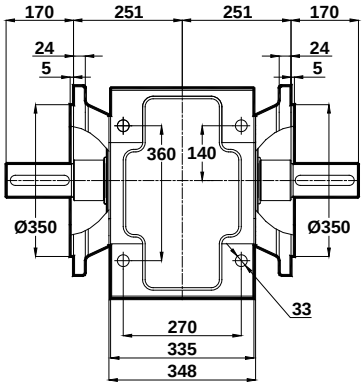
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

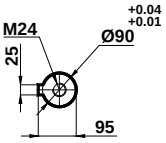


71-80-90-100
Tipo / *Type* / Typ

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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

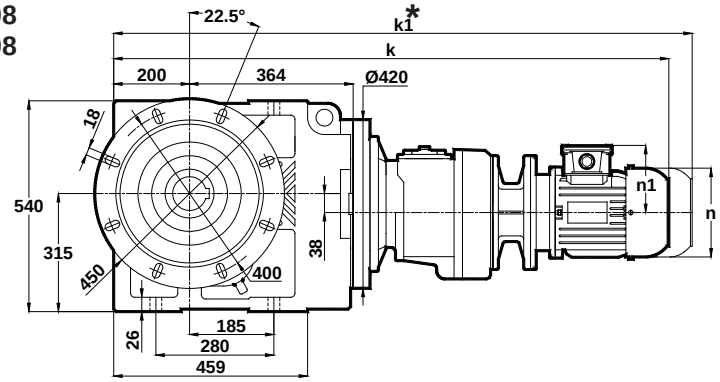
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

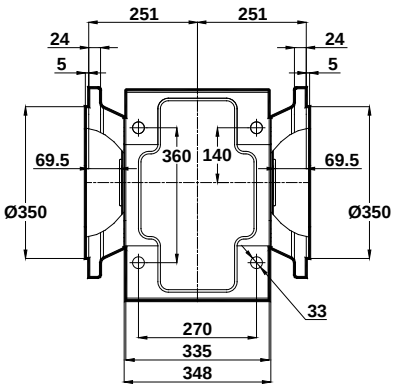


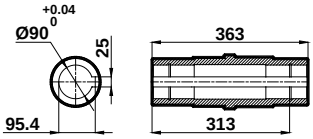
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV775.08
KV776.08

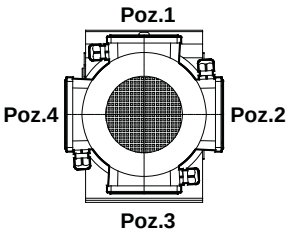






	71/B5	80/B5	90S/B5	90L/B5	100L/B5
k	1093	1113	1133	1158	1207
k1	1213	1233	1258	1283	1342
n	138	156	176	176	194
n1	110	118	126	126	135

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71-80-90-100
Tipo / *Type* / Typ

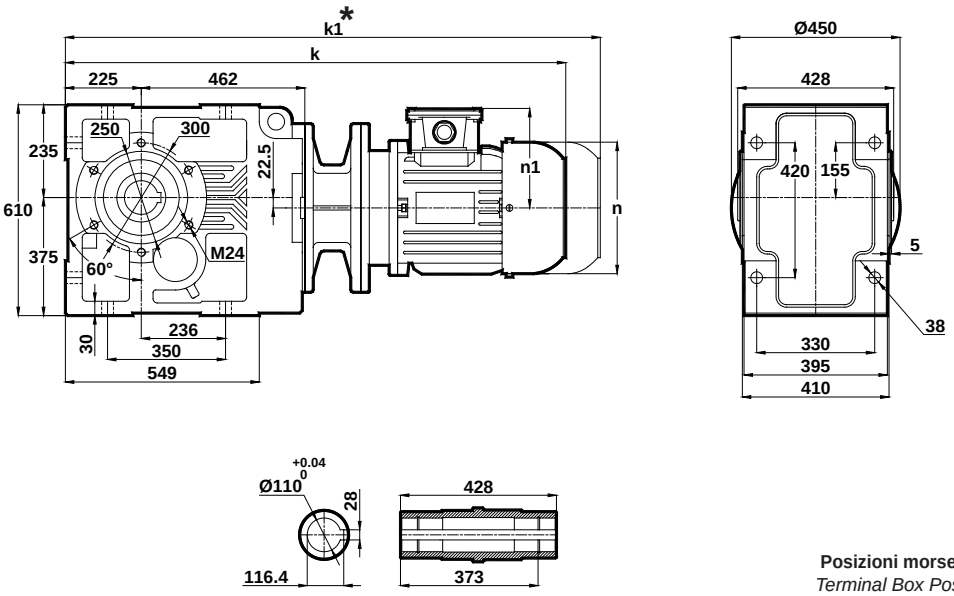
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

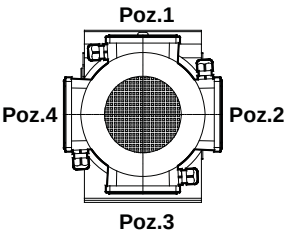
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV873.00



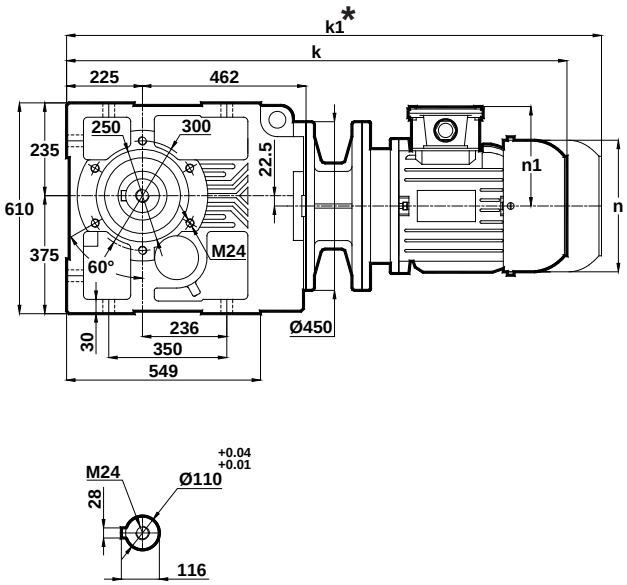
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1395	1439	1452	1490	1542	1560	1585	1661	1723	1723
k1	1595	1609	1622	1660	1742	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



160-180-200-225-250-280
Tipo / *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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

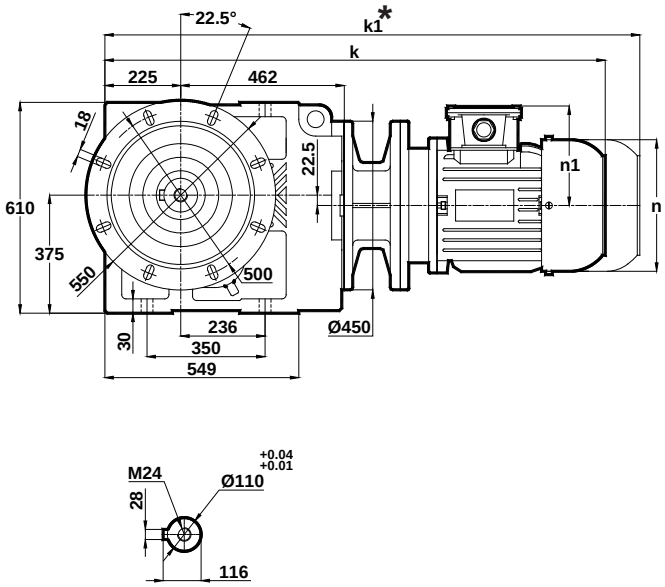
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

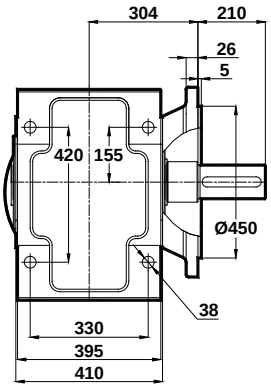


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

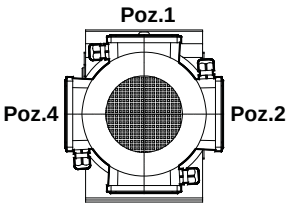
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV873.02





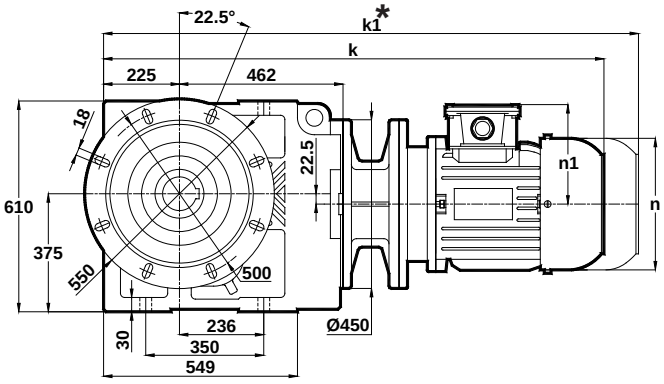
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

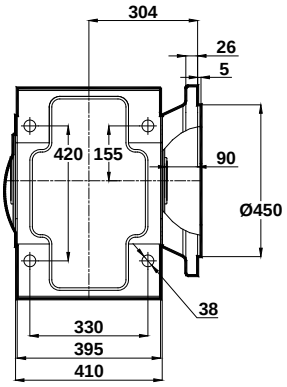


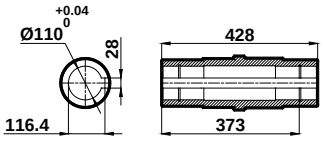
160-180-200-225-250-280
Tipo / *Type* / Typ

	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

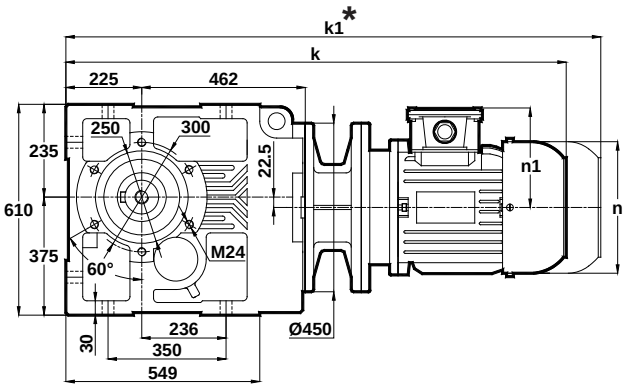
La misura “k1” è per motori dotati di freno.
Dimension “k1” is for motors with brake.
Maße “k1” ist für Bremsenmotoren.

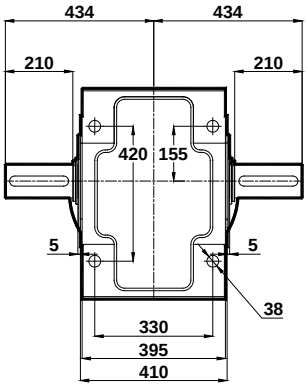


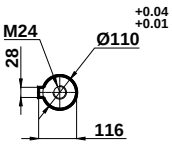
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

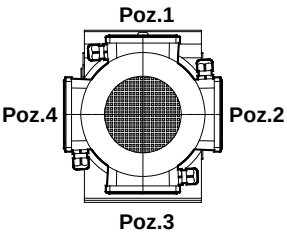
KV873.04







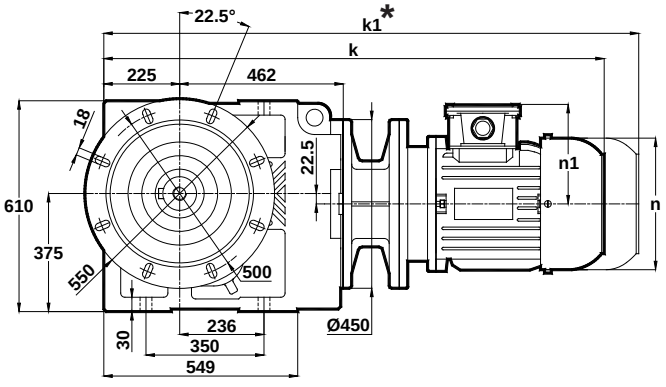
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

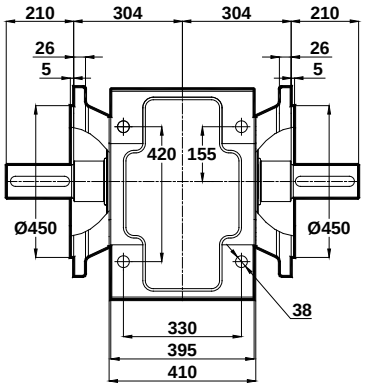


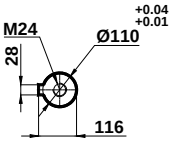
	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1395	1439	1452	1490	1542	1560	1585	1661	1723	1723
k1	1565	1609	1622	1660	1742	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

160-180-200-225-250-280
Tipo / *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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

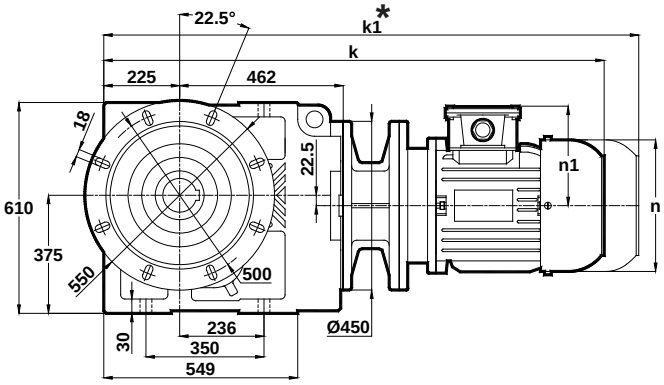
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

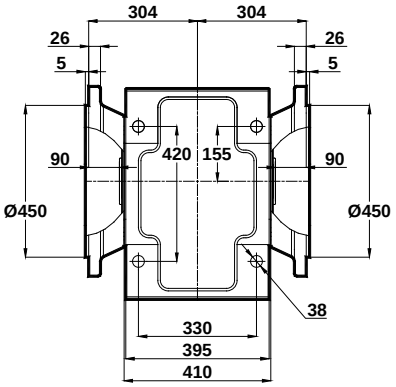


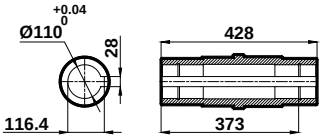
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV873.08

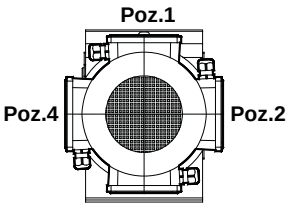






	160M/B5	160L/B5	180M/B5	180L/B5	200L/B5	225S/B5	225M/B5	250M/B5	280S/B5	280M/B5
k	1395	1439	1452	1490	1542	1560	1585	1661	1723	1723
k1	1595	1609	1622	1660	1742	-	-	-	-	-
n	310	310	348	348	390	433	433	480	544	544
n1	225	225	241	241	275	285	285	322	350	350

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



160-180-200-225-250-280
Tipo / *Type* / Typ

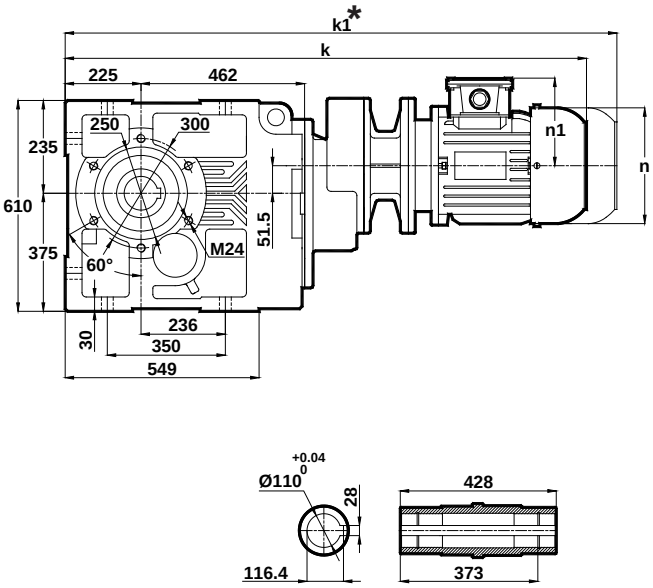
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

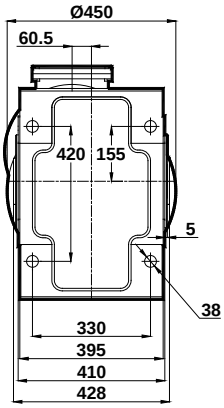


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

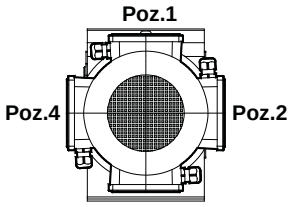
KV874.00





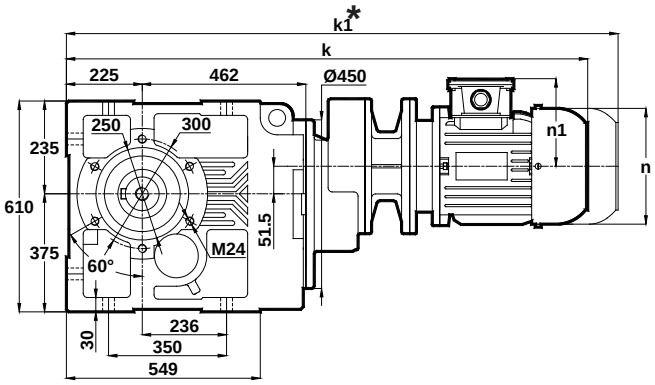
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5
k	1194	1214	1279	1317	1464	1508	1521
k1	1329	1349	1424	1462	1634	1678	1691
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

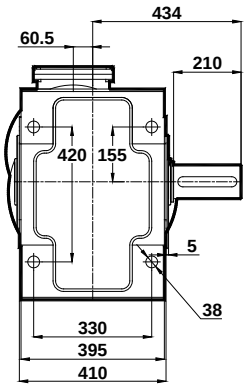
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

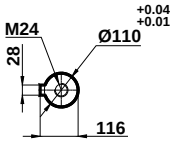


100-112-132-160-180
Tipo / *Type* **/** Typ

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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

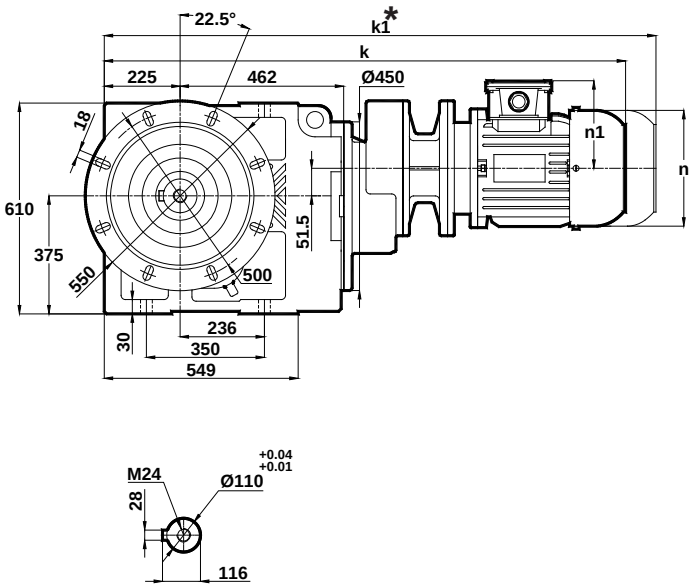
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

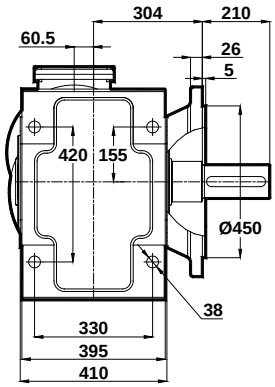


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

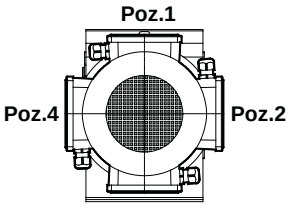
KV874.02





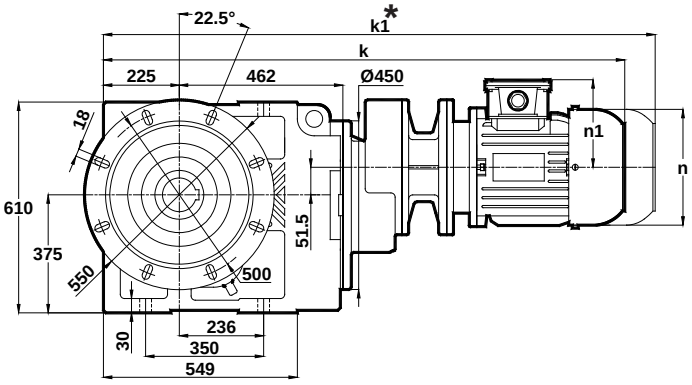
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5
k	1194	1214	1279	1317	1464	1508	1521
k1	1329	1349	1424	1462	1634	1678	1691
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

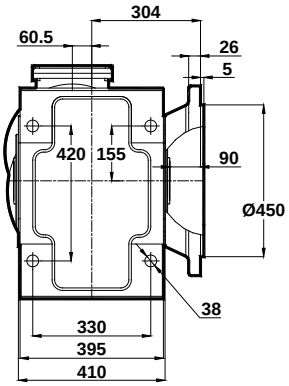
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

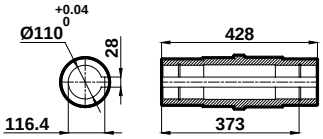


100-112-132-160-180
Tipo / *Type* / Typ

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

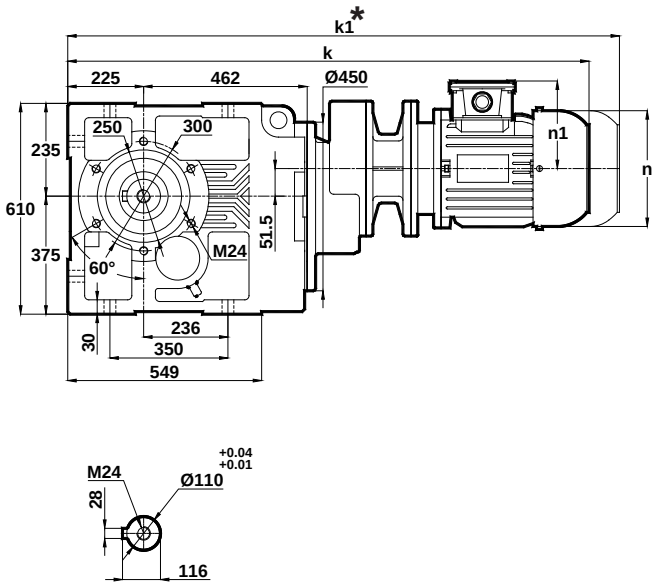
La misura “k1” è per motori dotati di freno.
Dimension “k1” is for motors with brake.
Maße “k1” ist für Bremsenmotoren.

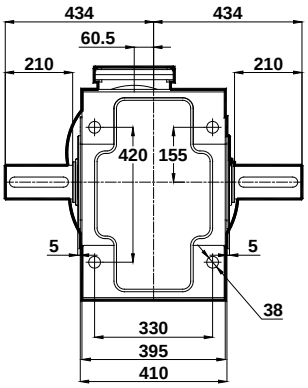


Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

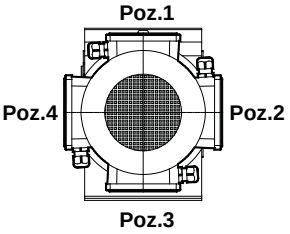
KV874.04





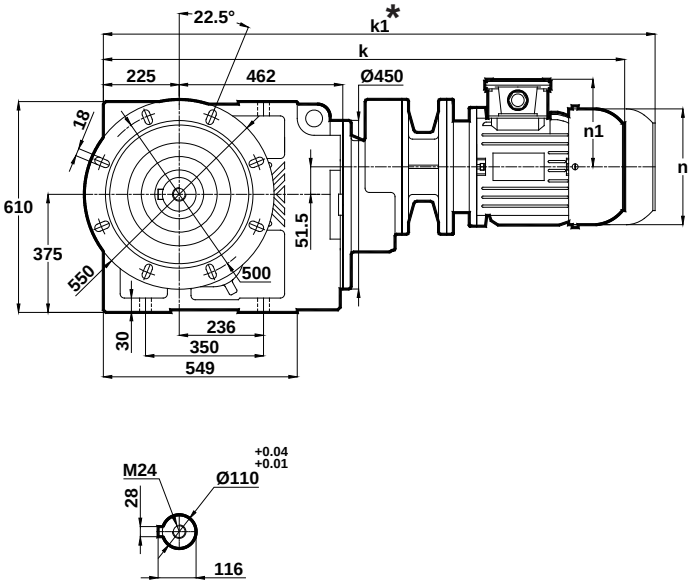
	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5
k	1194	1214	1279	1317	1464	1508	1521
k1	1329	1349	1424	1462	1634	1678	1691
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

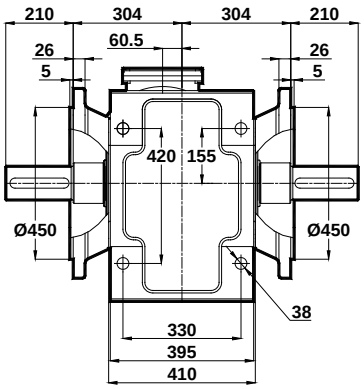
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



100-112-132-160-180
Tipo / *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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

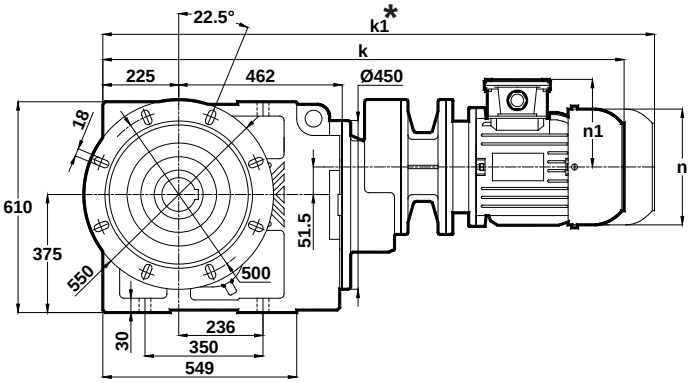
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

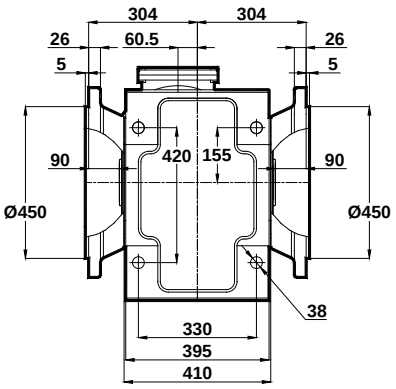


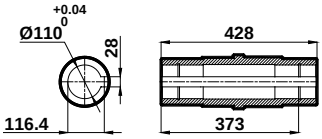
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV874.08

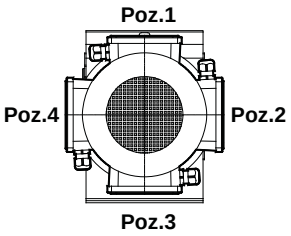






	100L/B5	112M/B5	132S/B5	132M/B5	160M/B5	160L/B5	180M/B5
k	1194	1214	1279	1317	1464	1508	1521
k1	1329	1349	1424	1462	1634	1678	1691
n	194	218	258	258	310	310	348
n1	135	146	168	168	225	225	241

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



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

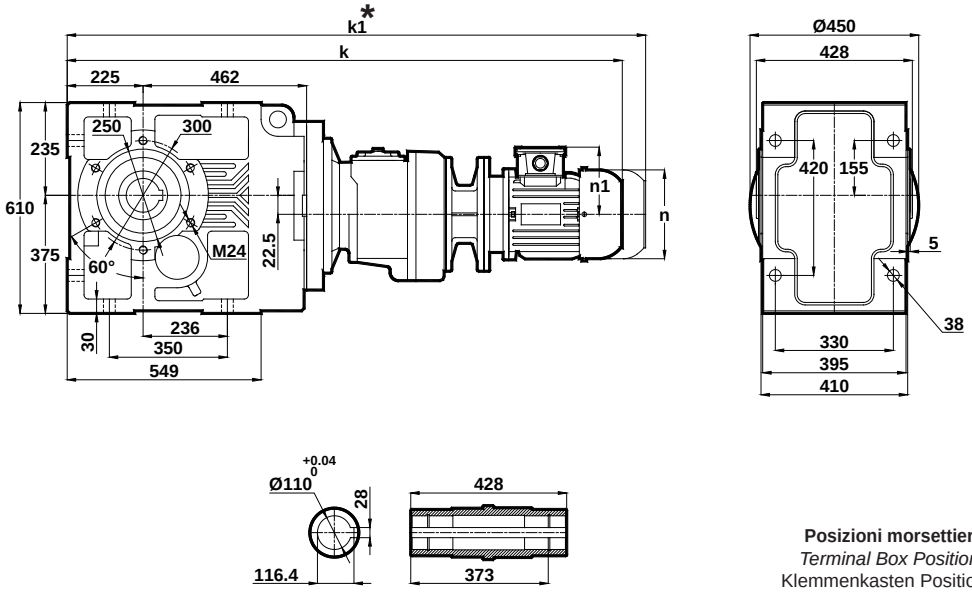
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.



Tabelle dimensionali
Dimension Pages
Abmessungsseiten

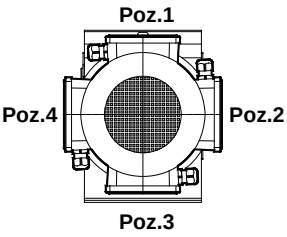
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV875.00
KV876.00



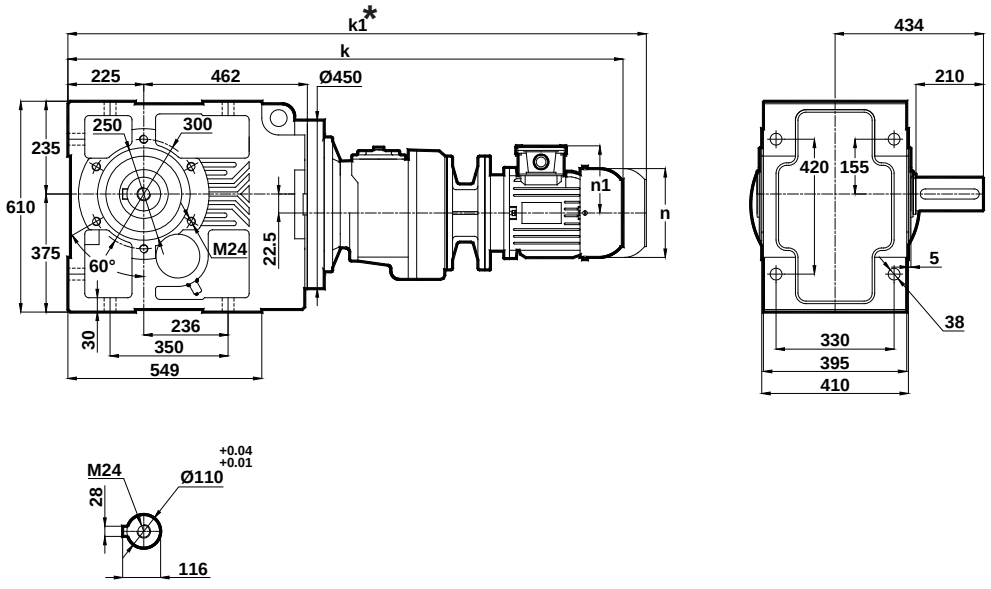
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	1216	1236	1256	1281	1330	1350
k1	1336	1356	1381	1406	1465	1485
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen



71-80-90-100-112
Tipo / *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

La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, 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.

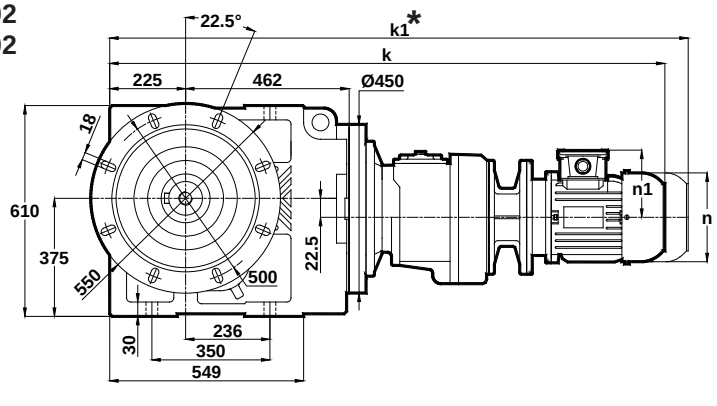
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

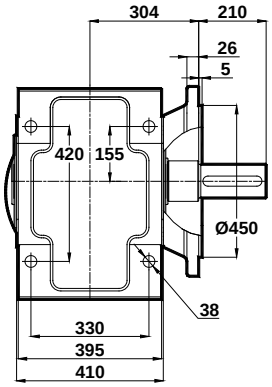


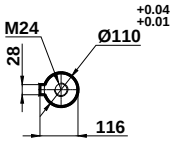
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV875.02
KV876.02

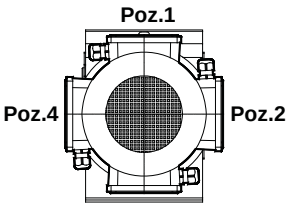






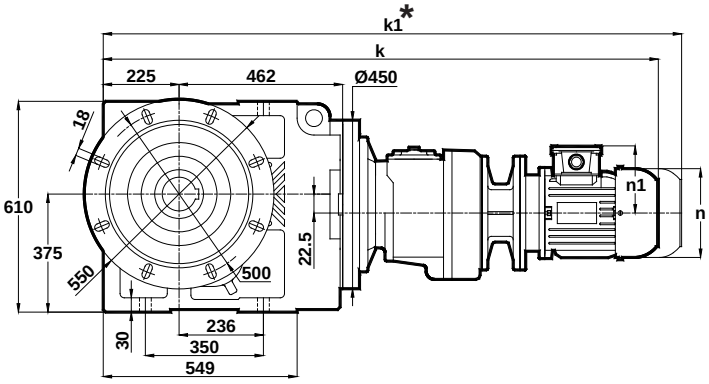
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	1216	1236	1256	1281	1330	1350
k1	1336	1356	1381	1406	1465	1485
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

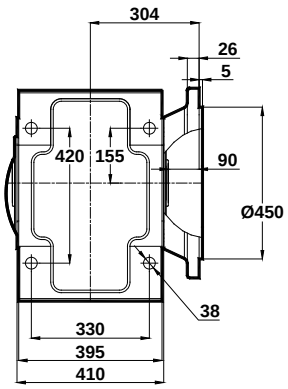
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

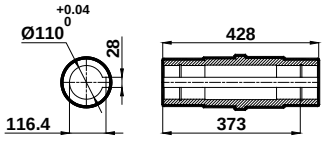


71-80-90-100-112
Tipo / *Type /* Typ

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

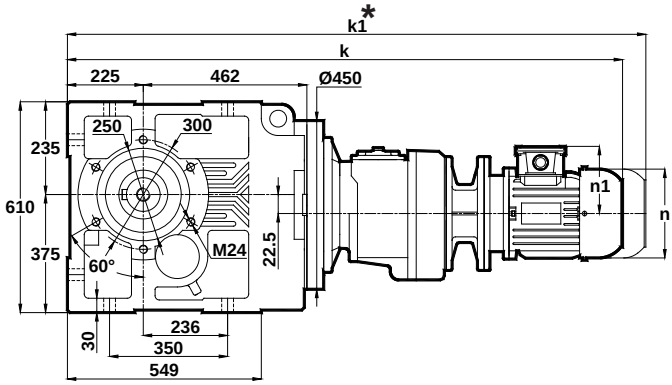
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

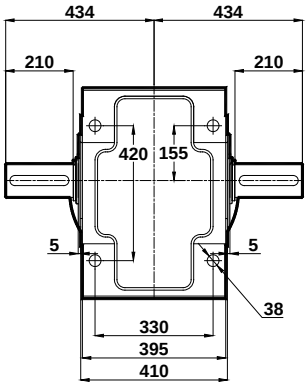


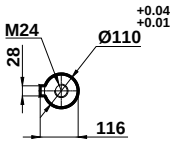
Tabelle dimensionali
Dimension Pages
Abmessungsseiten

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV875.04
KV876.04

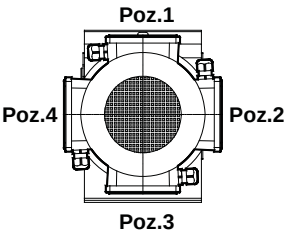






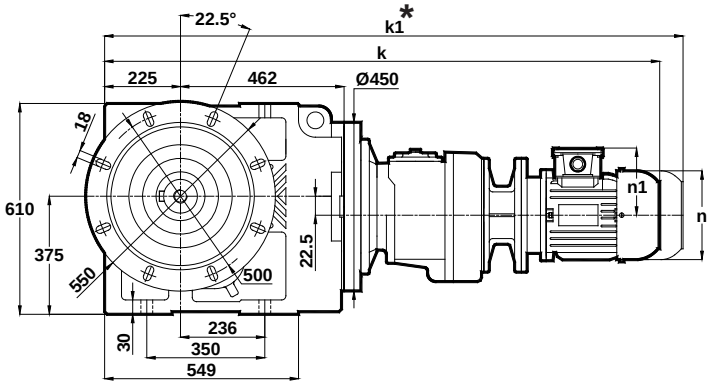
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	1216	1236	1256	1281	1330	1350
k1	1336	1356	1381	1406	1465	1485
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

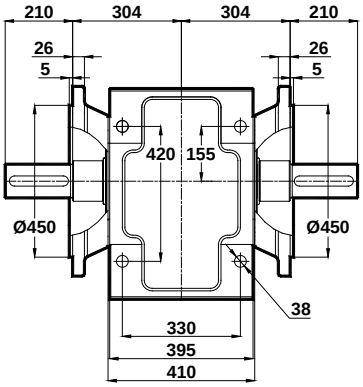
Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

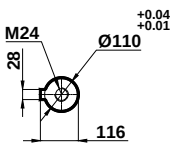


71-80-90-100-112
Tipo / *Type* / Typ

KV875.05
KV876.05







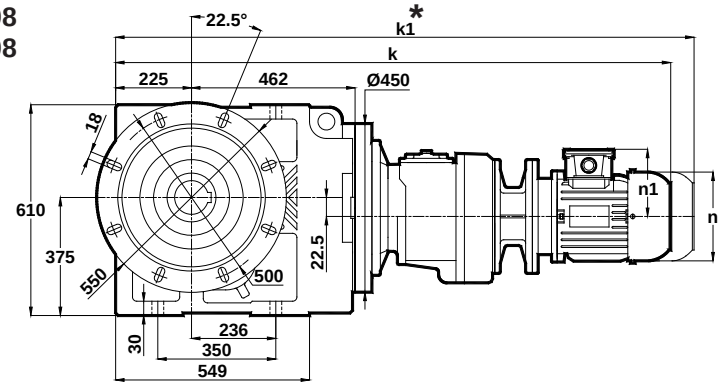
	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	1216	1236	1256	1281	1330	1350
k1	1336	1356	1381	1406	1465	1485
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

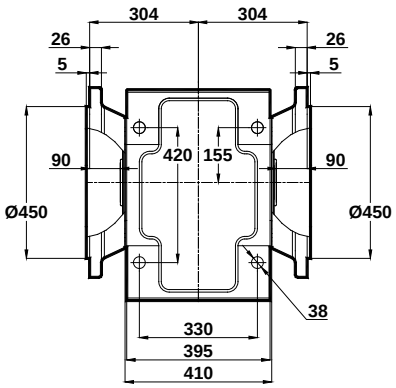
La misura "k1" è per motori dotati di freno. I riduttori completi di motori elettrici tipo 63 e 71 non hanno la ventola di raffreddamento, che invece hanno gli altri tipi.
Dimension "k1" is for motors with brake. Gearboxes with 63 and 71 type electrical motors are not fan cooled, other types are fan cooled.
Maße "k1" ist für Bremsenmotoren. Getrieben mit 63 und 71 typ Motoren sind ohne Kühlung, andere Typen zind mit Ventilator gekühlt.

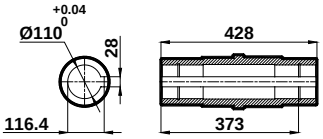
La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KV875.08
KV876.08

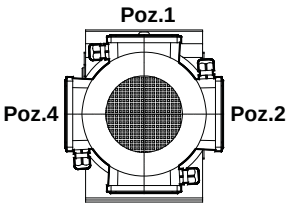






	71/B5	80/B5	90S/B5	90L/B5	100L/B5	112M/B5
k	1216	1236	1256	1281	1330	1350
k1	1336	1356	1381	1406	1465	1485
n	138	156	176	176	194	218
n1	110	118	126	126	135	146

Posizioni morsettiera
Terminal Box Positions
Klemmenkasten Positionen

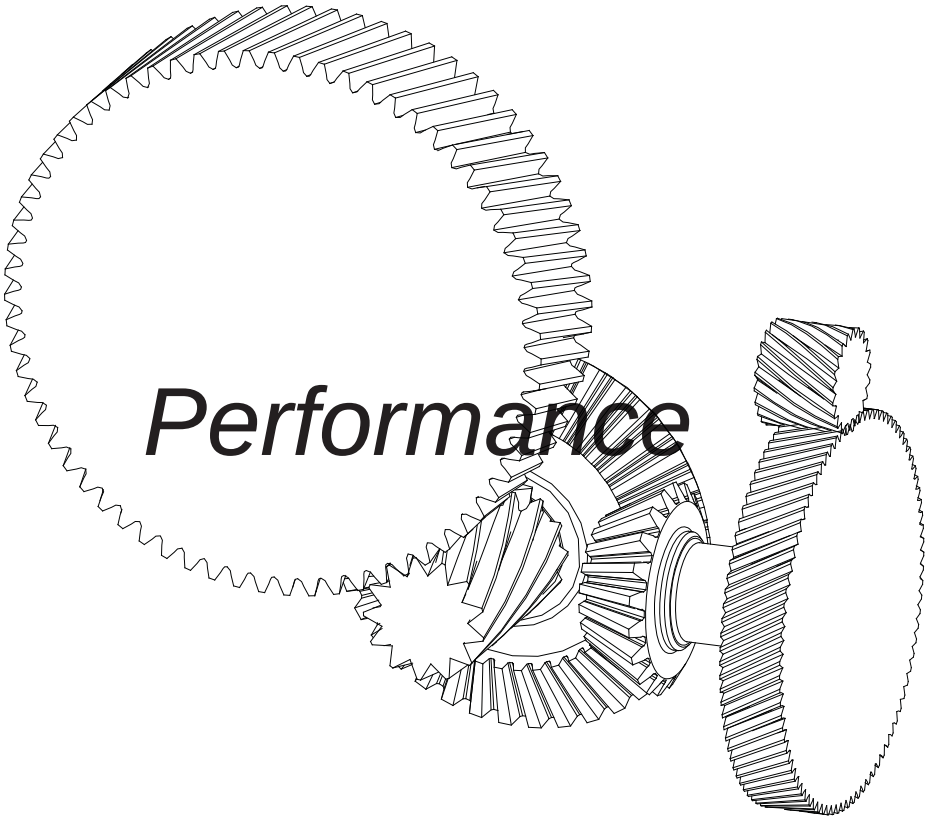


71-80-90-100-112
Tipo / *Type /* Typ

La misura "k1" è per motori dotati di freno.
Dimension "k1" is for motors with brake.
Maße "k1" ist für Bremsenmotoren.

Note / *Notes* / Notes

Prestazioni



Leistung und Drehzahlübersicht



Tabelle prestazionali dei riduttori serie K
K Series Gear Units Performance Tables
K Serien Getriebe Leistung und Drehzahlübersicht

Coppia nominale *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Rapporto** *Ratio* Übersetzung i	**Velocità di rotazione in uscita** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipo** *Type* Typ	**Pe= Potenza nominale [kW] (per fattore di servizio fs=1,0)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Velocità di rotazione in entrata [giri/min.]** / *Input speed [rpm]* / Antriebsdrehzahl[upm]						**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1400rpm)	**Carichi radiali ammessi (entrata)** *Permissible Radial Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Peso** *Weight* Gewicht [kg]	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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			



Tabelle prestazionali dei riduttori serie K
K Series Gear Units Performance Tables
K Serien Getriebe Leistung und Drehzahlübersicht

Coppia nominale *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Rapporto** *Ratio* Übersetzung i	**Velocità di rotazione in uscita** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipo** *Type* Typ	**Pe= Potenza nominale [kW] (per fattore di servizio fs=1,0)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Velocità di rotazione in entrata [giri/min.]** / *Input speed [rpm]* / Antriebsdrehzahl[upm]						**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1400rpm)	**Carichi radiali ammessi (entrata)** *Permissible Radial Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Peso** *Weight* Gewicht [kg]	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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	-			



Tabelle prestazionali dei riduttori serie K
K Series Gear Units Performance Tables
K Serien Getriebe Leistung und Drehzahlübersicht

Coppia nominale *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Rapporto** *Ratio* Übersetzung i	**Velocità di rotazione in uscita** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipo** *Type* Typ	**Pe= Potenza nominale [kW] (per fattore di servizio fs=1,0)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Velocità di rotazione in entrata [giri/min.]** / *Input speed [rpm]* / Antriebsdrehzahl[upm]						**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1400rpm)	**Carichi radiali ammessi (entrata)** *Permissible Radial Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Peso** *Weight* Gewicht [kg]	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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			



Tabelle prestazionali dei riduttori serie K
K Series Gear Units Performance Tables
K Serien Getriebe Leistung und Drehzahlübersicht

Coppia nominale *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Rapporto** *Ratio* Übersetzung i	**Velocità di rotazione in uscita** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipo** *Type* Typ	**Pe= Potenza nominale [kW] (per fattore di servizio fs=1,0)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Velocità di rotazione in entrata [giri/min.]** / *Input speed [rpm]* / Antriebsdrehzahl[upm]						**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1400rpm)	**Carichi radiali ammessi (entrata)** *Permissible Radial Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Peso** *Weight* Gewicht [kg]	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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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K Series Gear Units Performance Tables
K Serien Getriebe Leistung und Drehzahlübersicht

Coppia nominale *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Rapporto** *Ratio* Übersetzung i	**Velocità di rotazione in uscita** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipo** *Type* Typ	**Pe= Potenza nominale [kW] (per fattore di servizio fs=1,0)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Velocità di rotazione in entrata [giri/min.]** / *Input speed [rpm]* / Antriebsdrehzahl[upm]						**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1400rpm)	**Carichi radiali ammessi (entrata)** *Permissible Radial Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Peso** *Weight* Gewicht [kg]	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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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Coppia nominale *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Rapporto** *Ratio* Übersetzung i	**Velocità di rotazione in uscita** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipo** *Type* Typ	**Pe= Potenza nominale [kW] (per fattore di servizio fs=1,0)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Velocità di rotazione in entrata [giri/min.]** / *Input speed [rpm]* / Antriebsdrehzahl[upm]						**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1400rpm)	**Carichi radiali ammessi (entrata)** *Permissible Radial Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Peso** *Weight* Gewicht [kg]	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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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Coppia nominale *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Rapporto** *Ratio* Übersetzung i	**Velocità di rotazione in uscita** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipo** *Type* Typ	**Pe= Potenza nominale [kW] (per fattore di servizio fs=1,0)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Velocità di rotazione in entrata [giri/min.]** / *Input speed [rpm]* / Antriebsdrehzahl[upm]						**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1400rpm)	**Carichi radiali ammessi (entrata)** *Permissible Radial Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Peso** *Weight* Gewicht [kg]	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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			

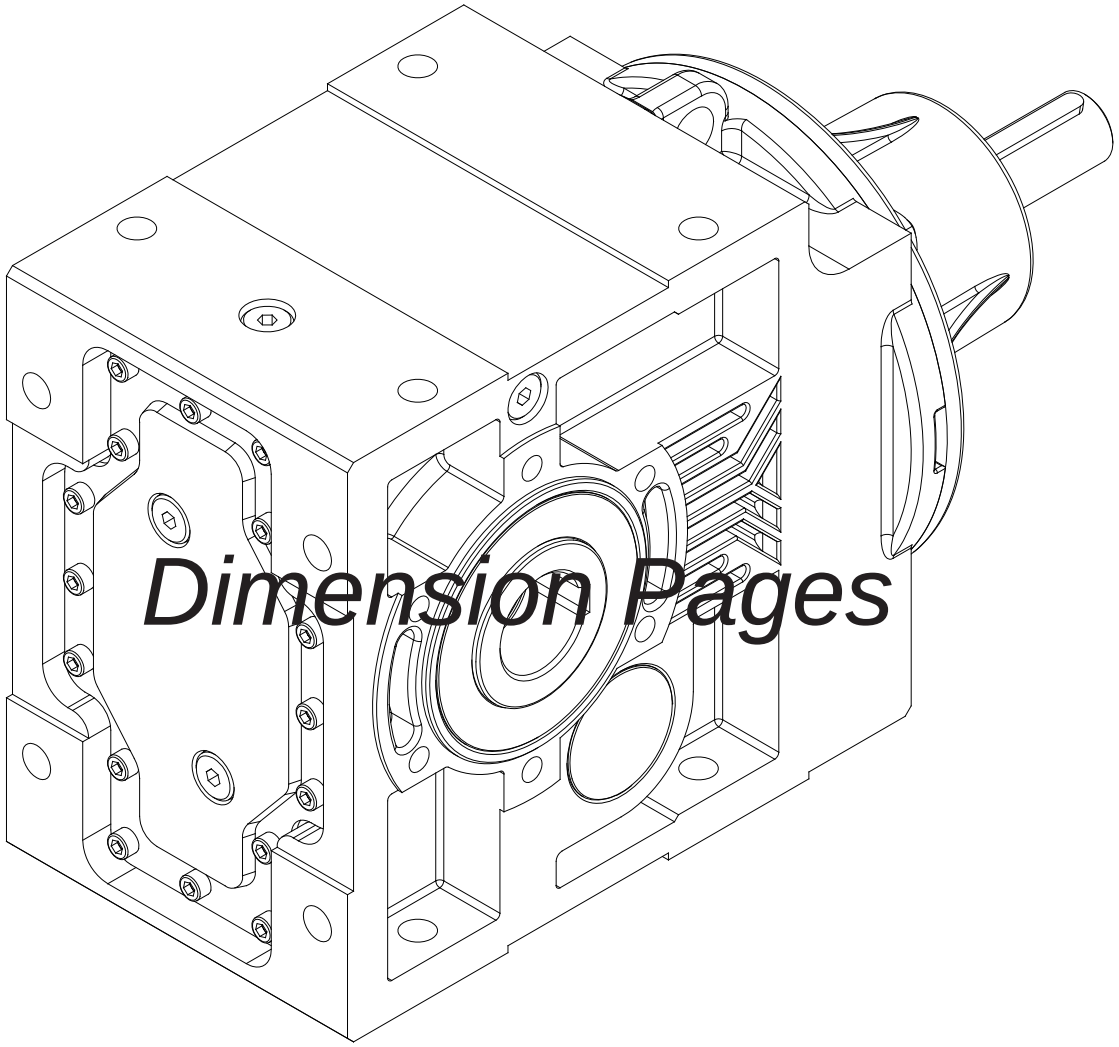


Tabelle prestazionali dei riduttori serie K
K Series Gear Units Performance Tables
K Serien Getriebe Leistung und Drehzahlübersicht

Coppia nominale *Nominal Torques* Nenn-drehmomente Ma [Nm] (n1=1400rpm)	**Rapporto** *Ratio* Übersetzung i	**Velocità di rotazione in uscita** *Output Speeds* Abtriebs-drehzahlen n2 [r.p.m] (n1=1400rpm)	**Tipo** *Type* Typ	**Pe= Potenza nominale [kW] (per fattore di servizio fs=1,0)** *Pe= Nominal Power [kW] (For Service Factor fs=1,0)* Pe= NennLeistung [kW] (Bei Betriebsfaktor fs=1,0) **Velocità di rotazione in entrata [giri/min.]** / *Input speed [rpm]* / Antriebsdrehzahl[upm]						**Carichi radiali ammessi (uscita)** *Permissible Radial Loads (Output)* Zul.Querkräfte (Abtrieb) Fqam [N] (n1=1400rpm)	**Carichi radiali ammessi (entrata)** *Permissible Radial Loads (Input)* Zul.Querkräfte (Antrieb) Fqem [N] (n1=1400rpm)	**Peso** *Weight* Gewicht [kg]	**Tabella dim.** *Dim. Page* Maße Seite	**Rif. prezzo** *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			

Notes / *Notes* / Notizen

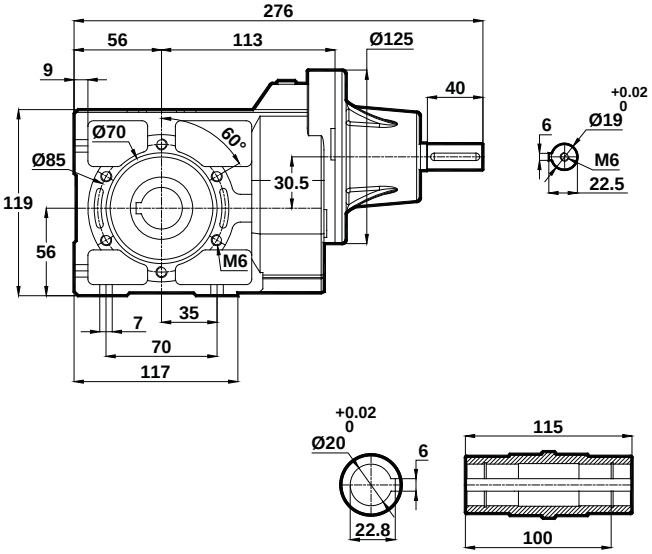
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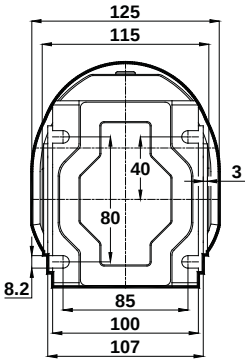


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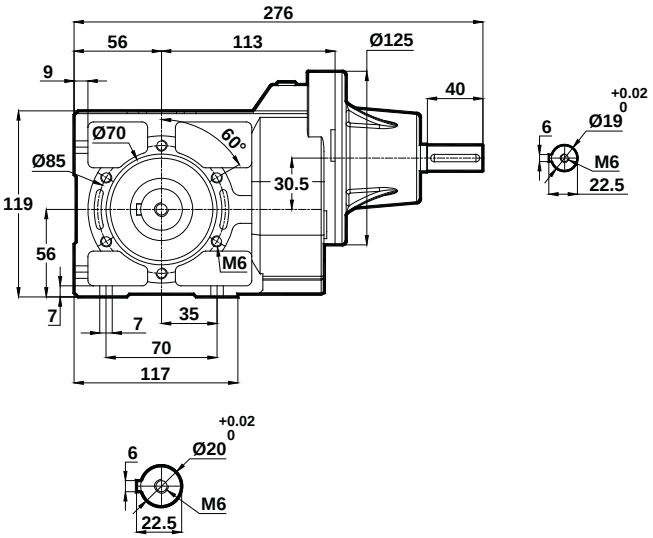
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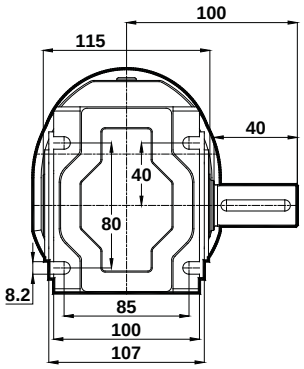
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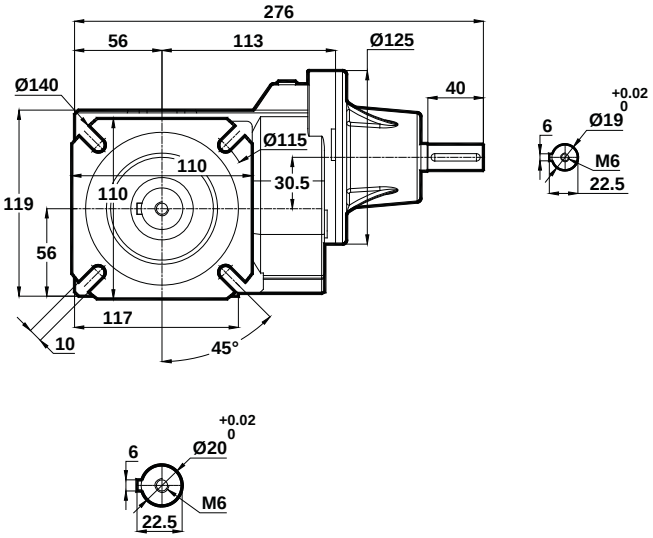
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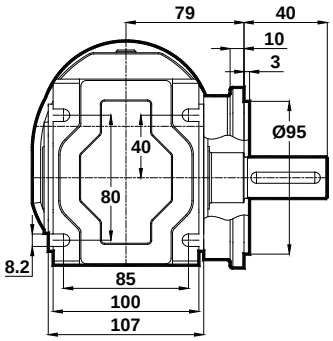




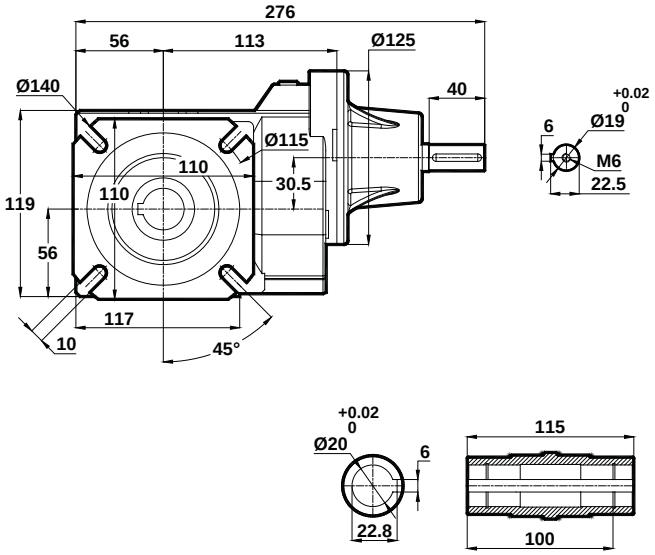
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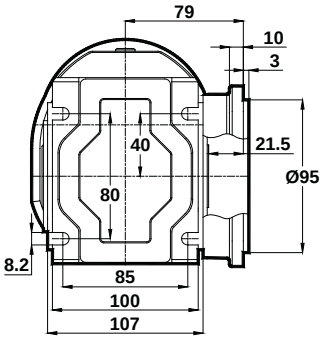
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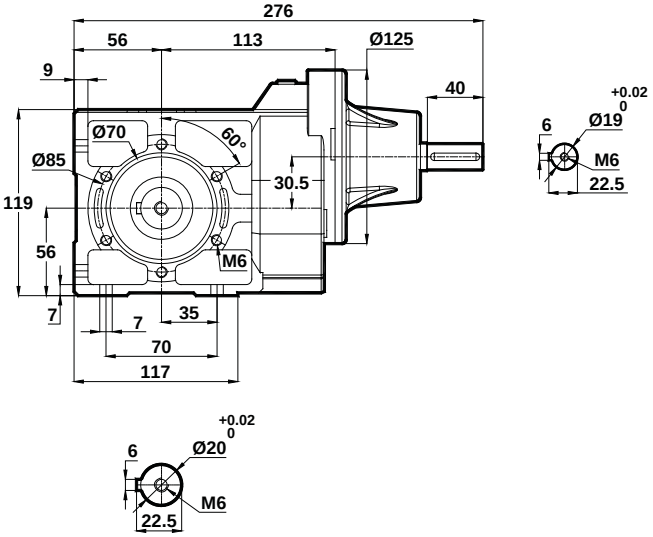
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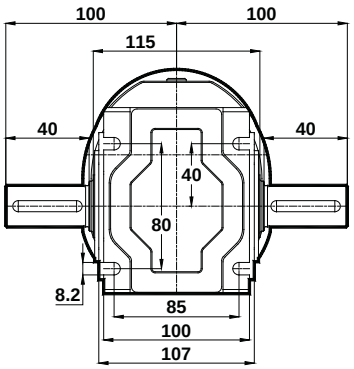




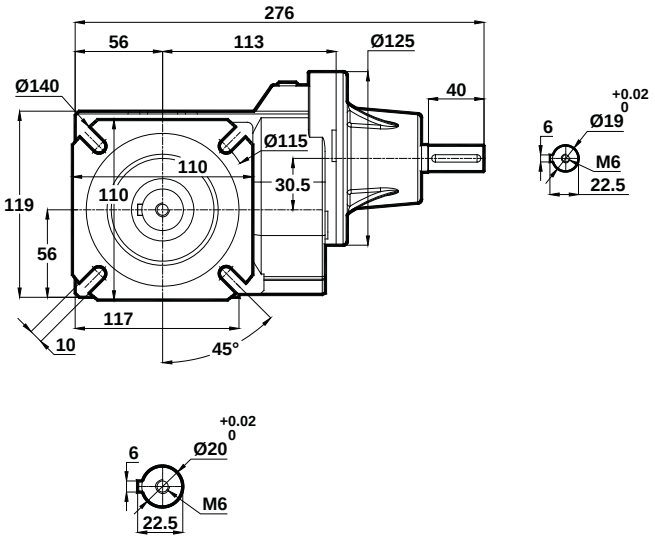
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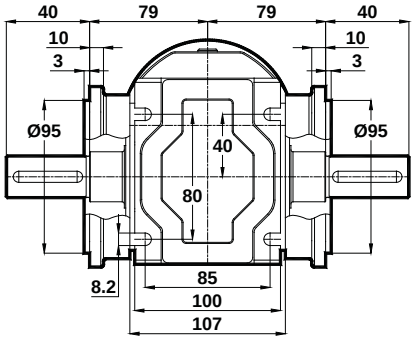
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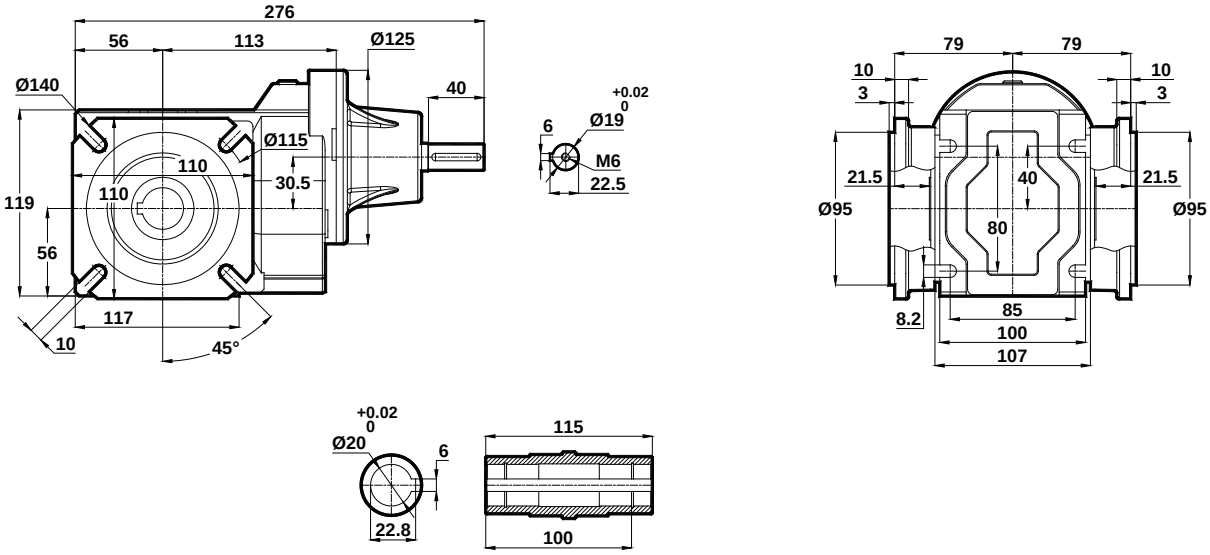
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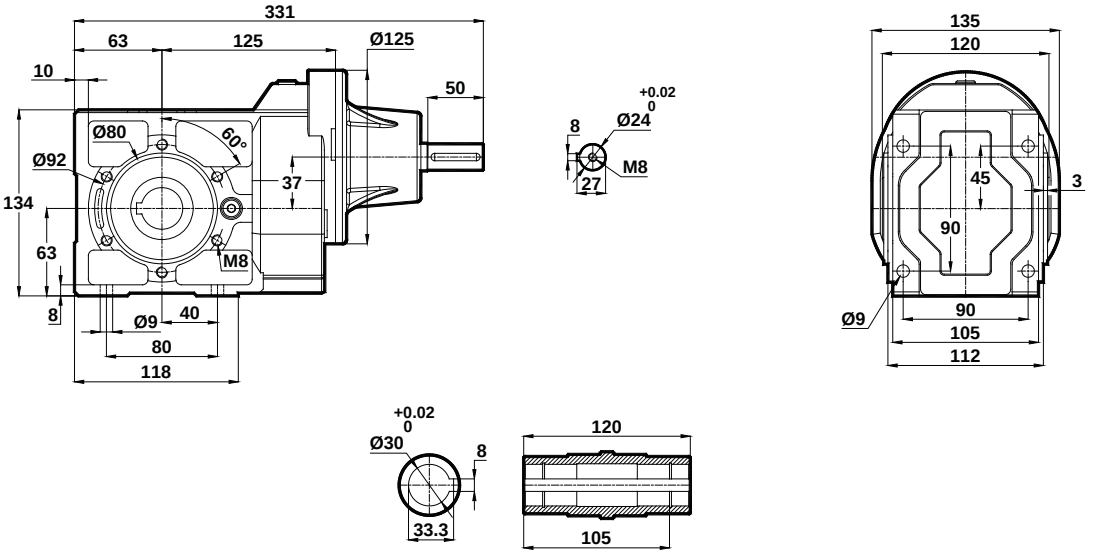
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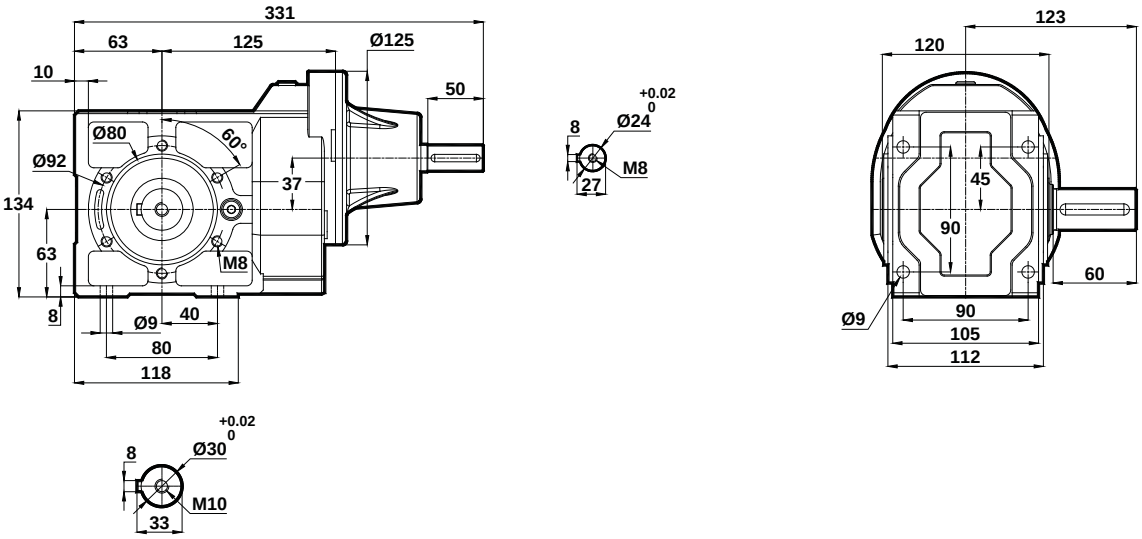


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KT102.00
KT103.00

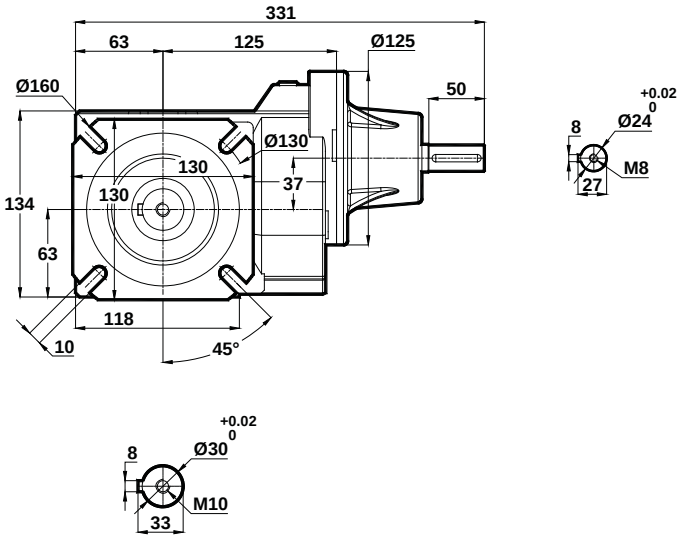


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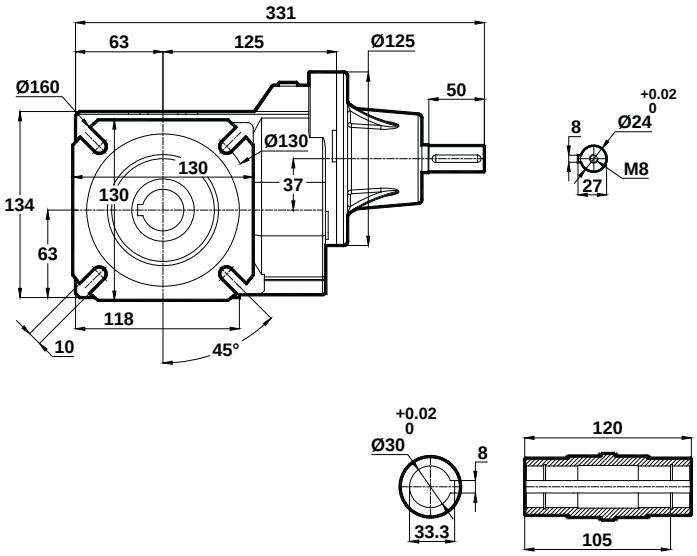


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KT102.02
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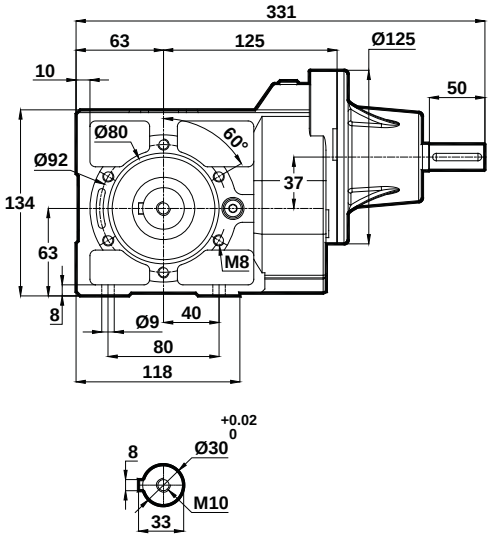


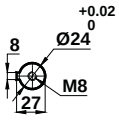
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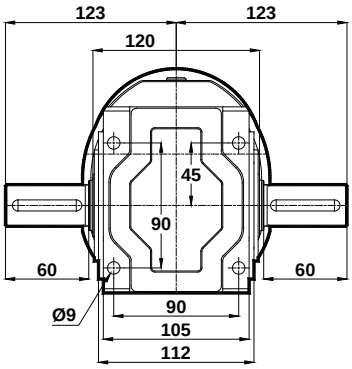


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

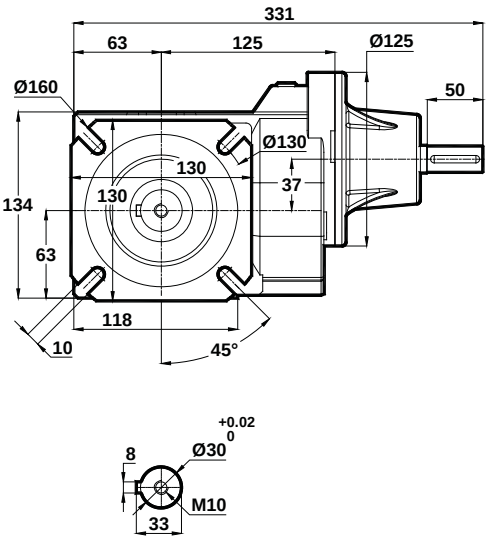
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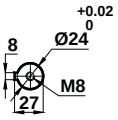


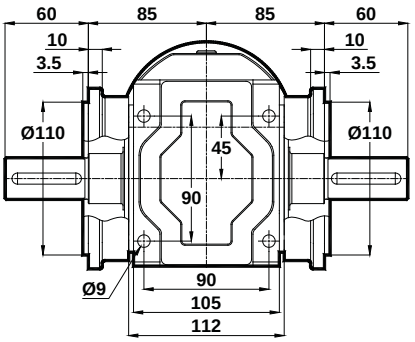




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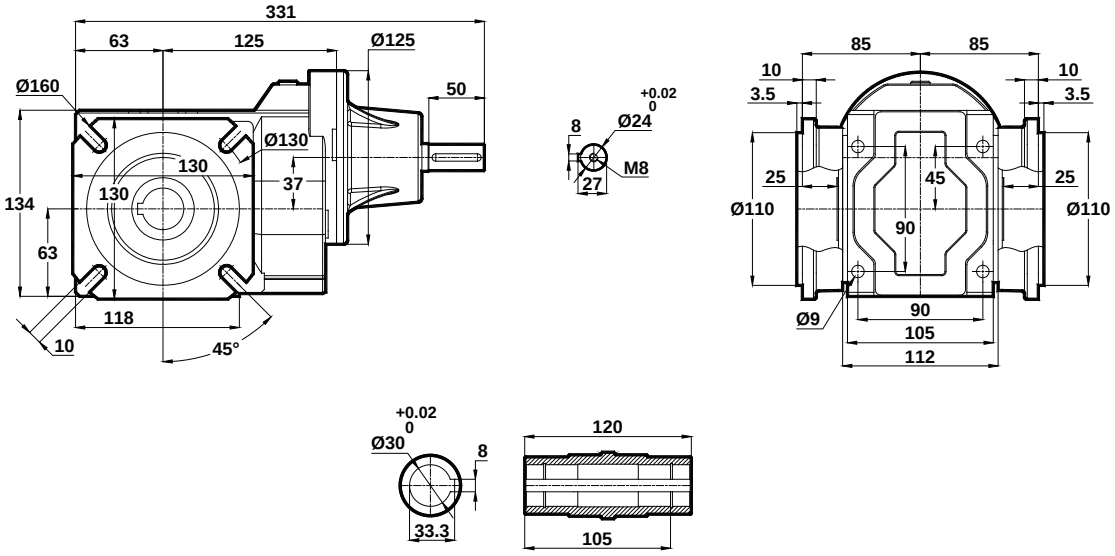






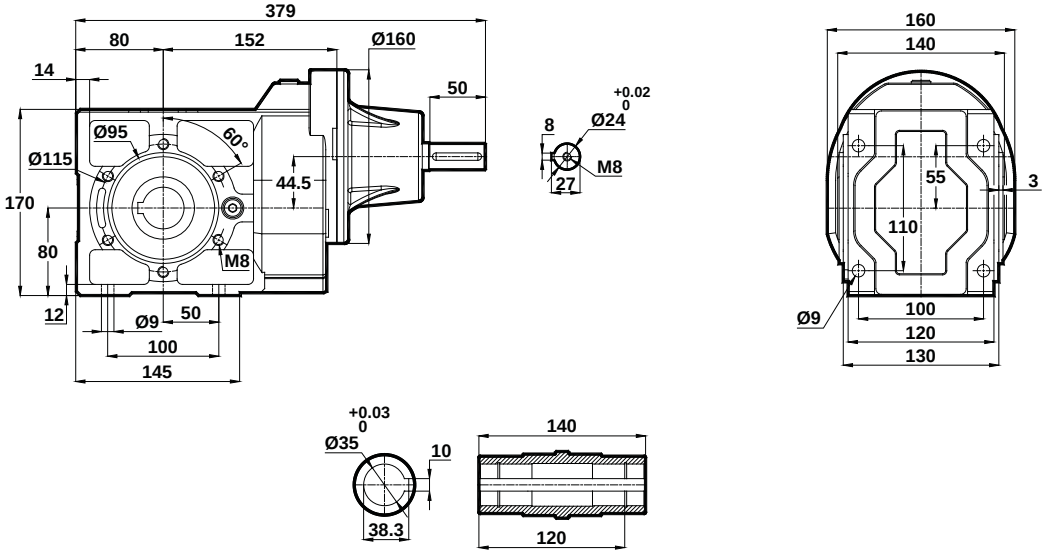
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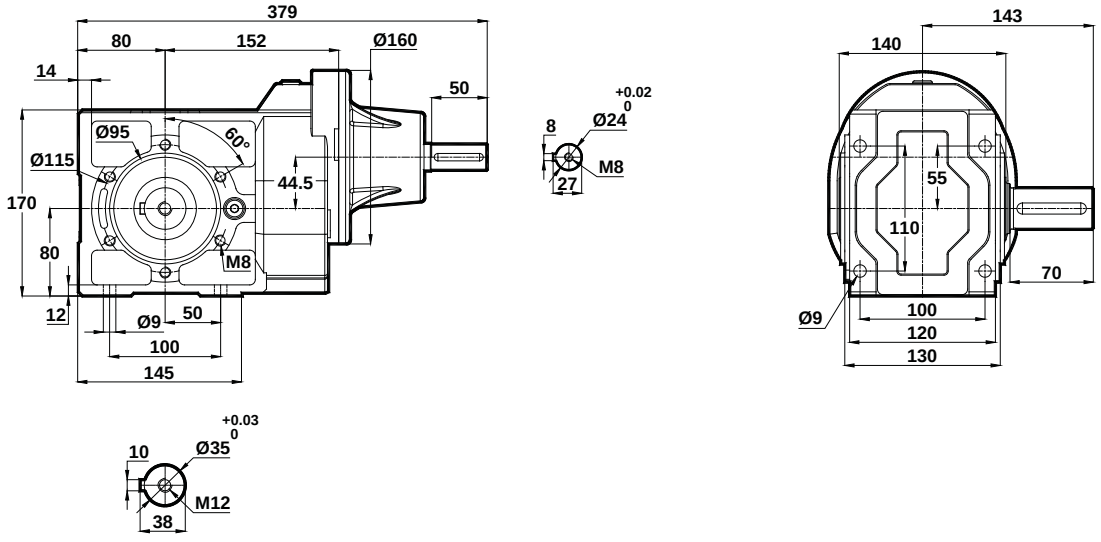


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KT202.00
KT203.00

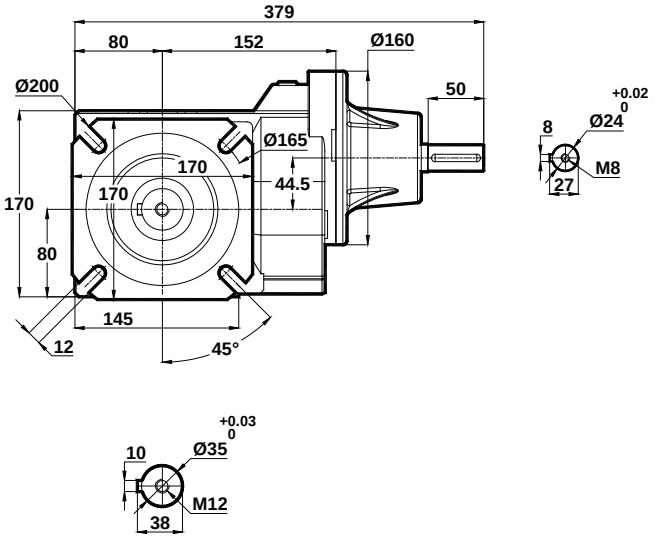


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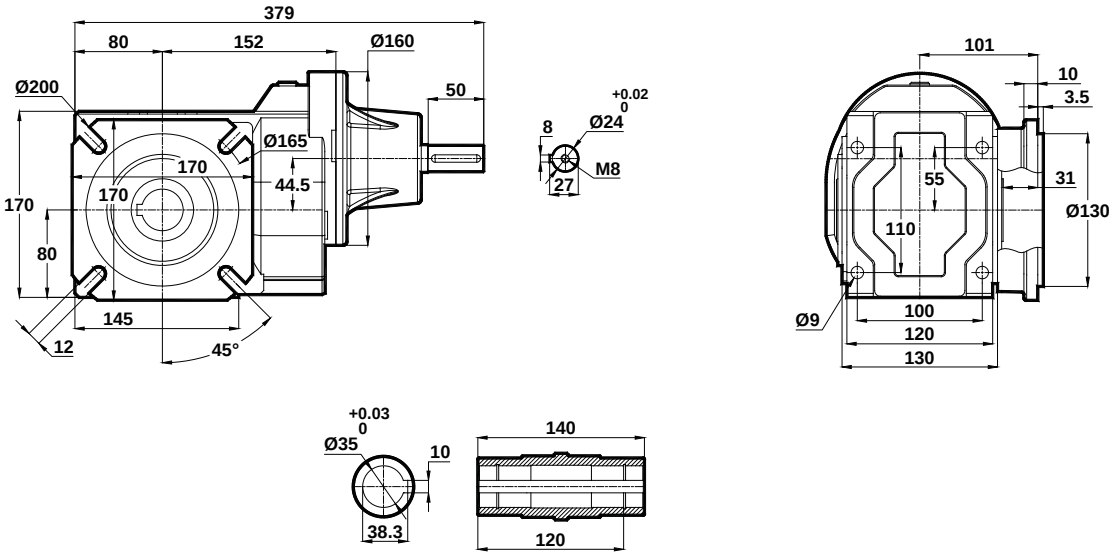


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KT202.02
KT203.02

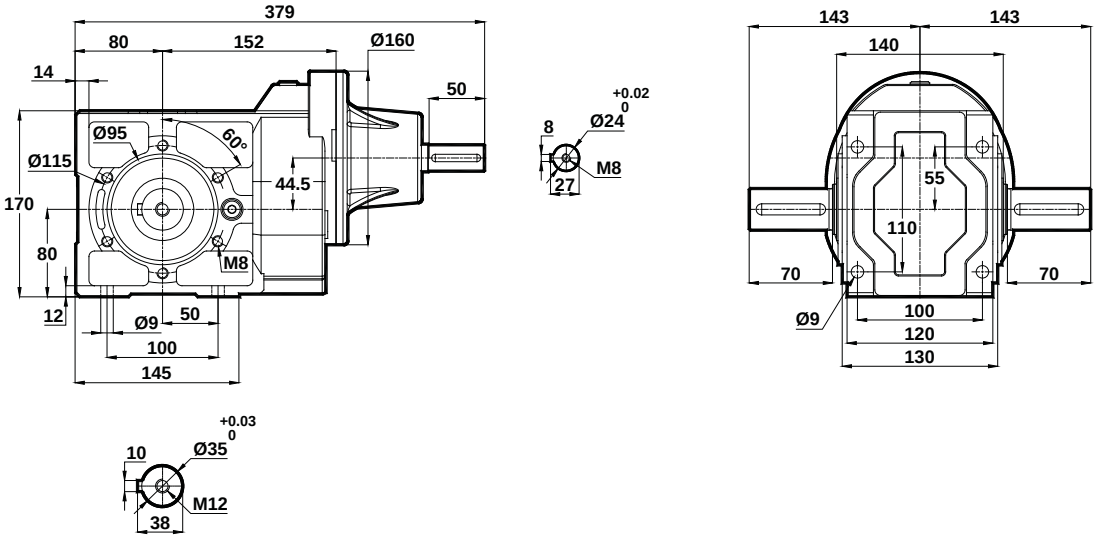


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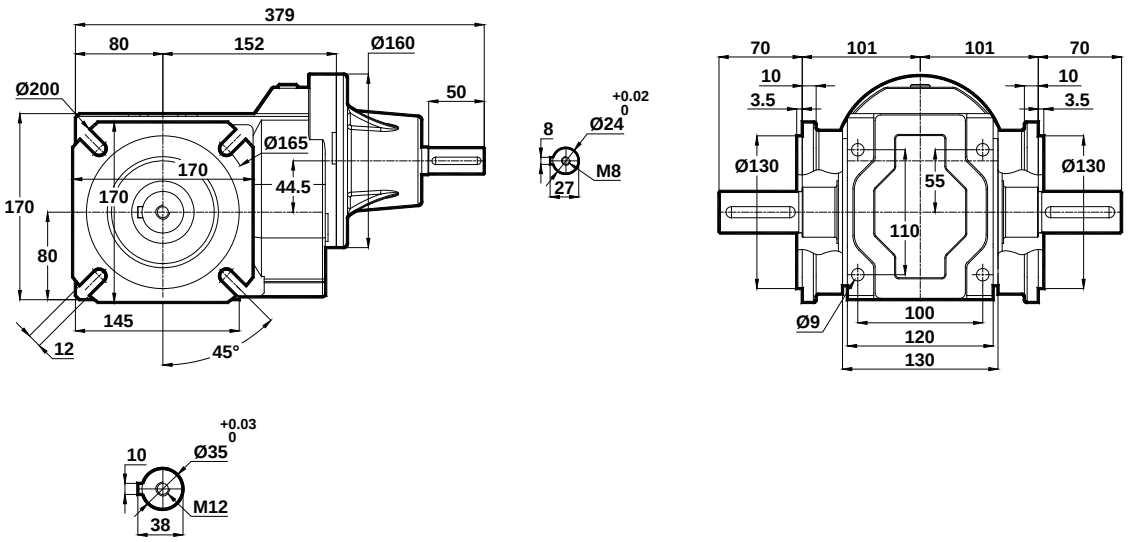


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

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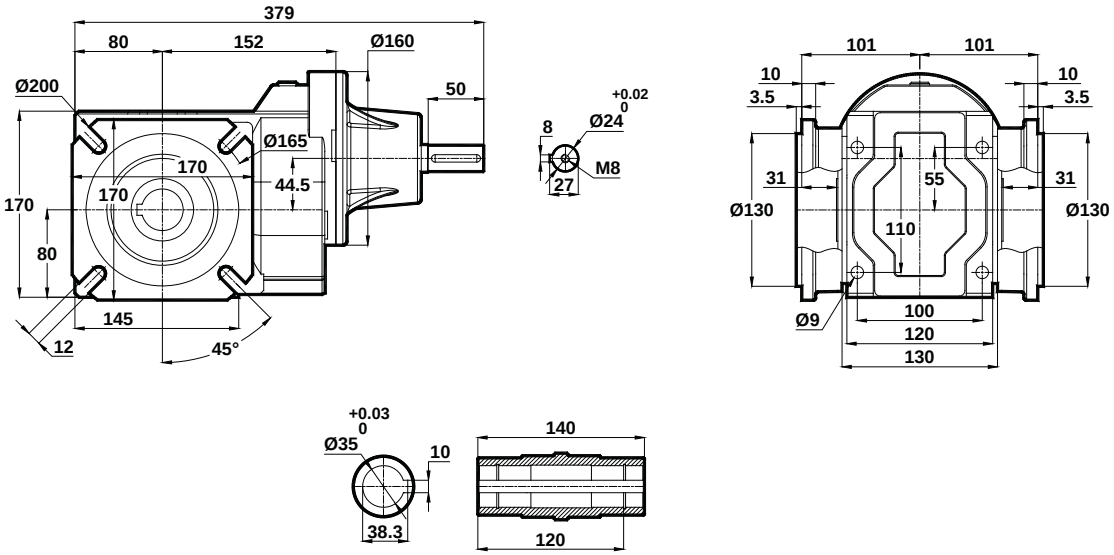


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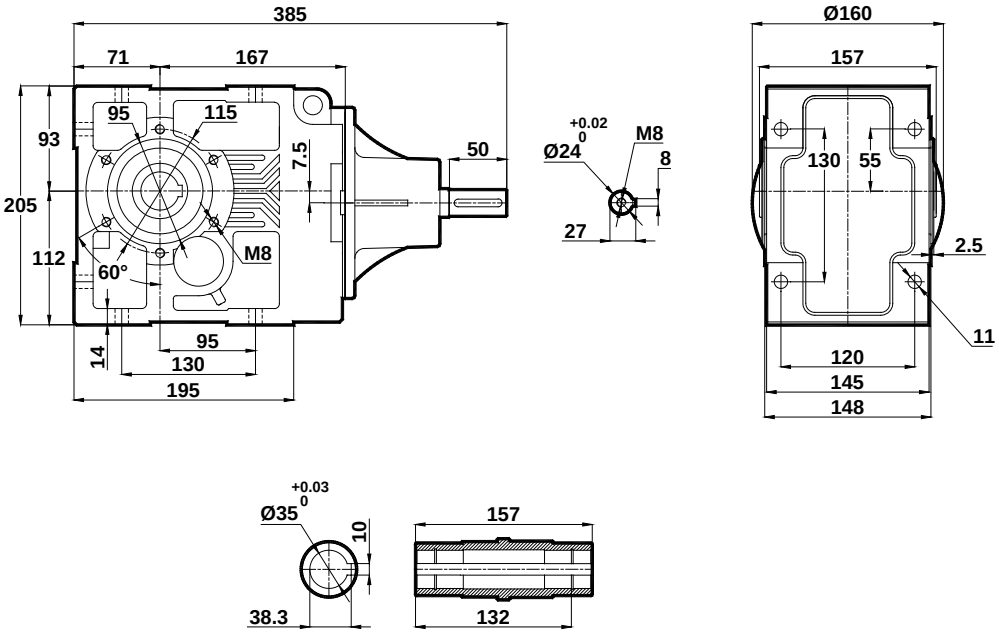
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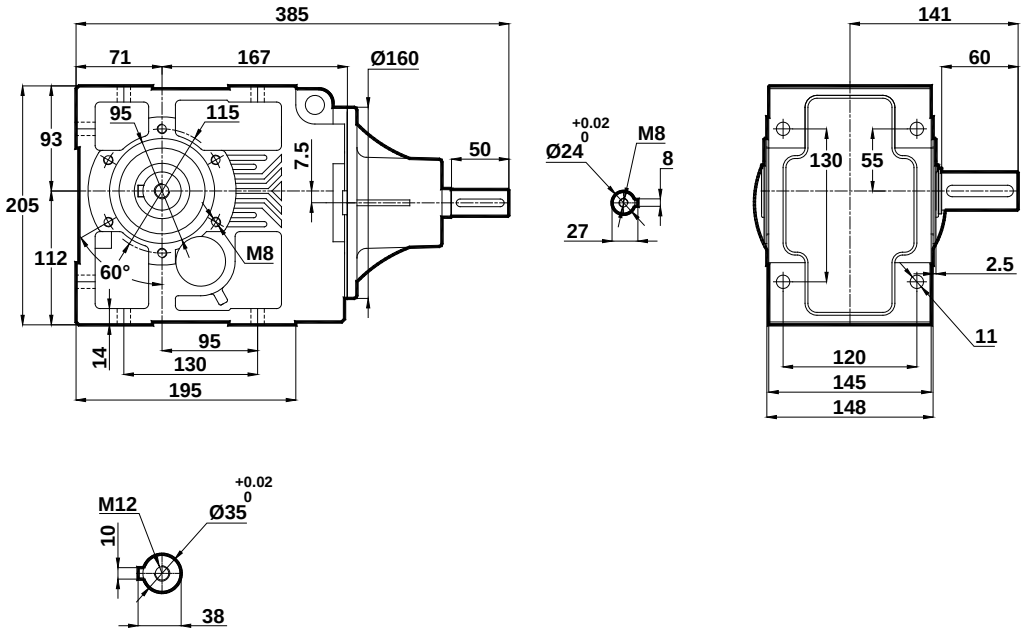


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KT273.00

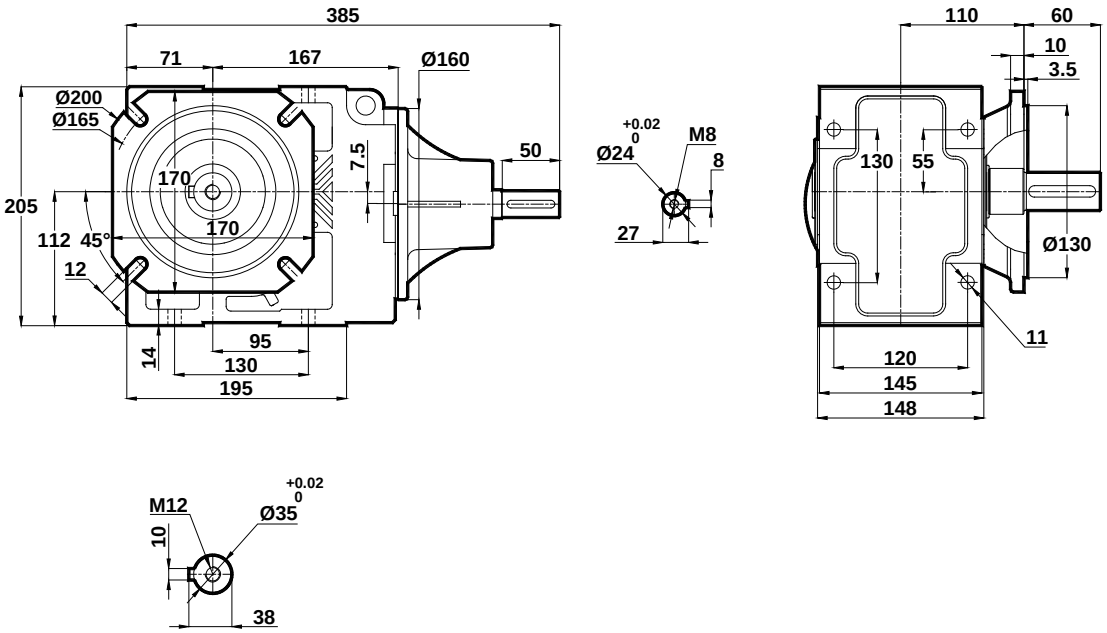


KT273.01

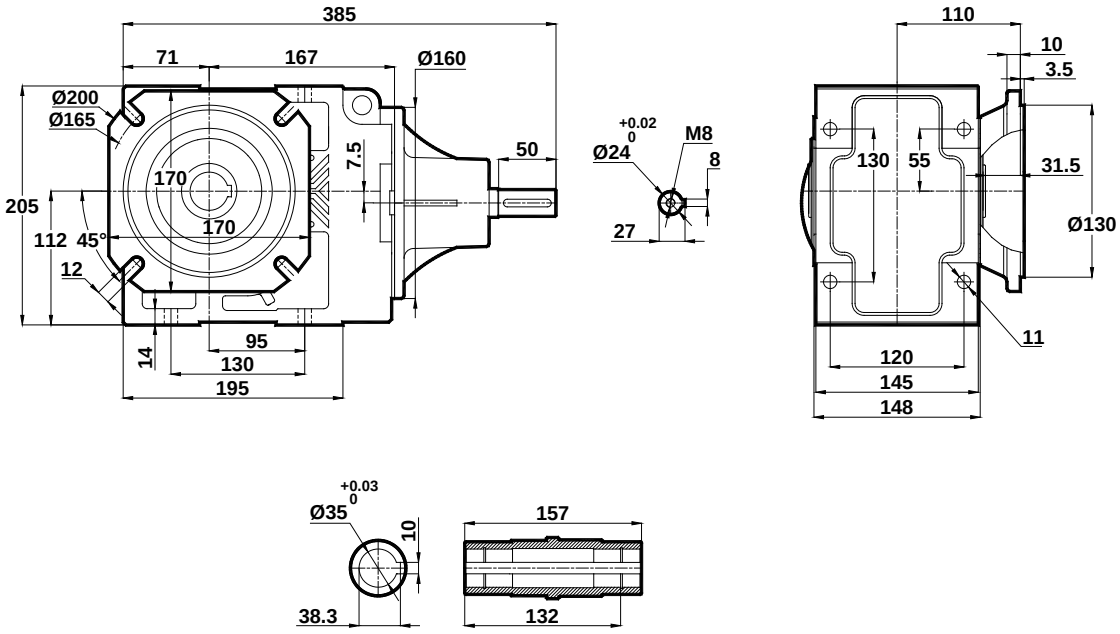


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT273.02

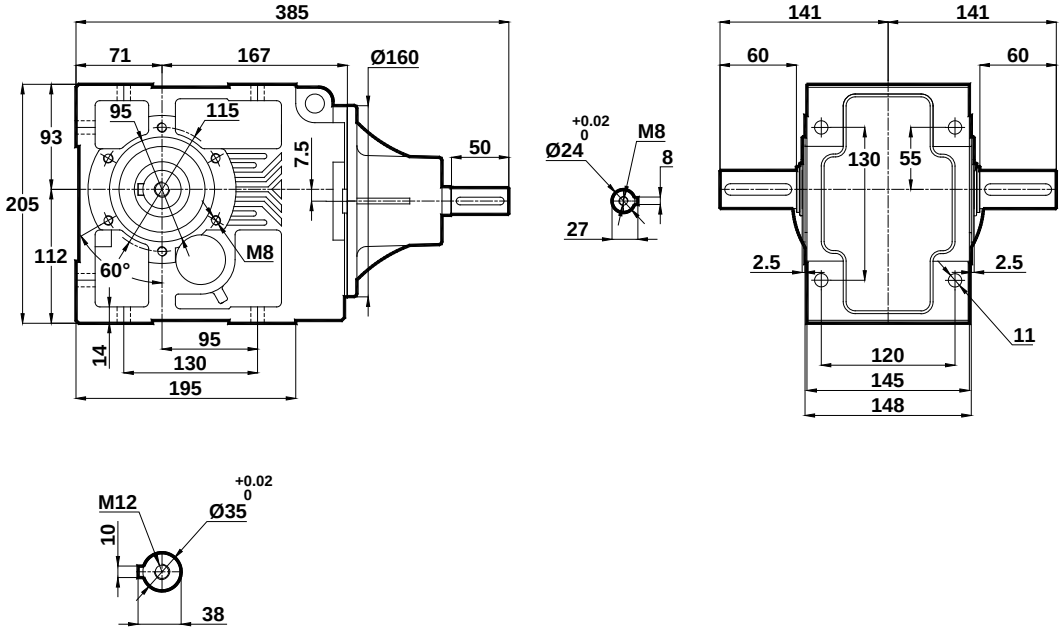


KT273.03

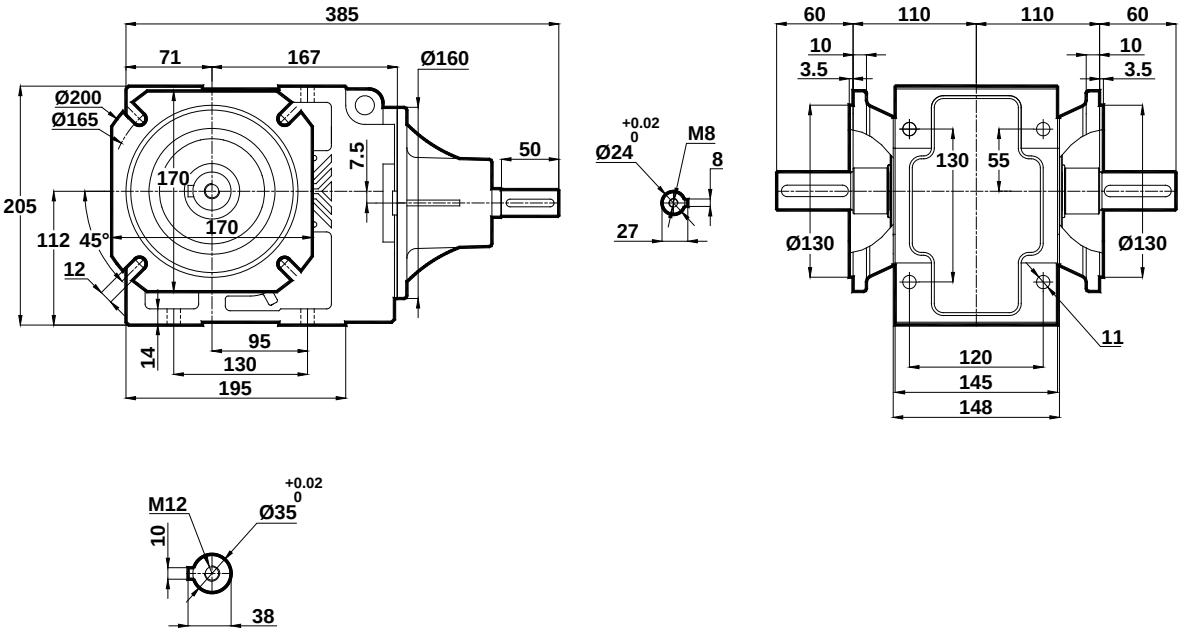


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT273.04

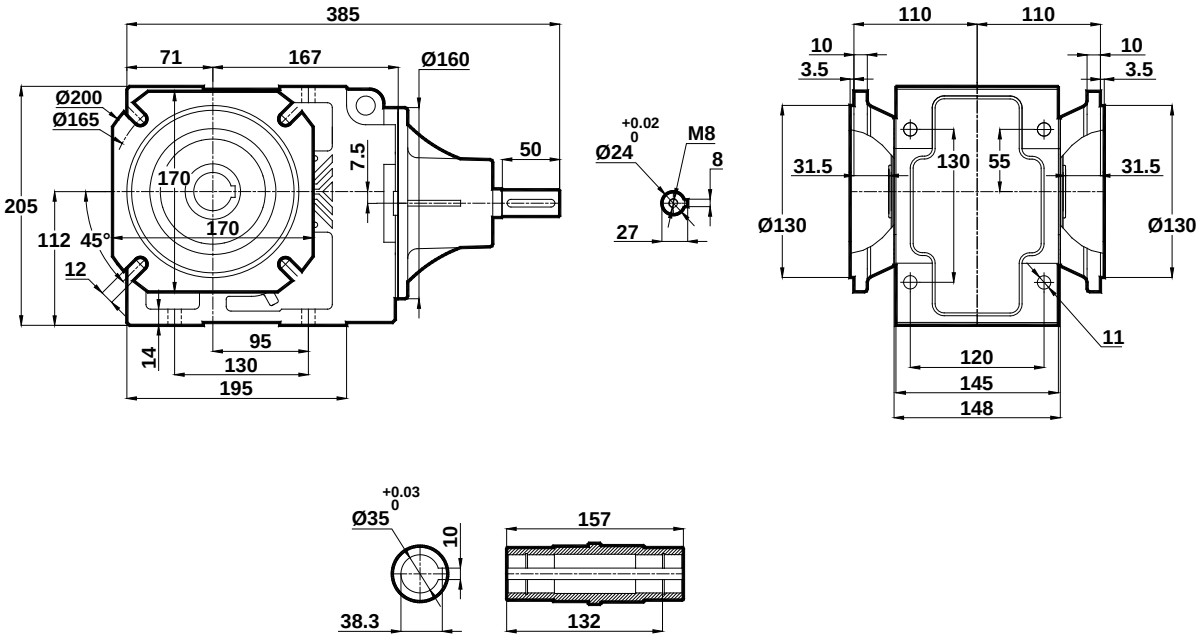


KT273.05



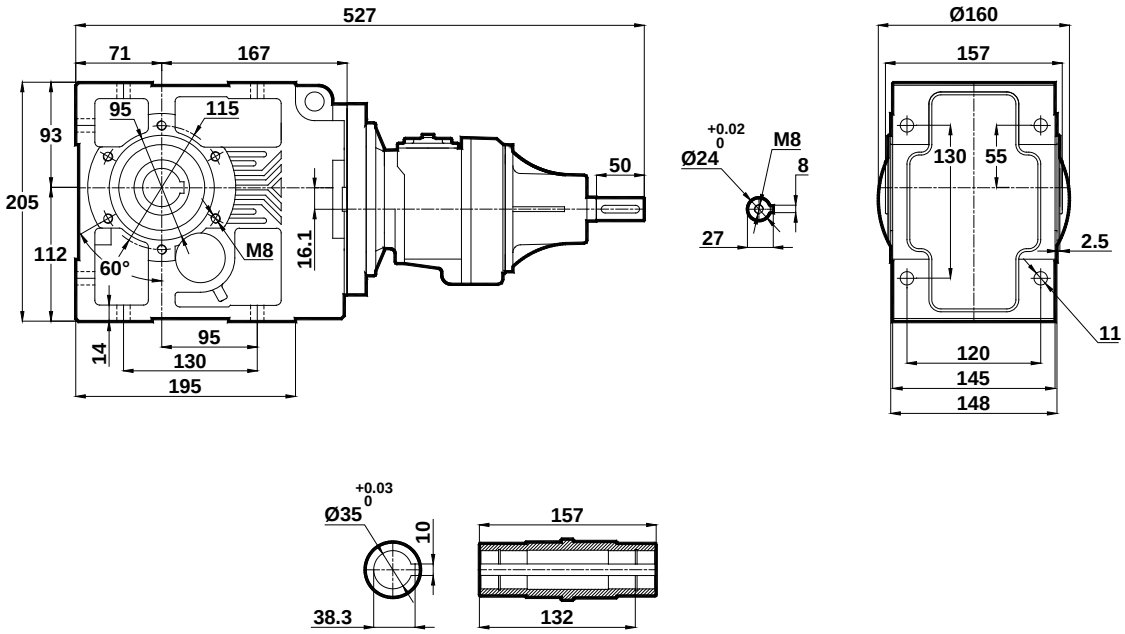
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT273.08

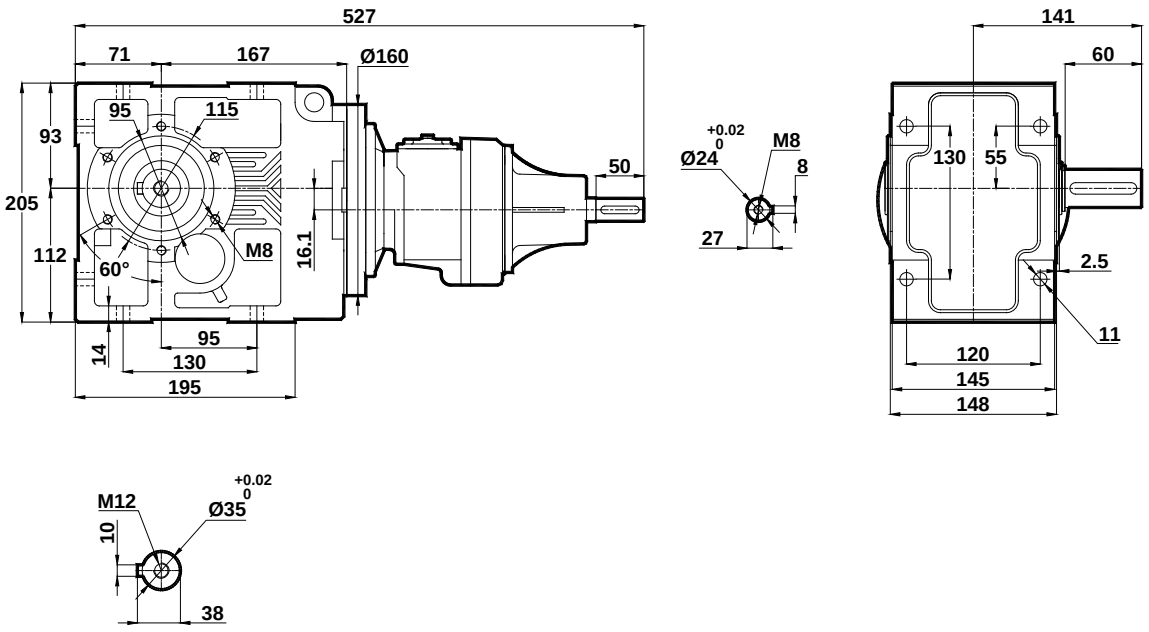


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT275.00
KT276.00

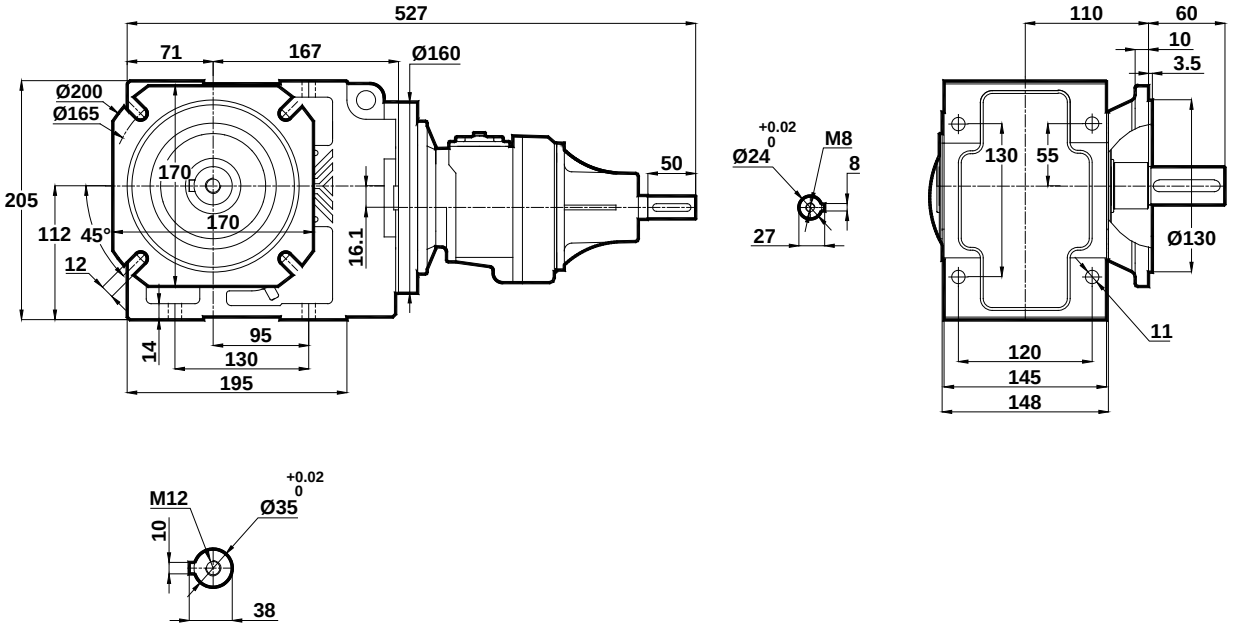


KT275.01
KT276.01

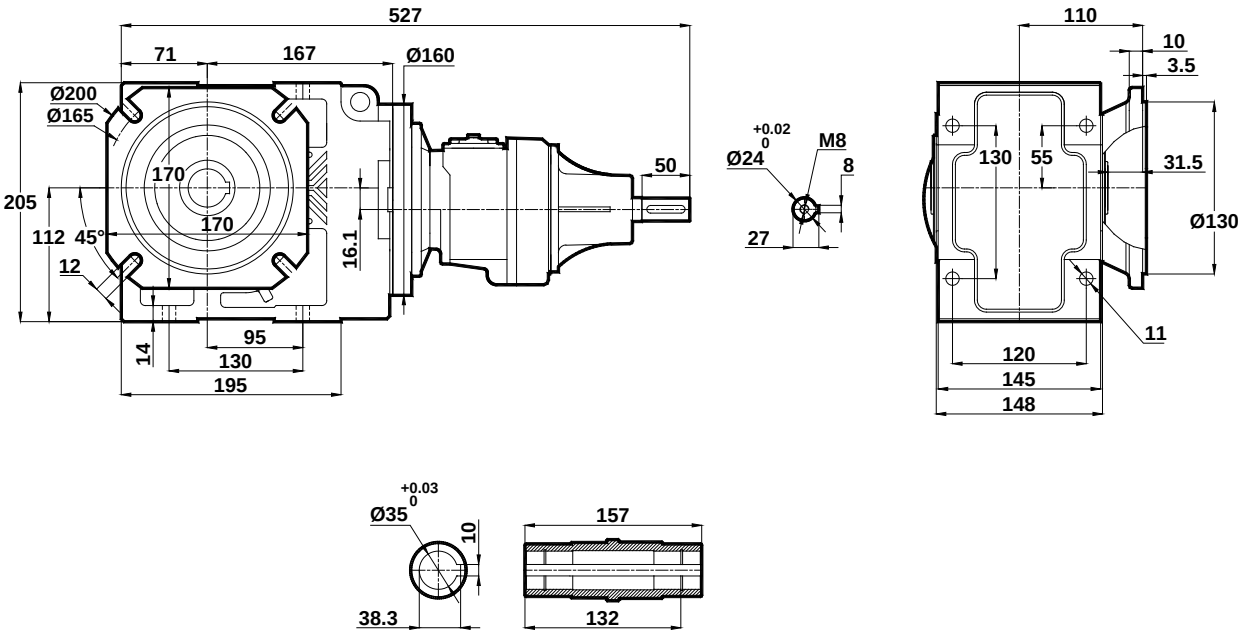


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT275.02
KT276.02

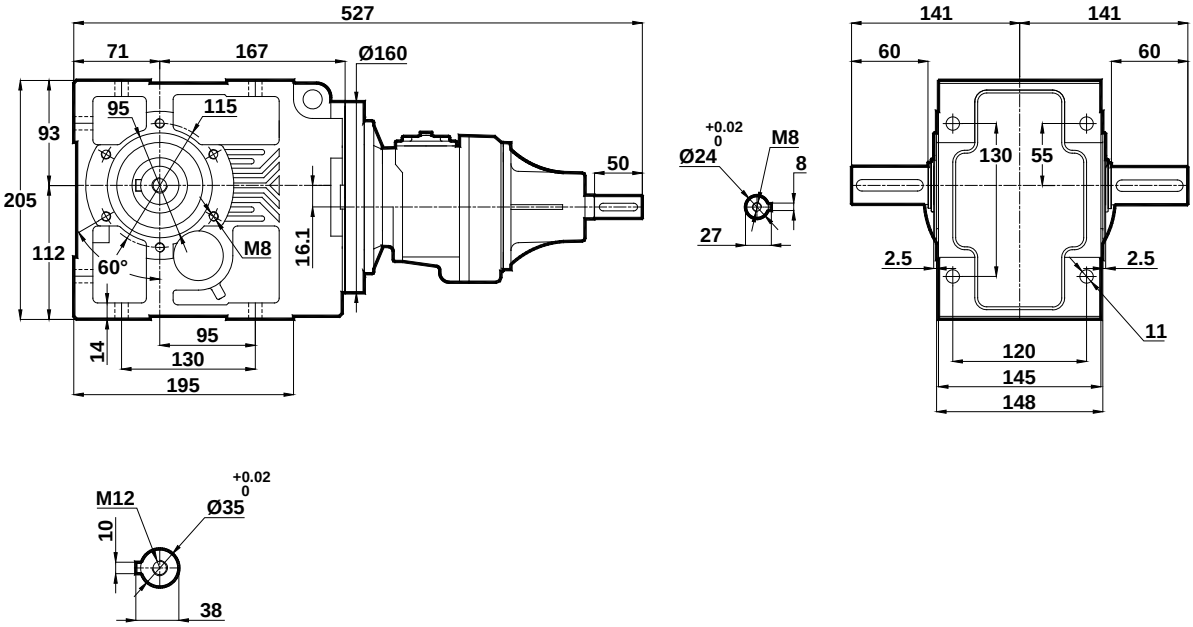


KT275.03
KT276.03

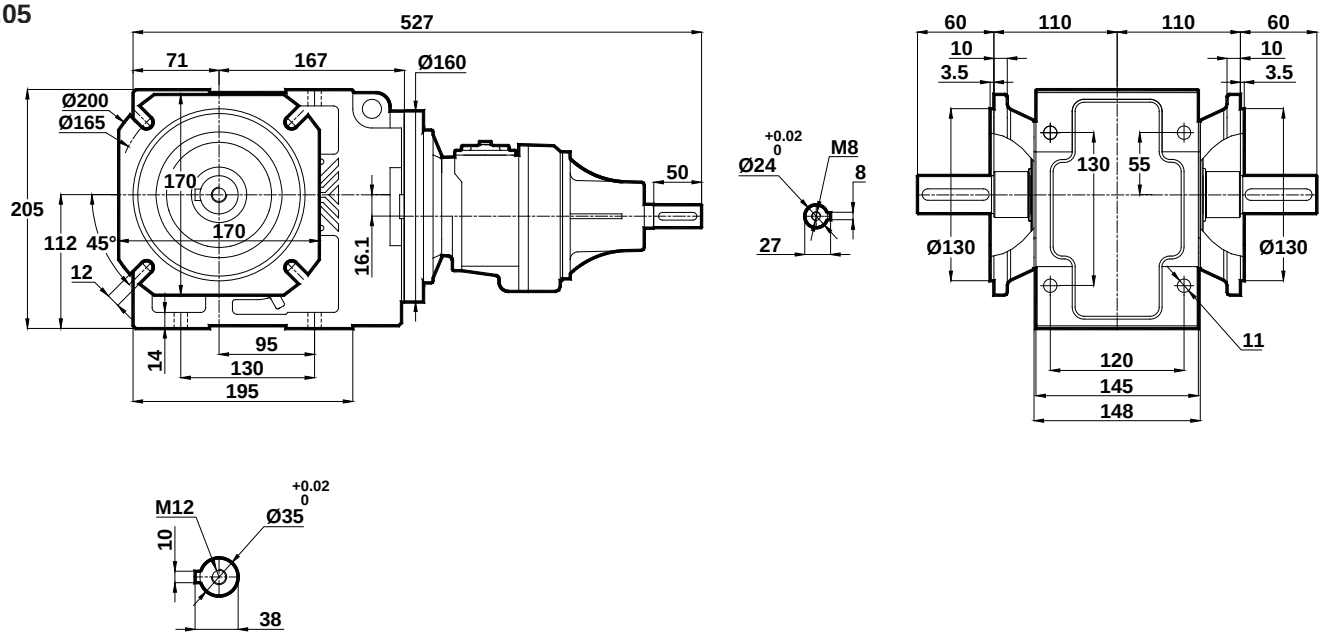


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT275.04
KT276.04

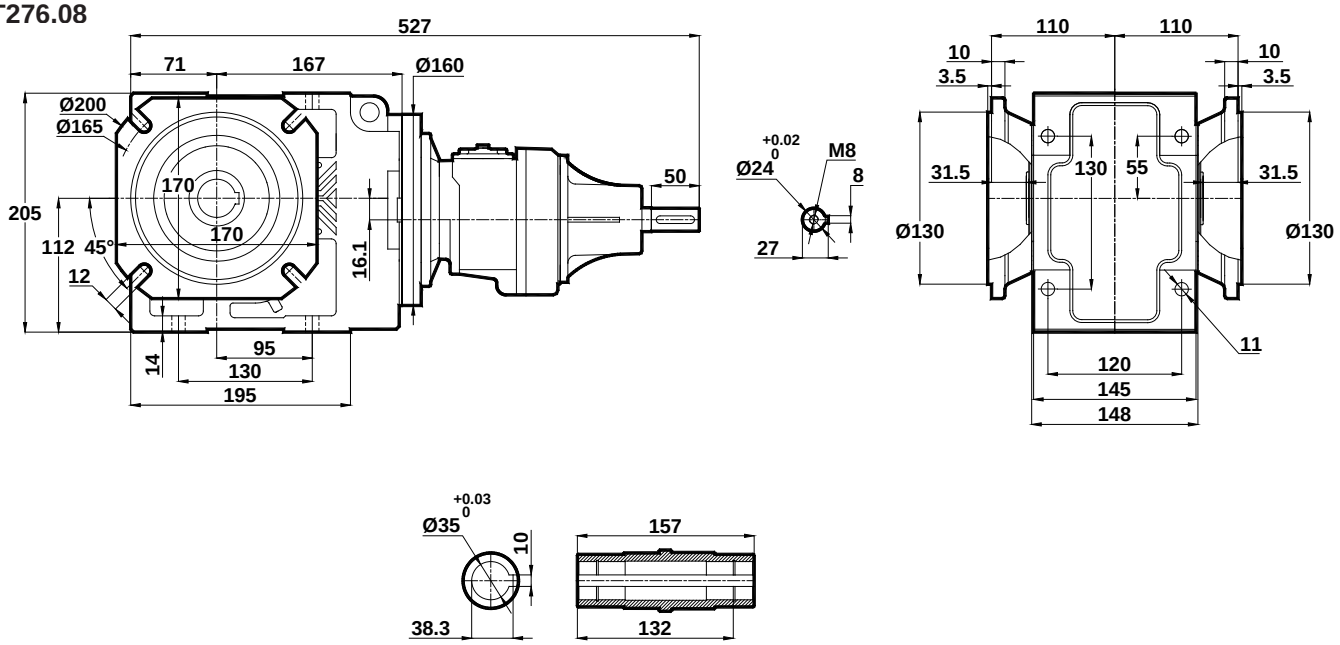


KT275.05
KT276.05



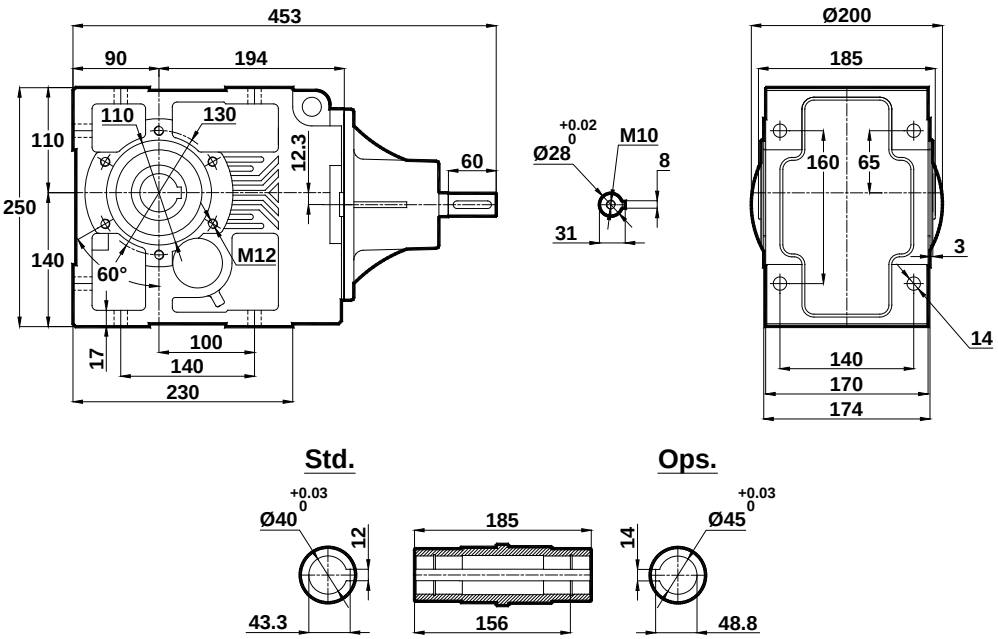
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT275.08
KT276.08

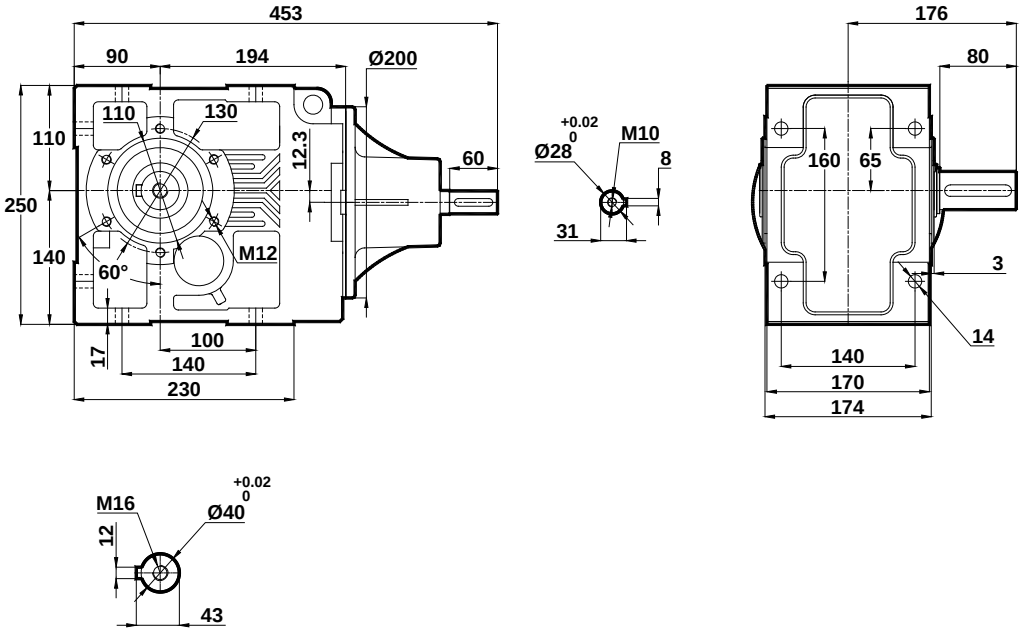


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT373.00

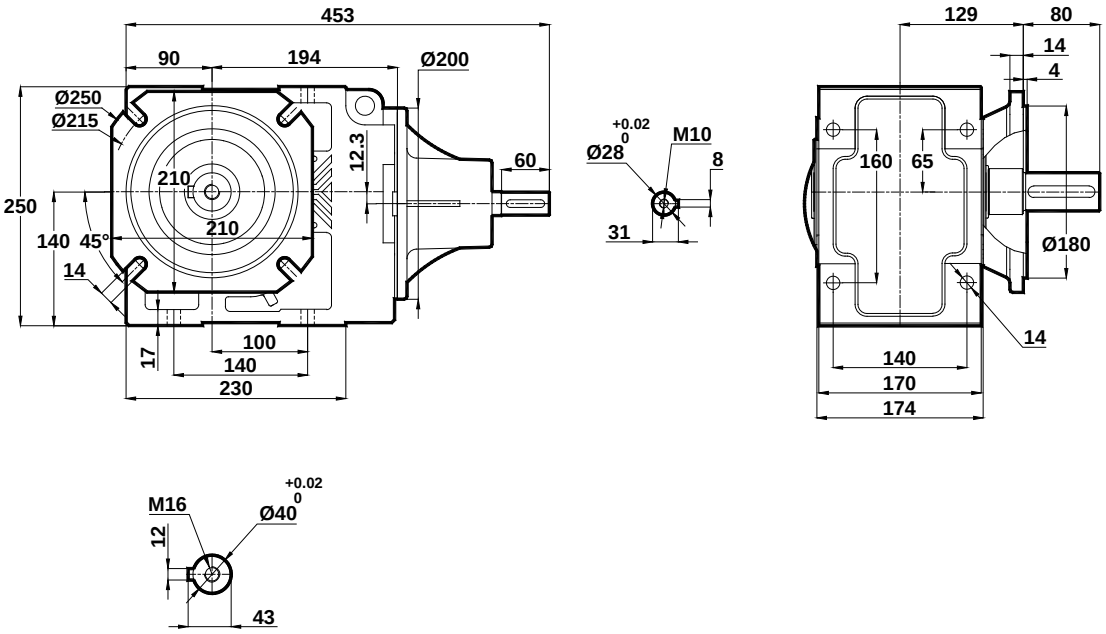


KT373.01

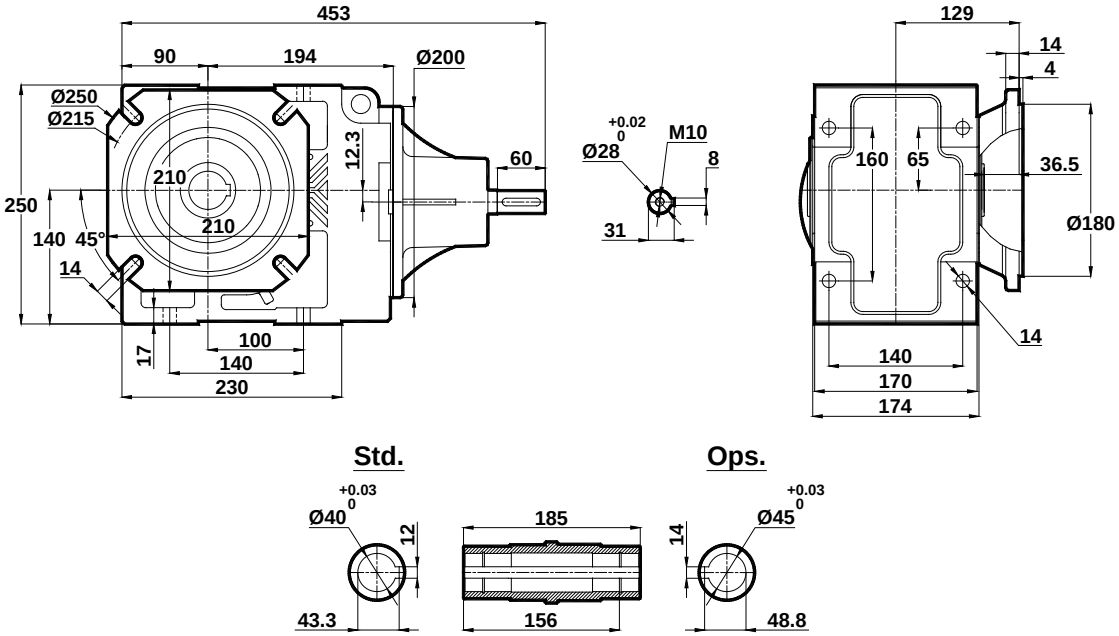


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT373.02



KT373.03

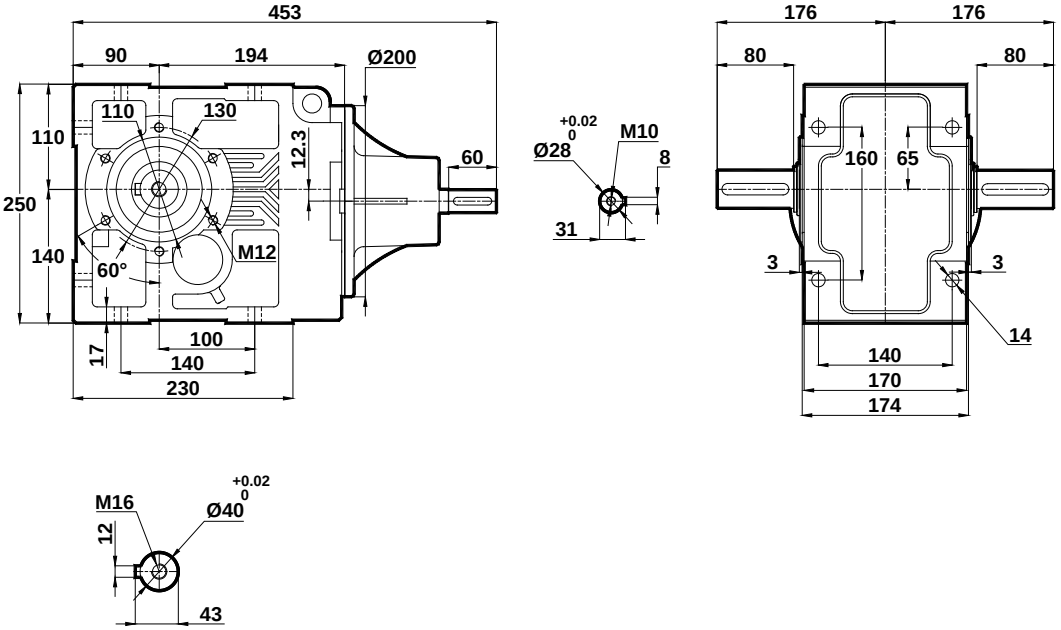


Std.

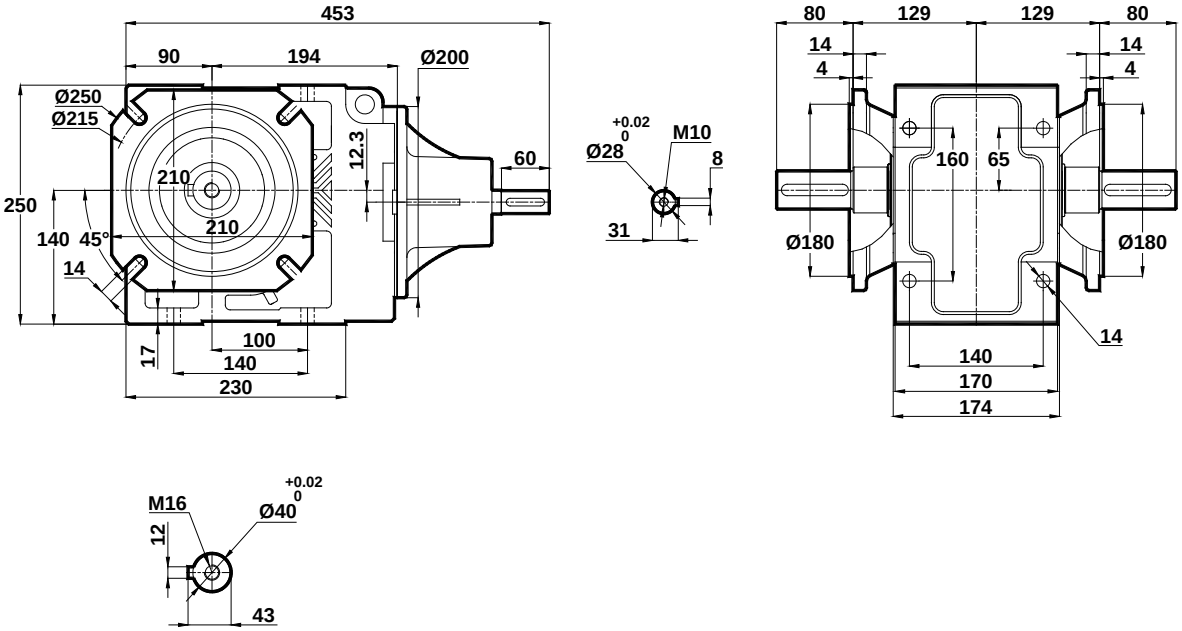
Ops.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT373.04

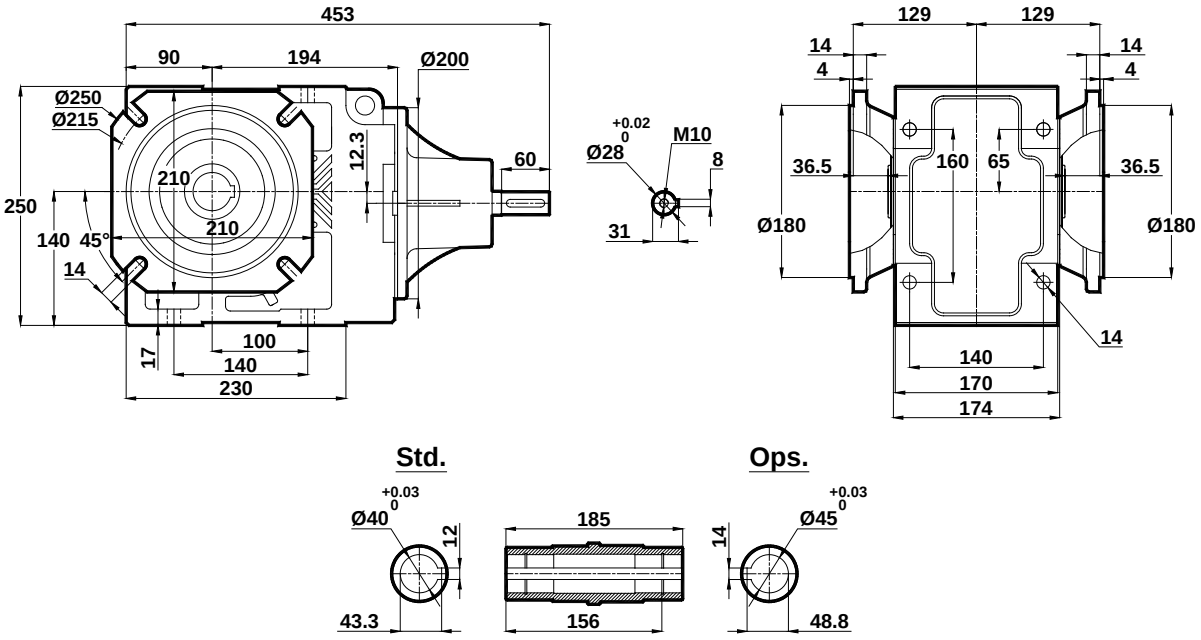


KT373.05



Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

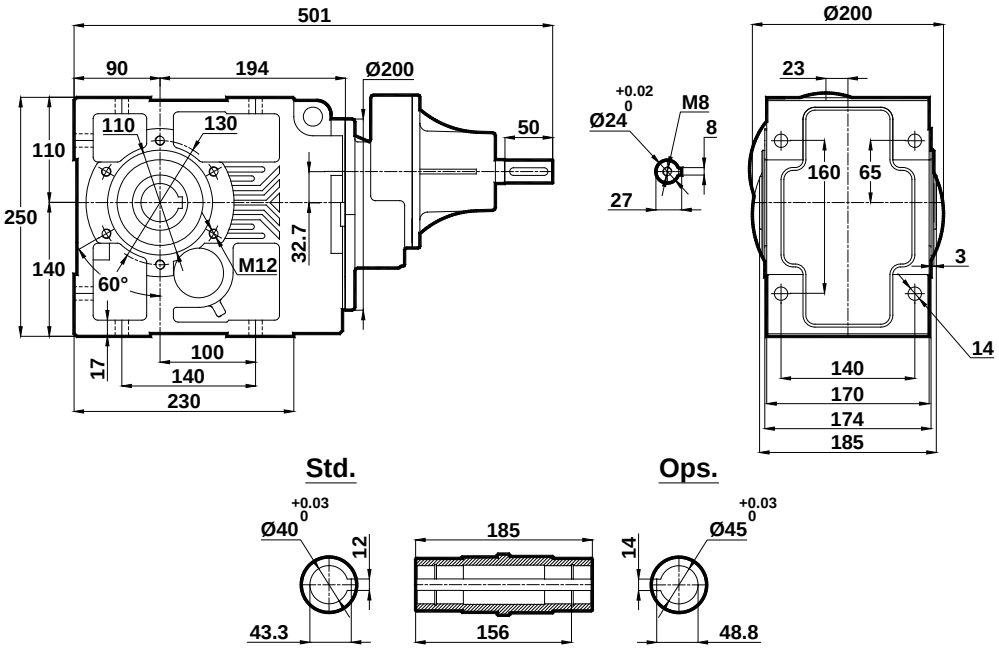
KT373.08



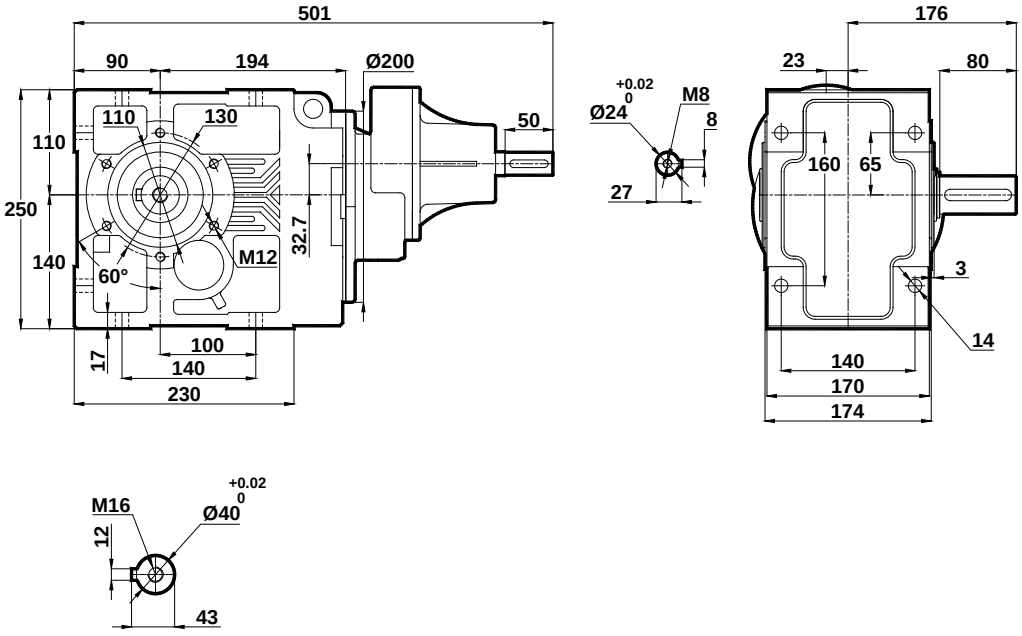
Std. **Ops.**

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT374.00

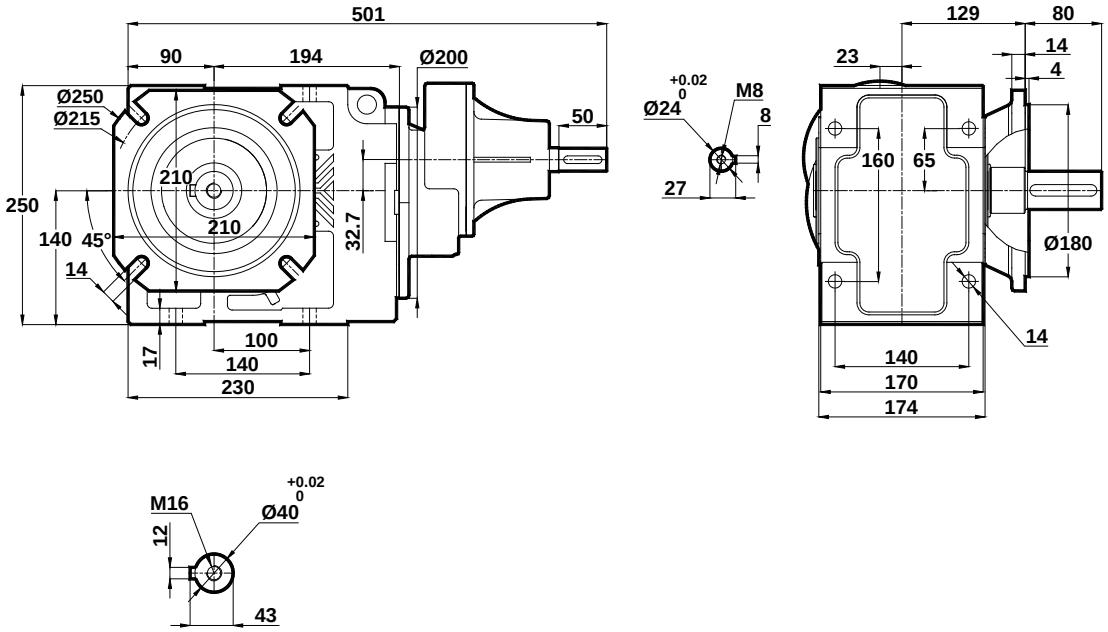


KT374.01

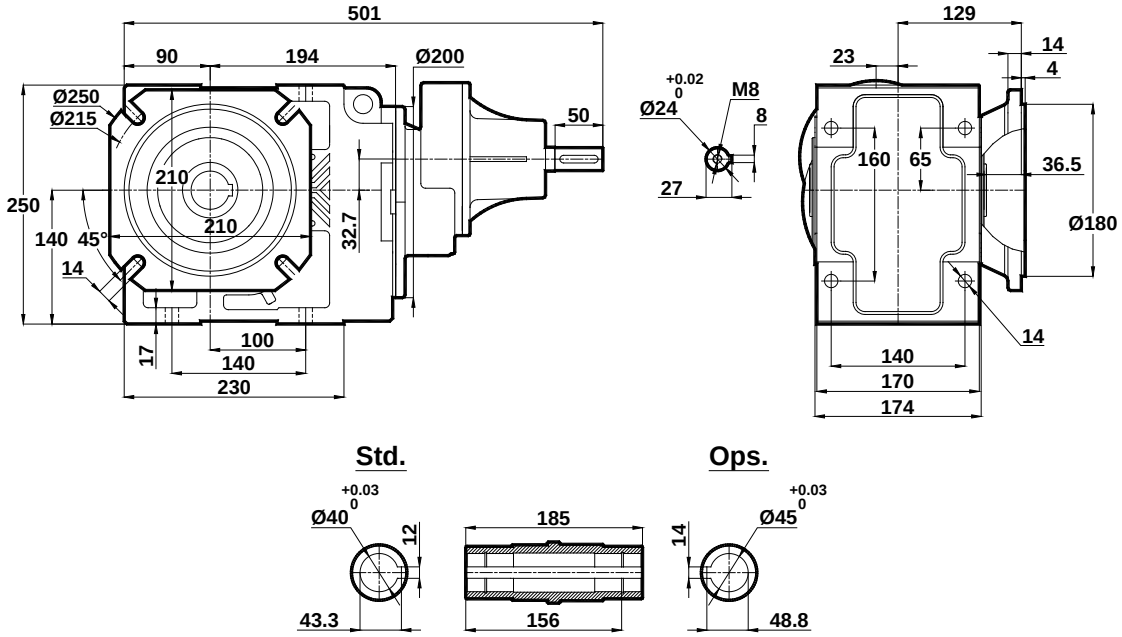


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT374.02

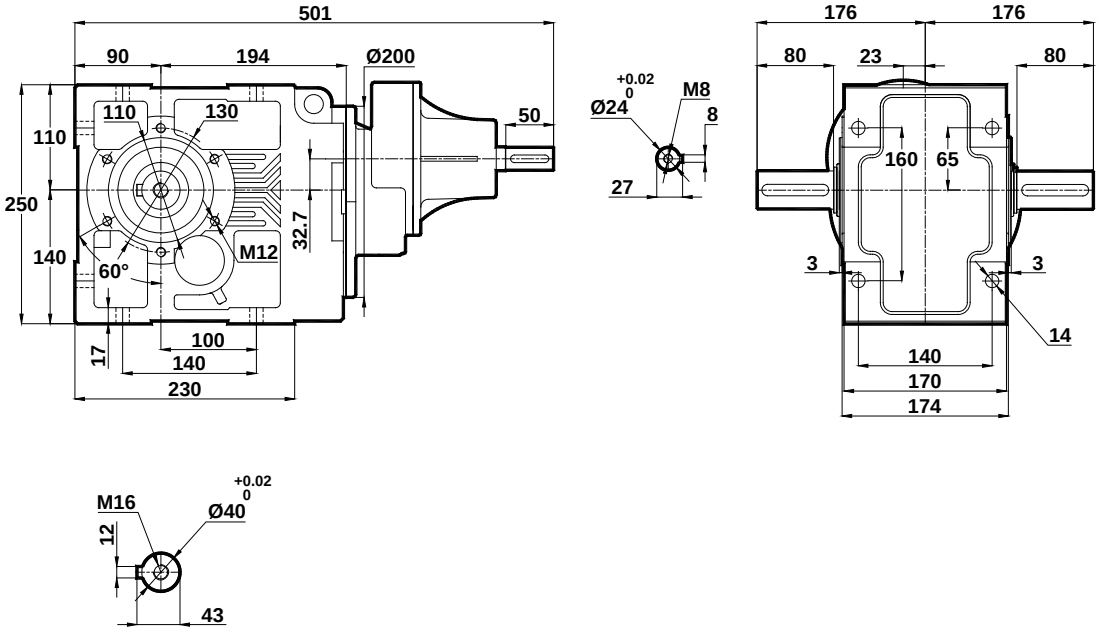


KT374.03

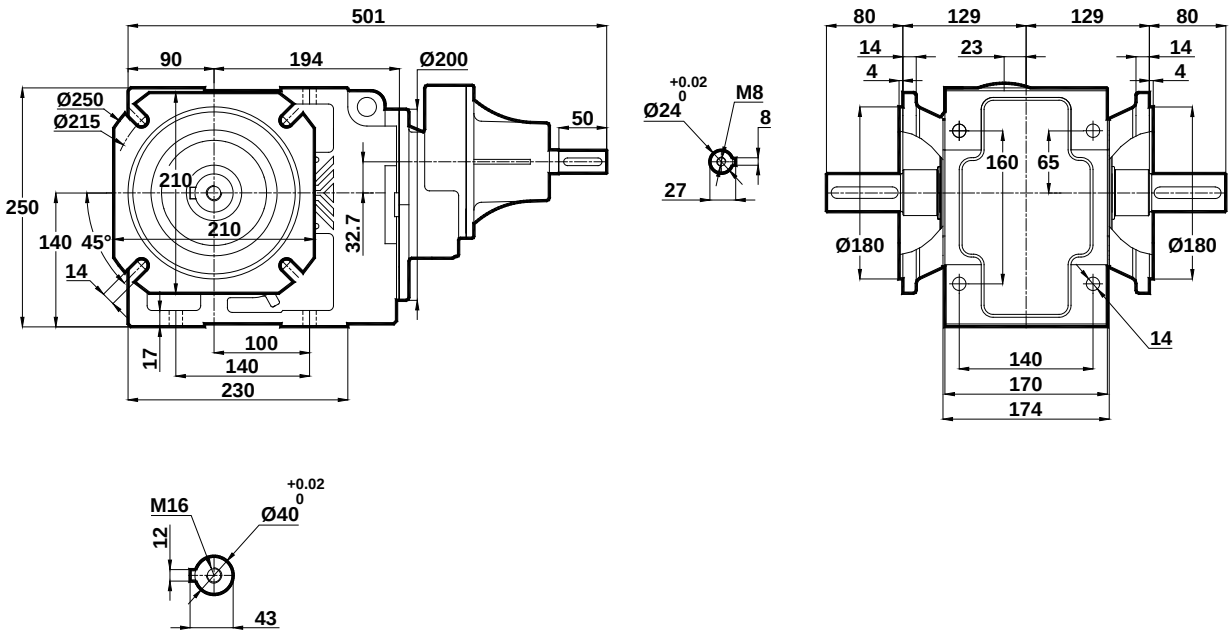


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT374.04

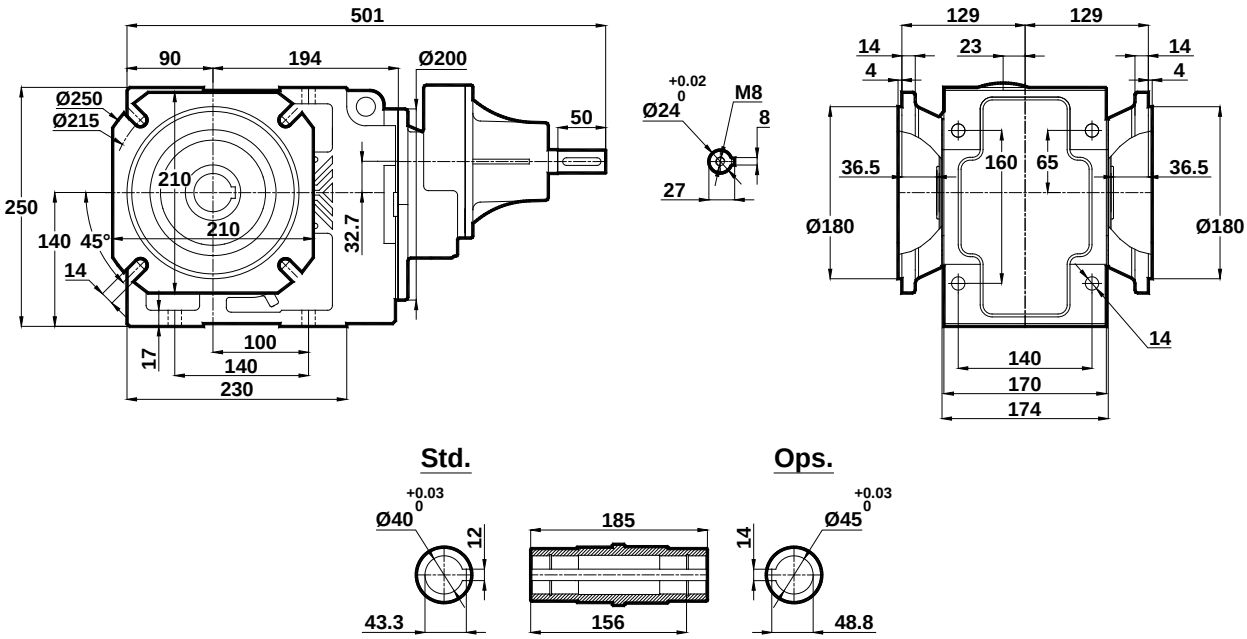


KT374.05



Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

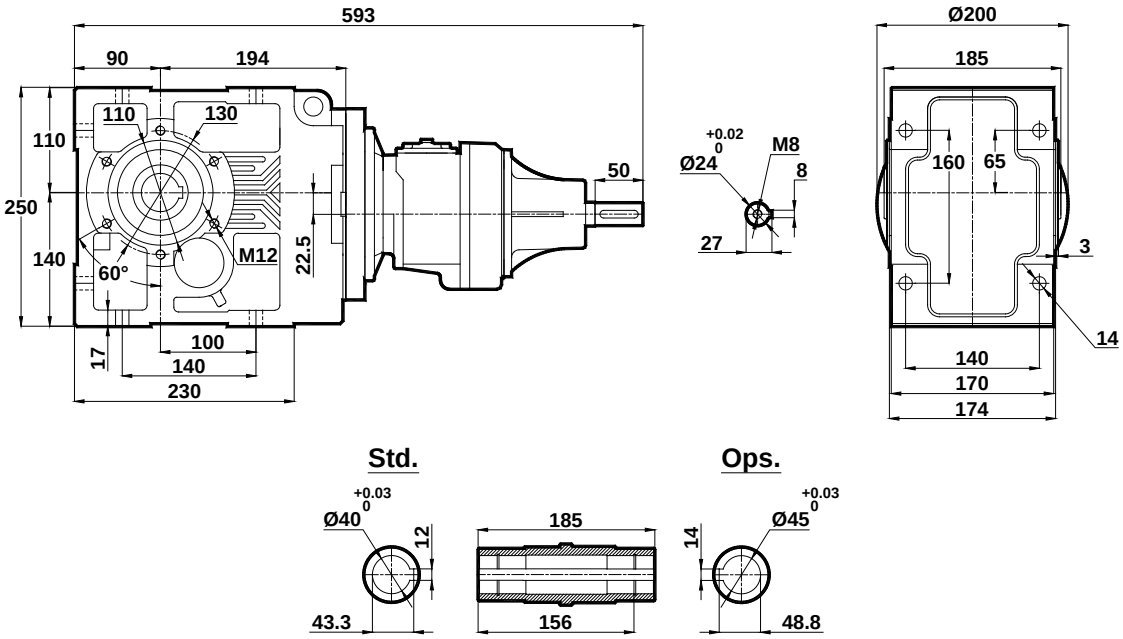
KT374.08



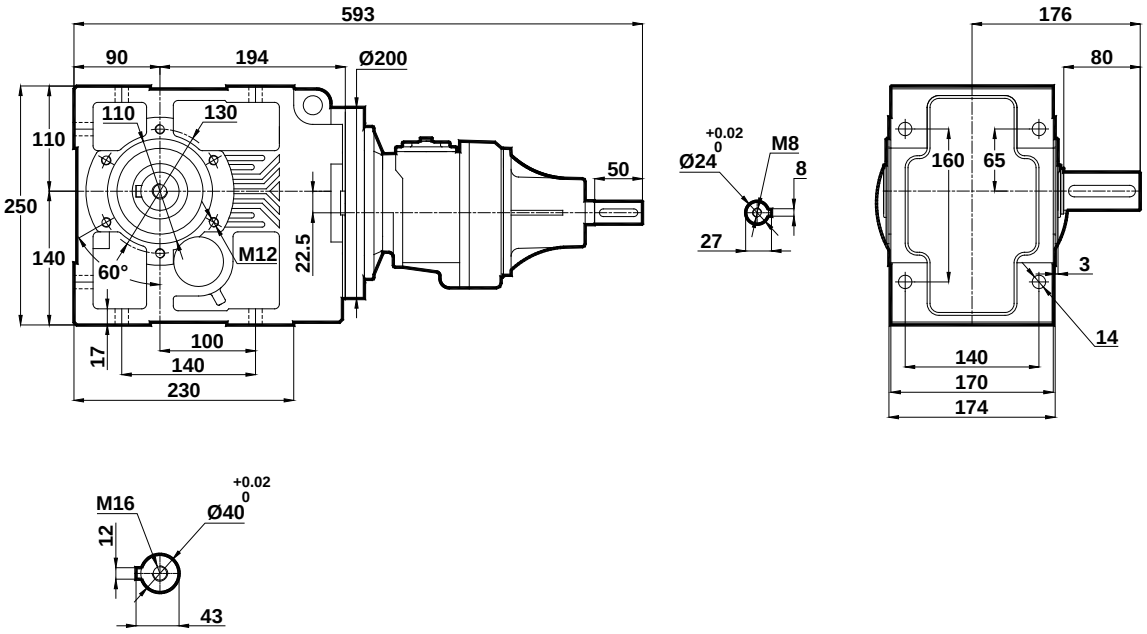
Std. **Ops.**

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT375.00
KT376.00

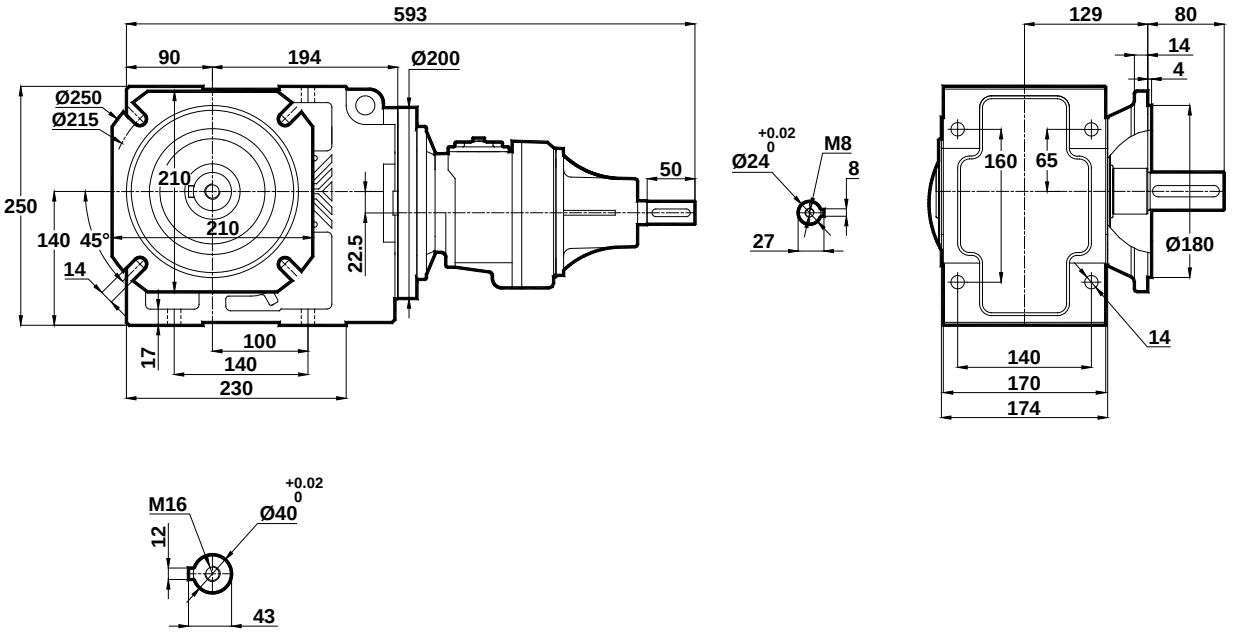


KT375.01
KT376.01

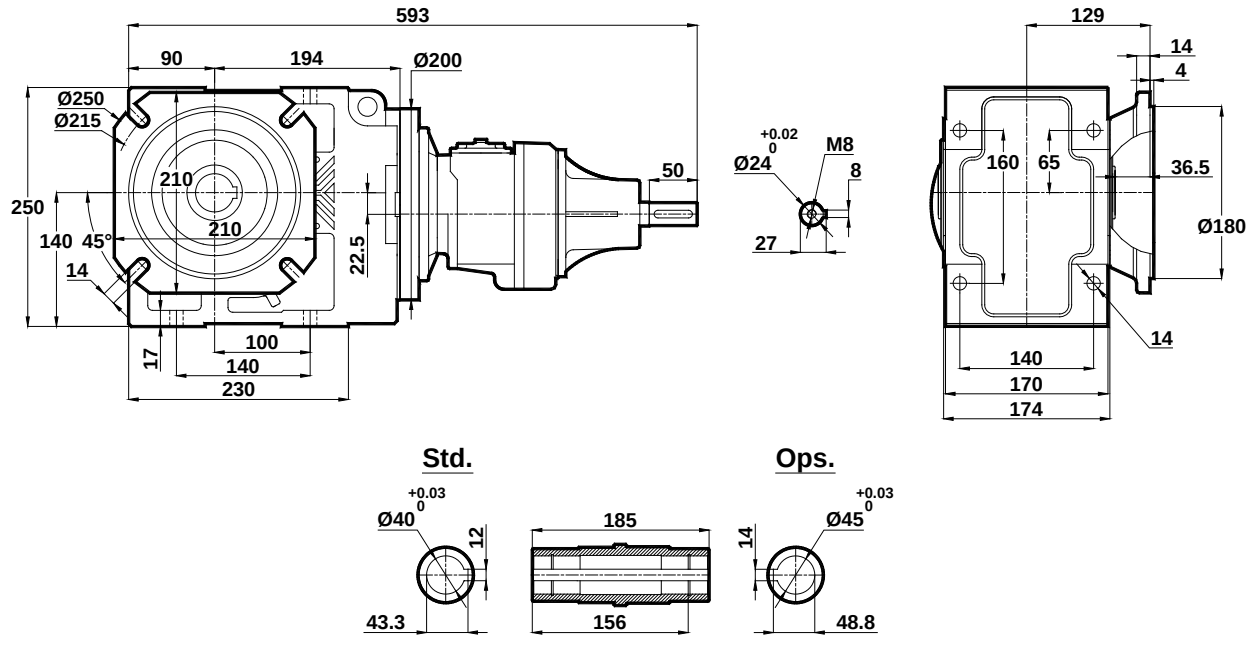


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT375.02
KT376.02



KT375.03
KT376.03

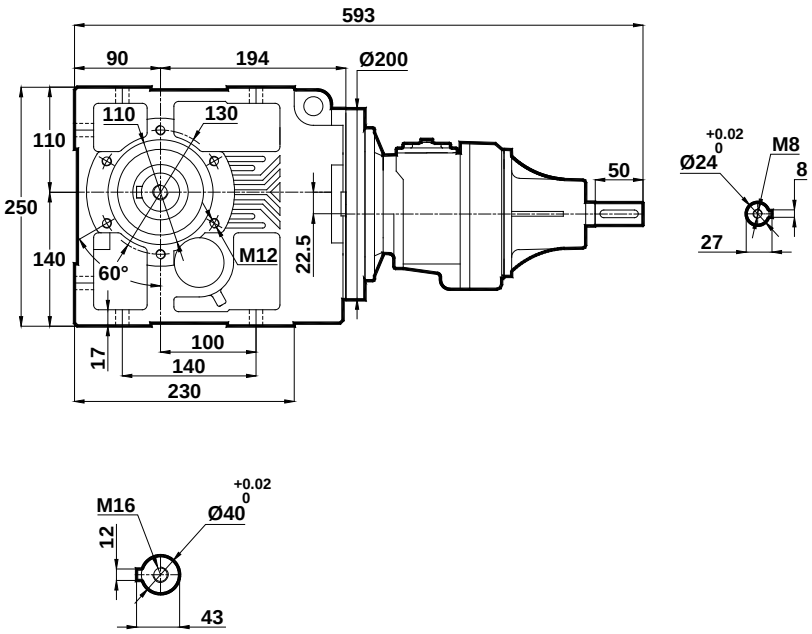


Std.

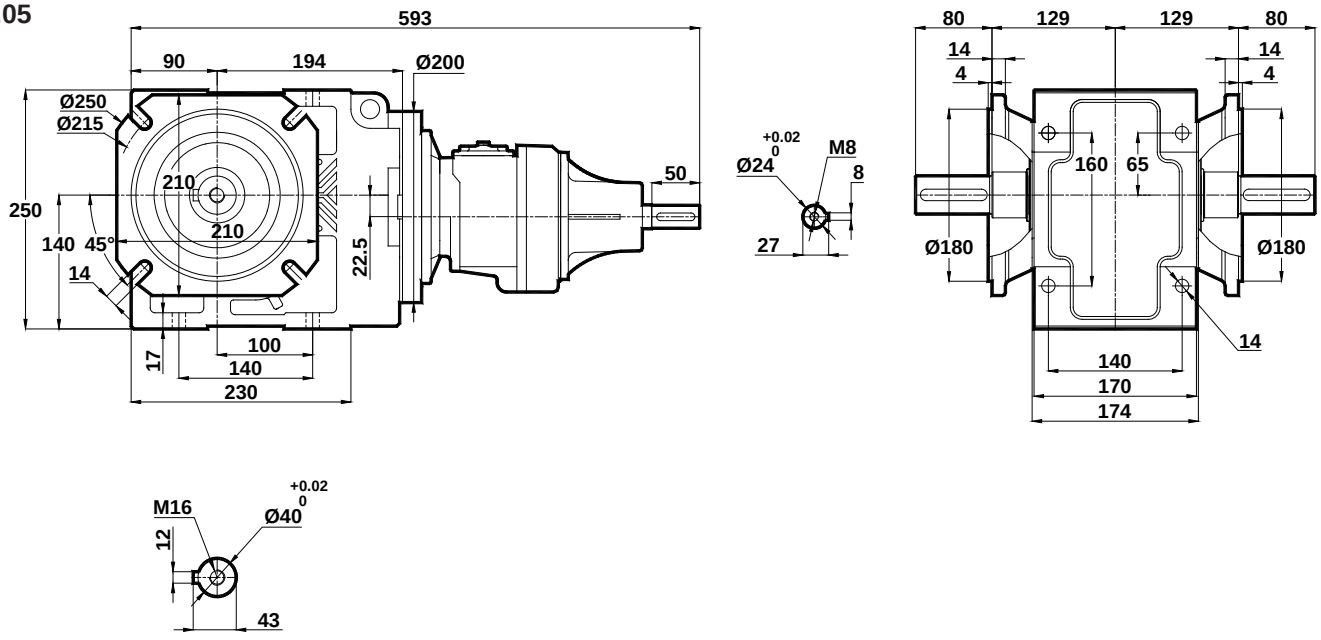
Ops.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT375.04
KT376.04

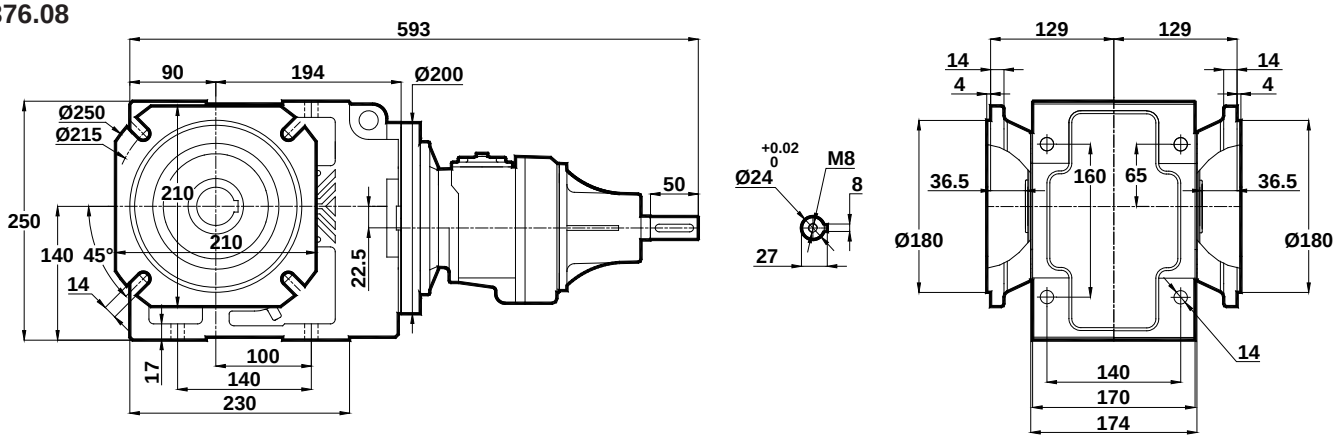


KT375.05
KT376.05

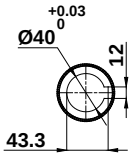


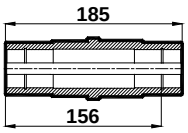
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT375.08
KT376.08

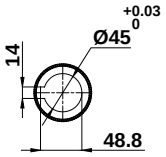


Std.



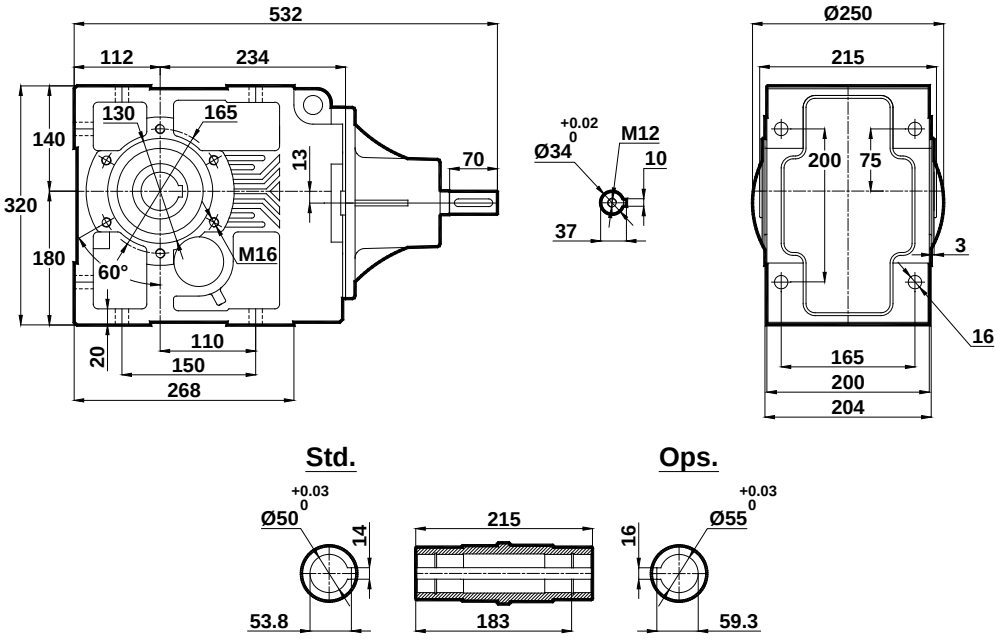


Ops.

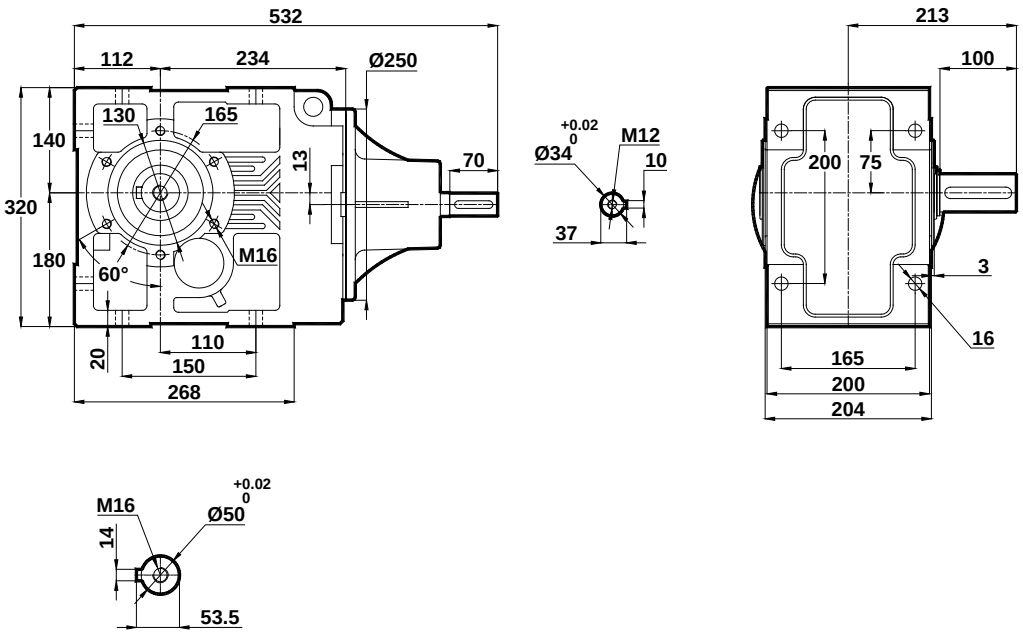


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT473.00

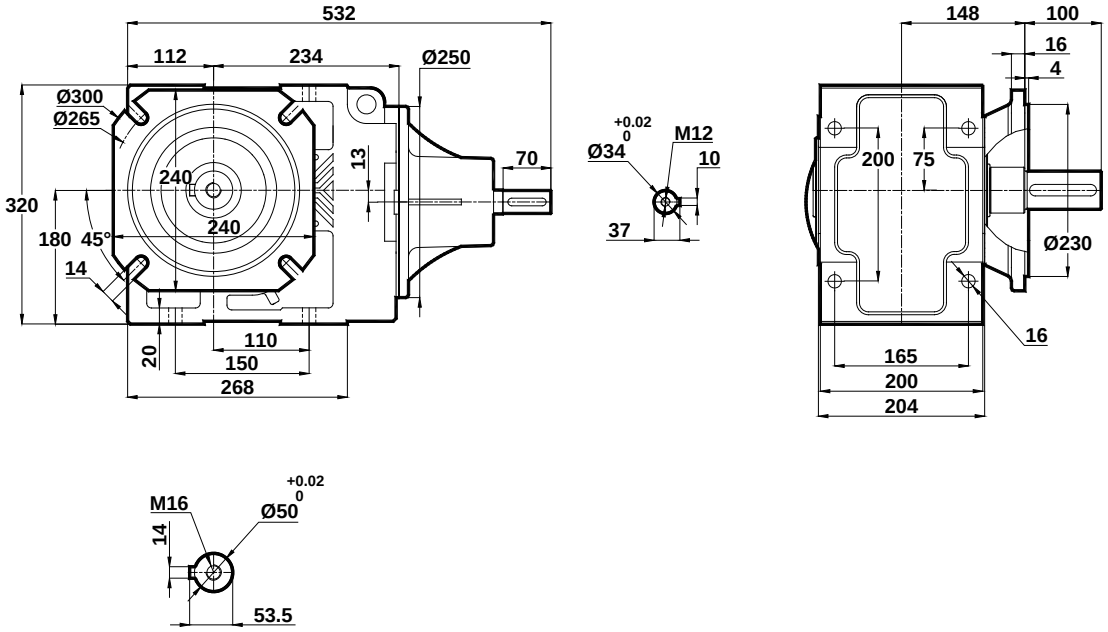


KT473.01

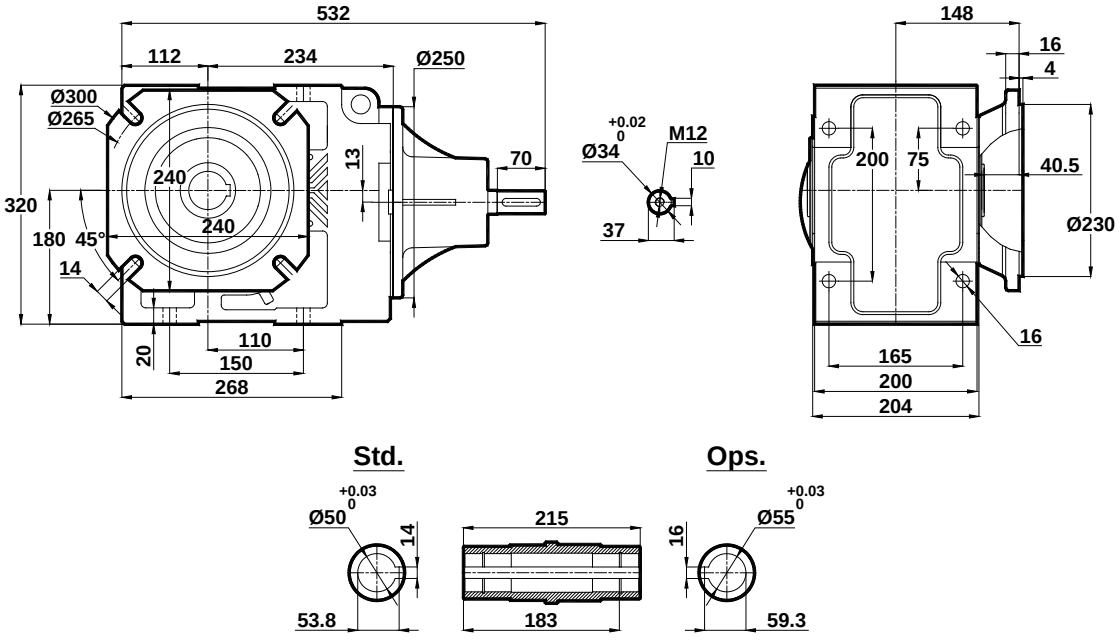


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT473.02



KT473.03

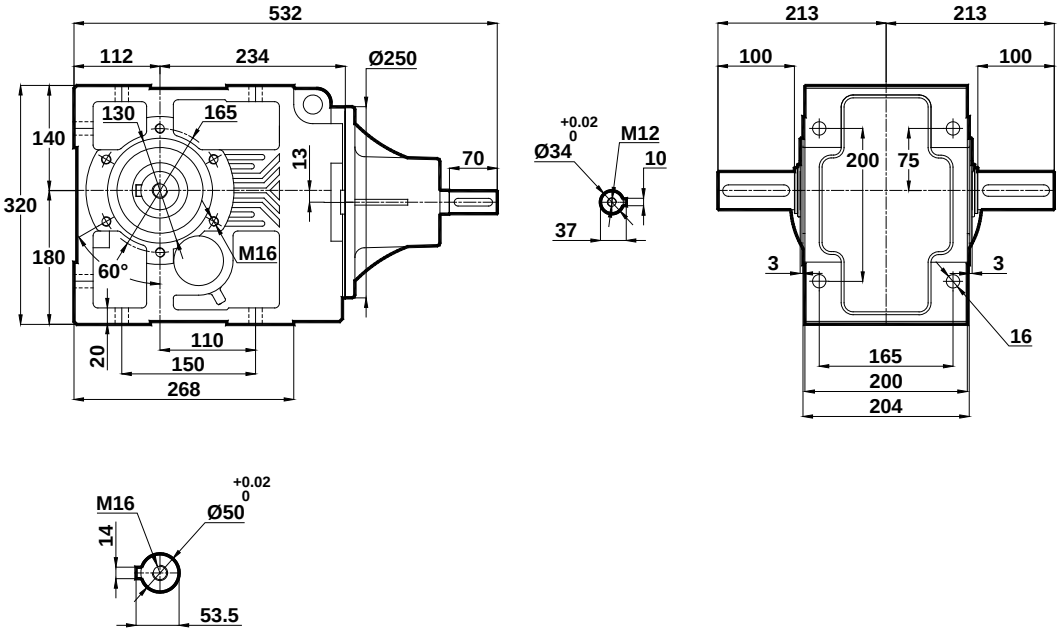


Std.

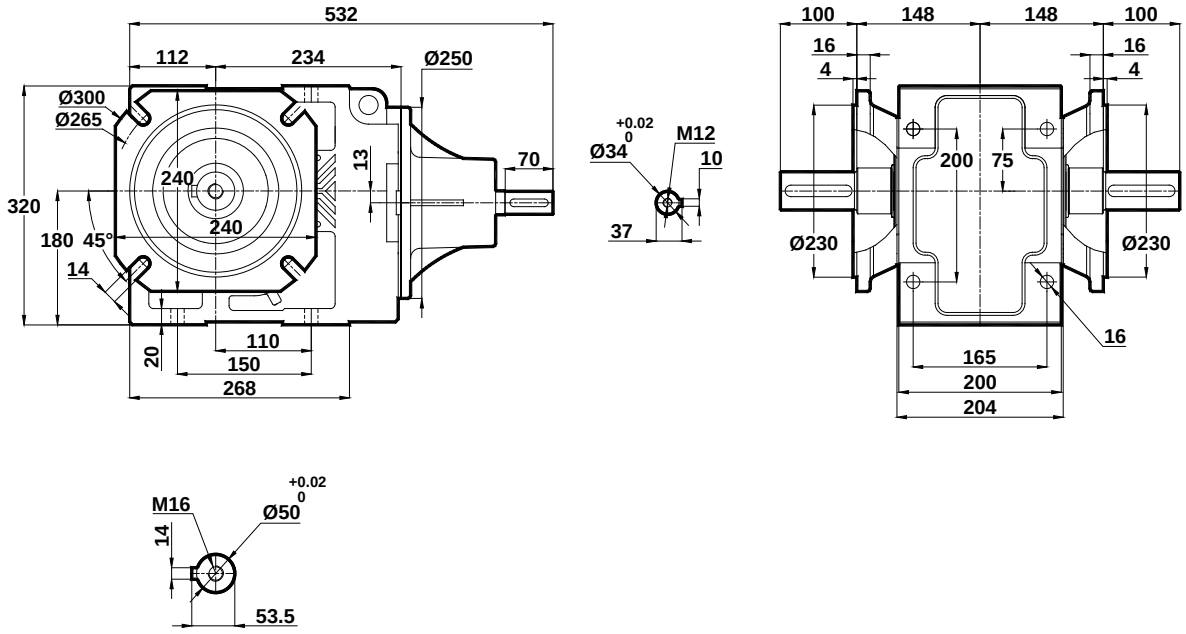
Ops.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT473.04

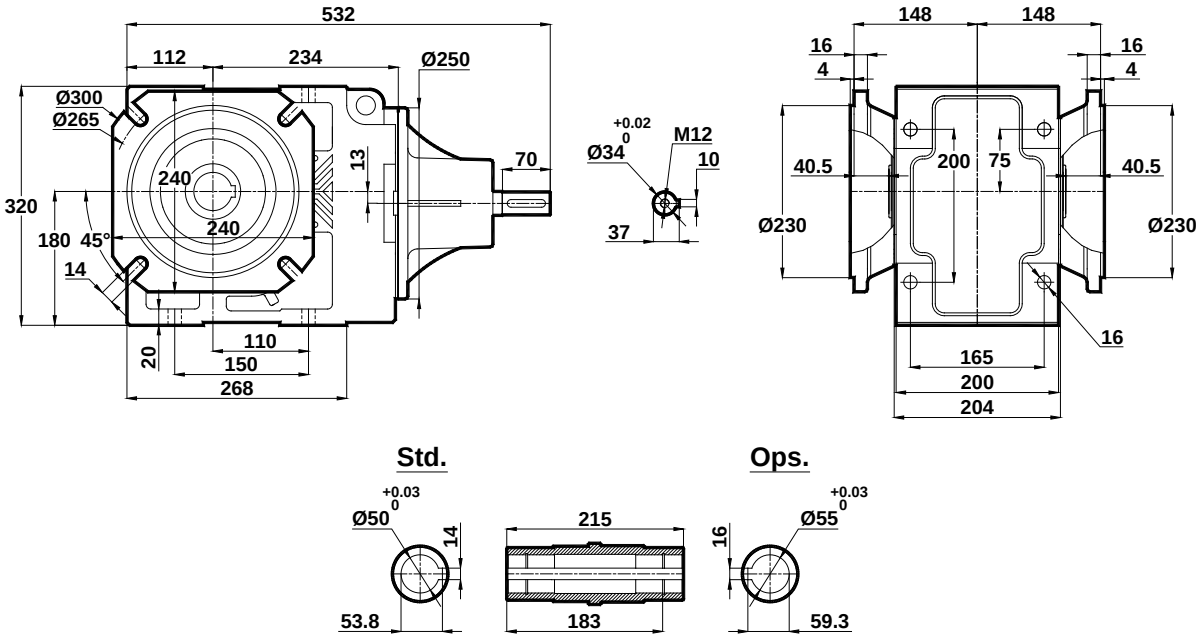


KT473.05



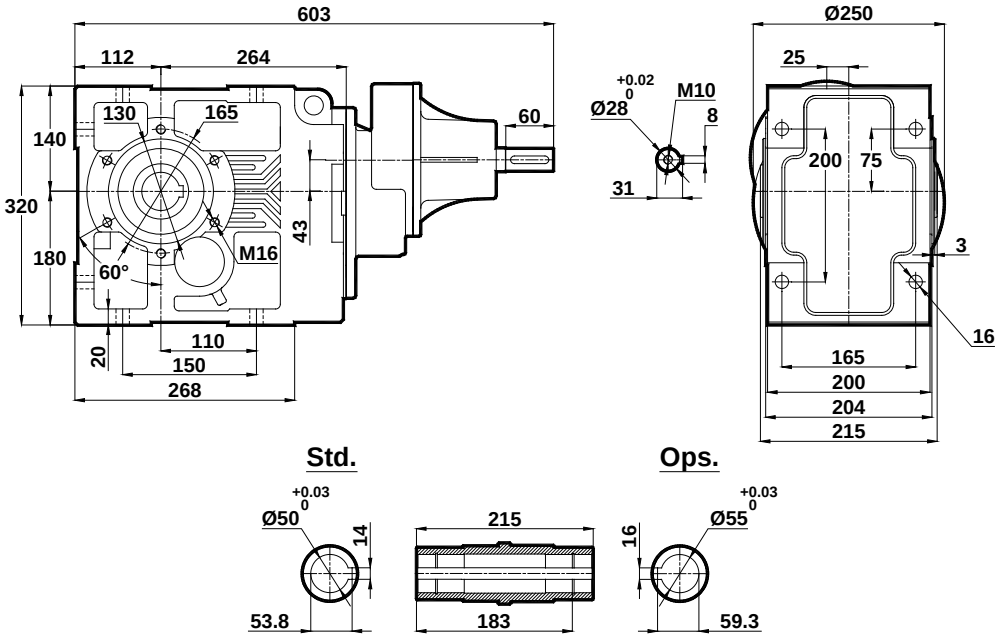
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT473.08

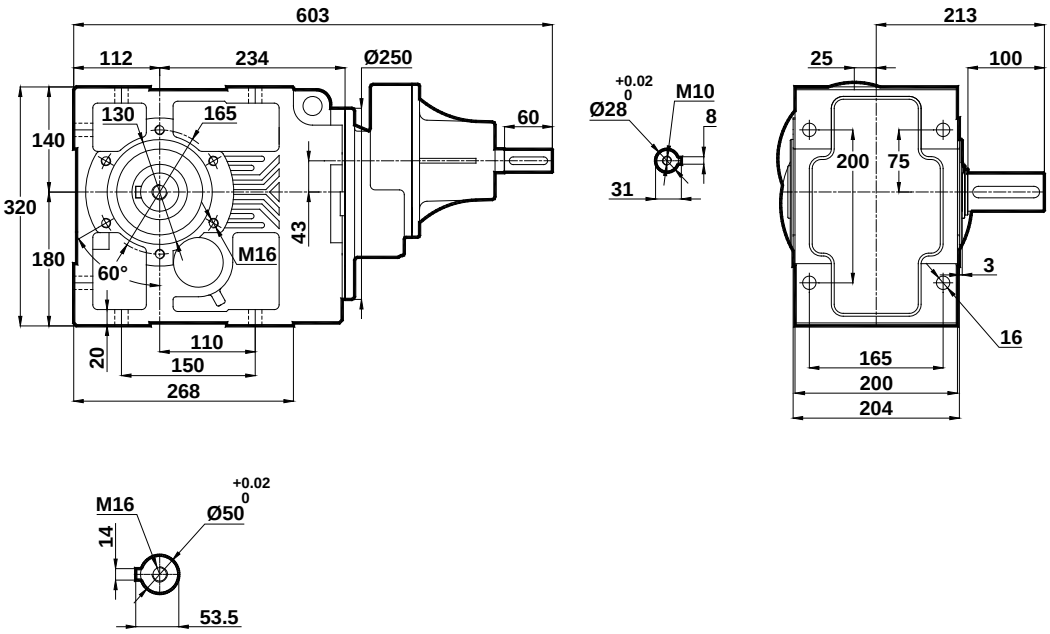


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT474.00

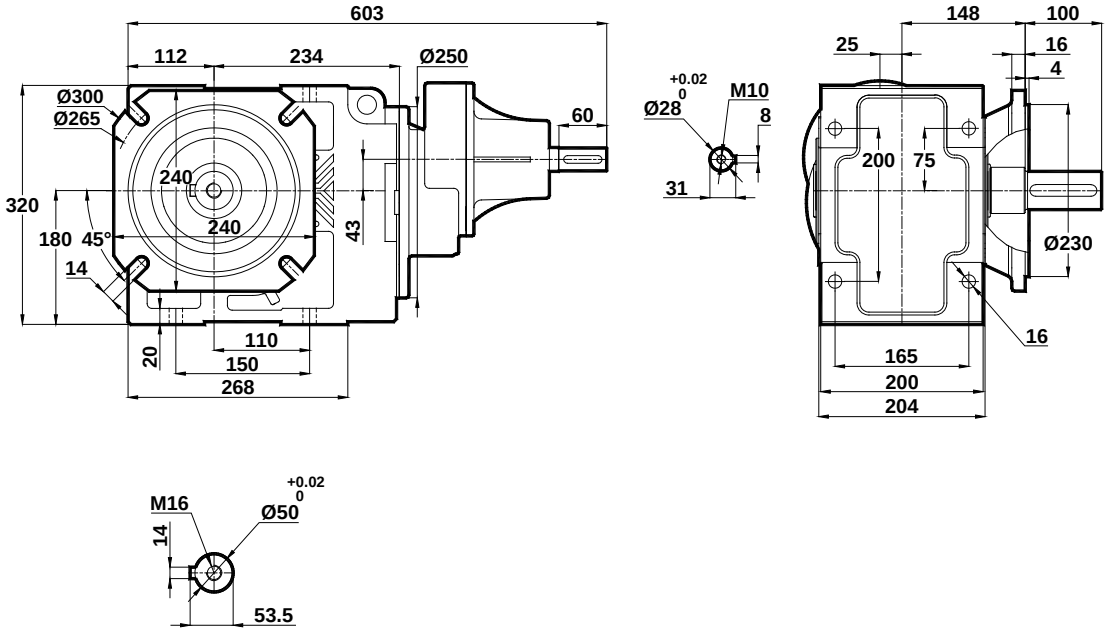


KT474.01

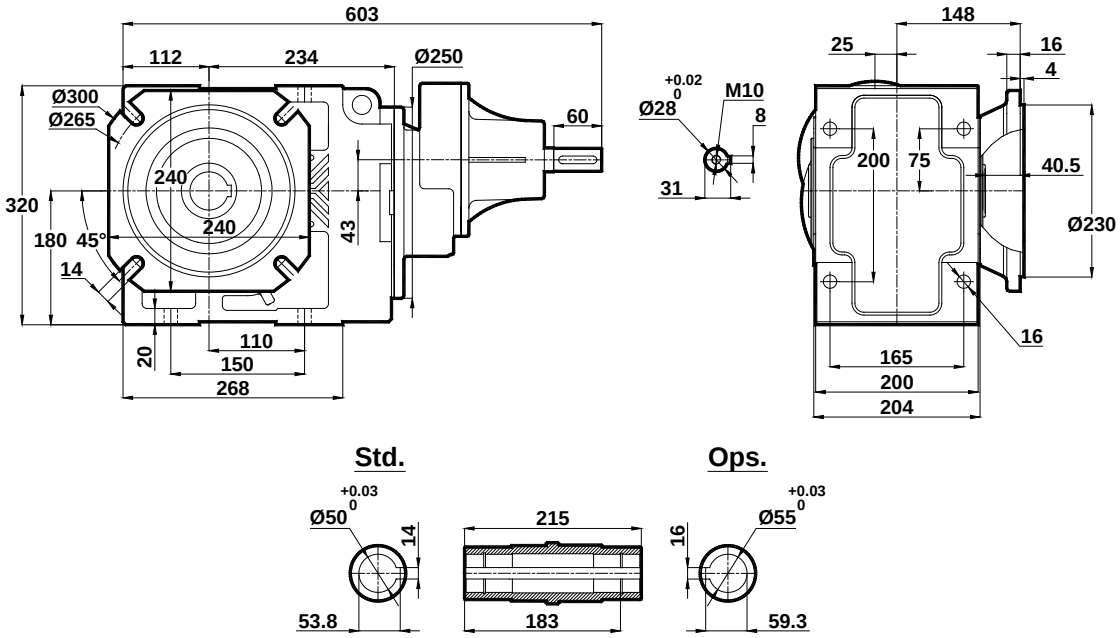


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT474.02



KT474.03

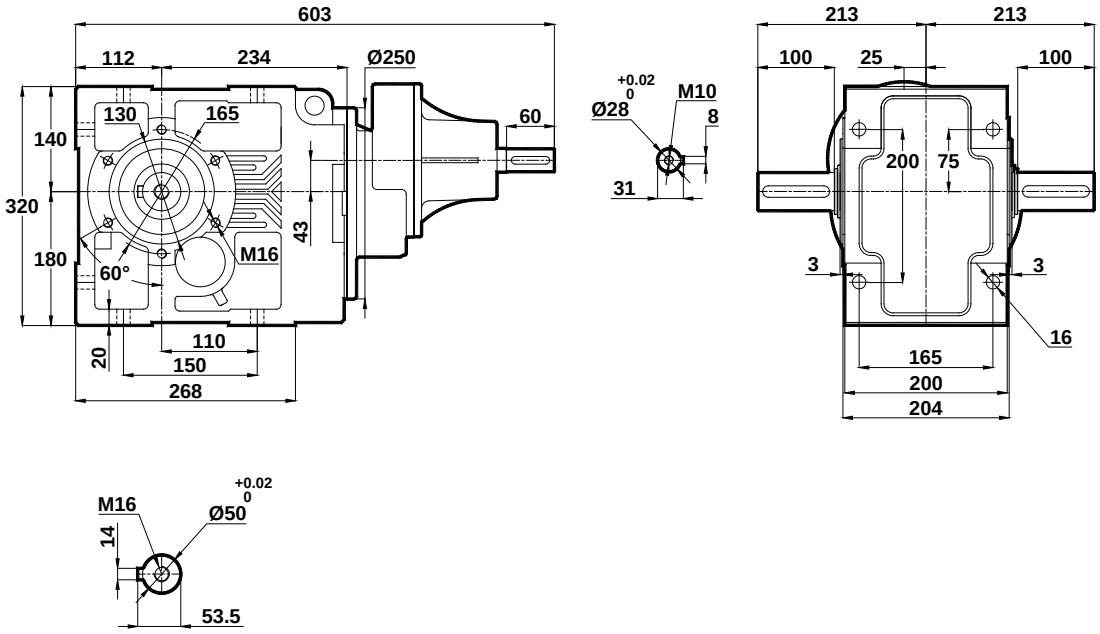


Std.

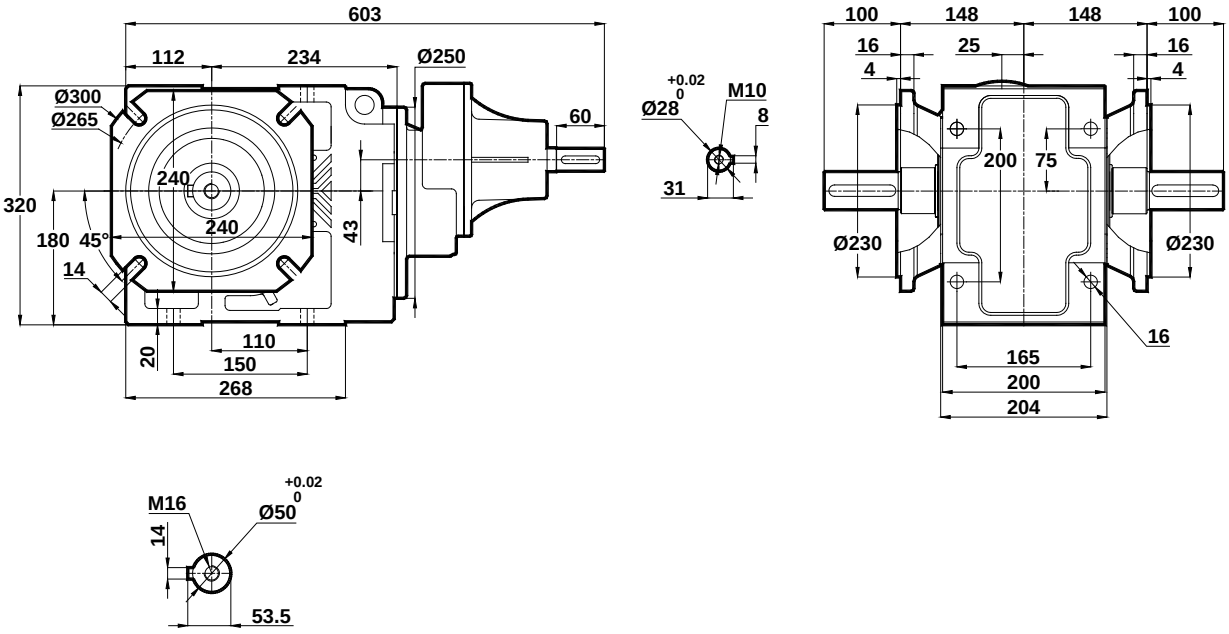
Ops.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT474.04

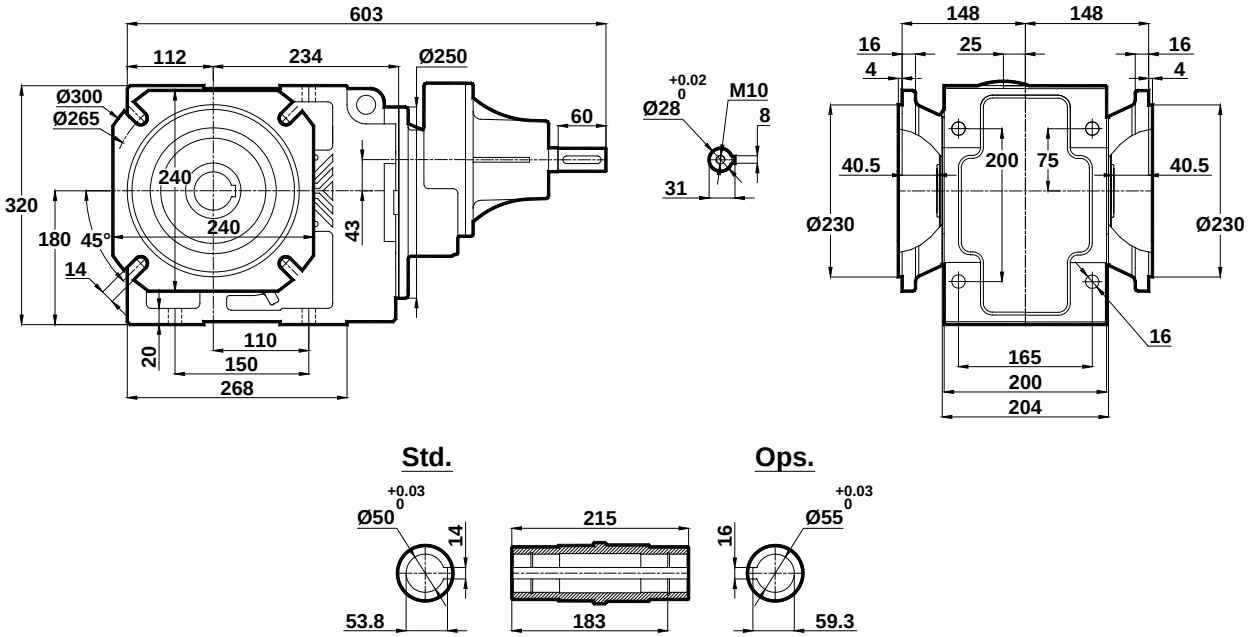


KT474.05



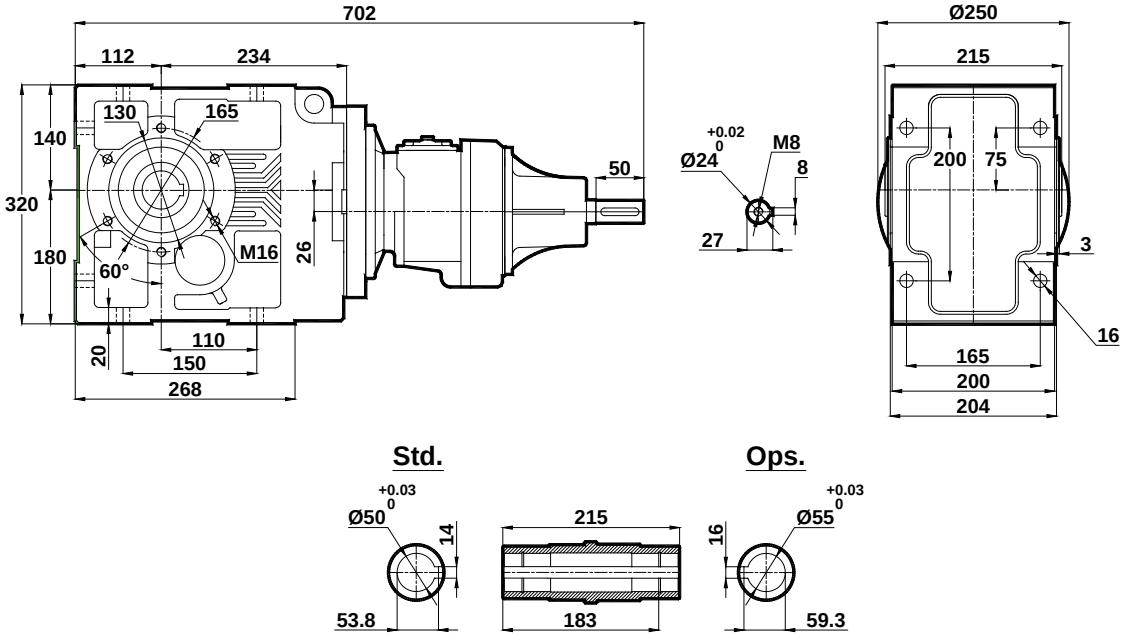
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT474.08

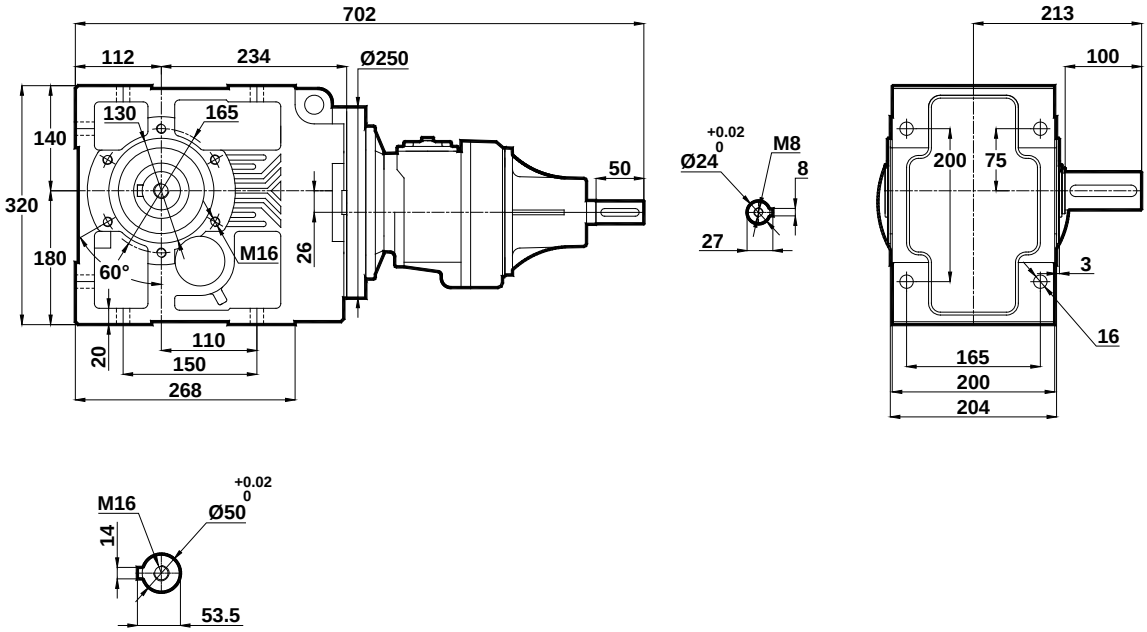


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT475.00
KT476.00

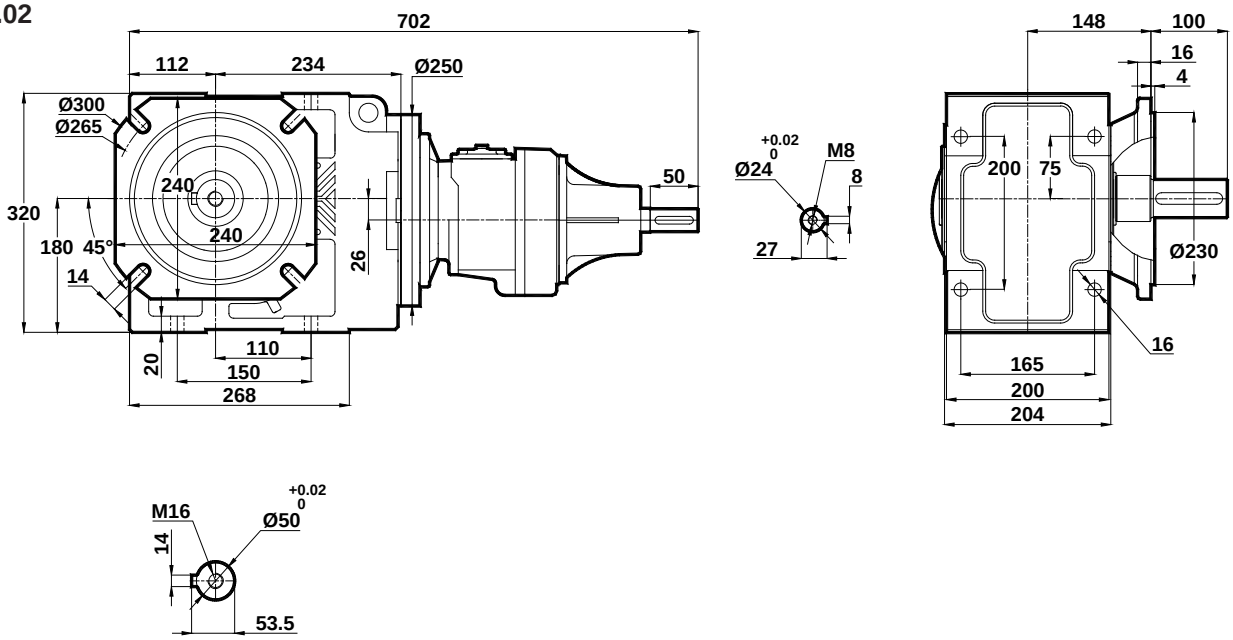


KT475.01
KT476.01

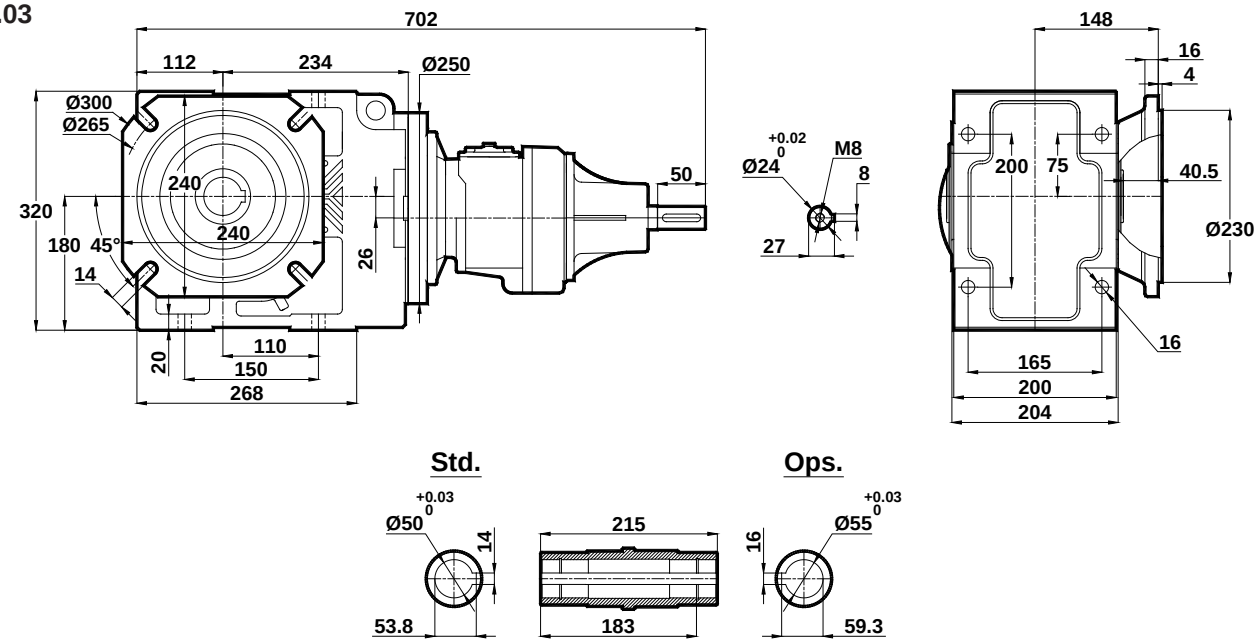


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT475.02
KT476.02



KT475.03
KT476.03

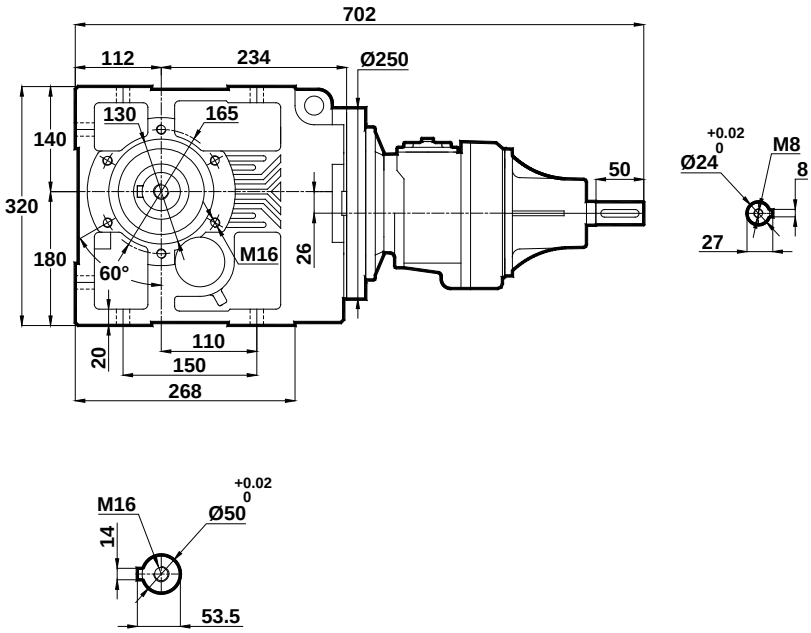


Std.

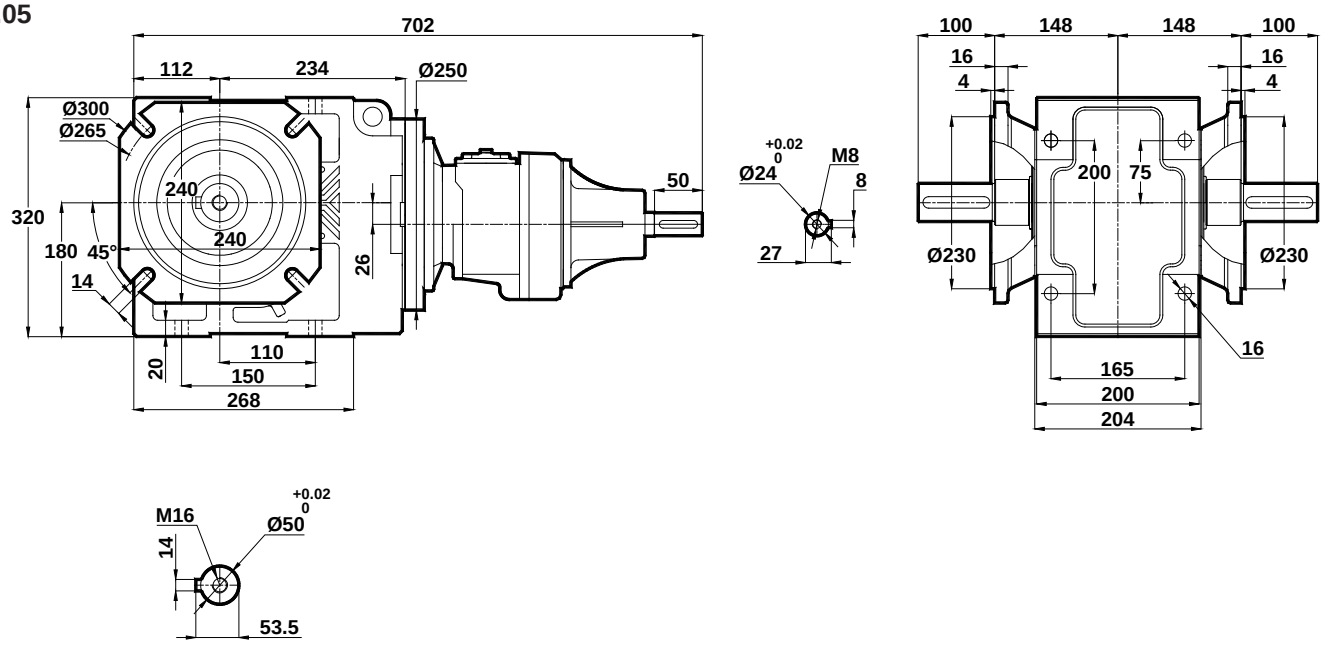
Ops.

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT475.04
KT476.04

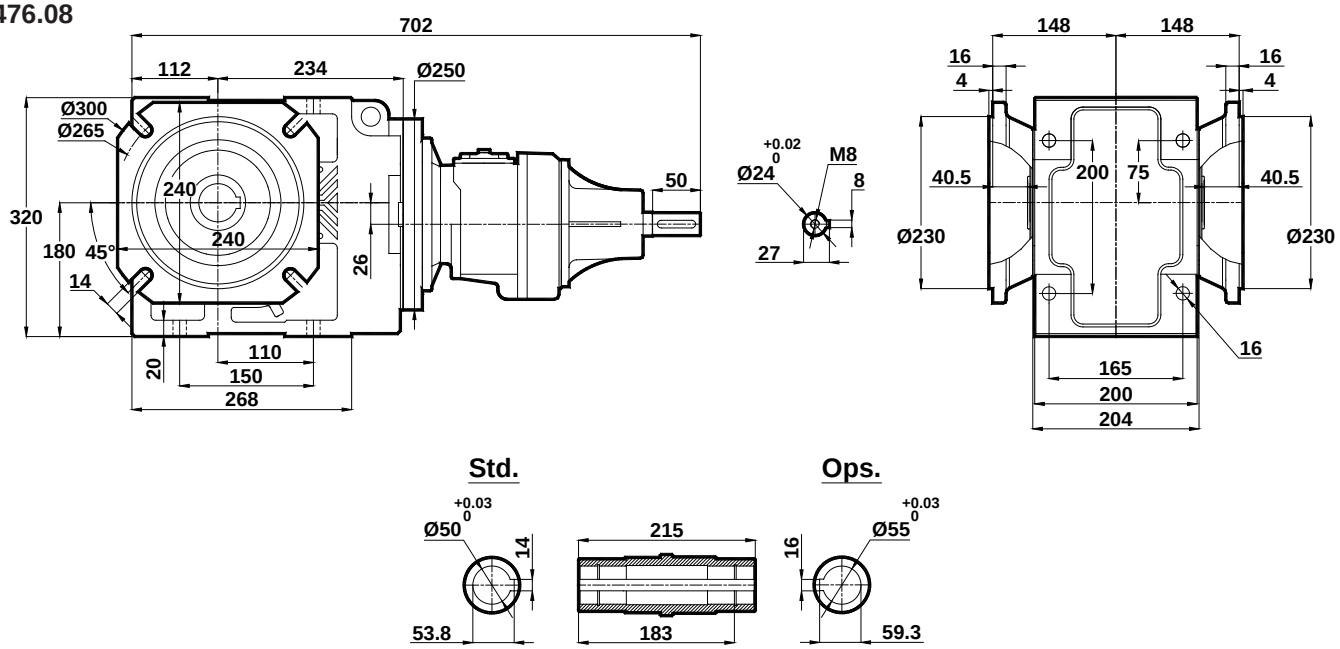


KT475.05
KT476.05



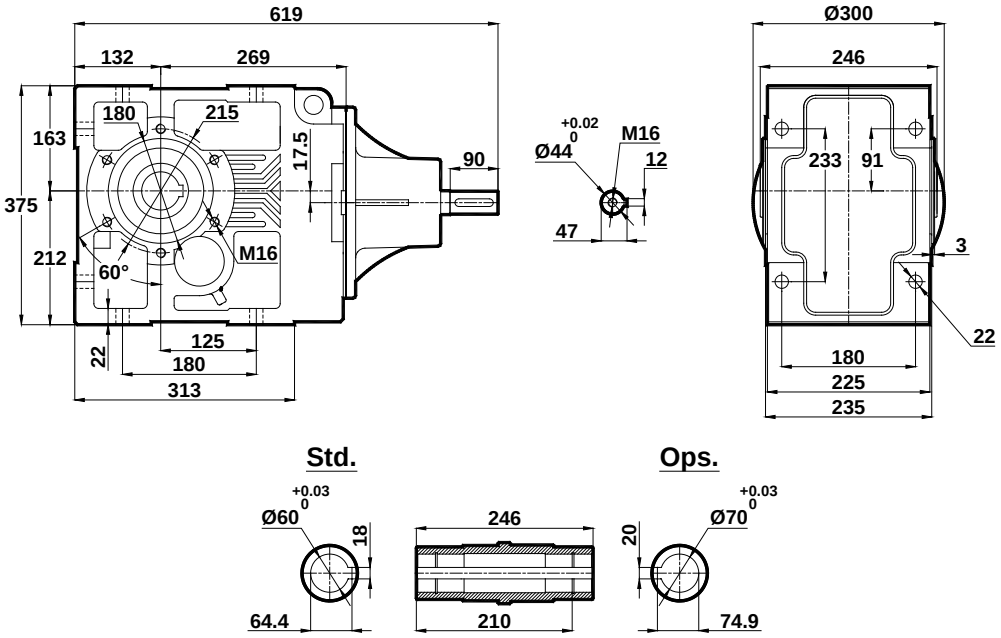
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT475.08
KT476.08

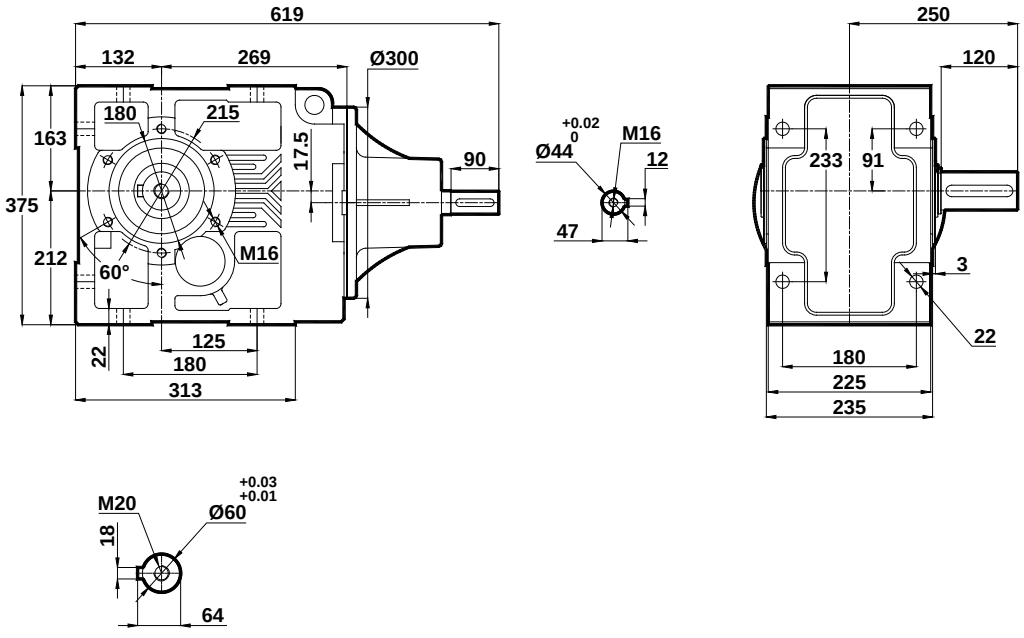


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT573.00

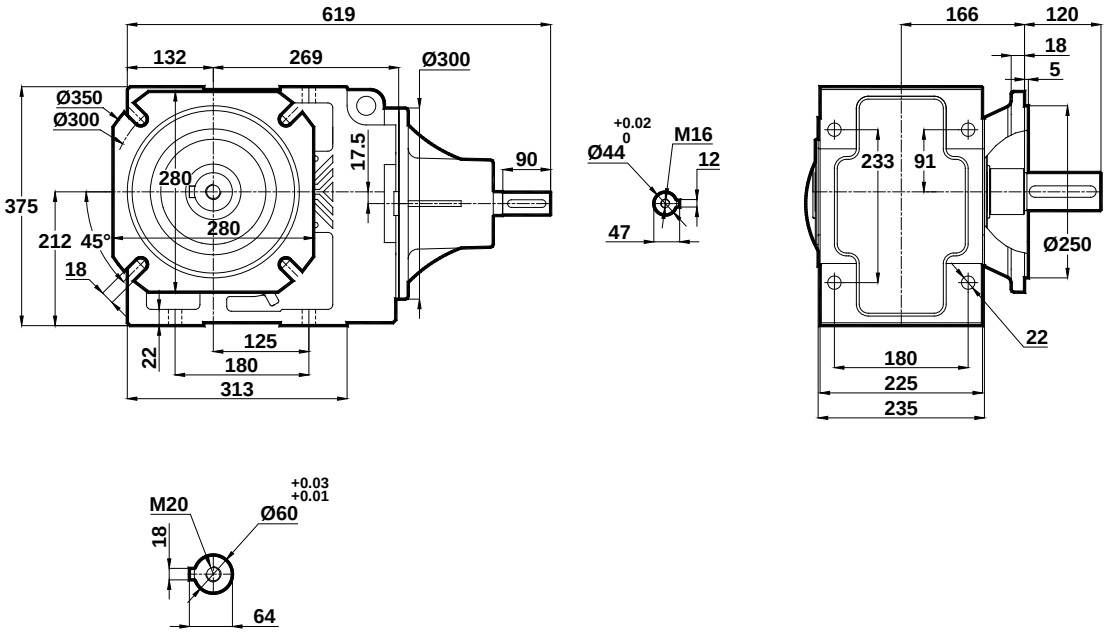


KT573.01

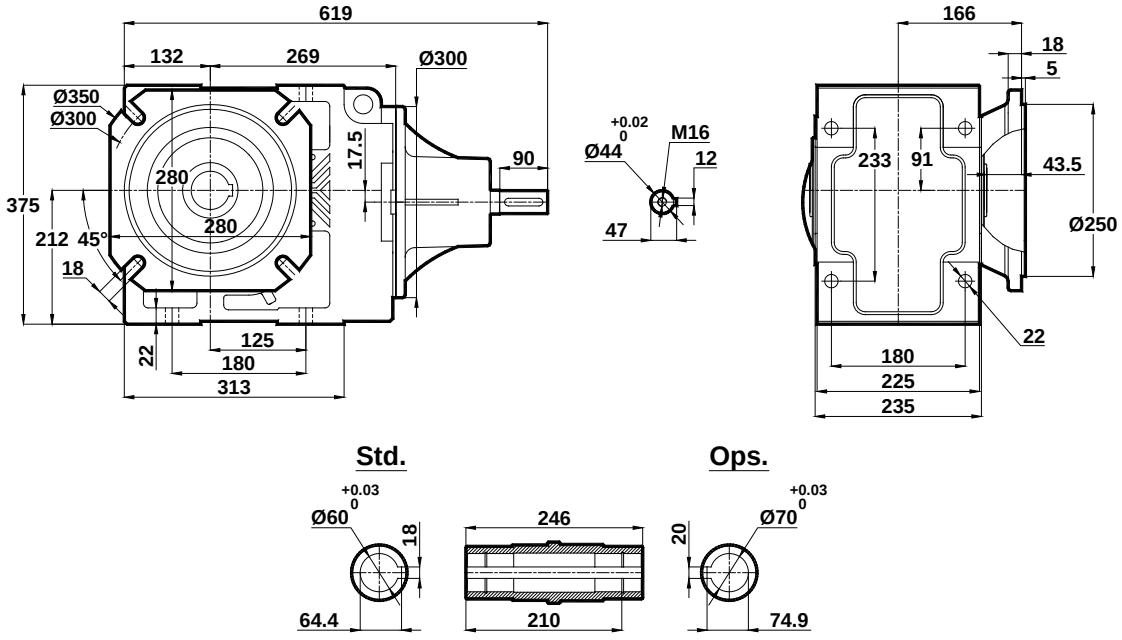


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT573.02

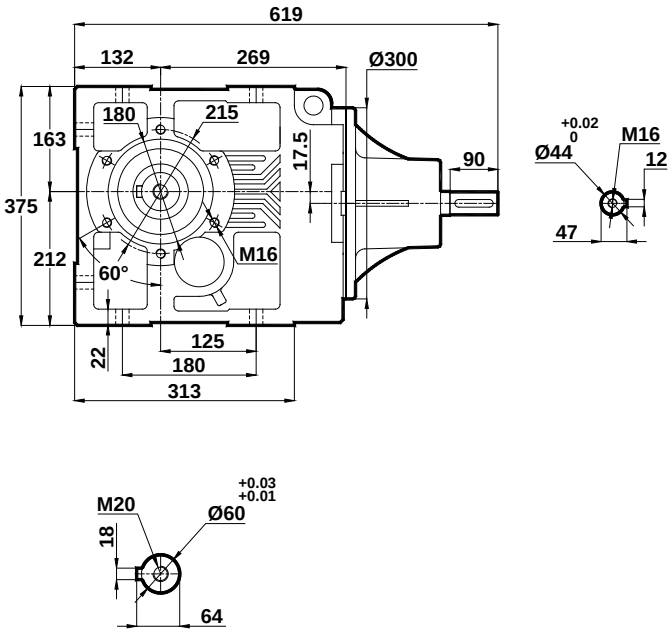


KT573.03

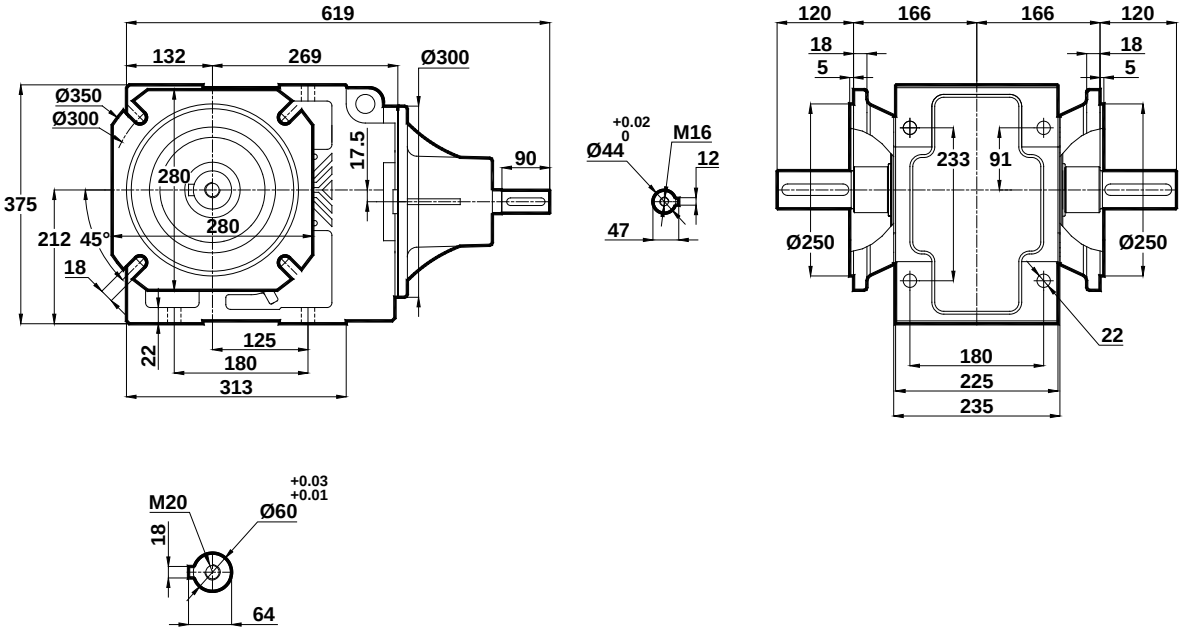


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT573.04

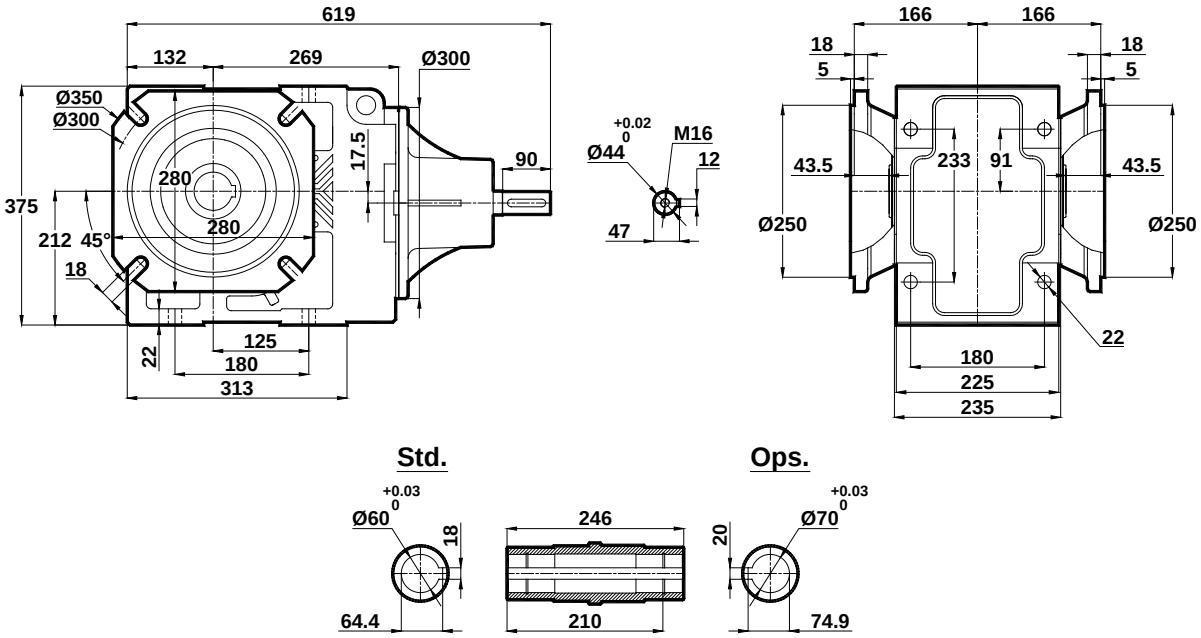


KT573.05



Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT573.08

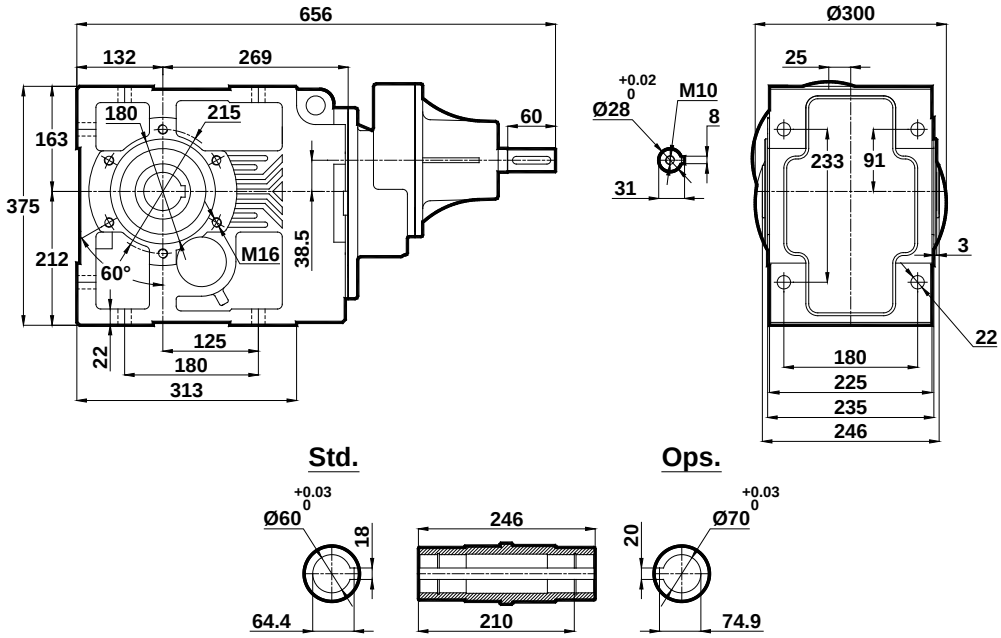


Std.

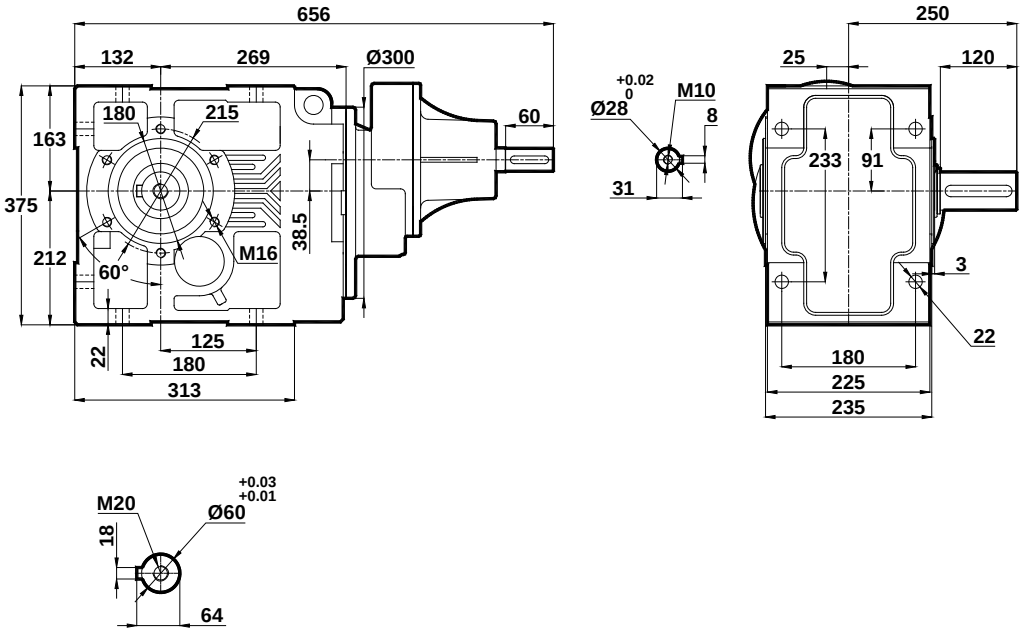
Ops.

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KT574.00

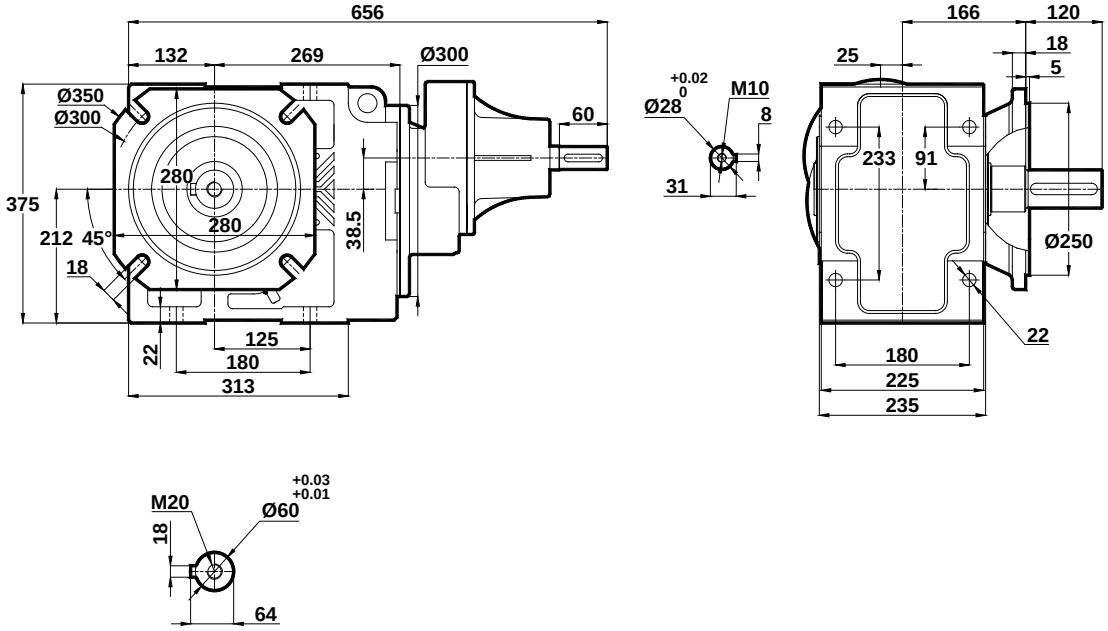


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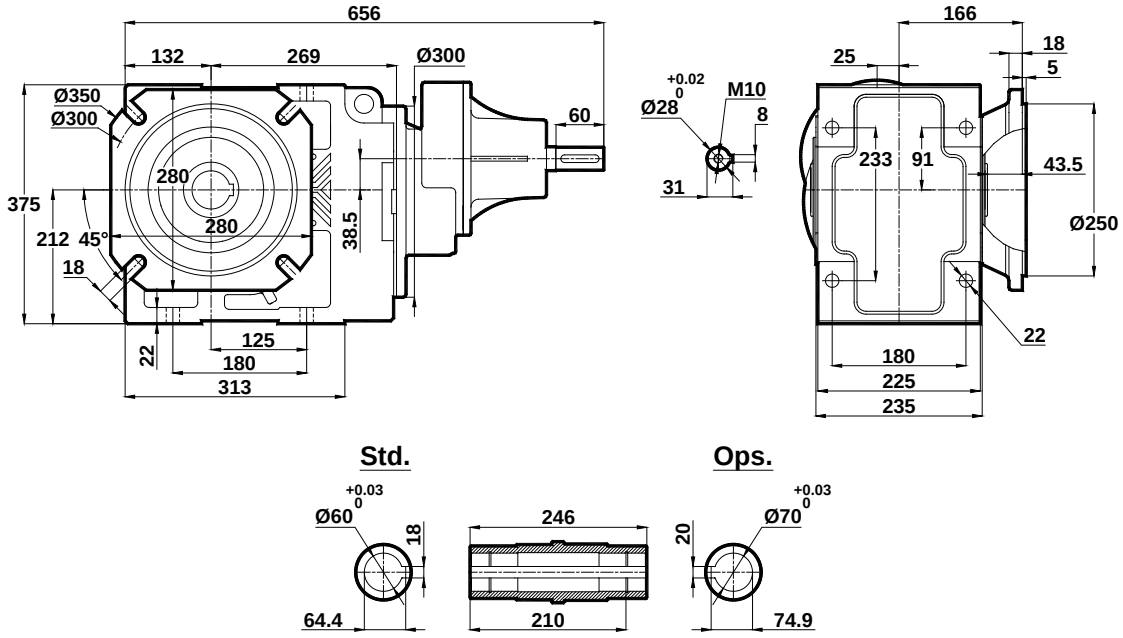


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KT574.02

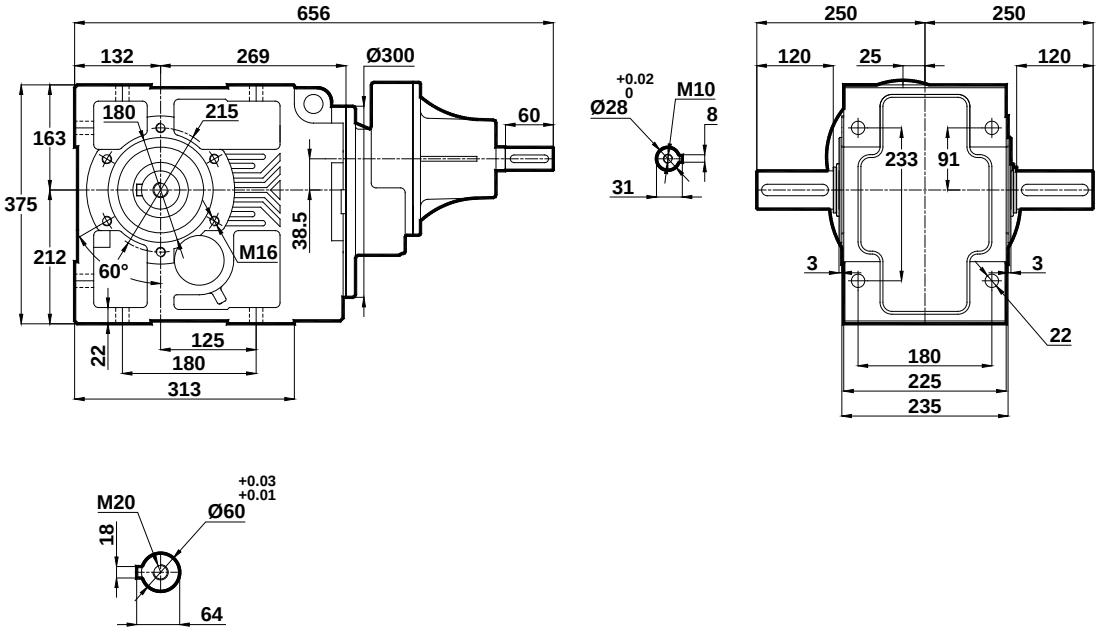


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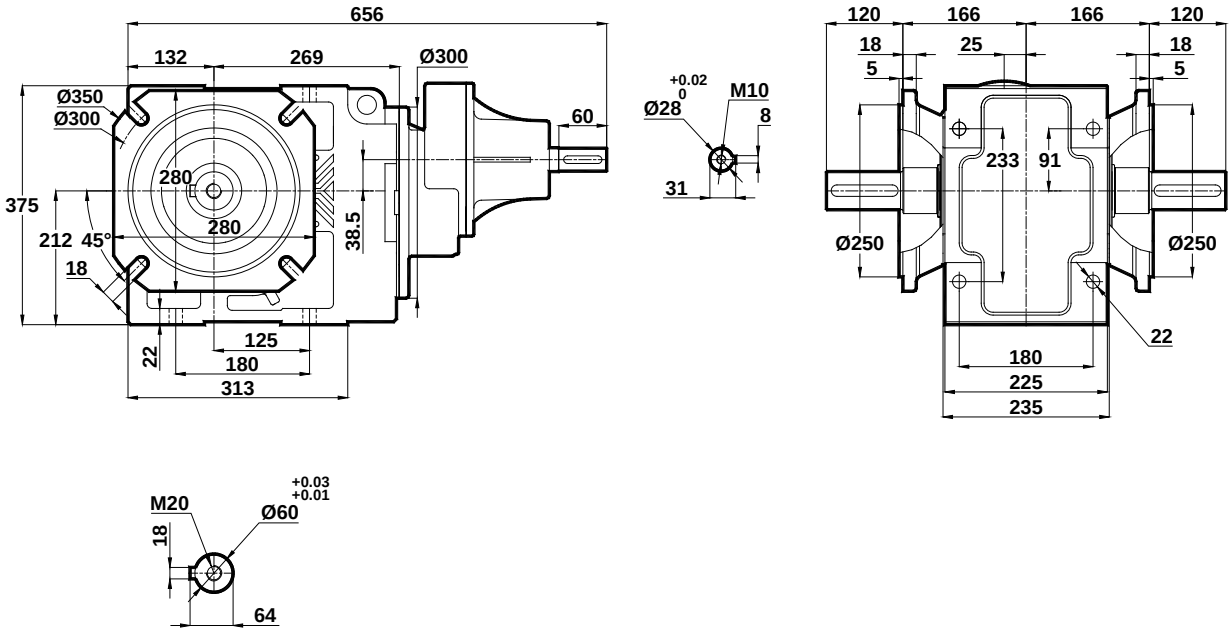


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT574.04

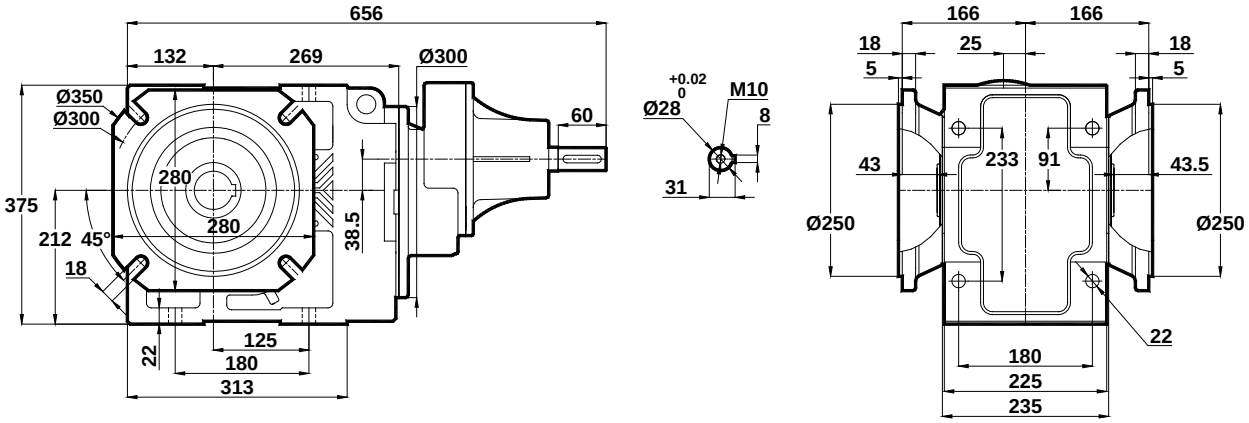


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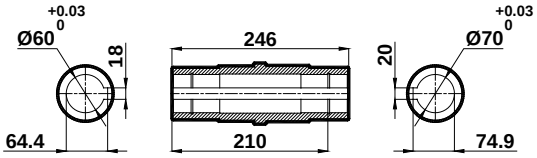


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT574.08

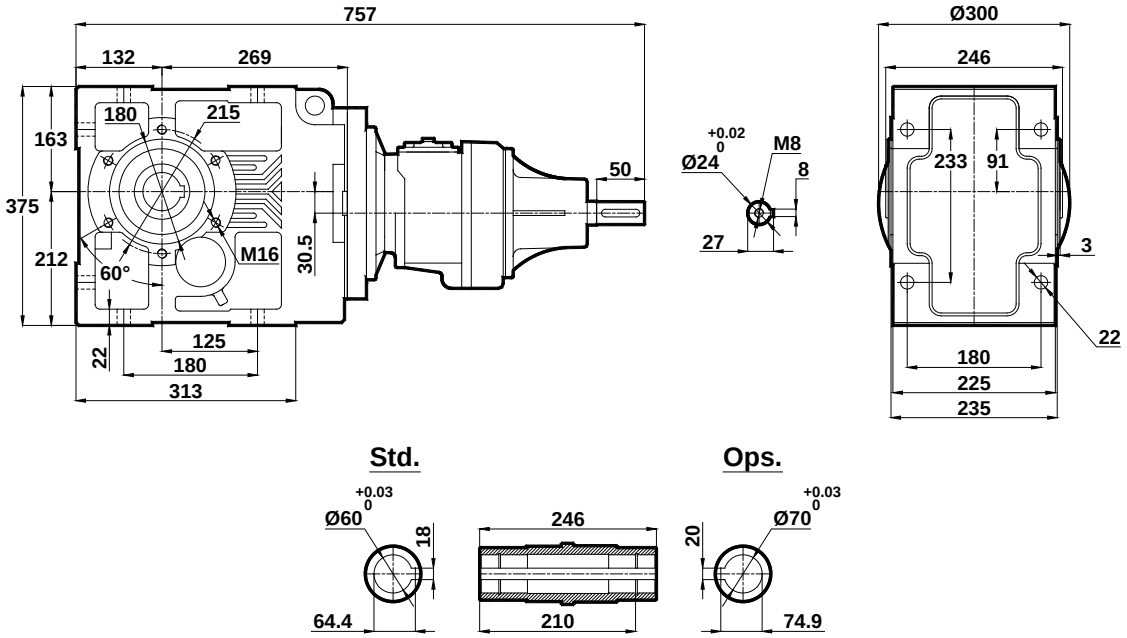


Std. **Ops.**

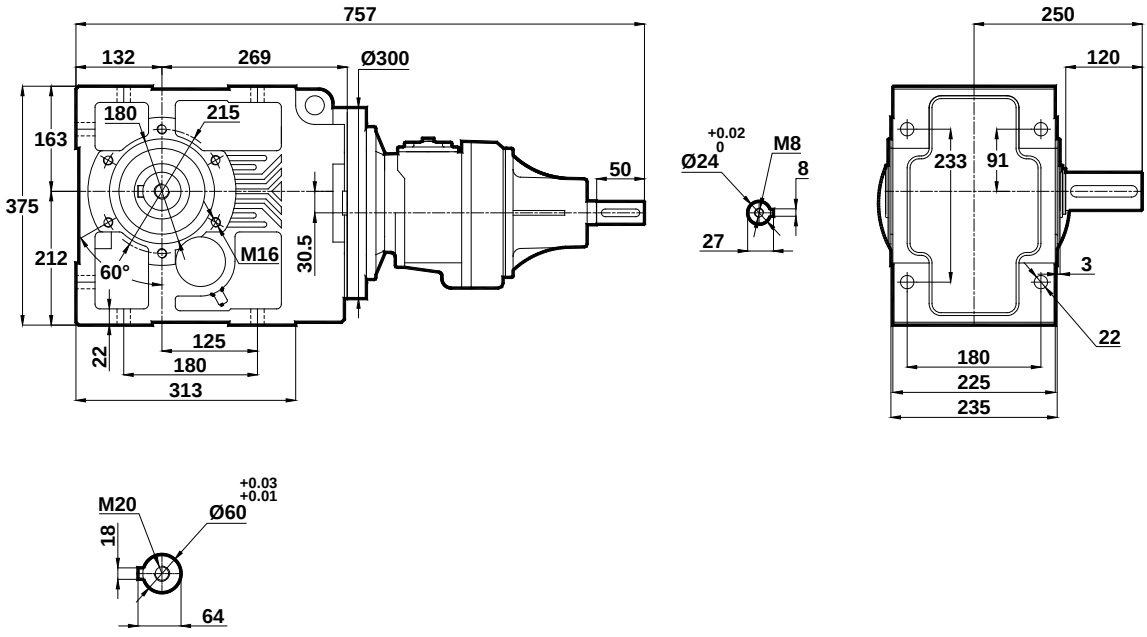


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT575.00
KT576.00

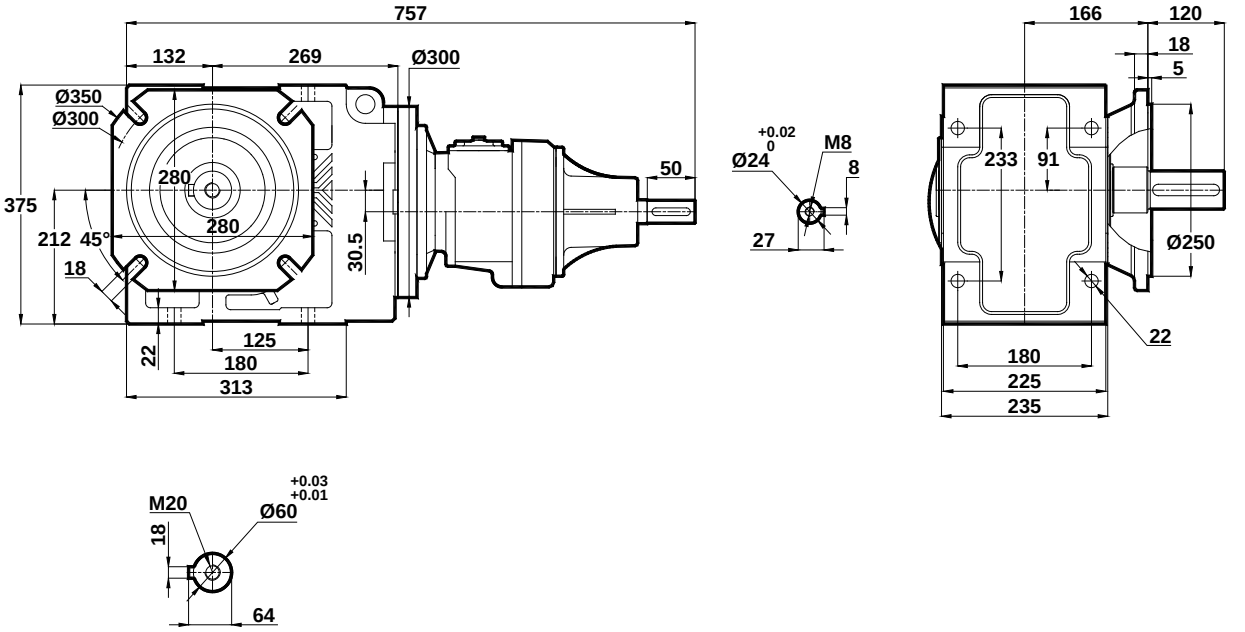


KT575.01
KT576.01

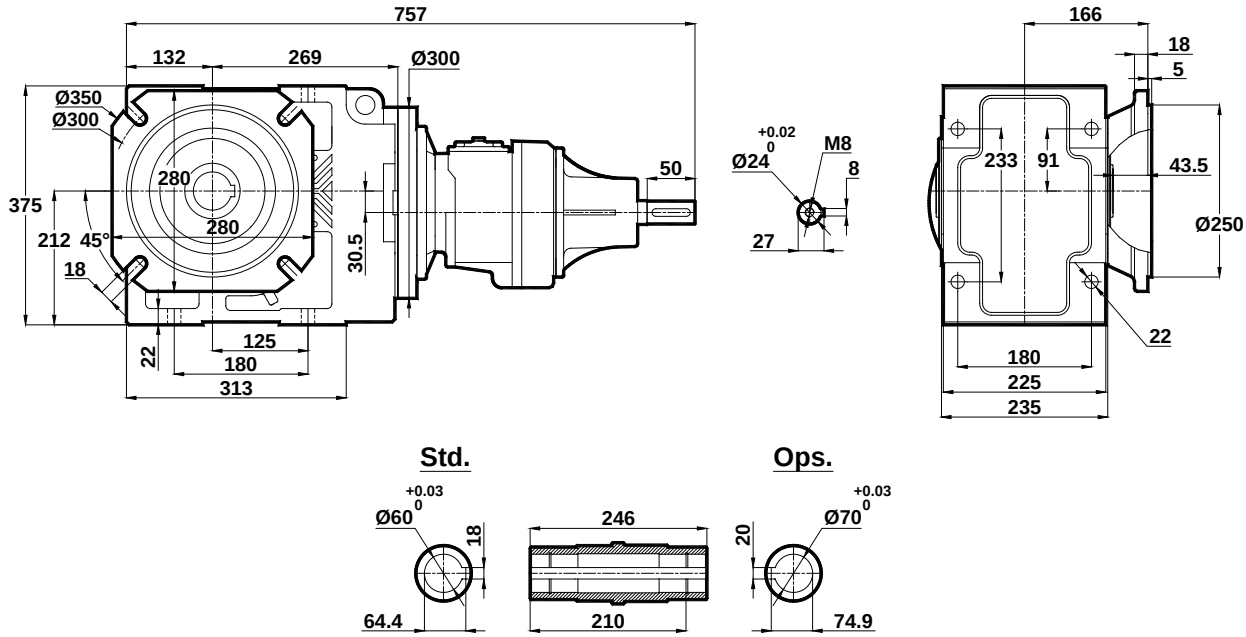


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT575.02
KT576.02

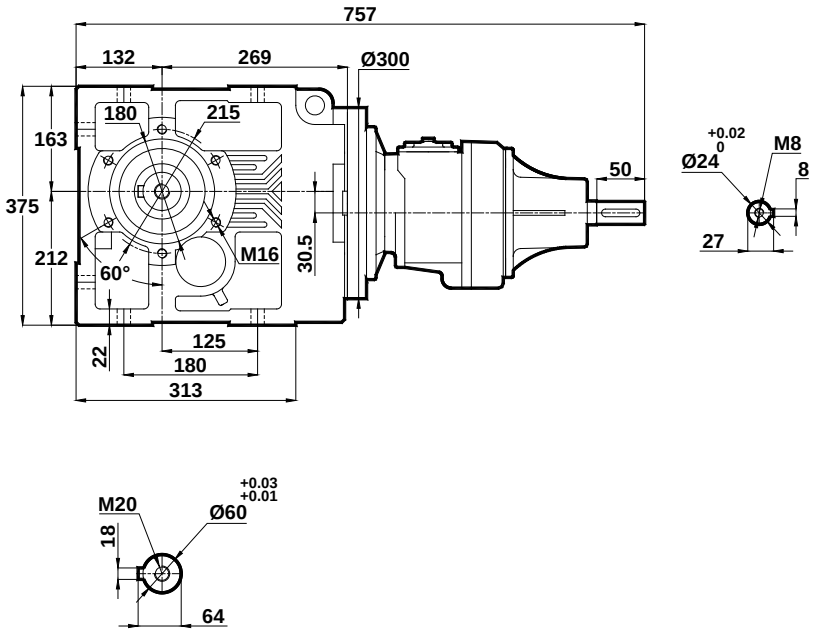


KT575.03
KT576.03

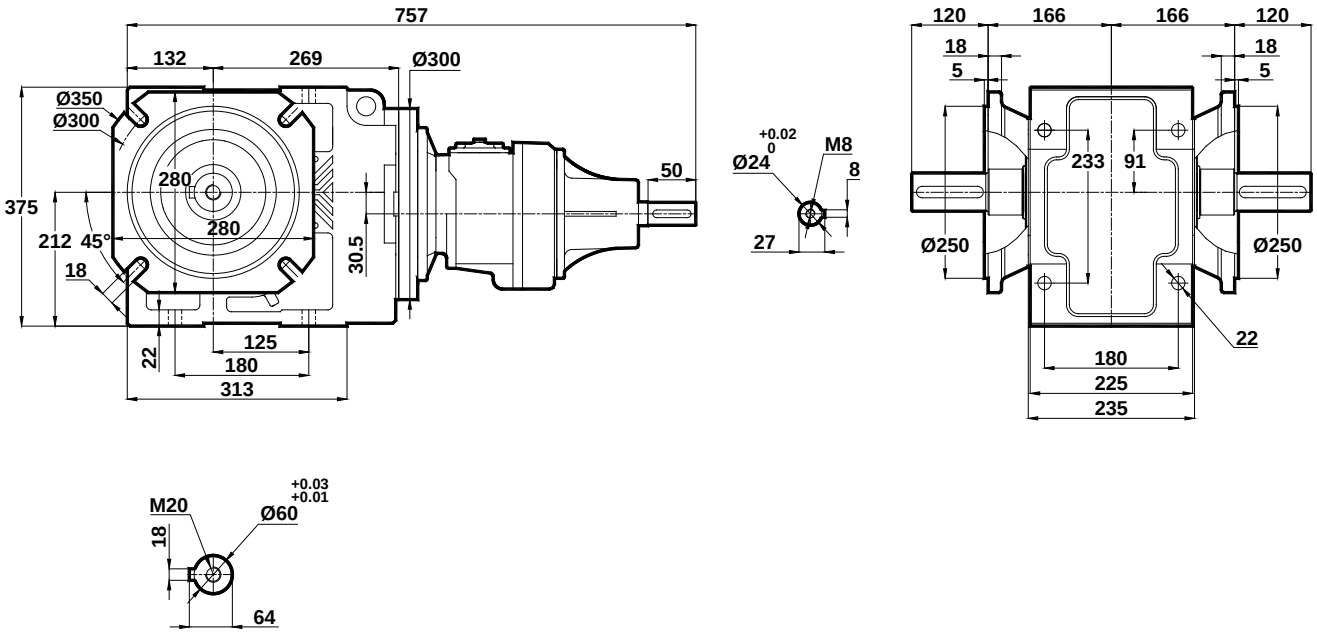


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT575.04
KT576.04

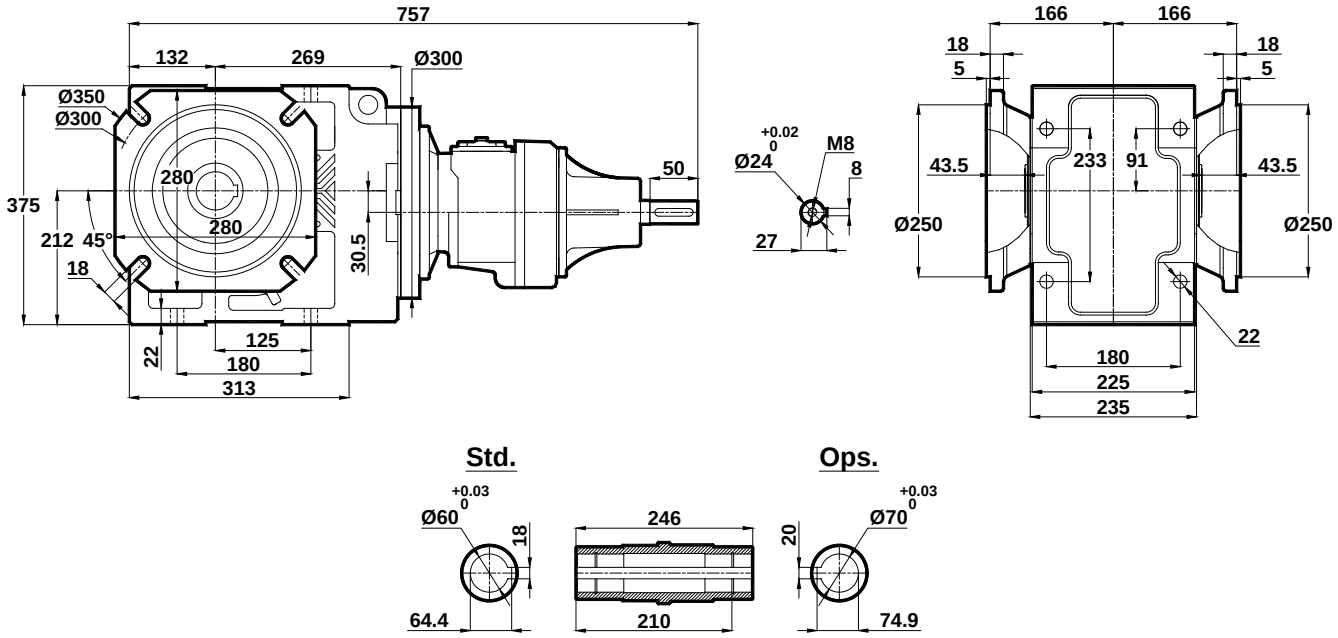


KT575.05
KT576.05



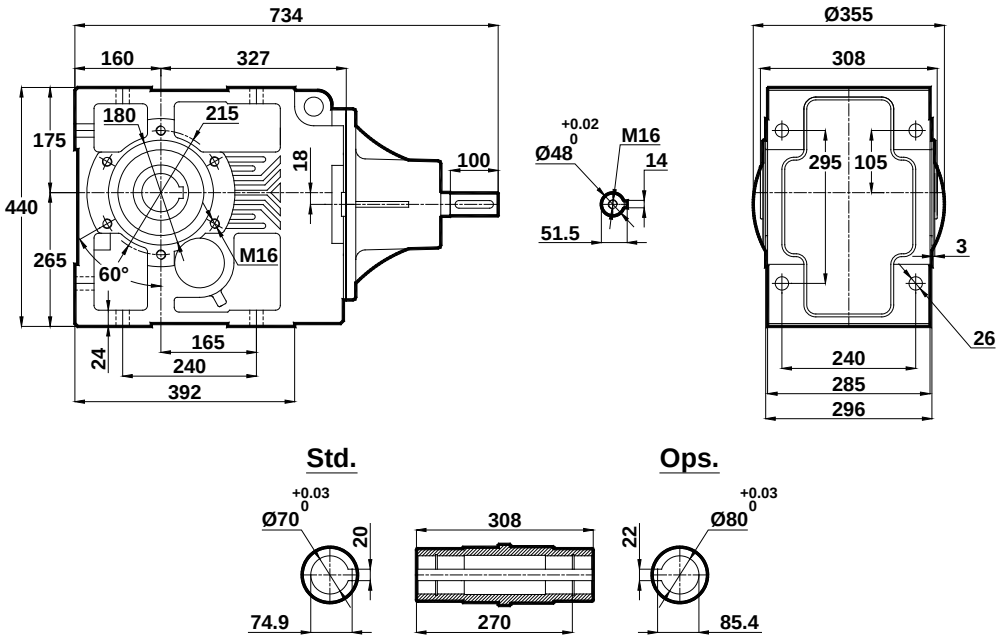
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT575.08
KT576.08

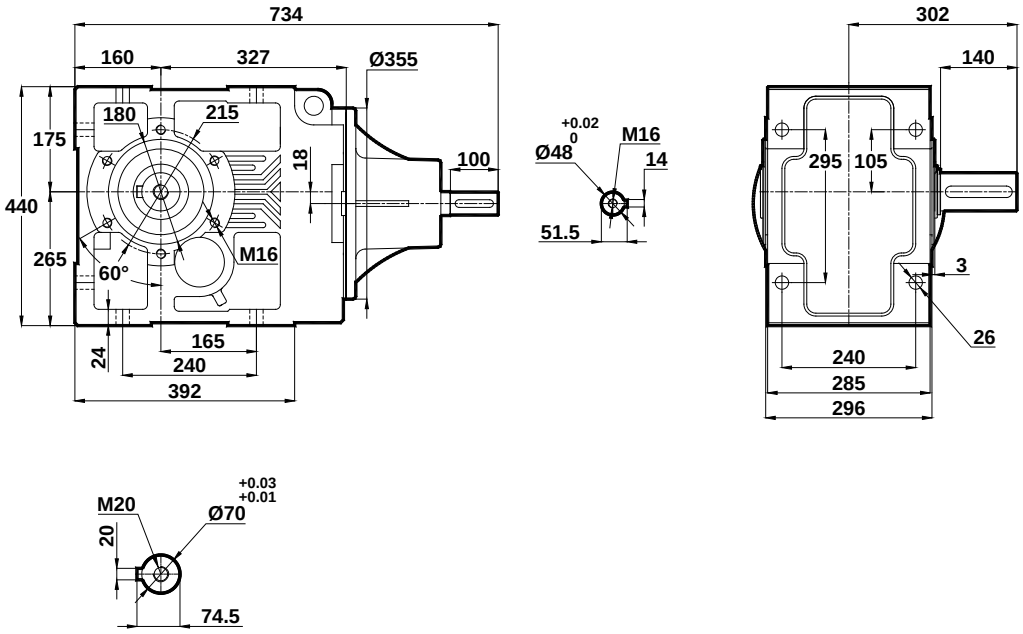


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT673.00

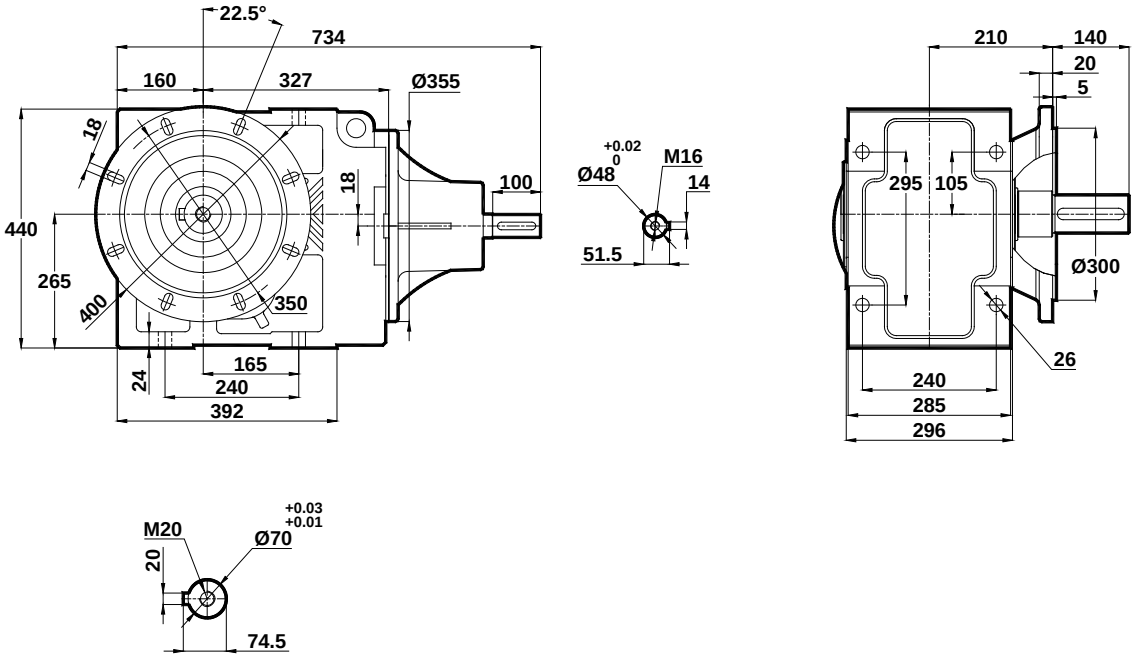


KT673.01

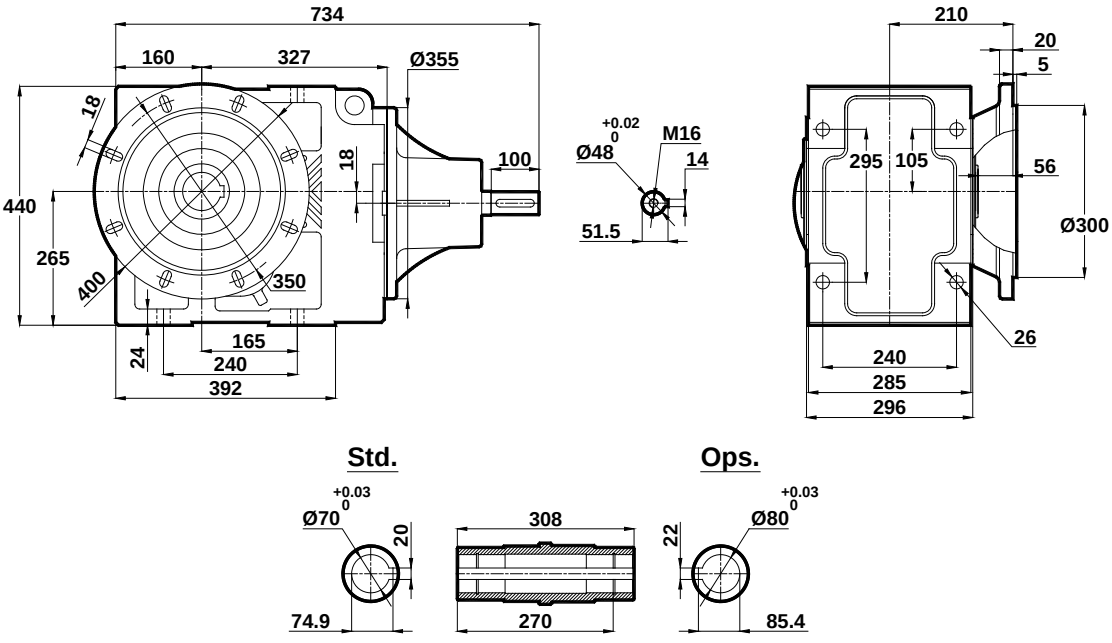


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT673.02

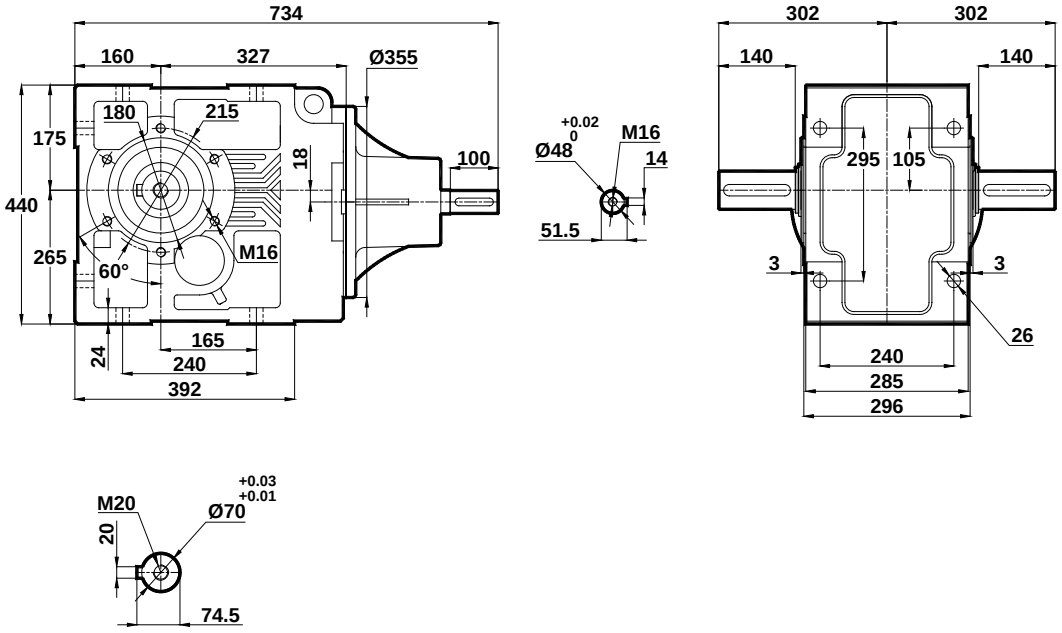


KT673.03

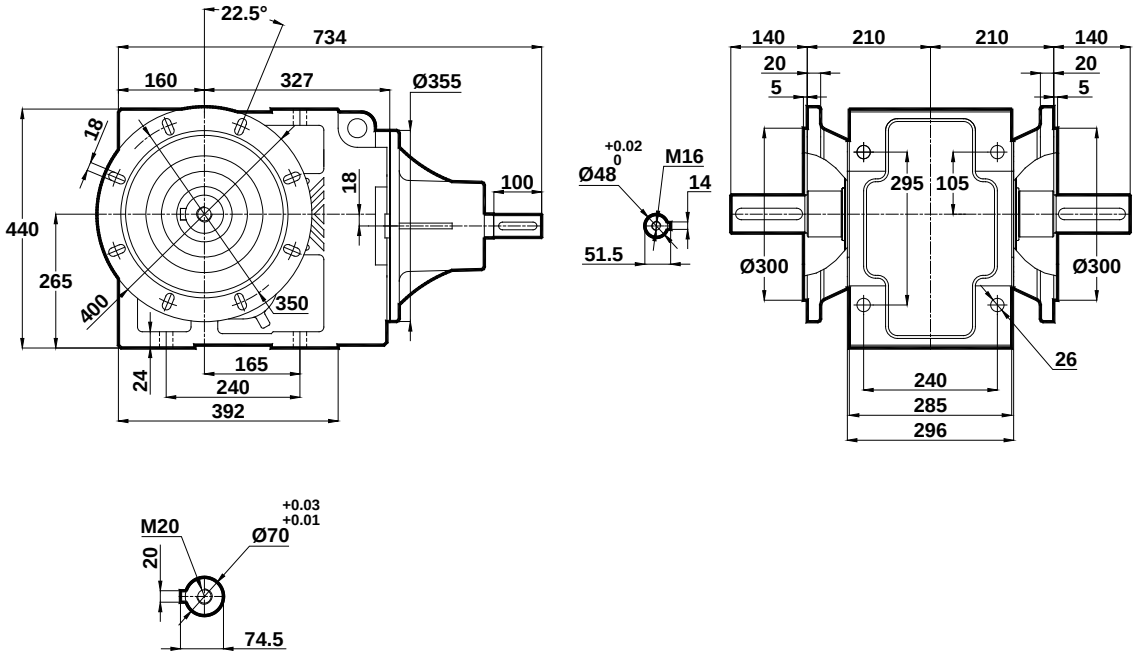


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT673.04

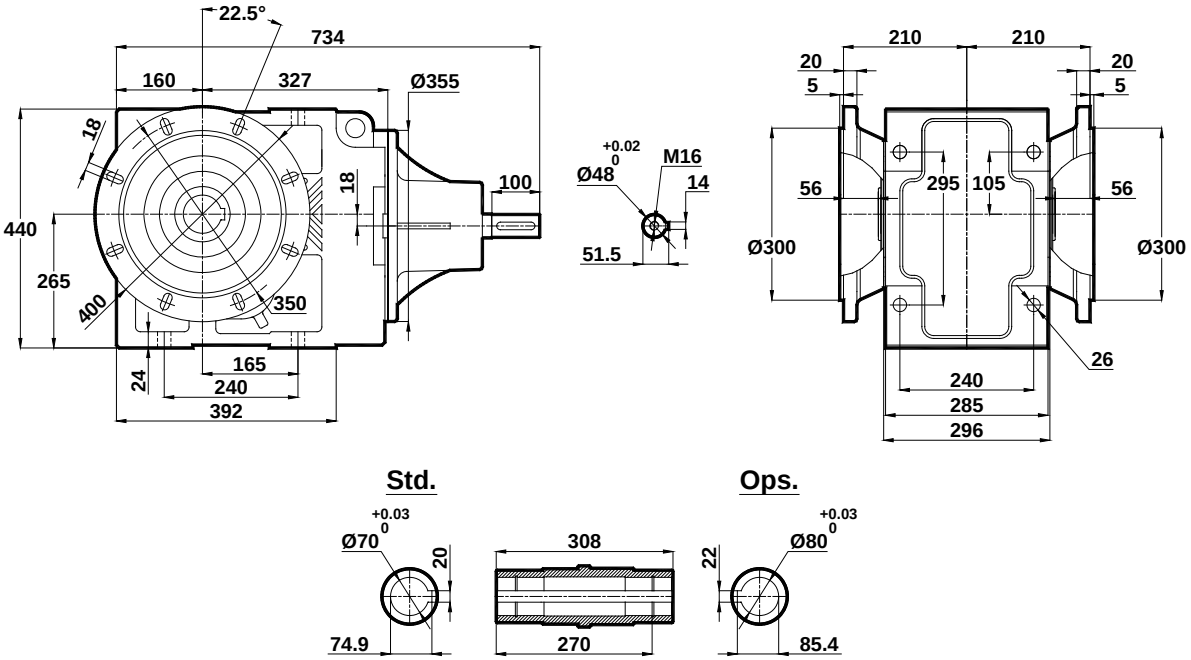


KT673.05



Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

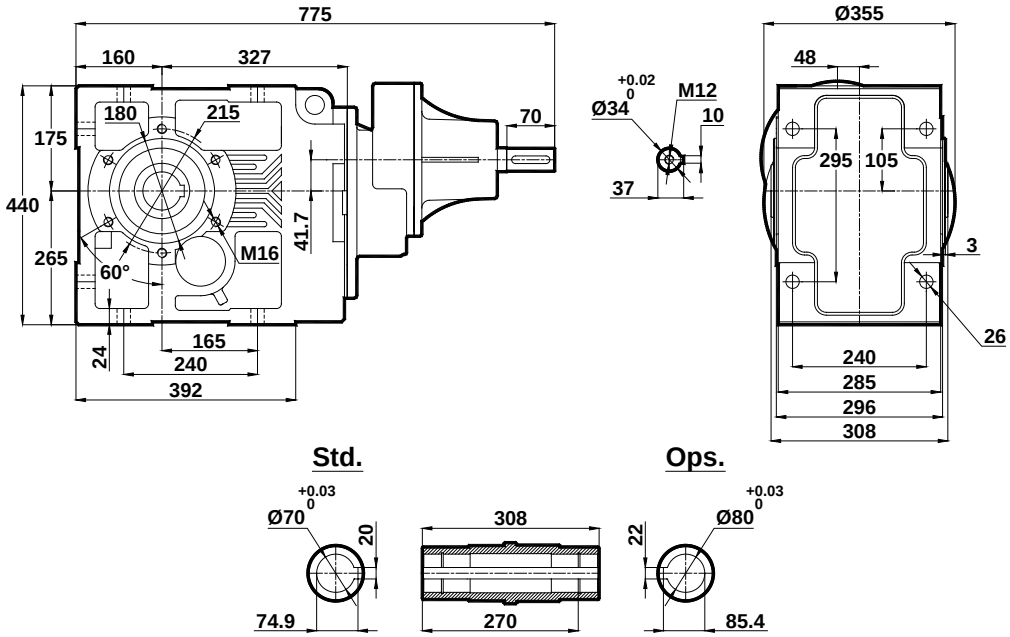
KT673.08



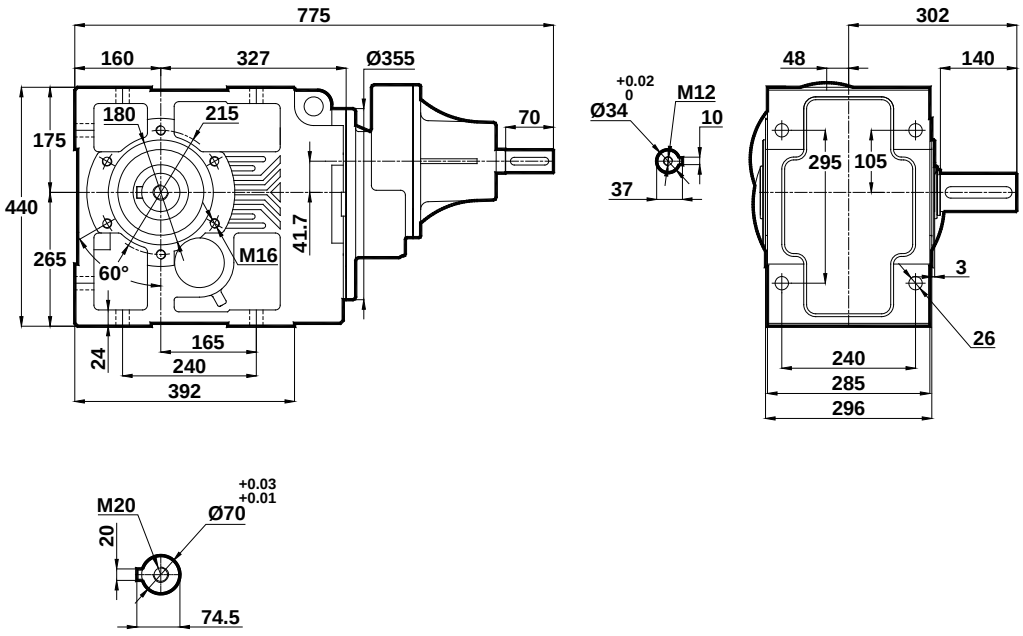
Std. **Ops.**

Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT674.00

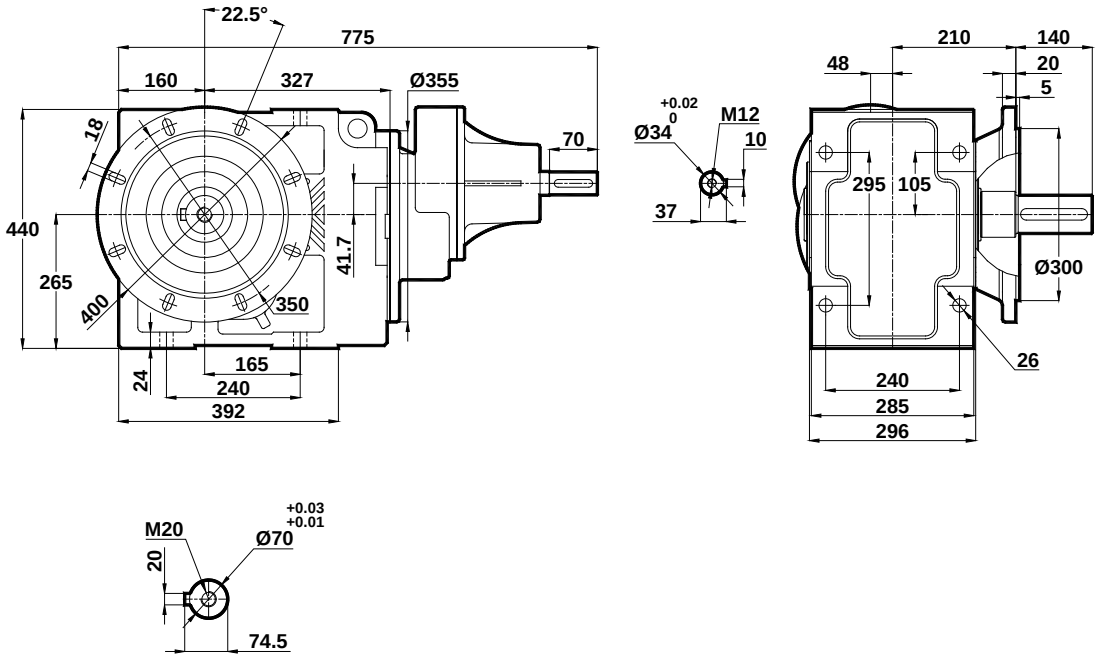


KT674.01

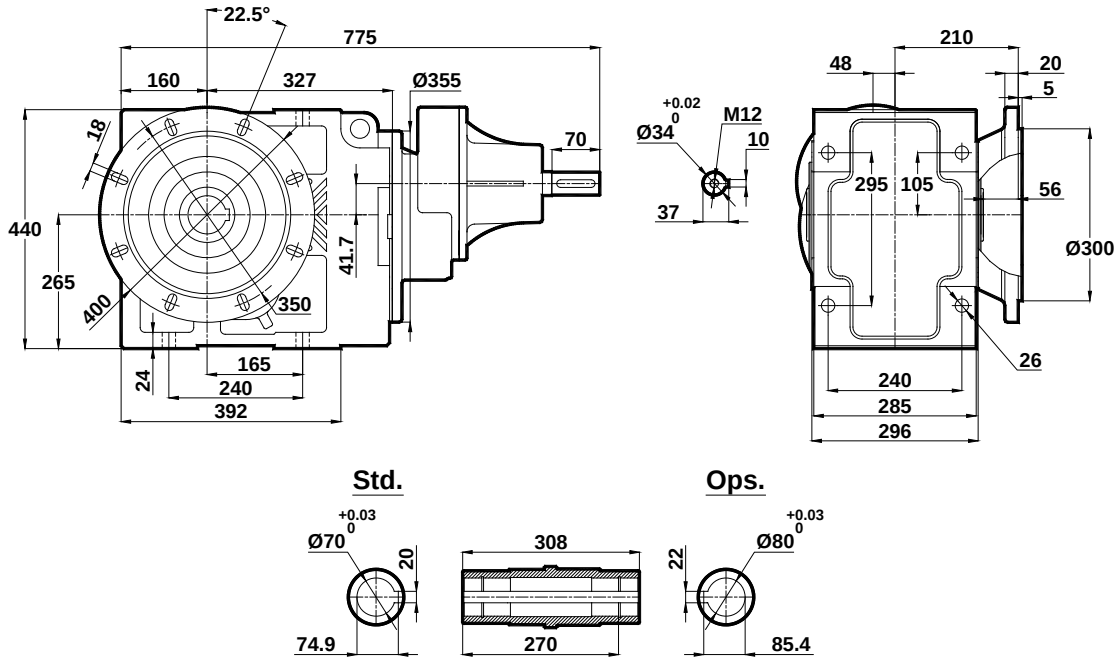


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT674.02

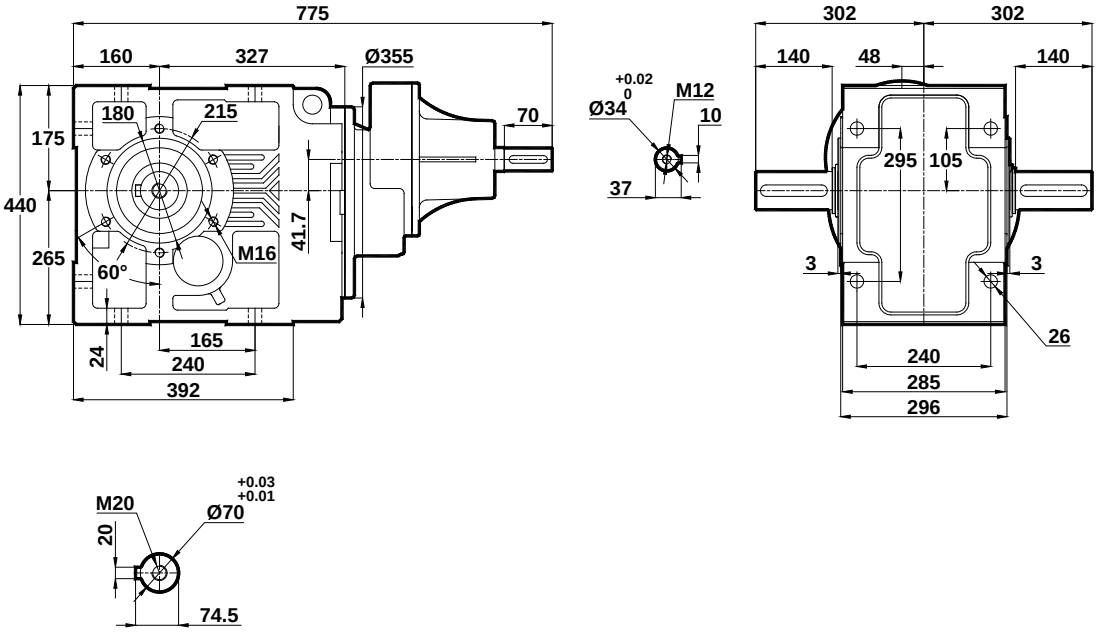


KT674.03

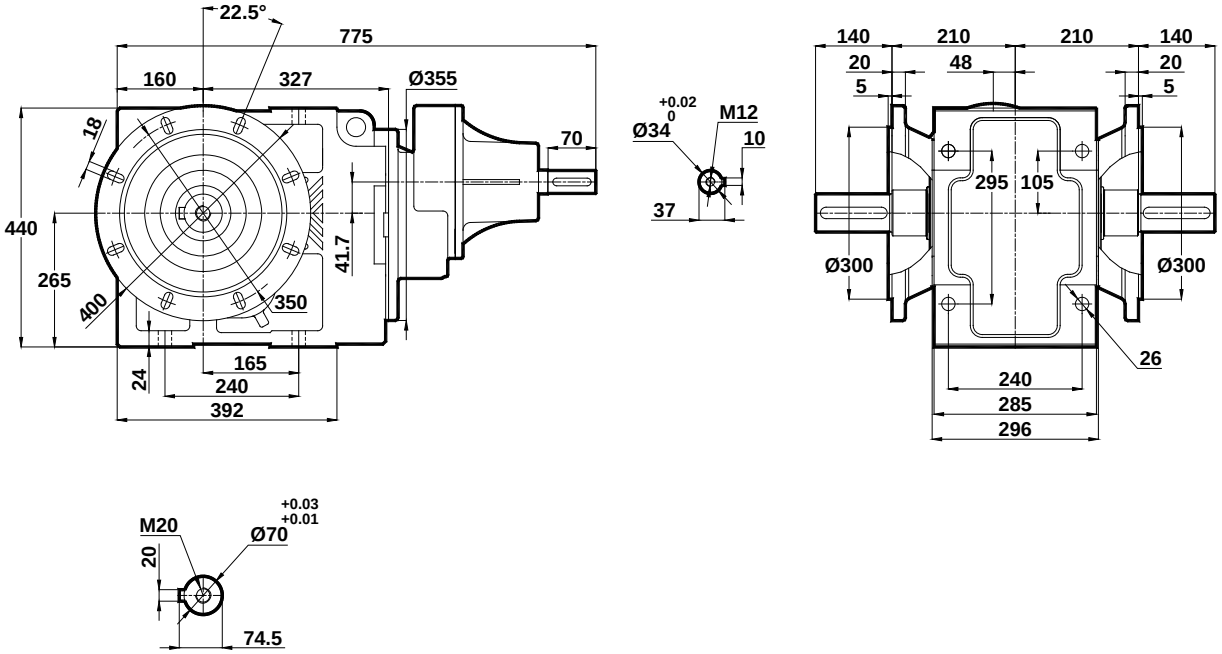


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT674.04

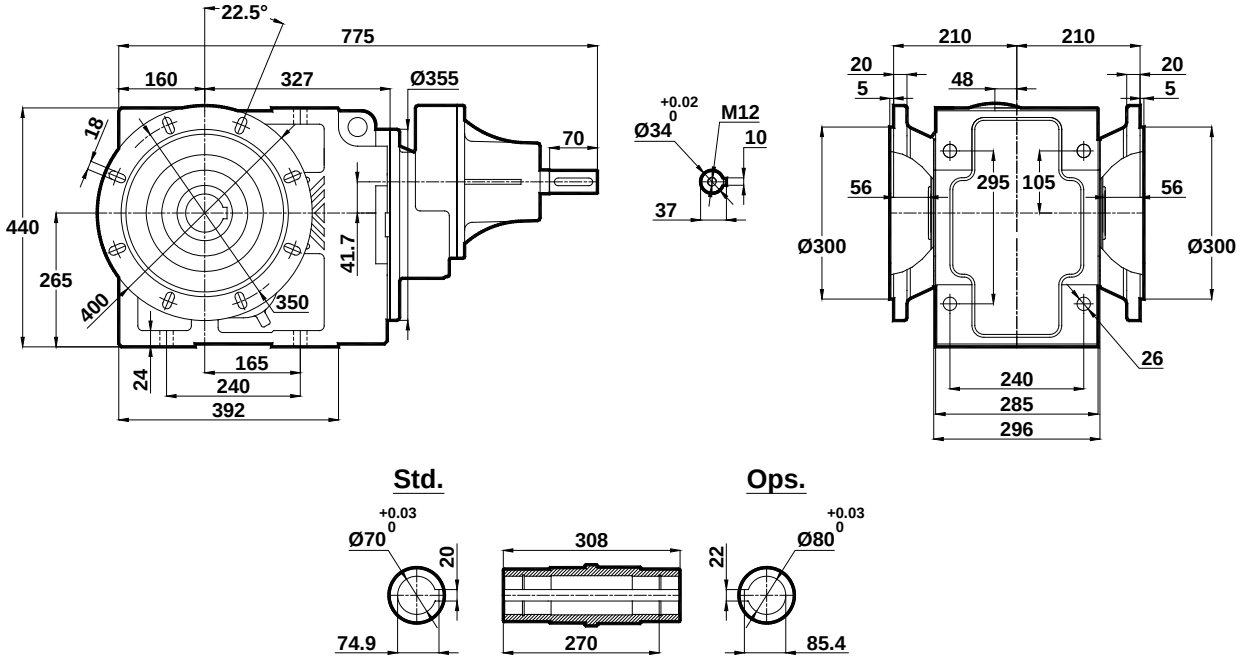


KT674.05



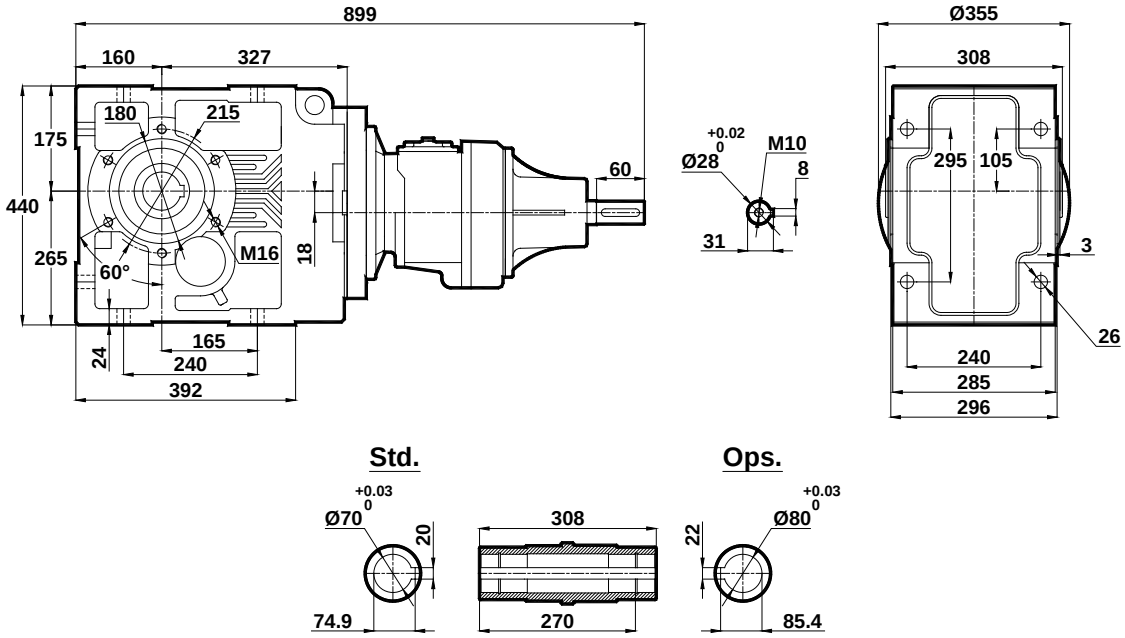
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT674.08

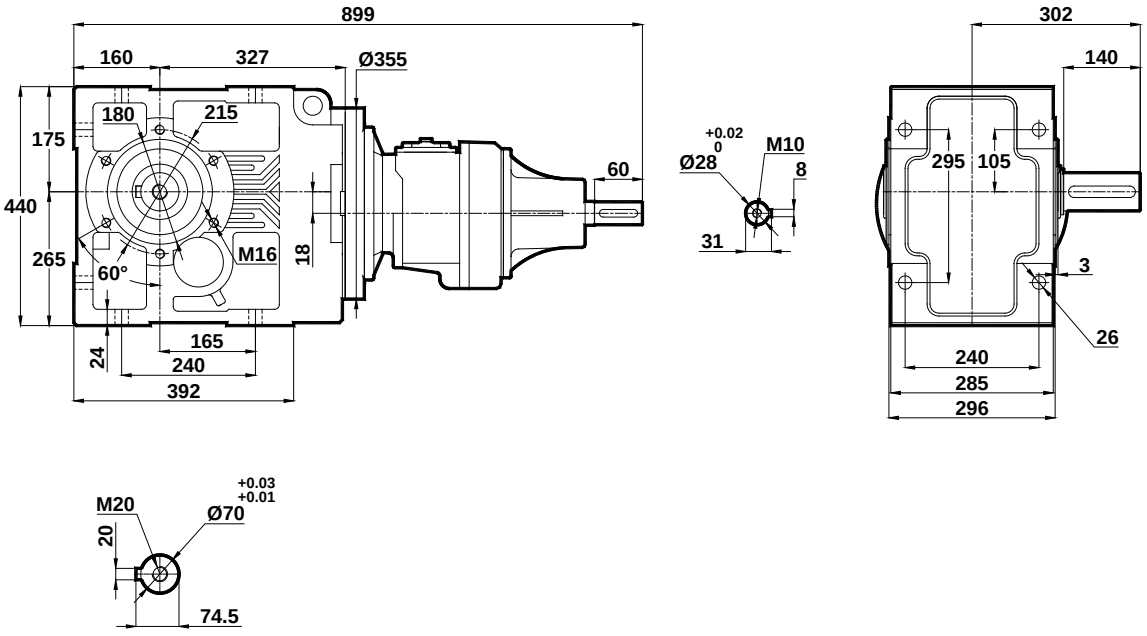


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT675.00
KT676.00

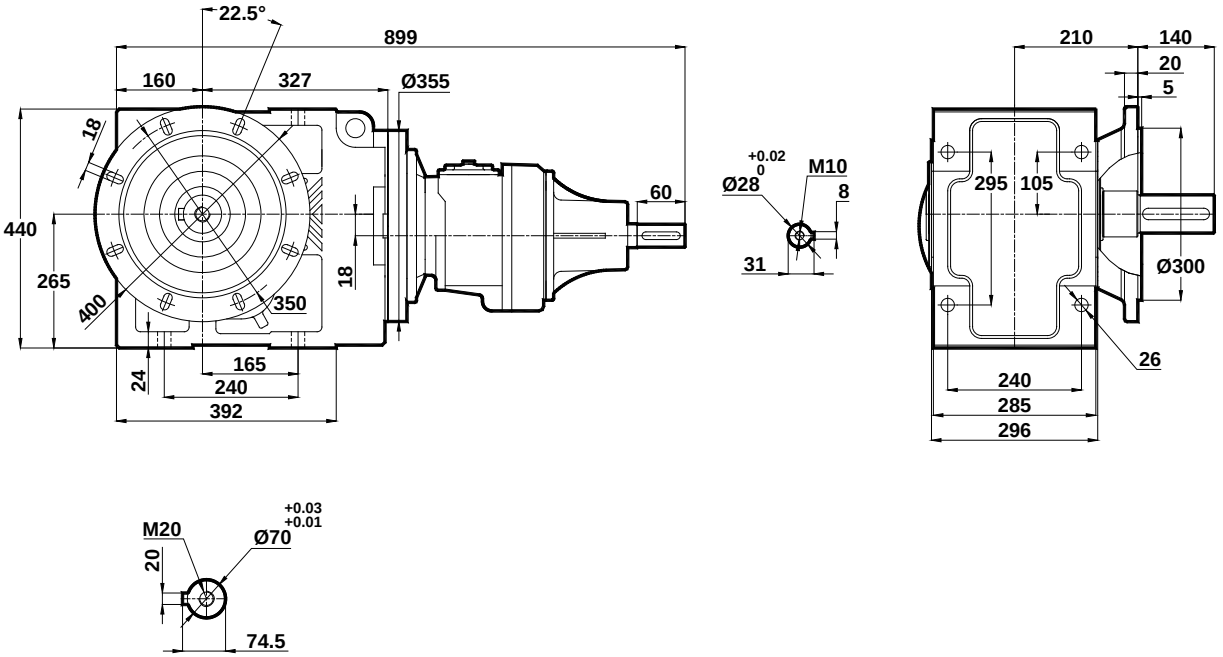


KT675.01
KT676.01

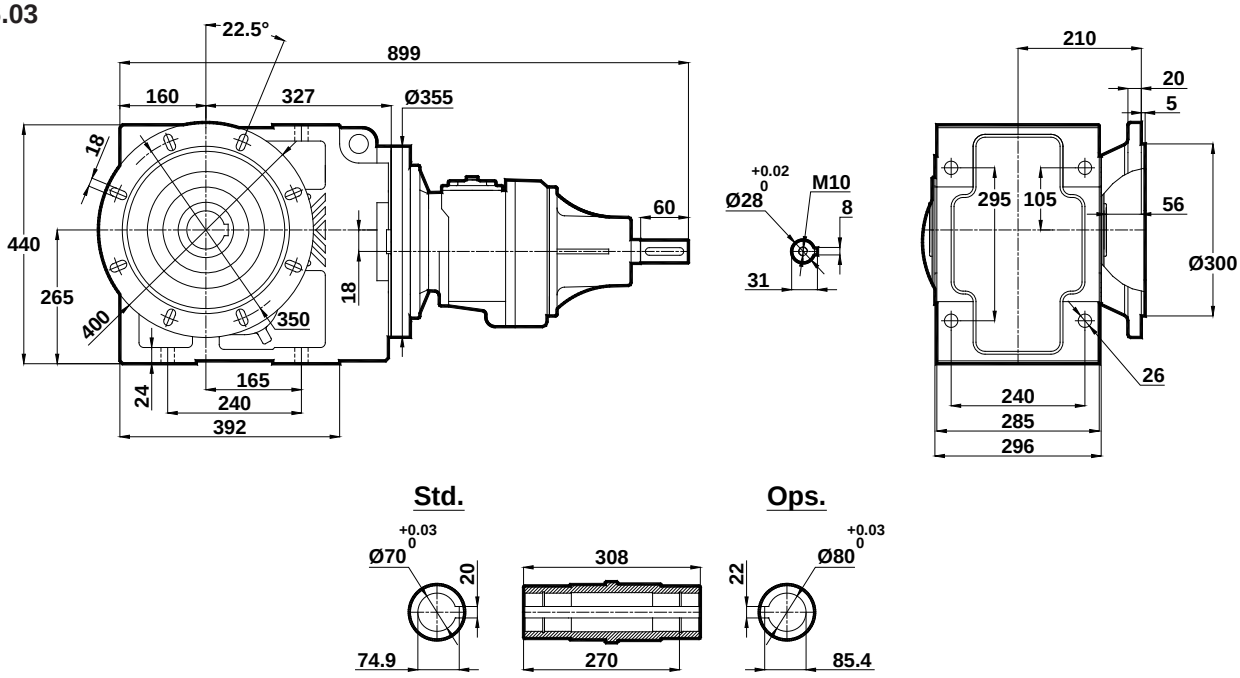


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT675.02
KT676.02

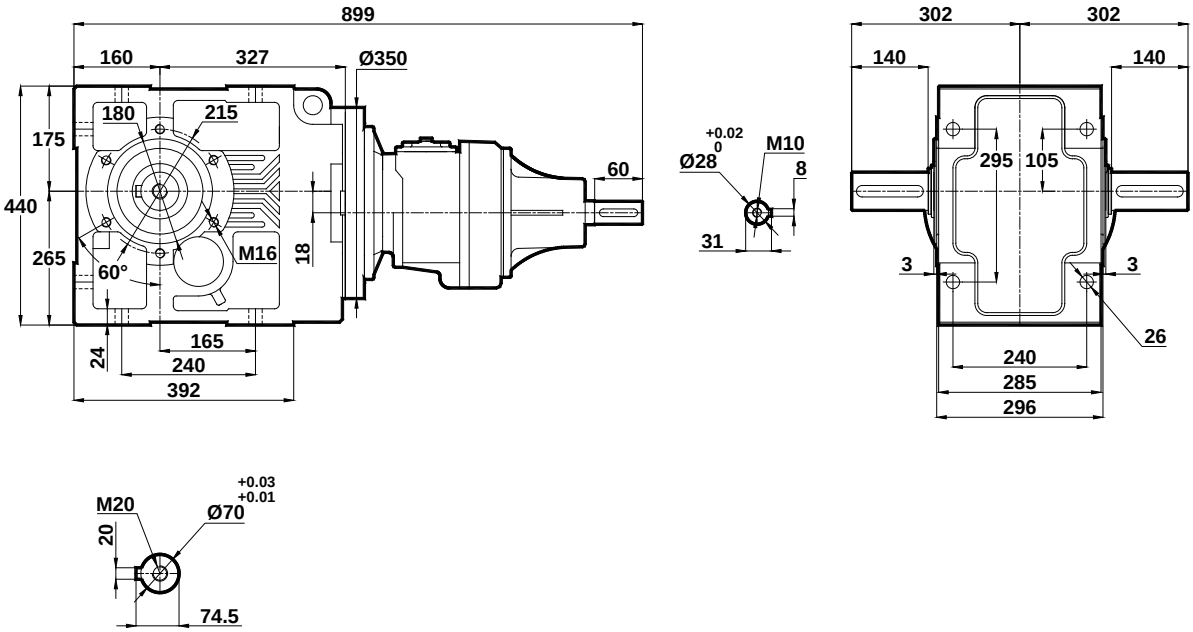


KT675.03
KT676.03

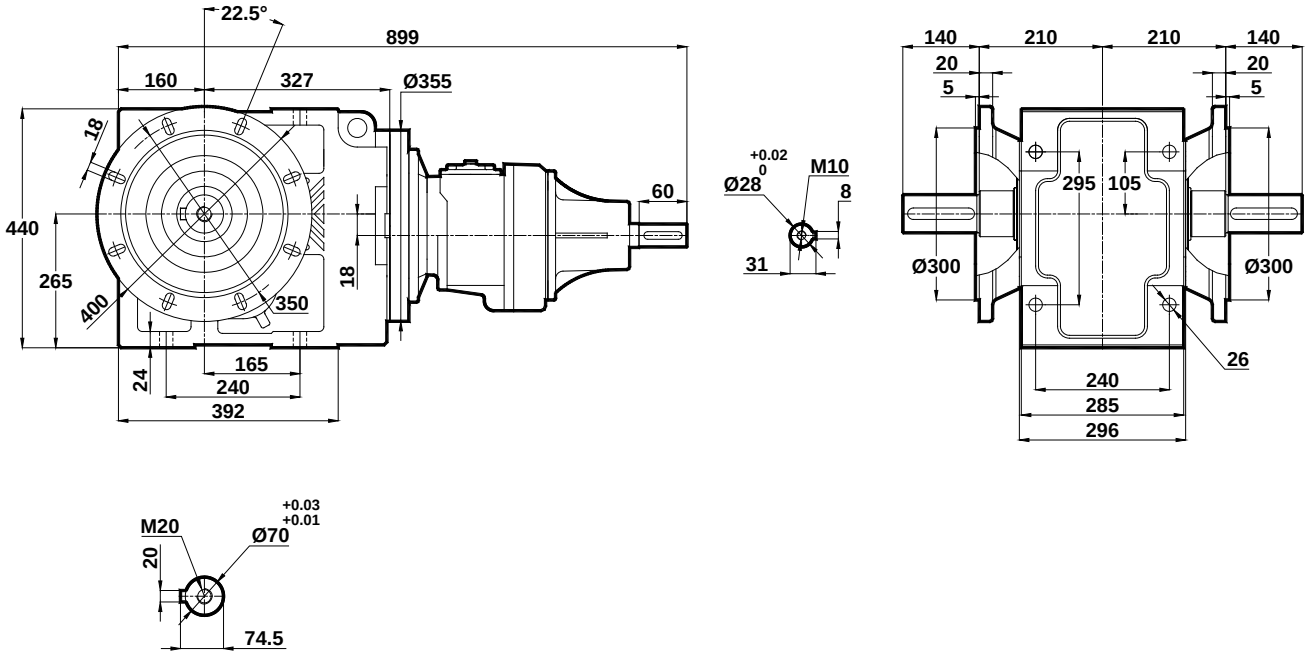


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT675.04
KT676.04

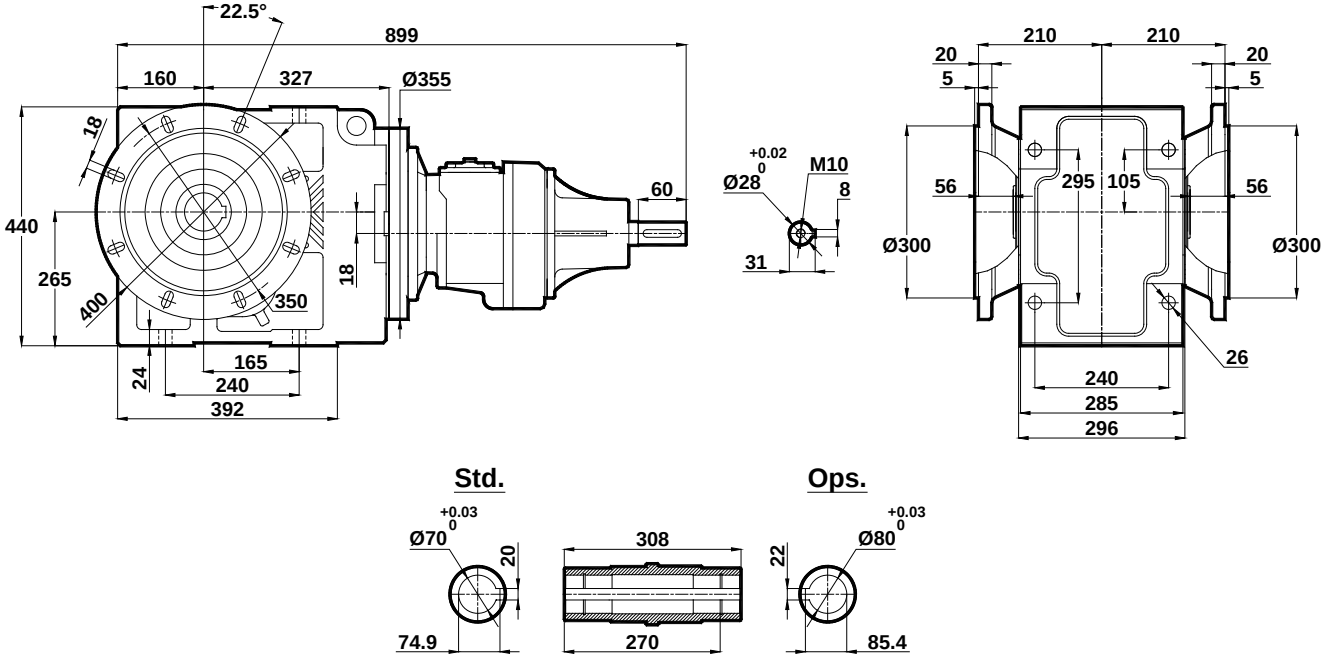


KT675.05
KT676.05



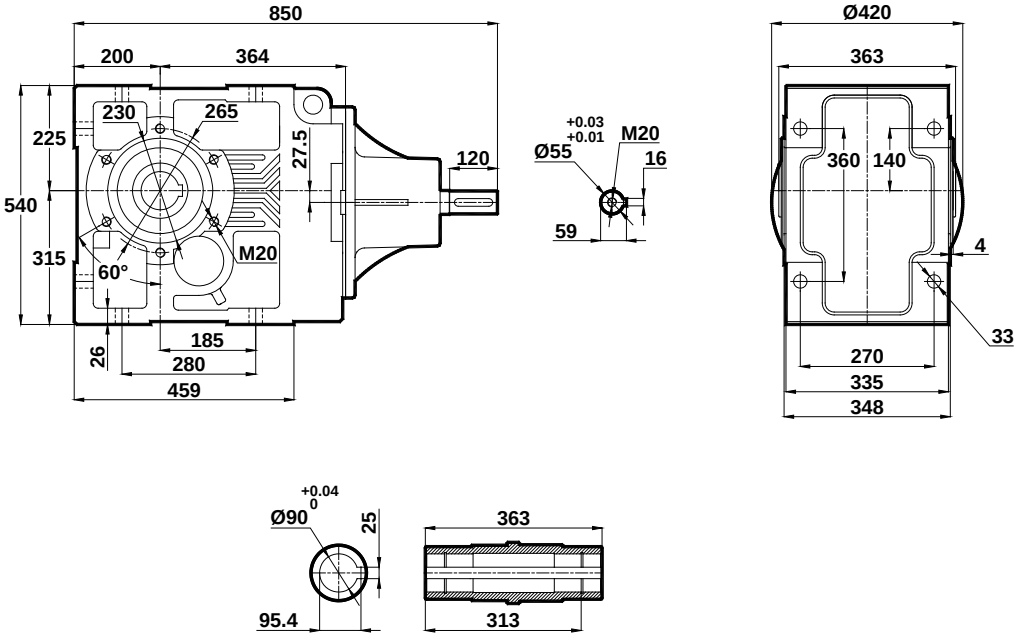
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT675.08
KT676.08

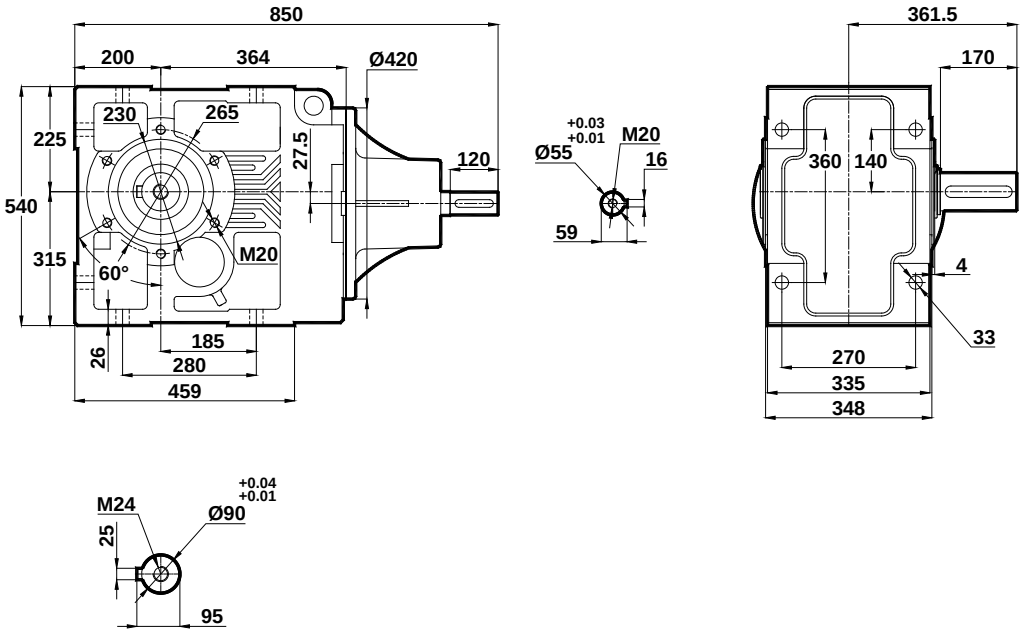


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT773.00

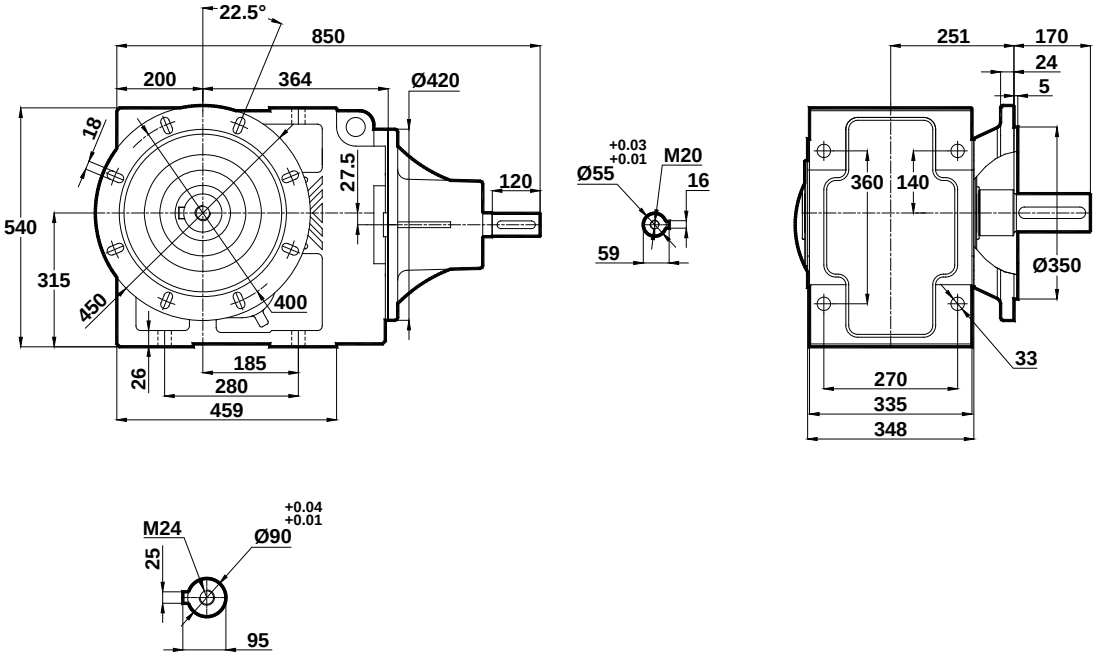


KT773.01

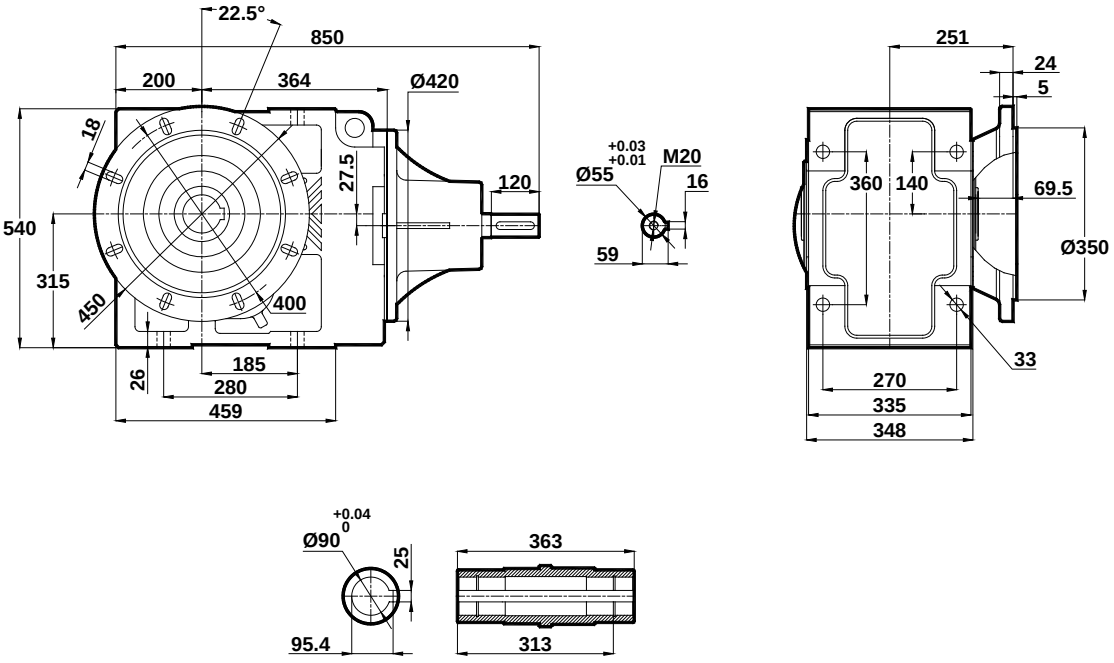


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT773.02

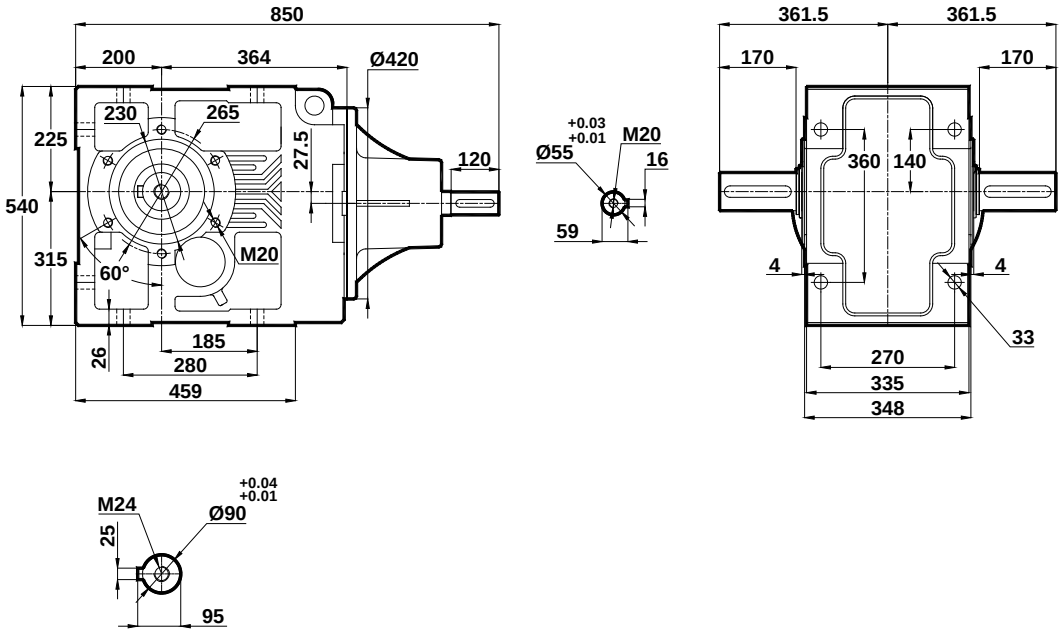


KT773.03

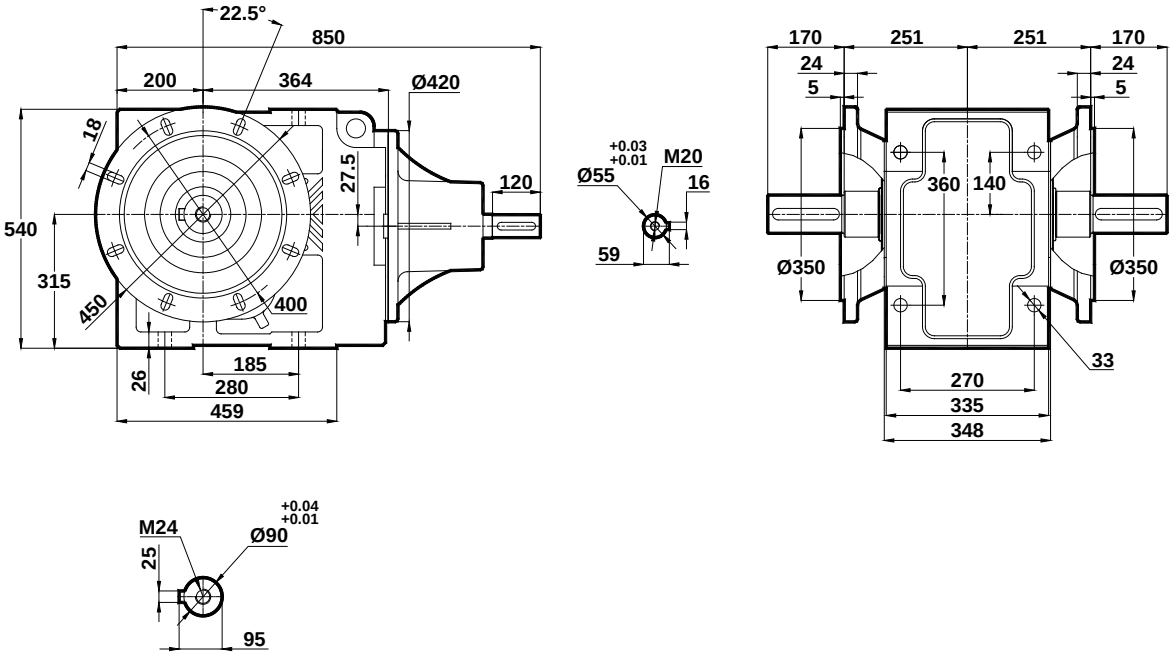


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT773.04

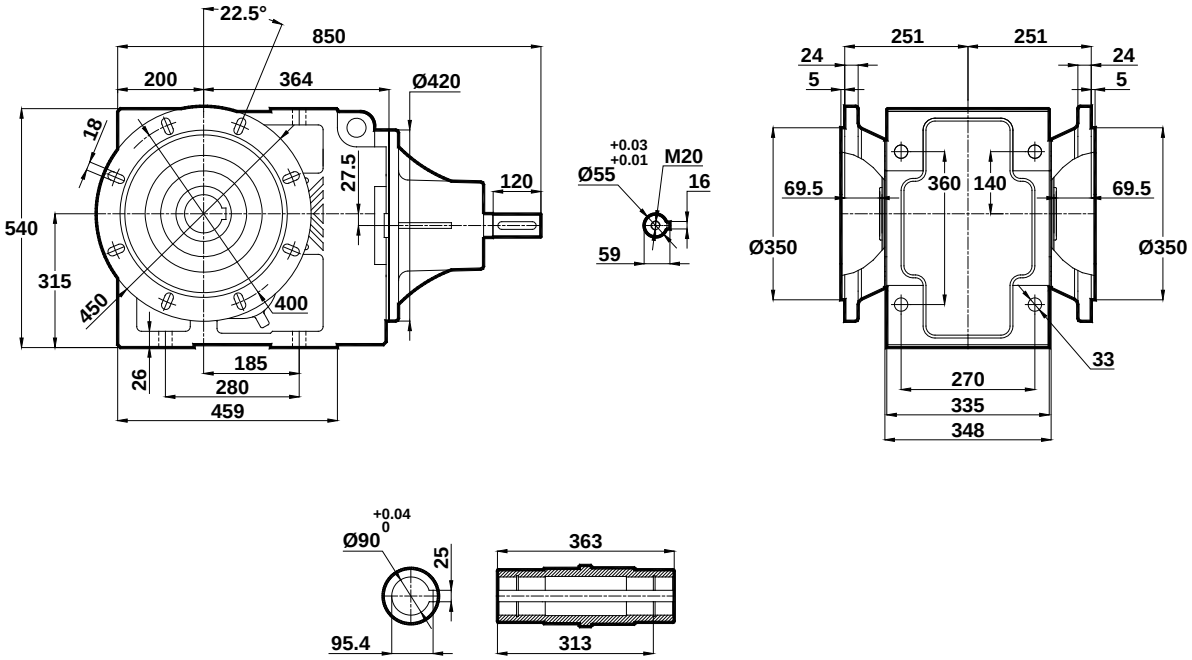


KT773.05



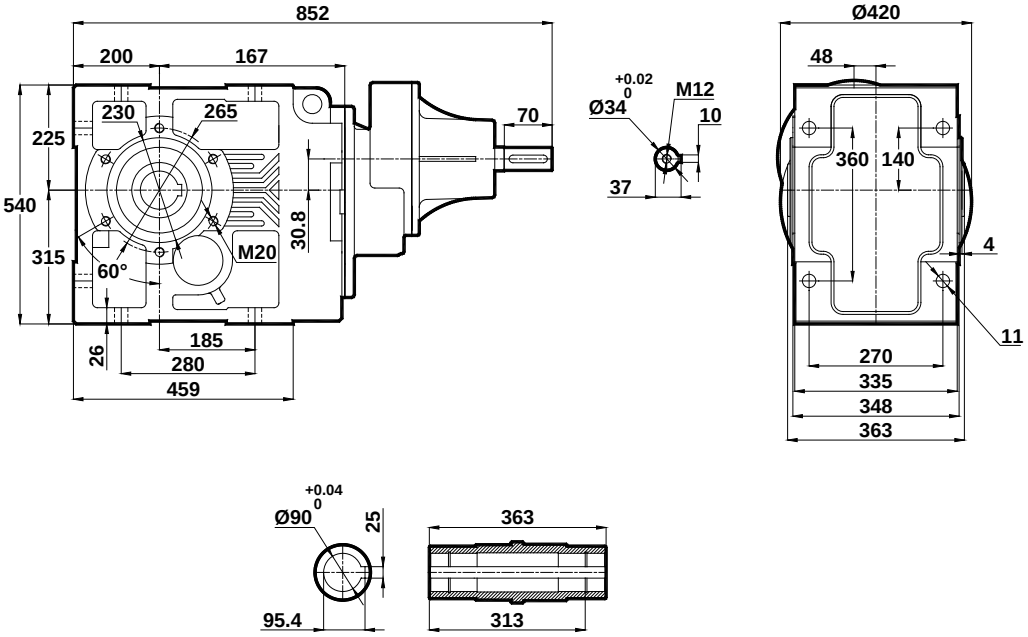
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT773.08

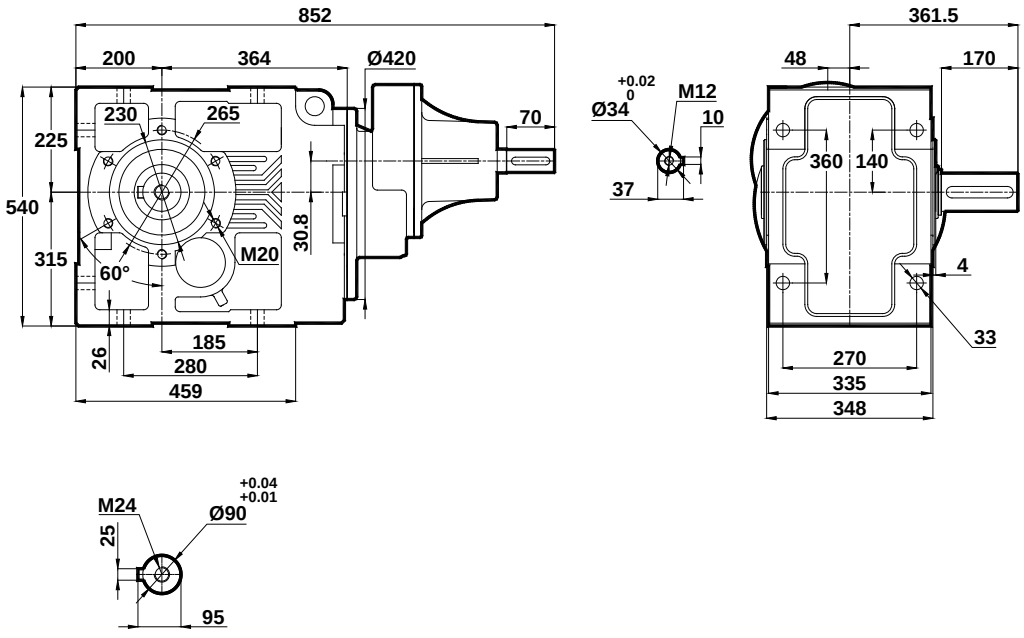


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT774.00

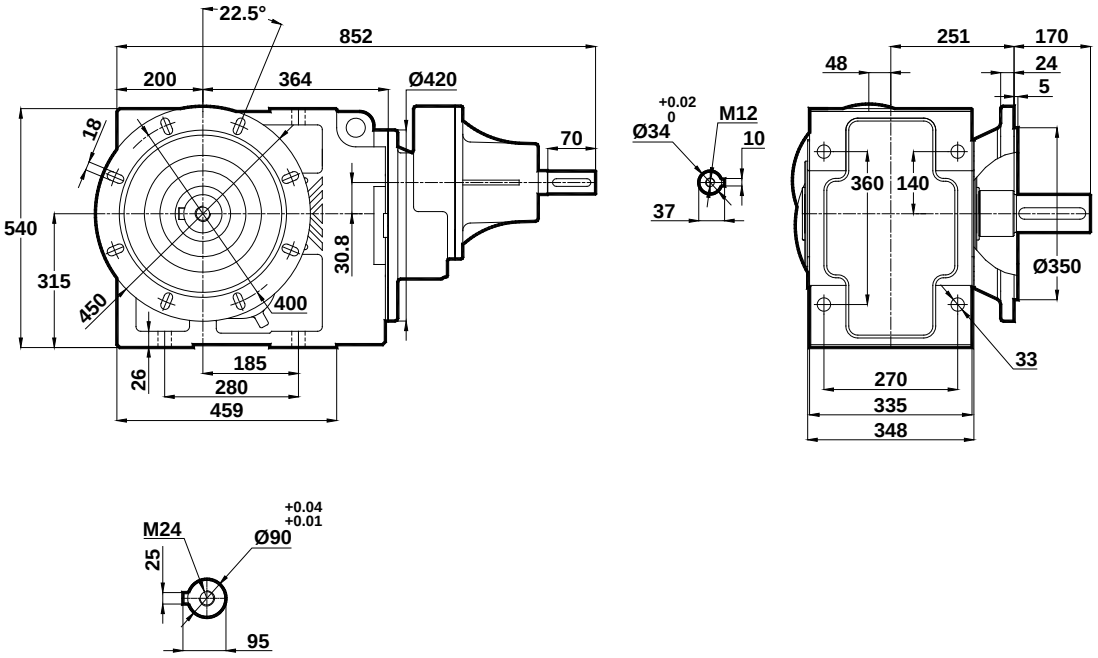


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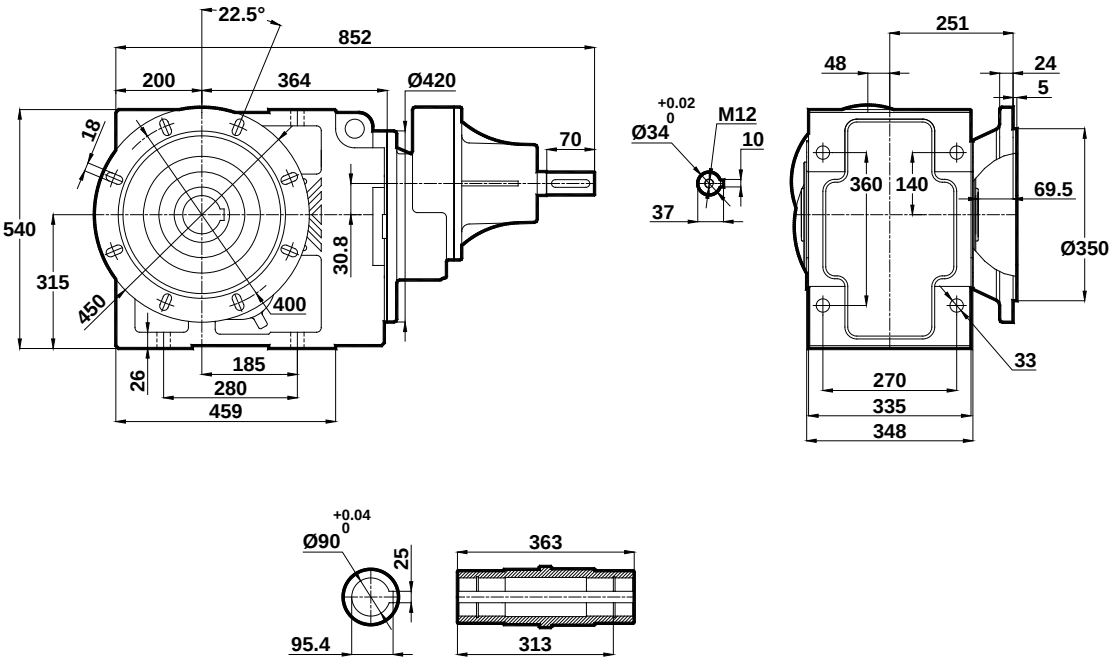


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT774.02

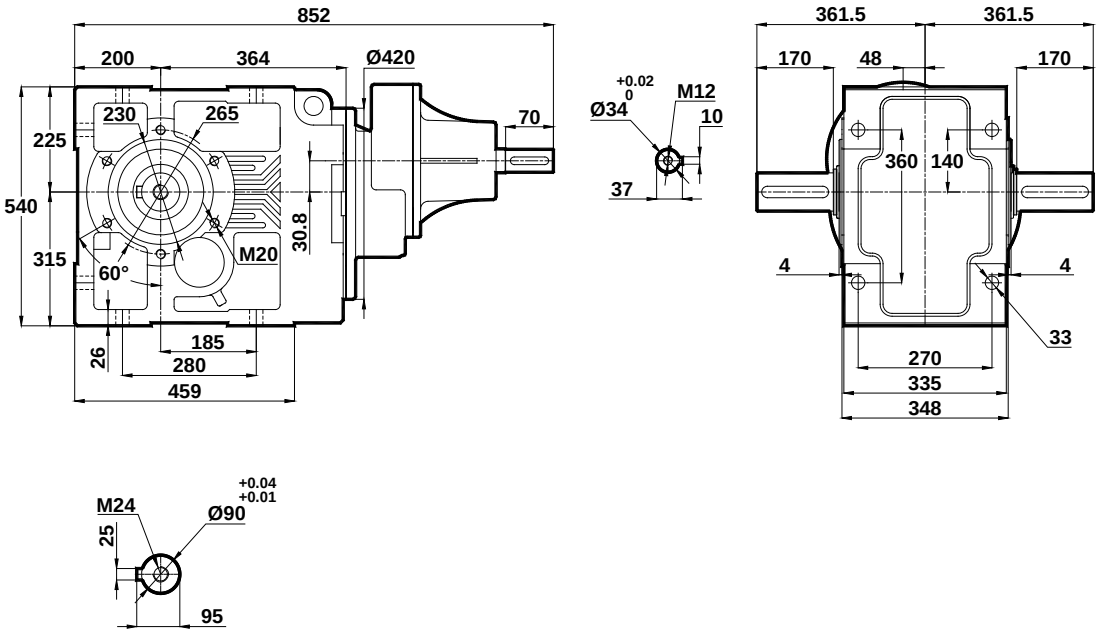


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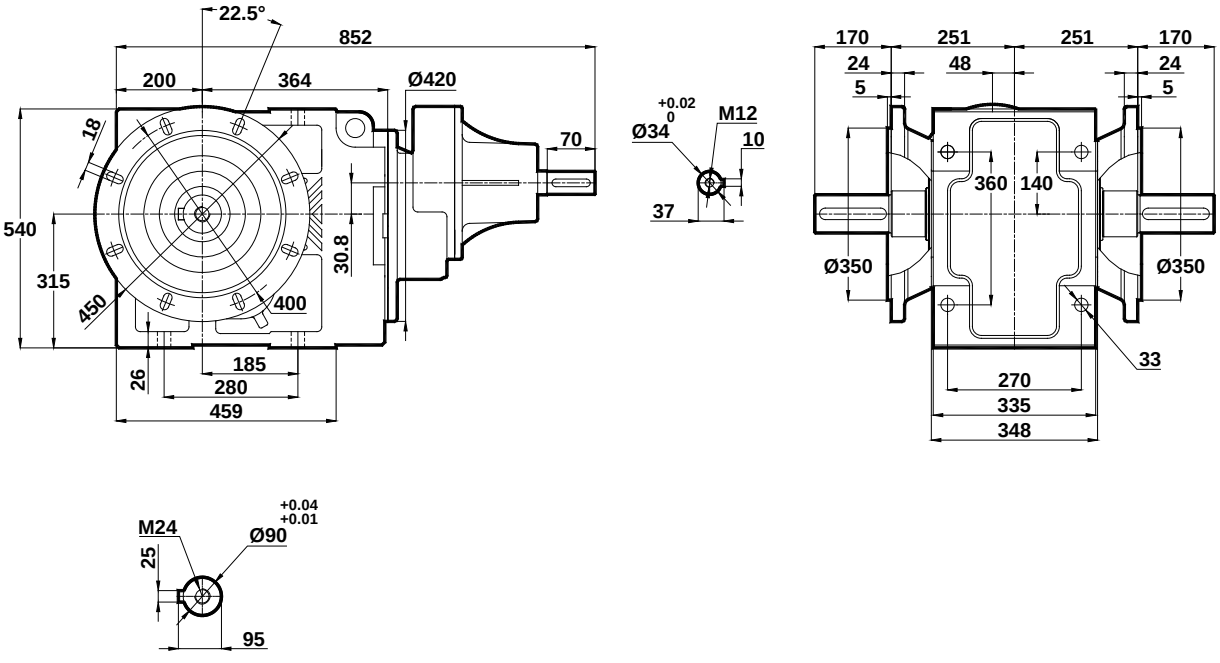


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT774.04

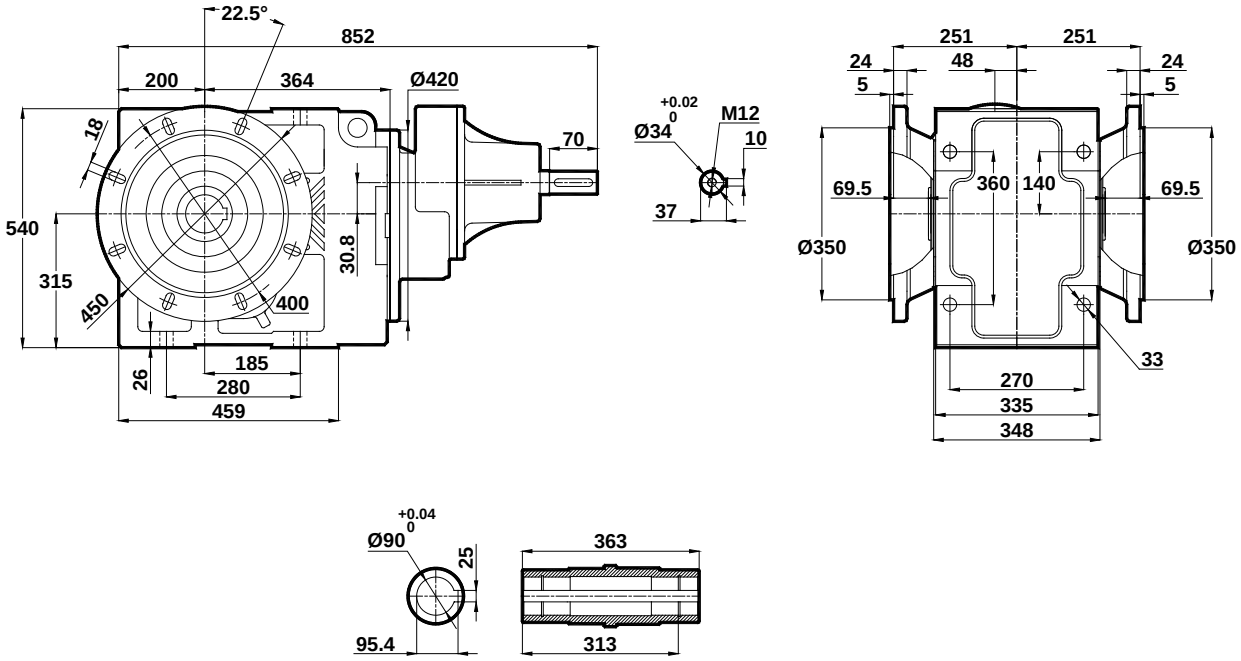


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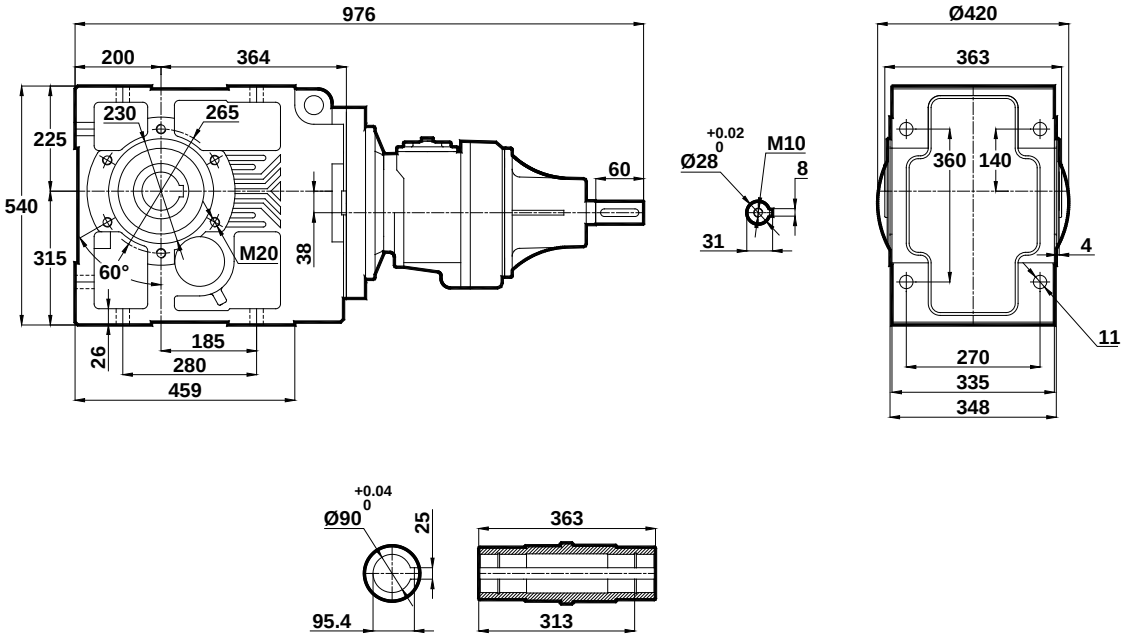
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT774.08

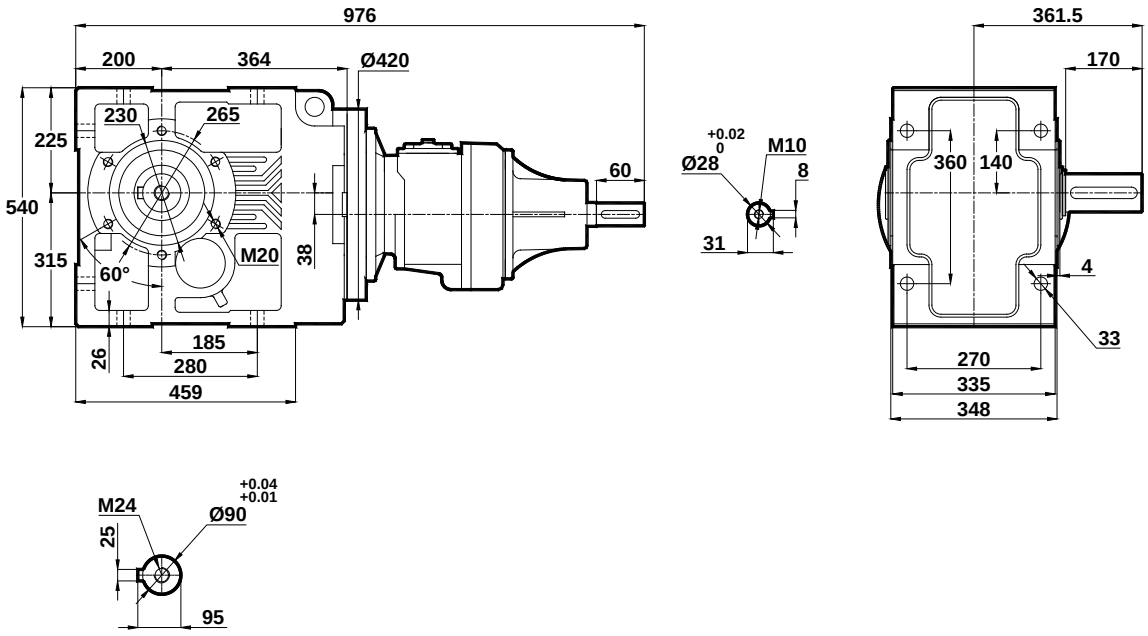


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT775.00
KT776.00

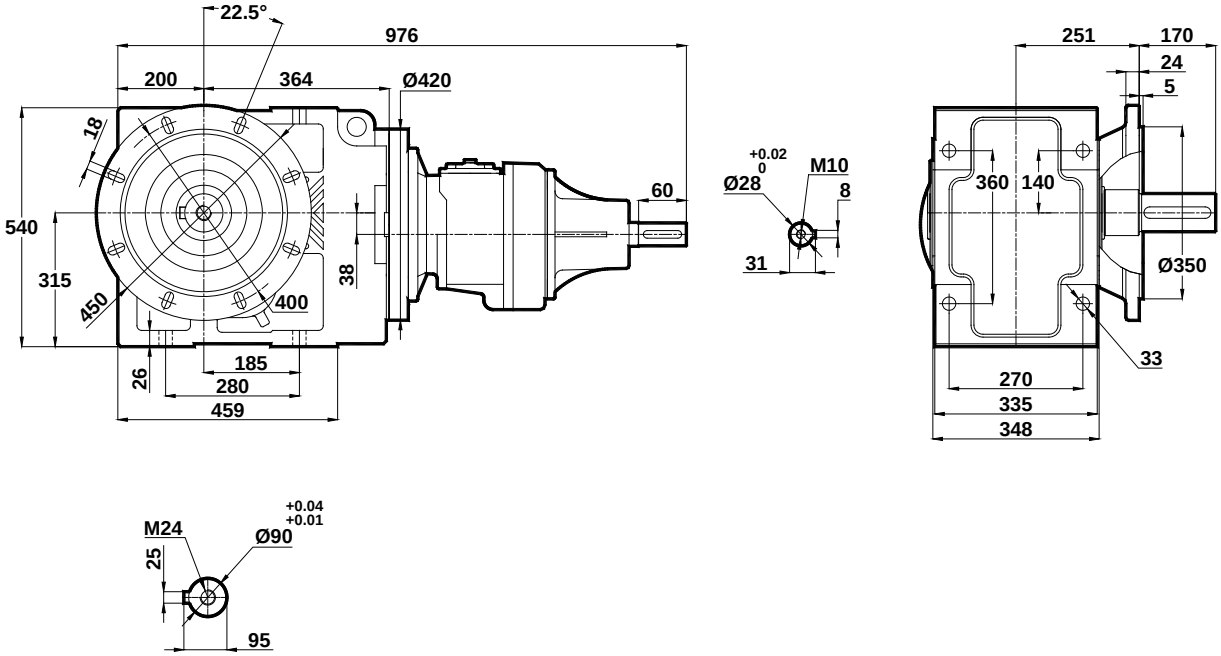


KT775.01
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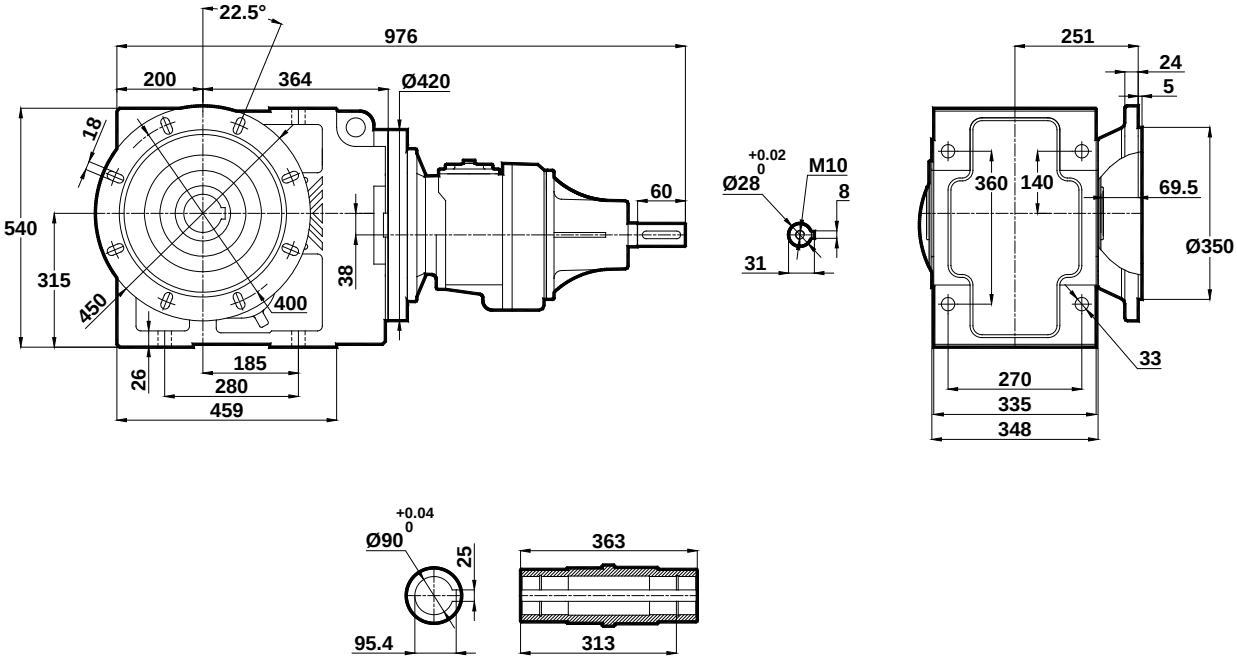


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT775.02
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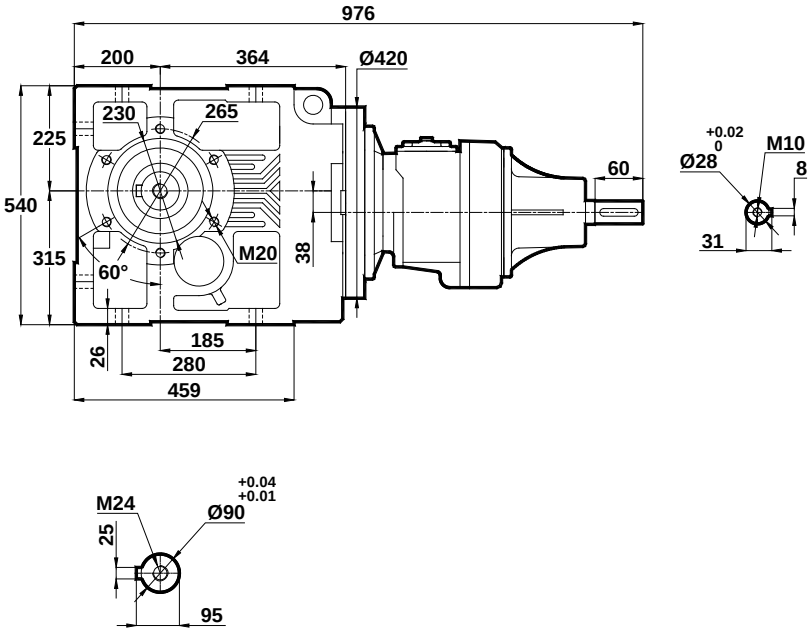


KT775.03
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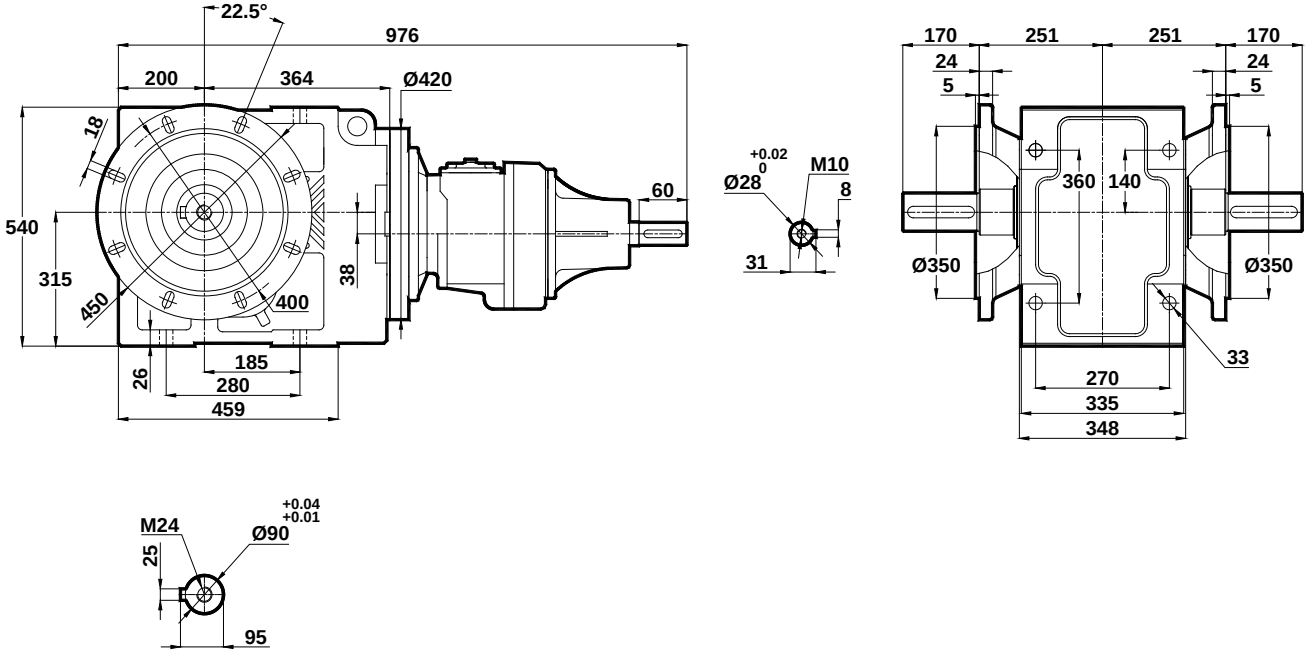


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT775.04
KT776.04

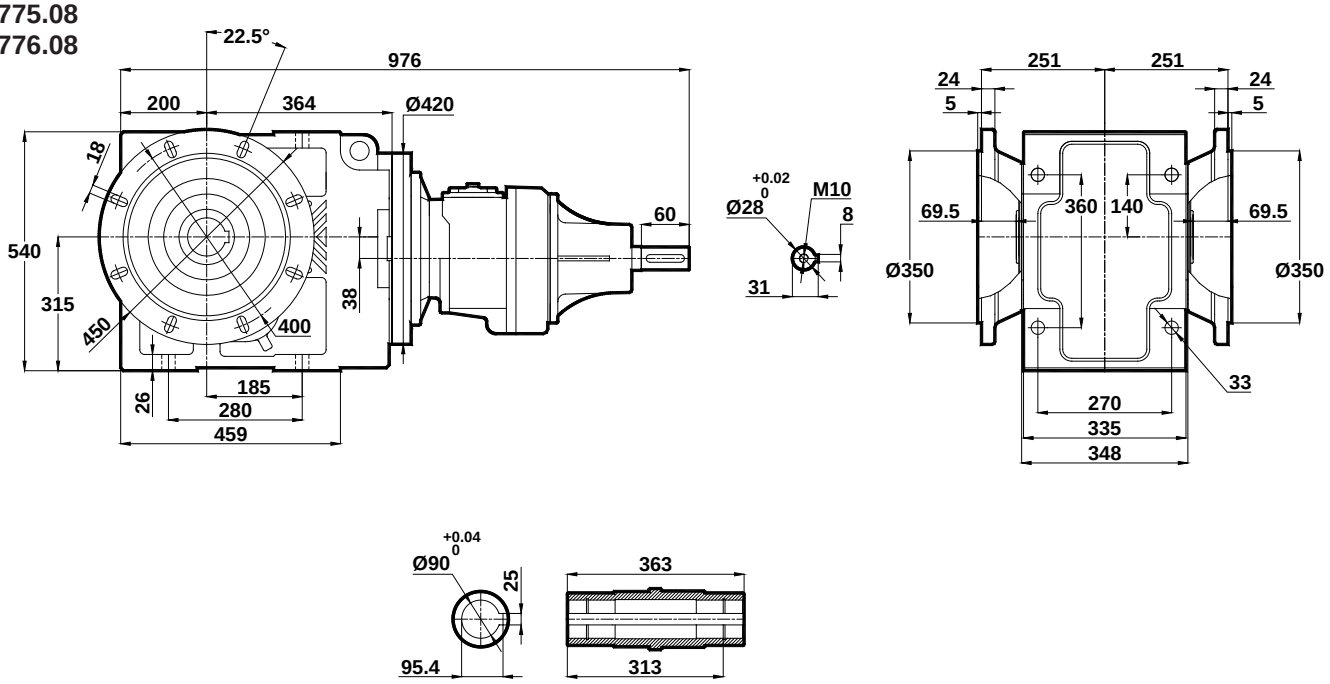


KT775.05
KT776.05



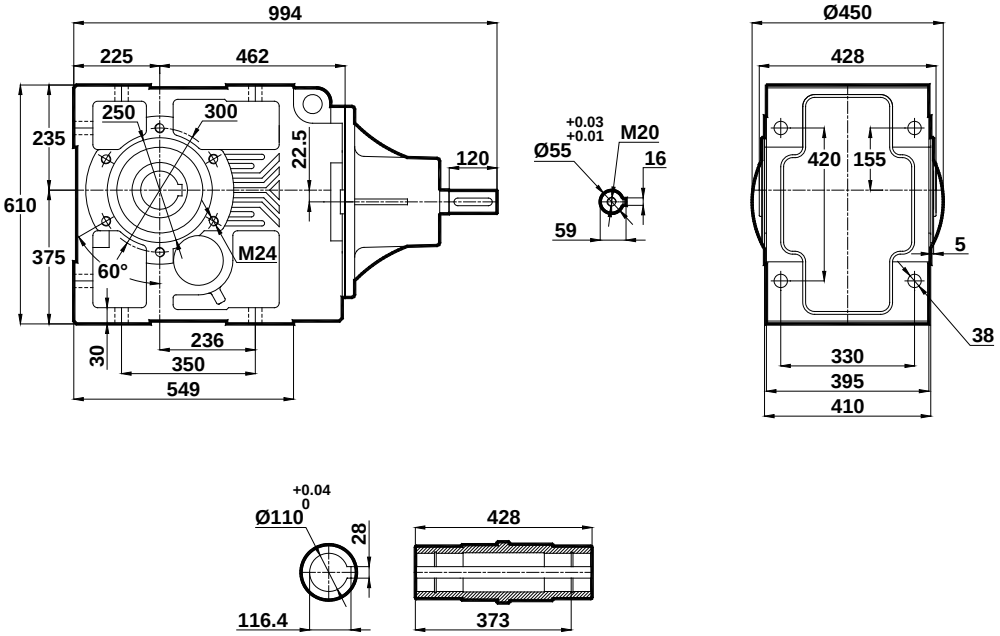
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT775.08
KT776.08

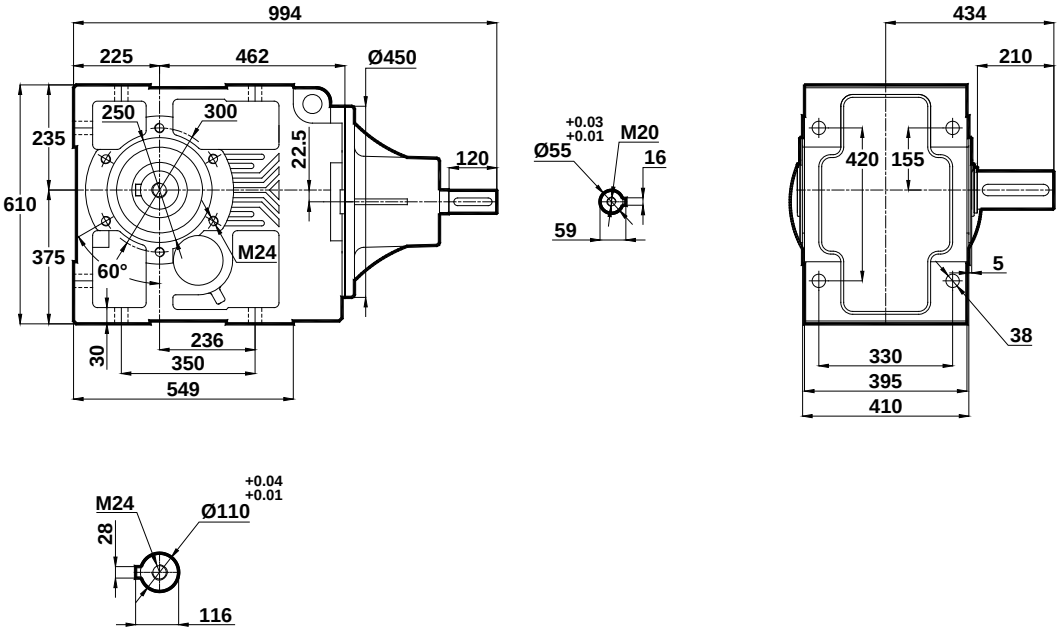


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT873.00

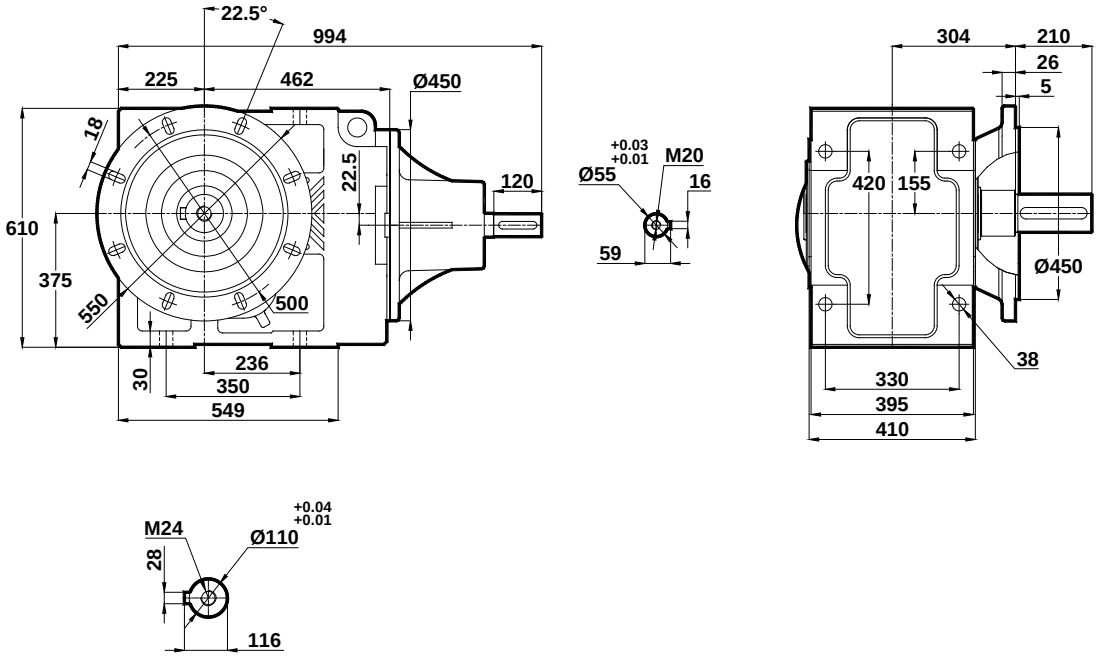


KT873.01

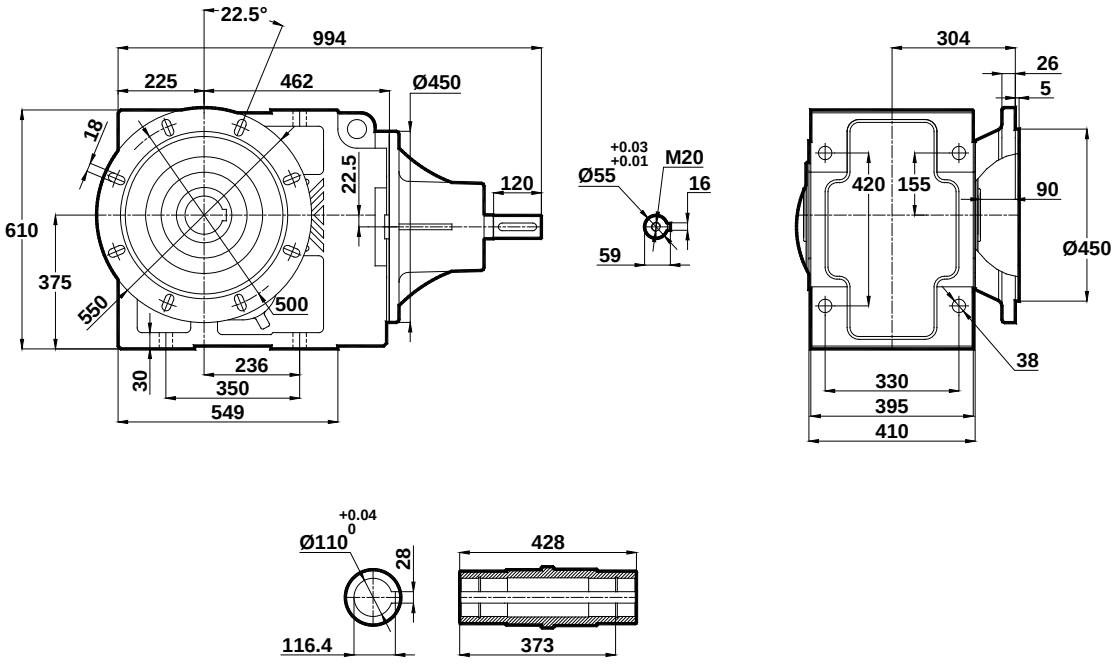


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT873.02

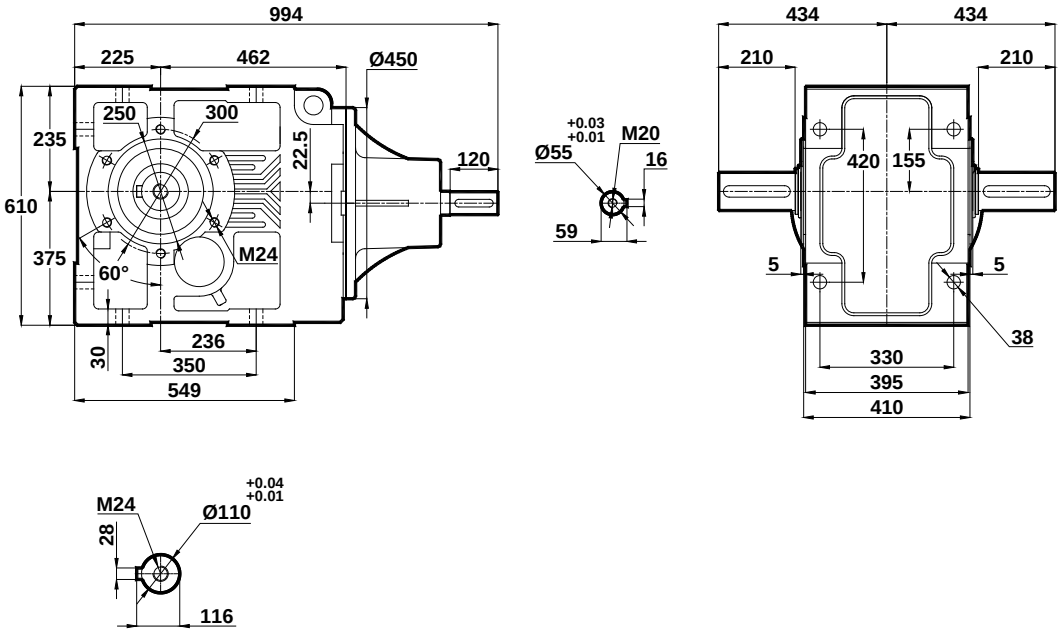


KT873.03

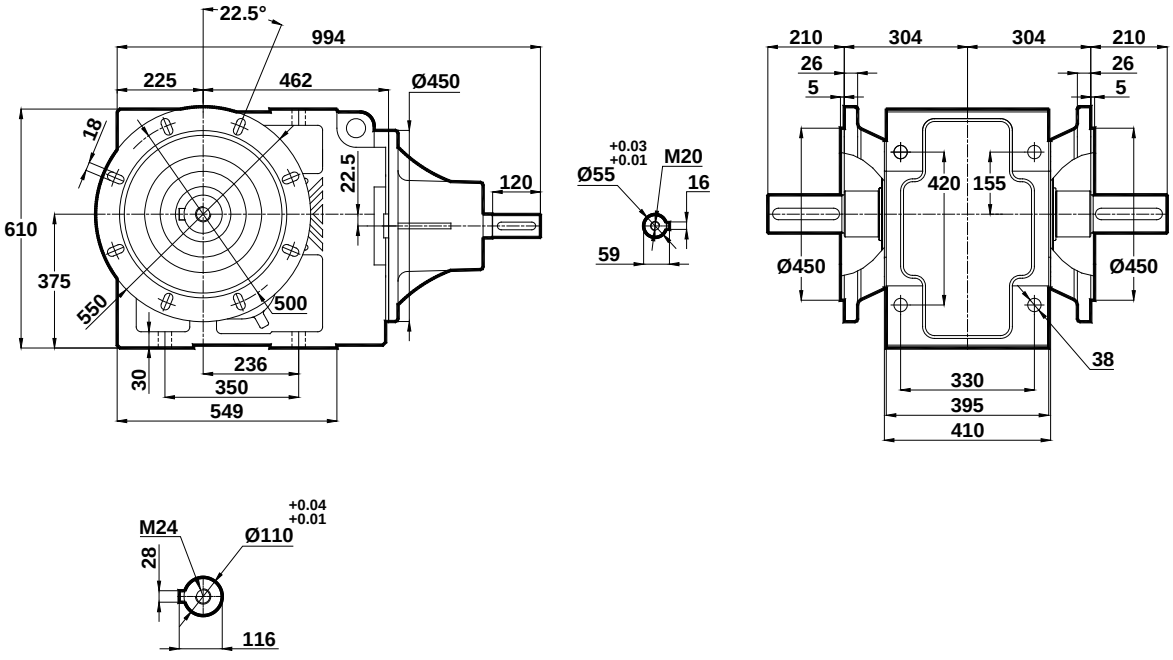


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT873.04

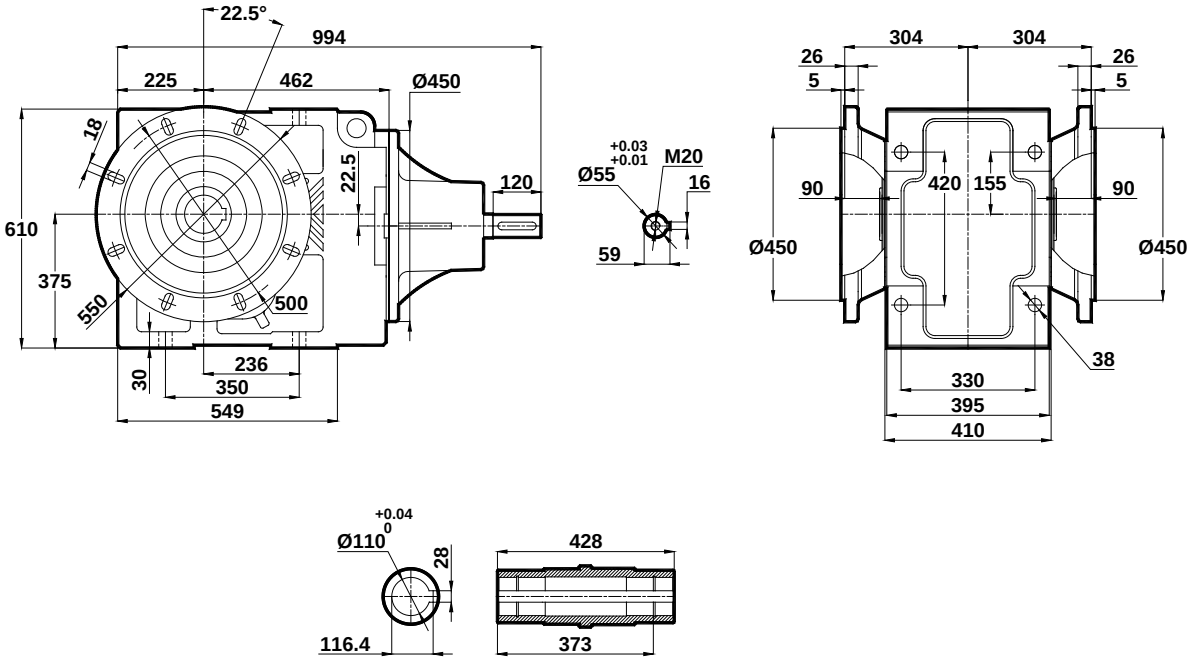


KT873.05



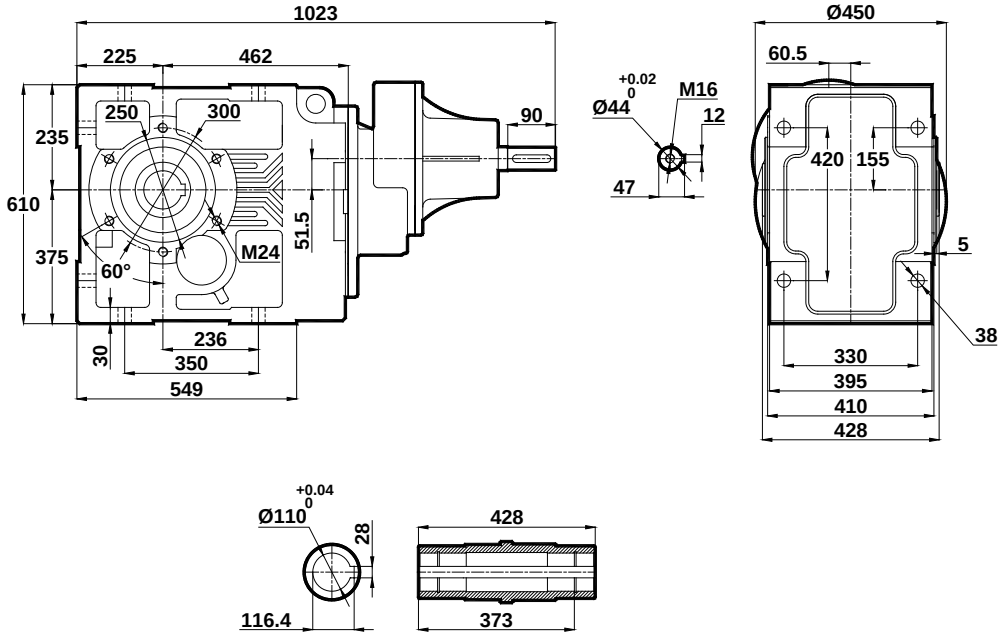
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT873.08

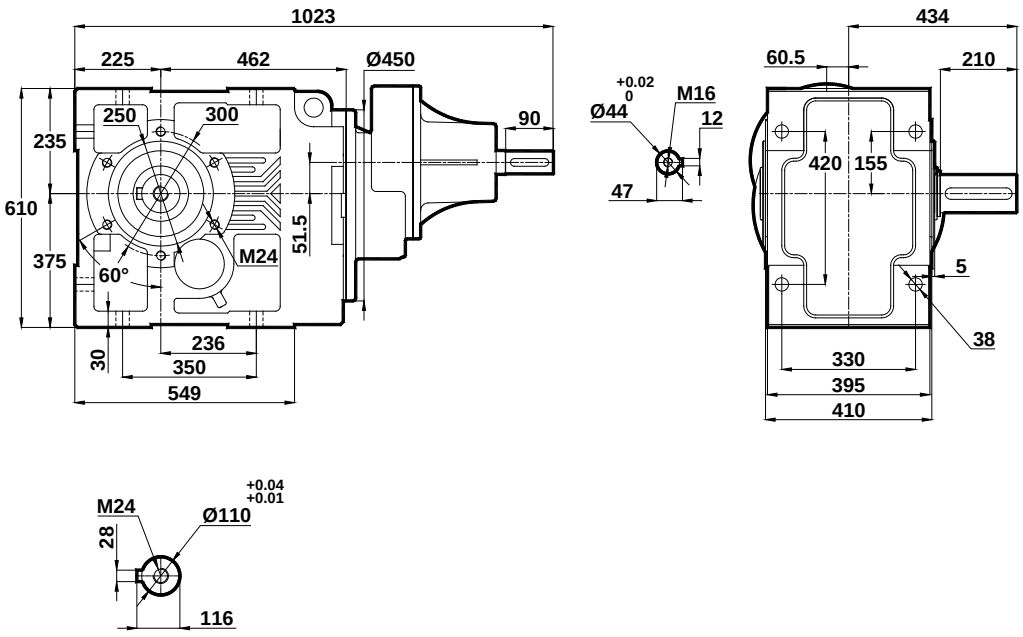


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT874.00

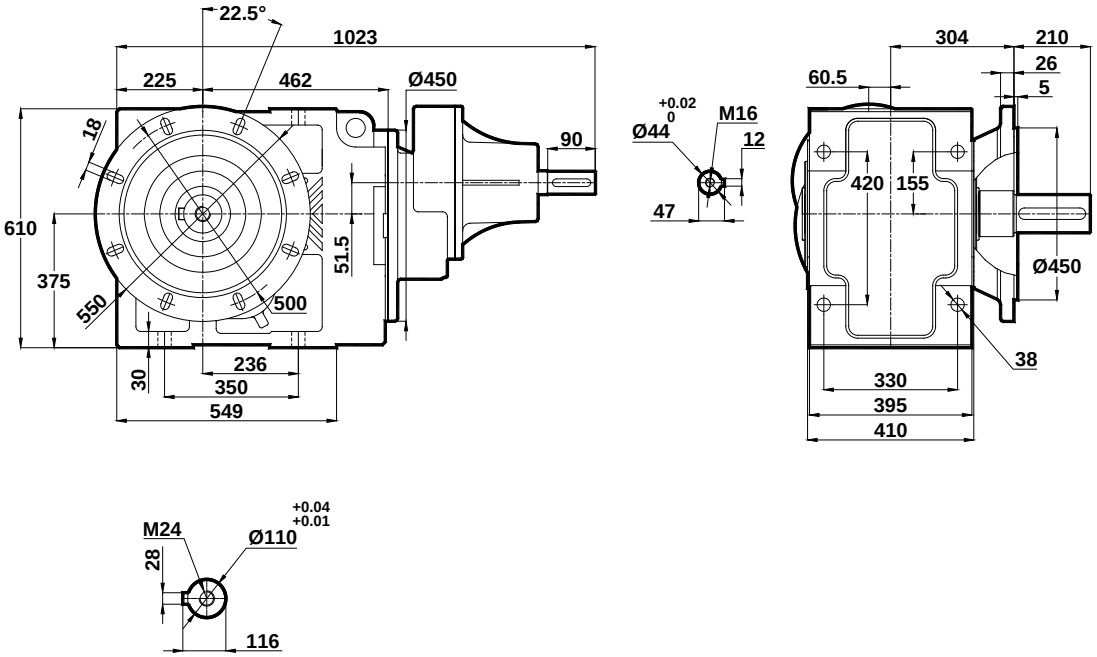


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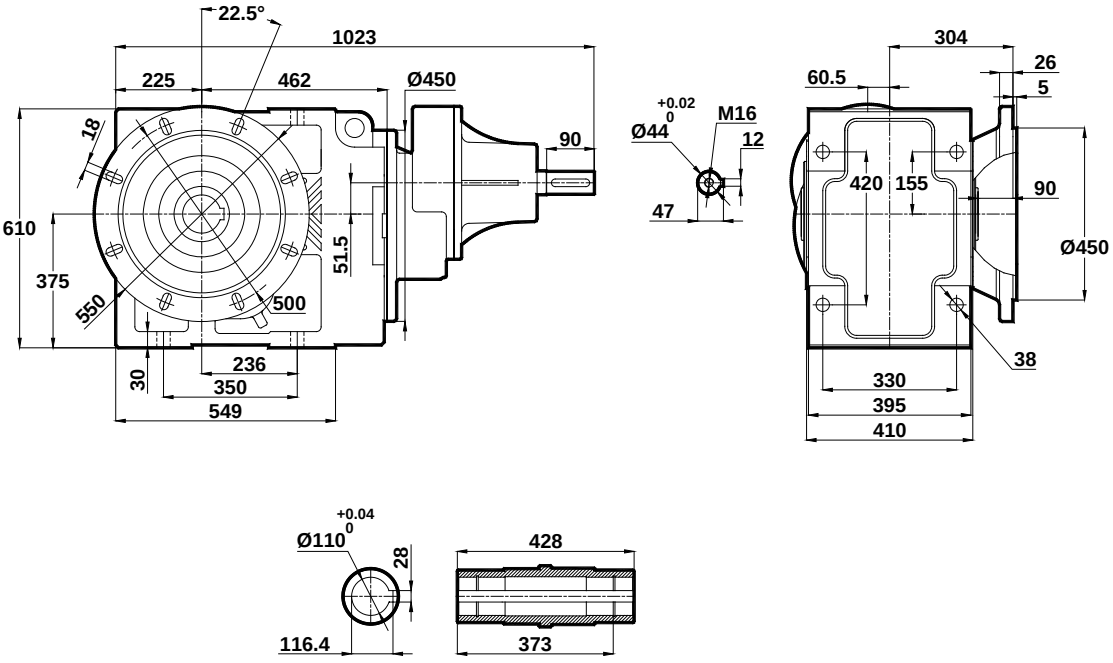


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT874.02

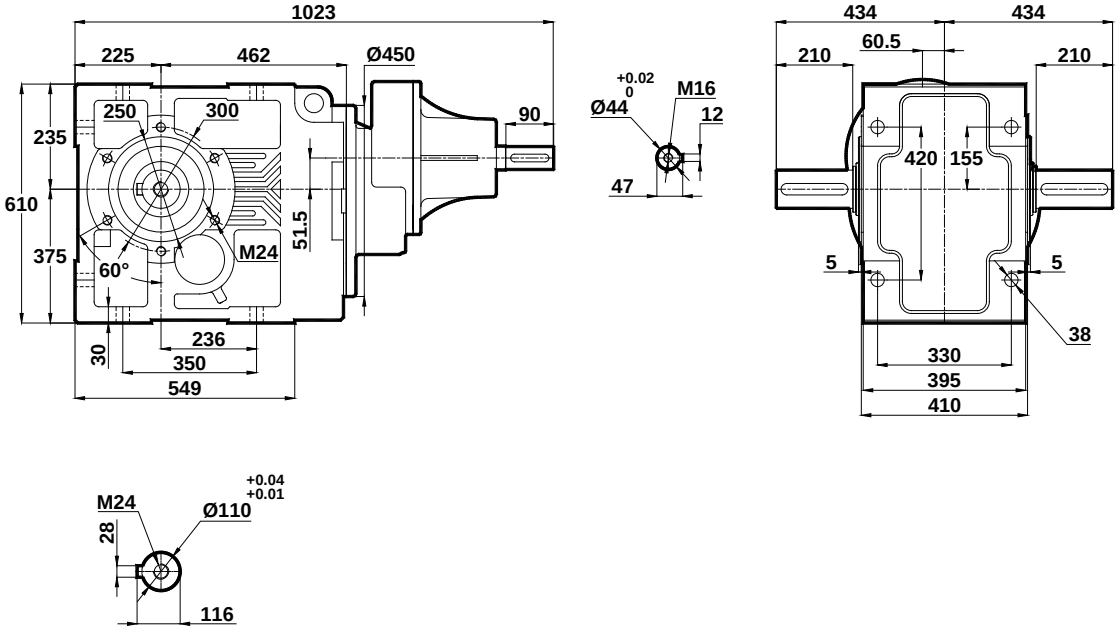


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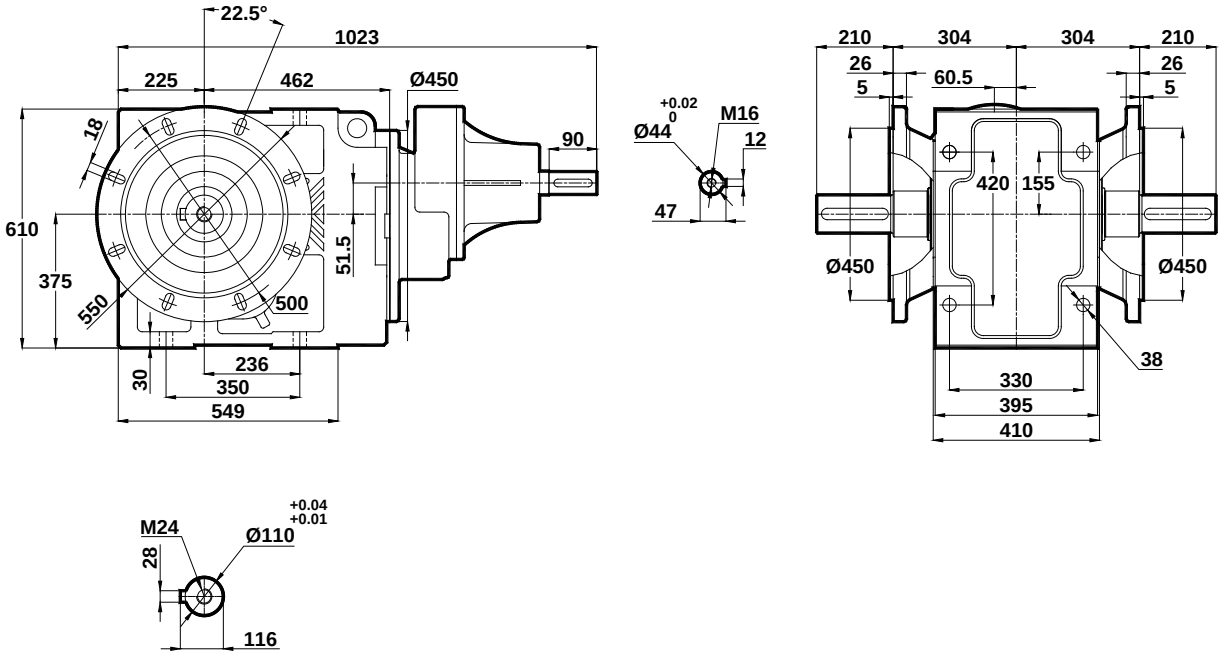


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT874.04

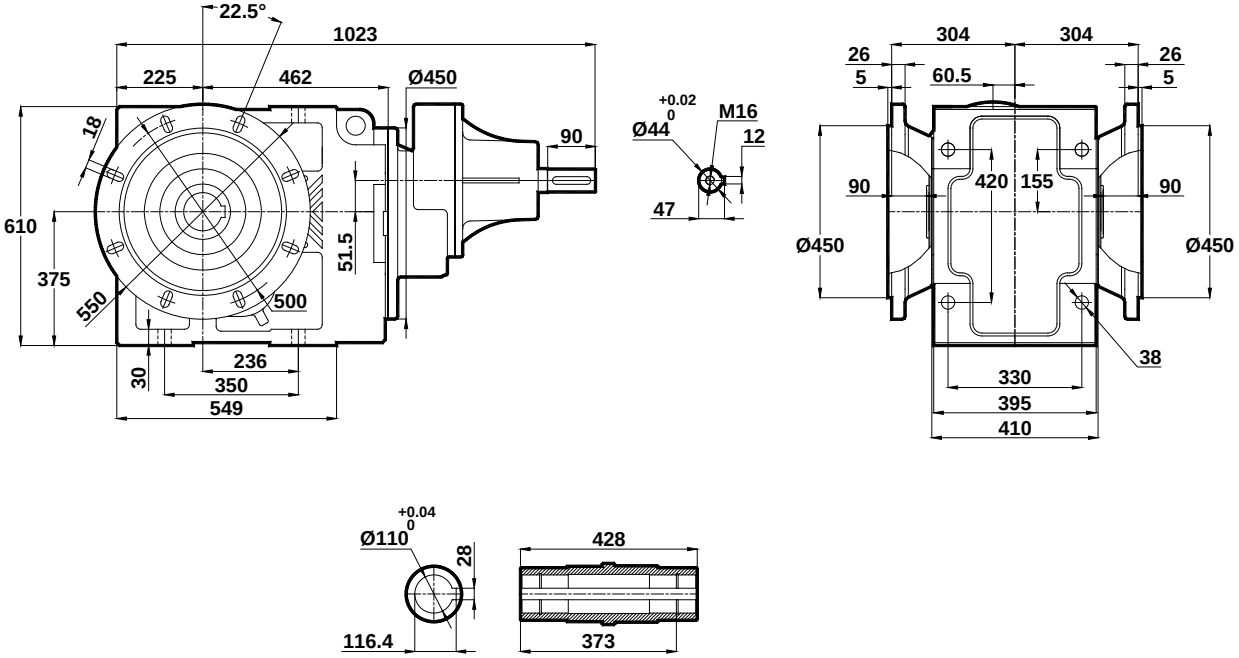


KT874.05



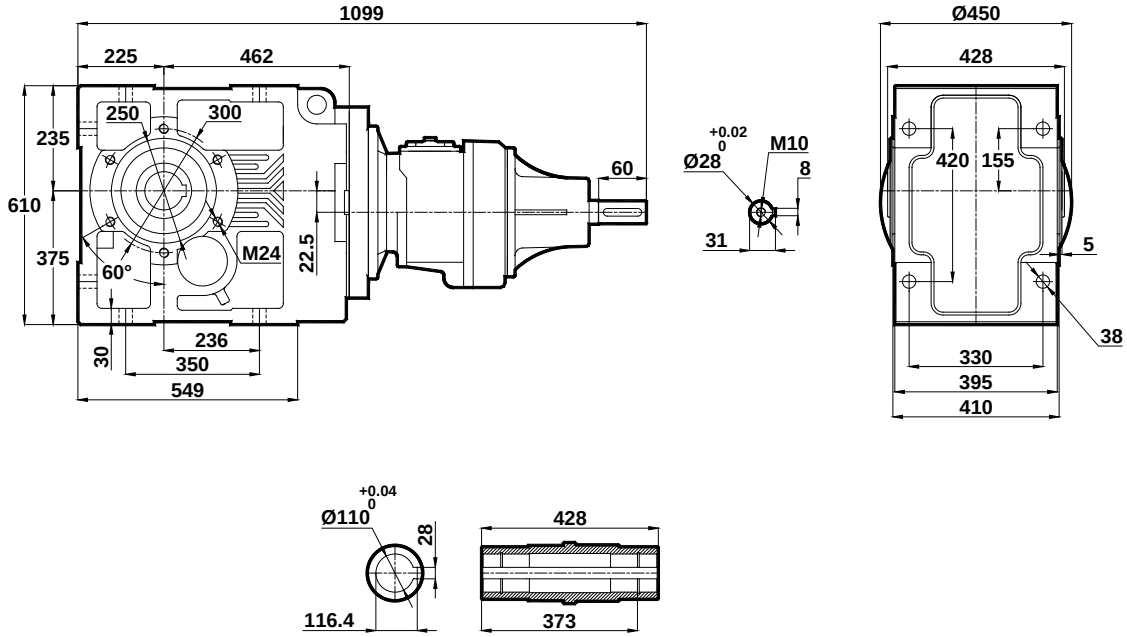
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT874.08

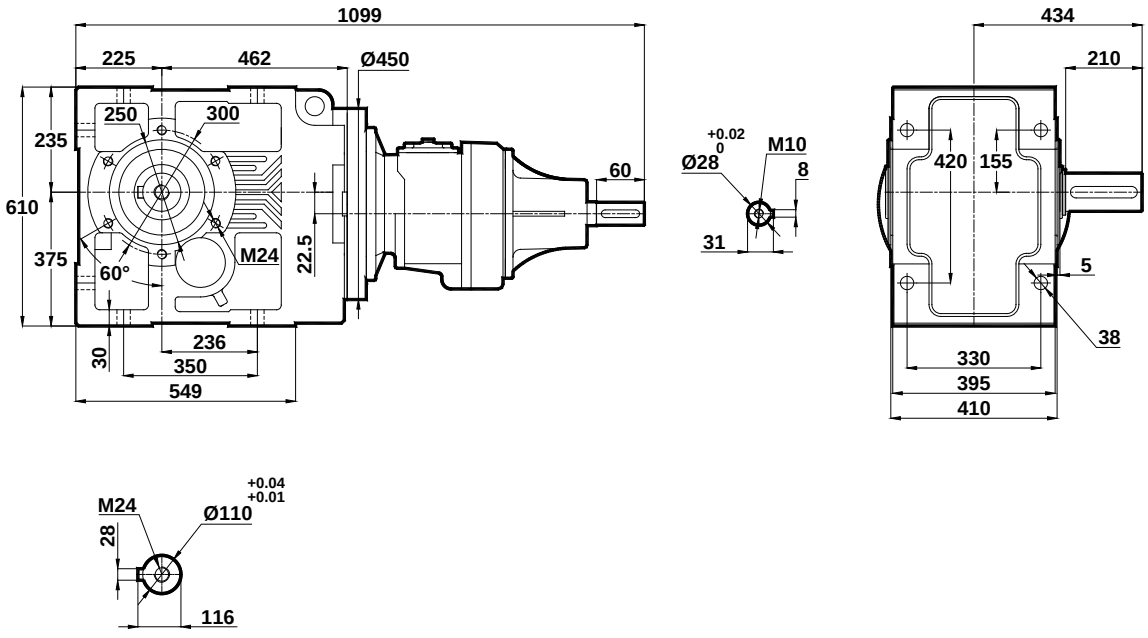


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT875.00
KT876.00

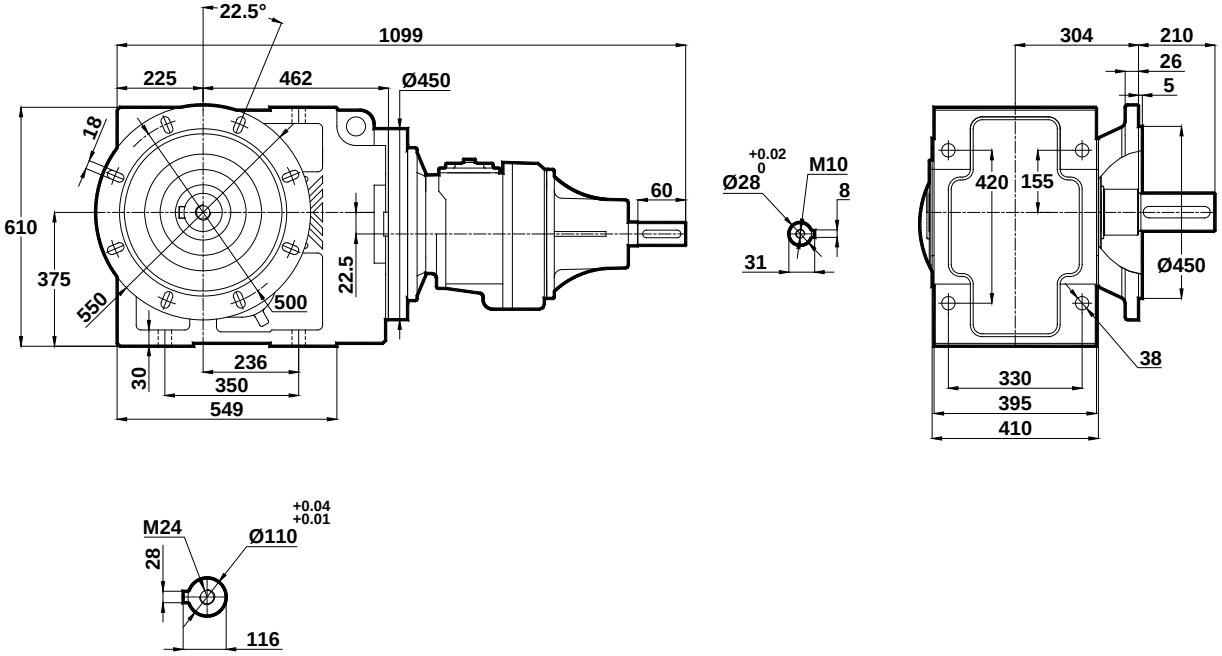


KT875.01
KT876.01

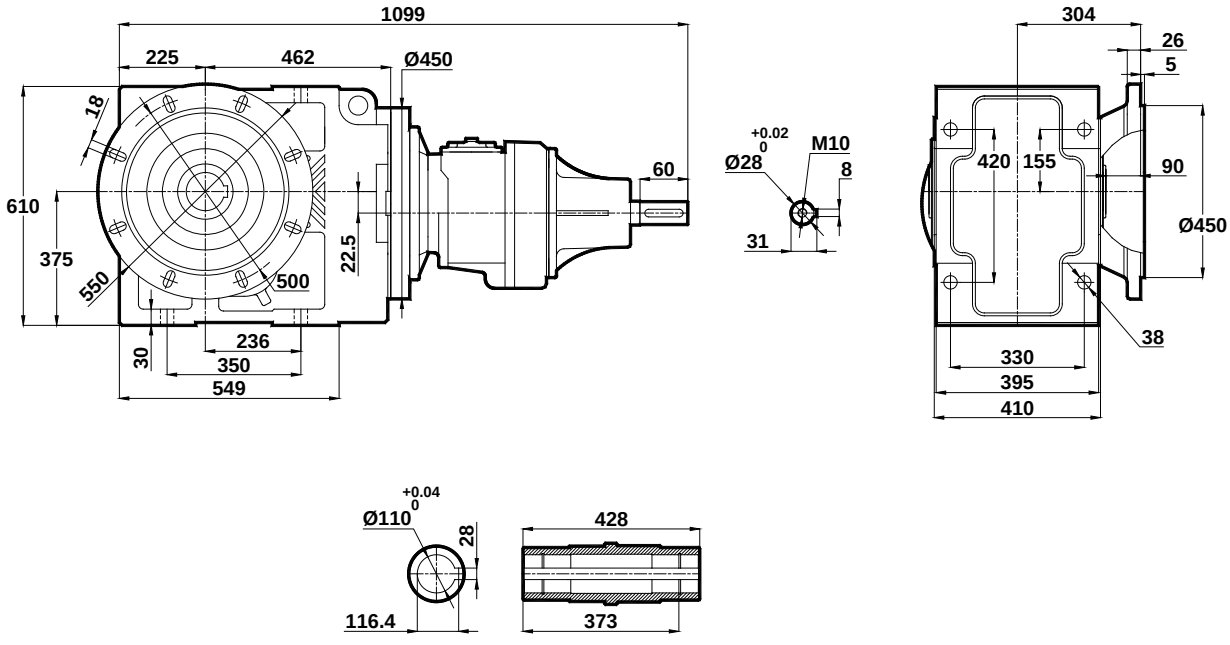


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT875.02
KT876.02

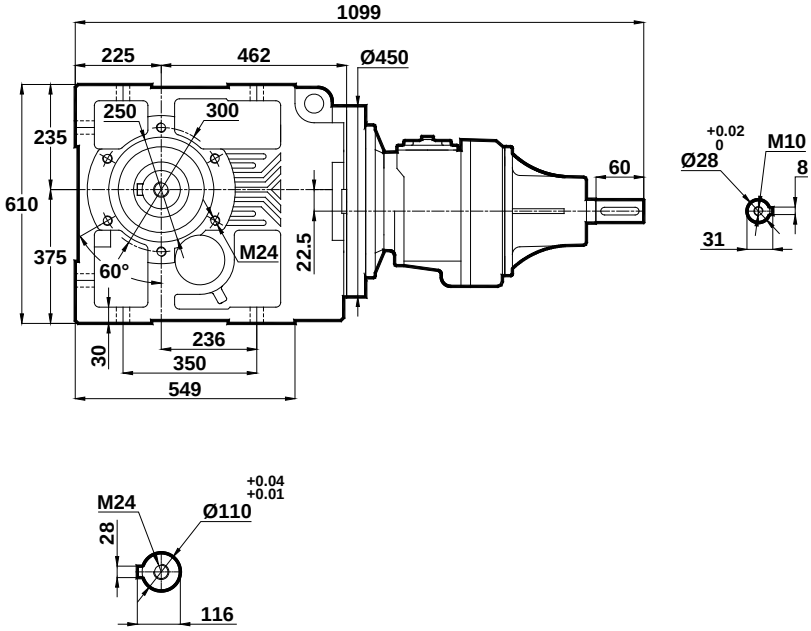


KT875.03
KT876.03

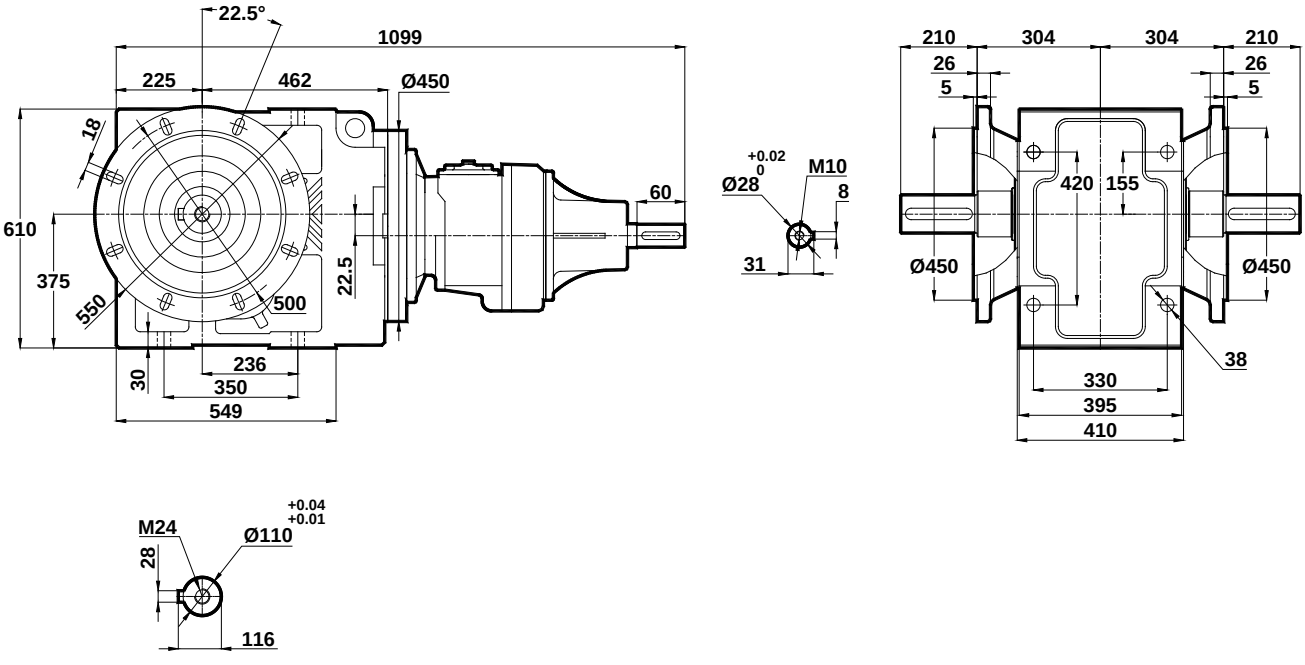


Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT875.04
KT876.04

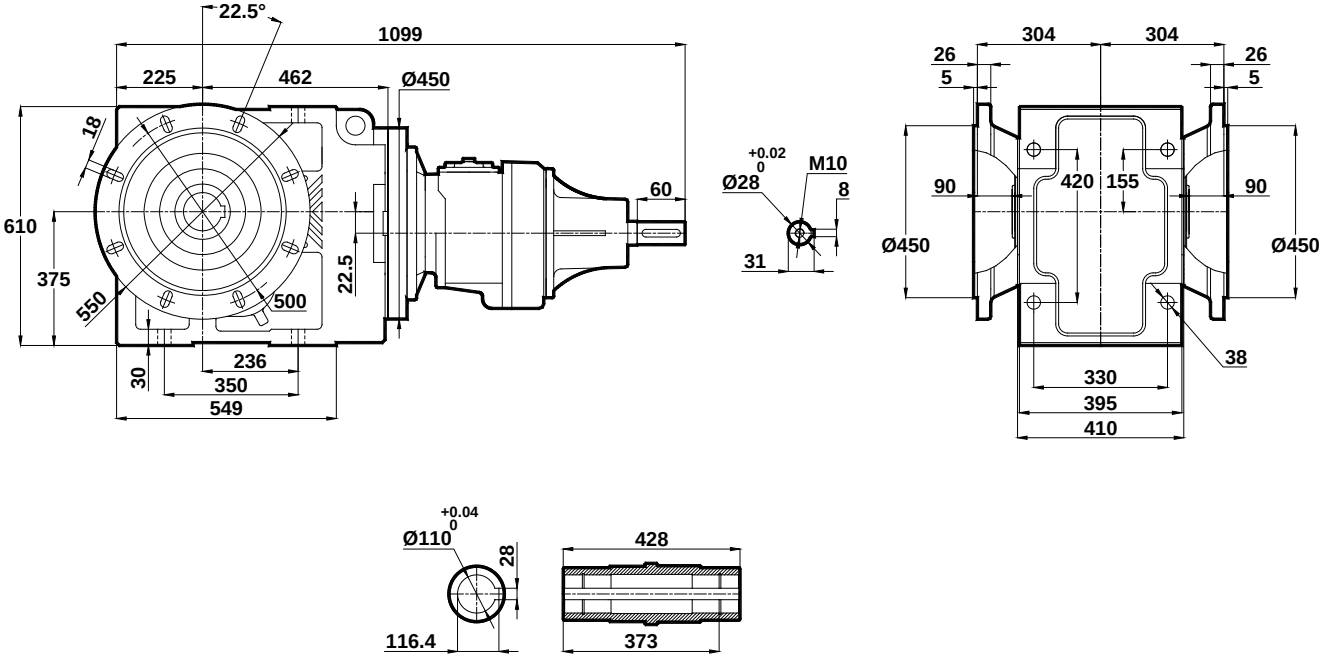


KT875.05
KT876.05



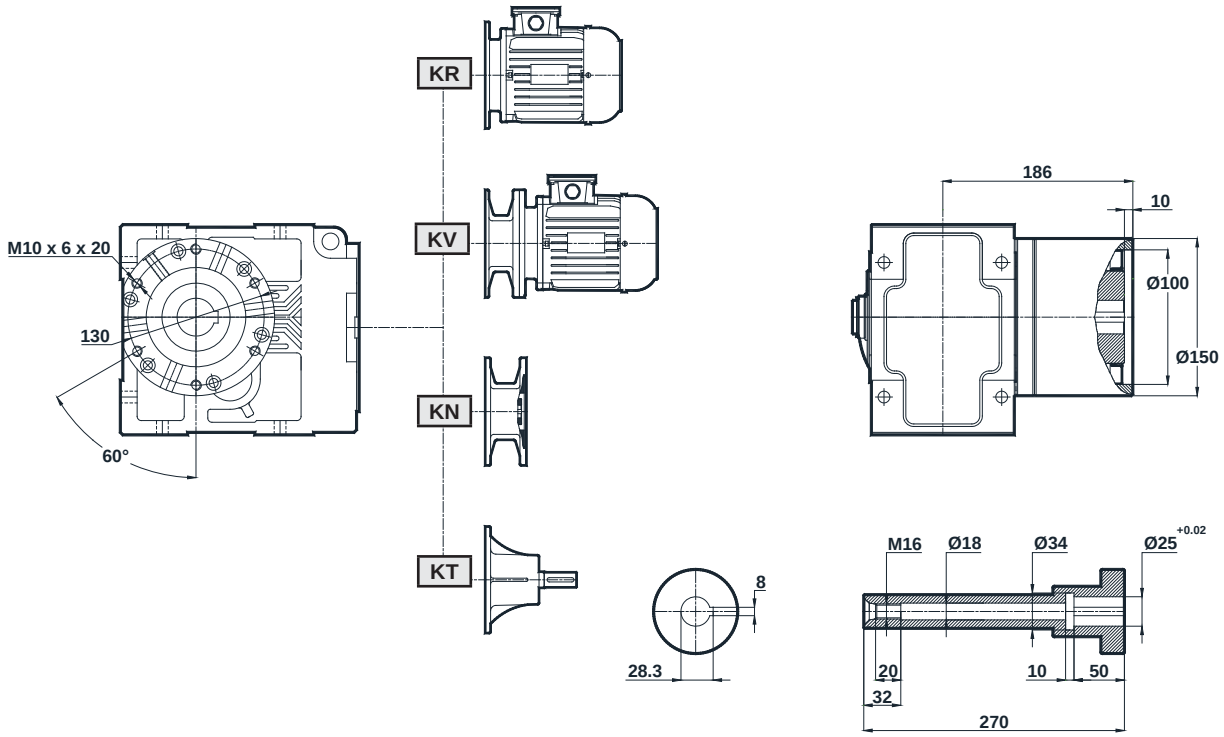
Foro di centraggio filettato secondo DIN 332 foglio 2 / *Tapped center hole to DIN 332, sheet 2* / Zentrierung mit gewinde DIN 332, Blatt 2

KT875.08
KT876.08

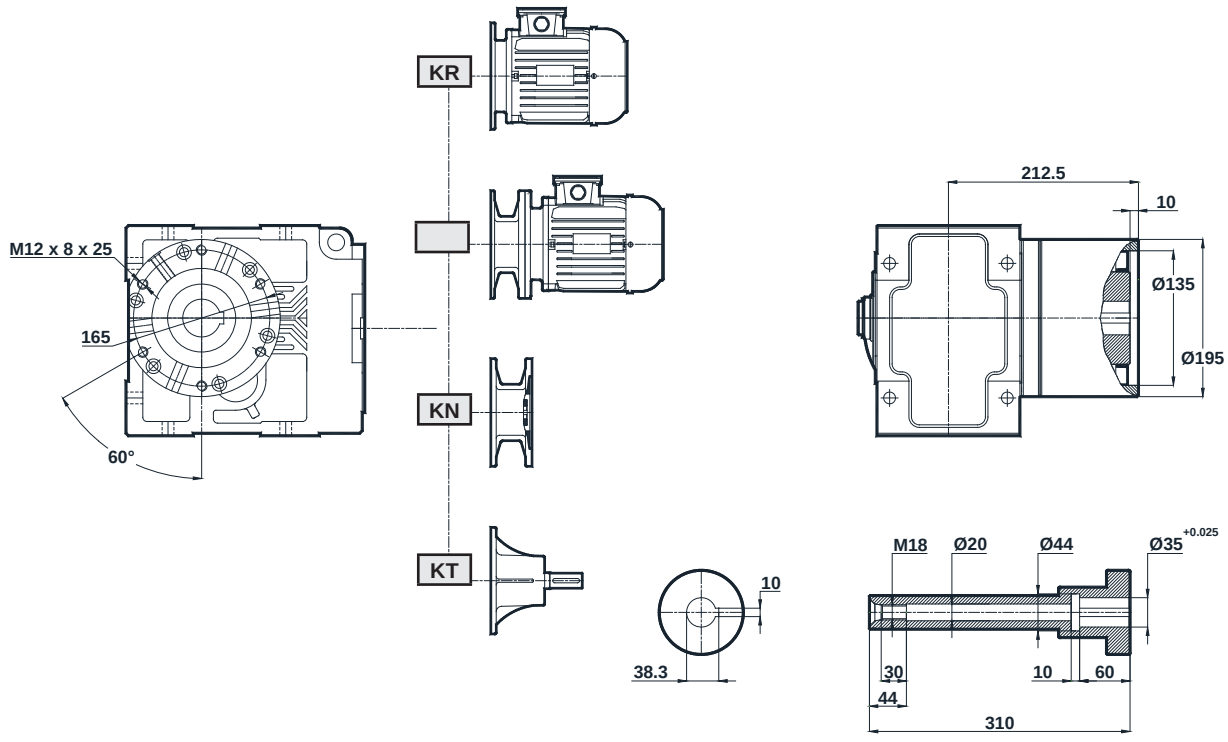


RIDUTTORI SERIE K CON ESTRUSORE
K SERIES EXTRUDER TYPE GEARBOXES
EXTRUDER GETRIEBEN VON K SERIE GETRIEBEN

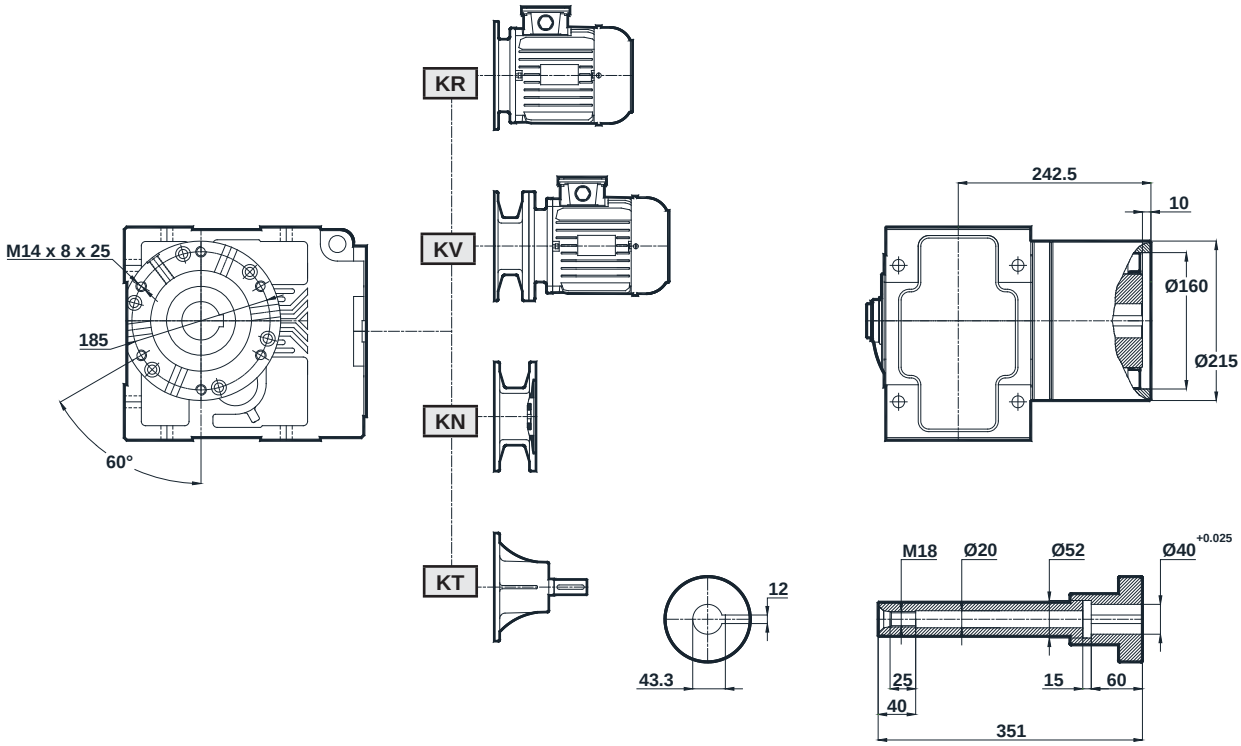
K.27.E



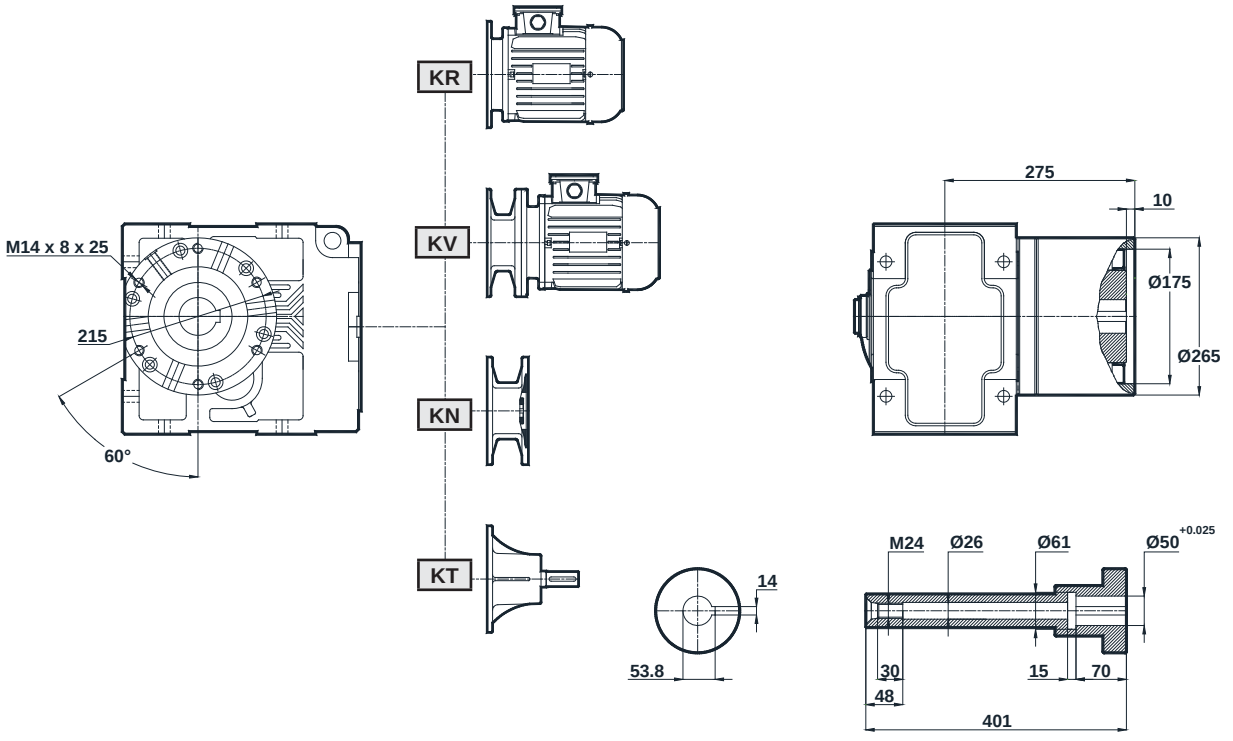
K.37.E



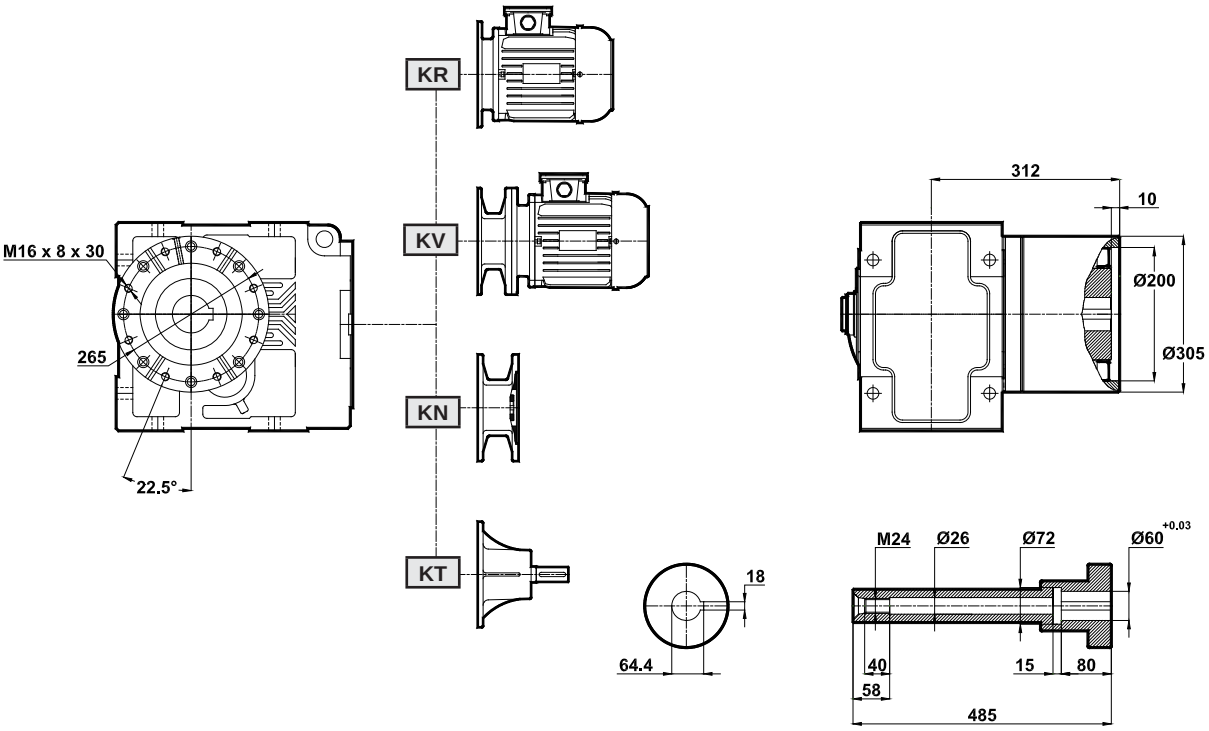
K.47.E


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
40
15
60
351

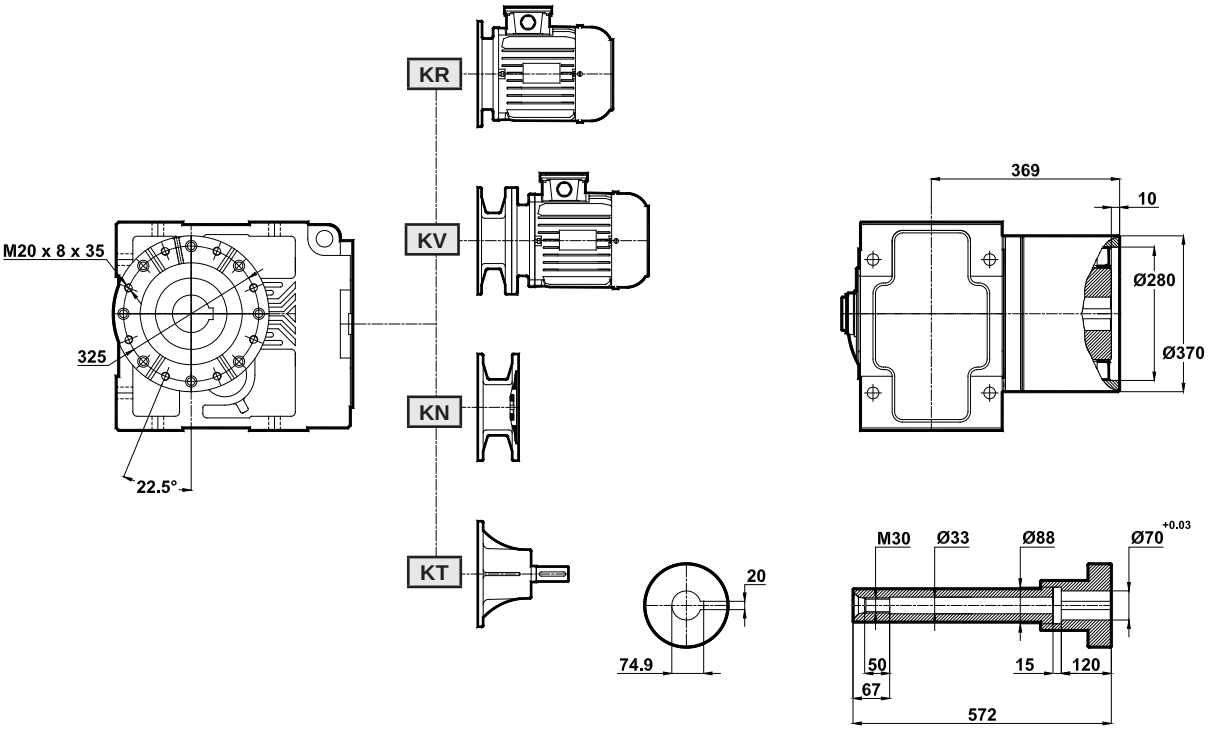
K.57.E


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
48
15
70
401

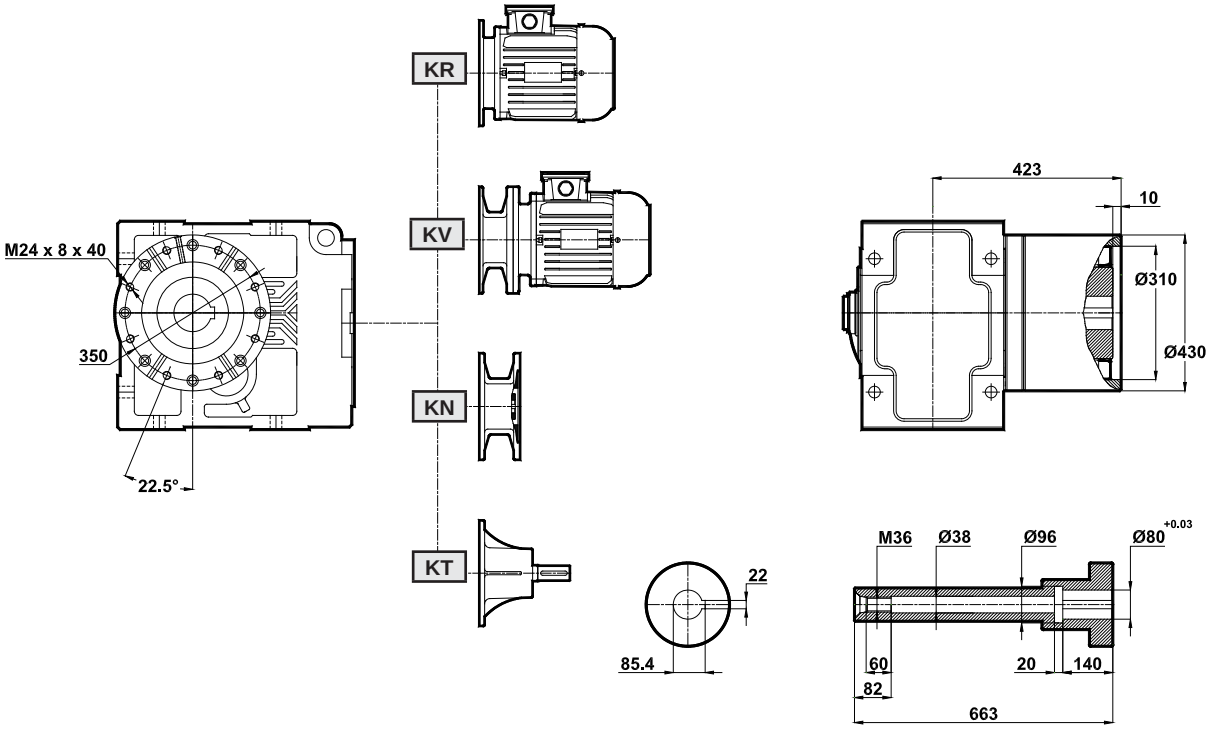
K.67.E


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

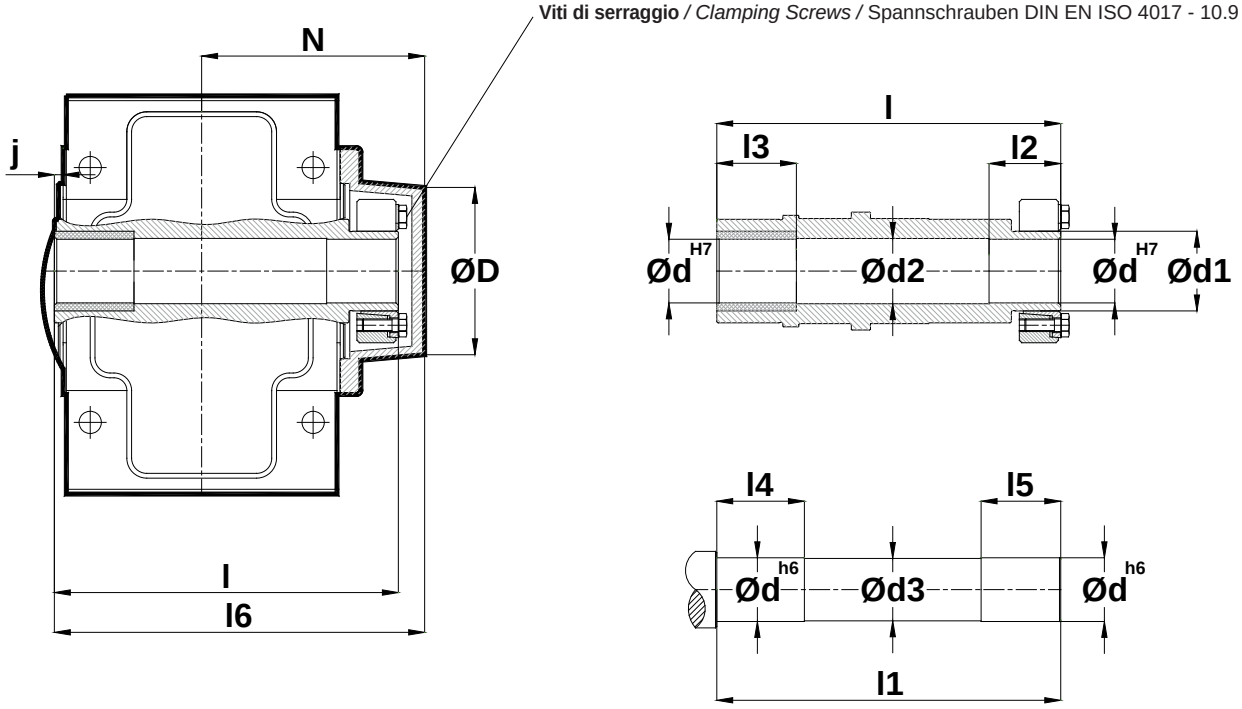

KR
KV
KN
KT
M20 x 8 x 35
325
22.5°
20
74.9
369
10
Ø280
Ø370
M30
Ø33
Ø88
Ø70 +0.03
50
67
15
120
572

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

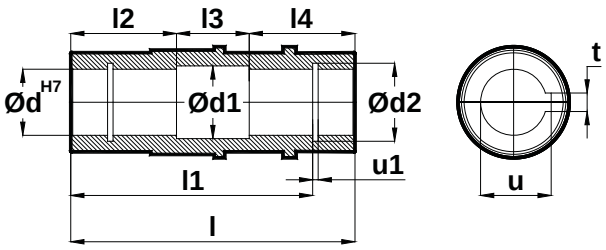
ALBERO CAVO SERIE K CON CONNETTORE PER GIUNTO AD ATTRITO
K SERIES HOLLOW SHAFT WITH SHRINK DISK CONNECTOR
K SERIE HOHLWELLE MIT SCHRUMPFSCHEIBE

Viti di serraggio / *Clamping Screws* / Spannschrauben DIN EN ISO 4017 - 10.9



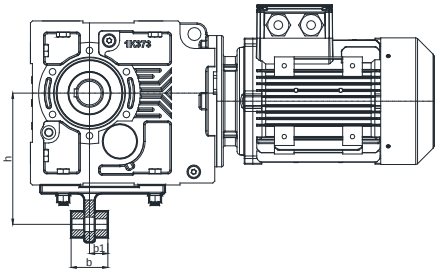
	ØD	Ød	Ød1	Ød2	Ød3	l	l1	l2	l3	l4	l5	l6	N	j	M x z	Ta [Nm]
K..00..0S	69	20	24	21	19	137	140	27	20	25	35	147	89.5	4	M6 x 5	12
K..10..0S	88	30	38	31	29	147	150	32	22	27	40	161	101	4	M8 x 5	30
K..20..0S	94	35	44	36	34	170	173	35	25	30	43	183	113	5	M8 x 6	30
K..27..0S	98	35	44	36	34	186	189	35	25	30	43	201	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

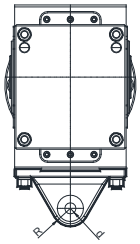
DIMENSIONI ALBERO CAVO PER RIDUTTORI SERIE K
HOLLOW SHAFT DİMENSİONS FOR K SERİES GEARBOXES
HOHLWELLEABMESSUNGEN VON K SERIE GETRIEBEN



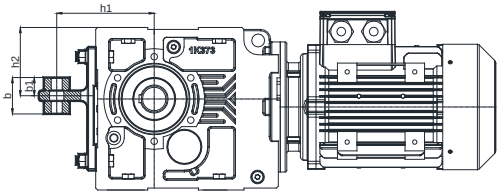
Tipo *Type* Typ	d	d1	d2	l	l1	l2	l3	l4	u1	t	u
K.00..	20	21	21	115	100	40	35	40	1.1	6	22.8
K.10..	30	31	31.4	120	105	45	30	45	1.3	8	33.3
K.20..	35	36	36.4	140	120	55	30	55	1.6	8	38.3
K.27..	35	36	37	157	132	60	37	60	1.6	10	38.3
K.37..	40	41	42.5	185	156	70	45	70	1.85	12	43.3
K.47..	50	51	53	215	183	82	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

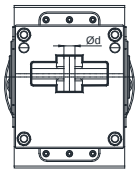
K.27.. - K.87.. DETTAGLI DI ASSEMBLAGGIO BRACCIO DI TORSIONE
K.27.. - K.87.. TORQUE ARM ASSEMBLY DETAILS
K.27.. - K.87.. DREHMOMENTSTÜTZE MONTAGE ZEİCHNUNGEN



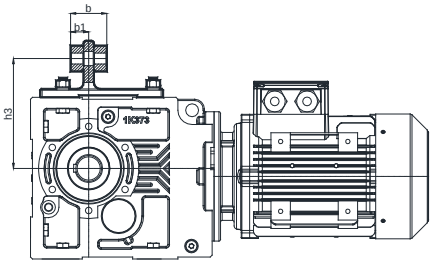


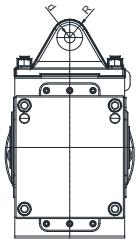
Std





T1

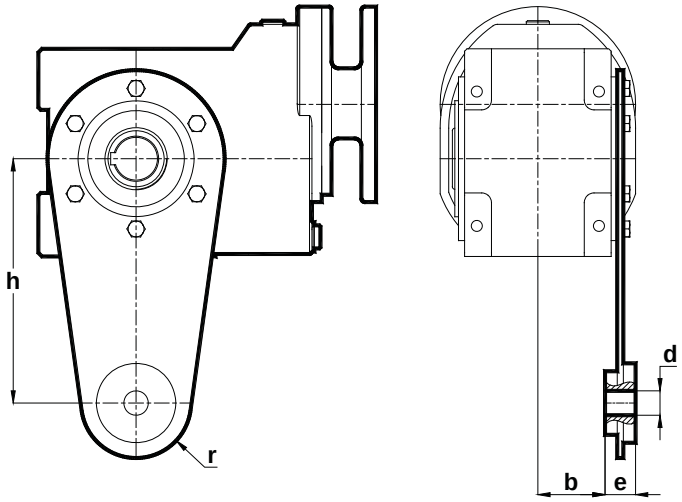




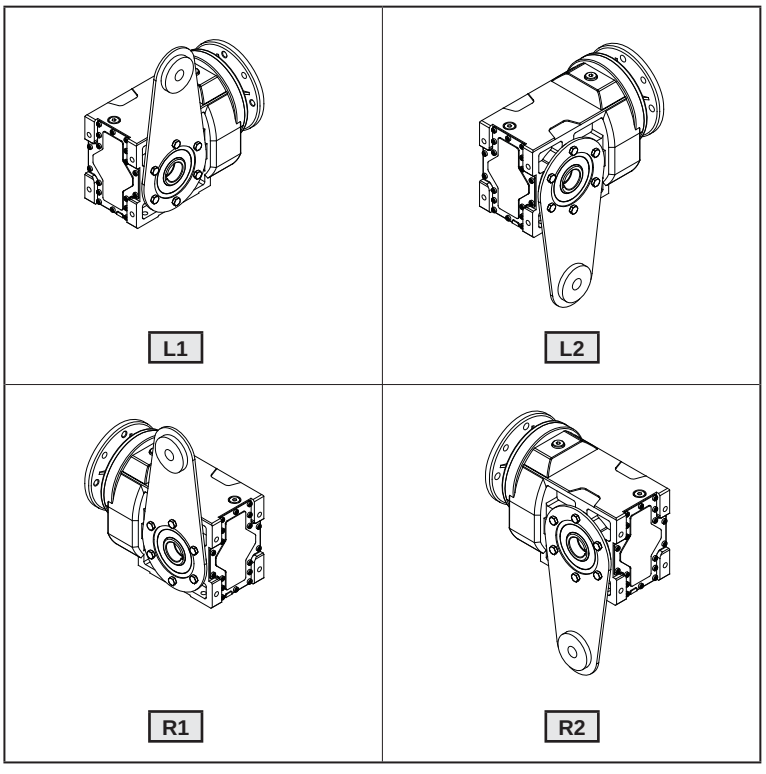
T2

					Std	T1		T2
	b	**b1**	**d**	**R**	**h**	**h1**	**h2**	**h3**
KR273.10	56	28	17	22,5	160	119	73	141
KR373.10	74	37	22	27,5	200	150	105	170
KR473.10	78	39	22	27,5	250	182	155	210
KR573.10	105	52,5	26	42,5	300	220	180	251
KR673.10	110	55	26	42,5	350	245	200	260
KR773.10	155	77,5	32	50	450	335	260	360
KR873.10	160	80	32	55	550	400	263	410

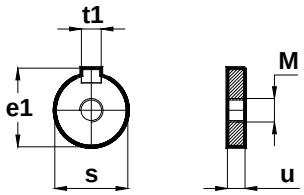
K.00.. - K.20.. DETTAGLI DI ASSEMBLAGGIO BRACCIO DI TORSIONE
K.00.. - K.20.. TORQUE ARM ASSEMBLY DETAILS
K.00.. - K.20.. DREHMOMENTSTÜTZE MONTAGE ZEİCHNUNGEN

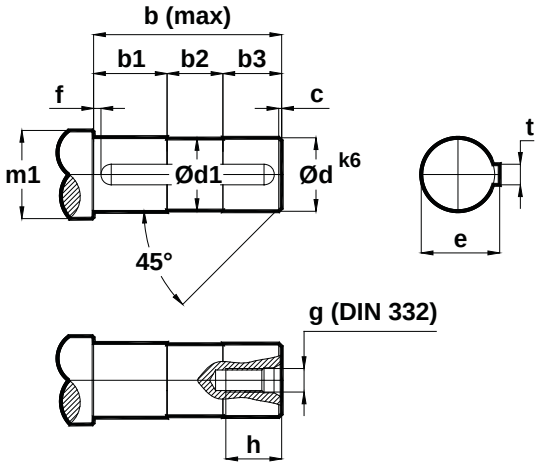


Tipo *Type* Typ	b	e	d	r	h
K.00..	47	16	10	32	100
K.10..	49.5	16	10	36	150
K.20..	54.5	25	20	45	200



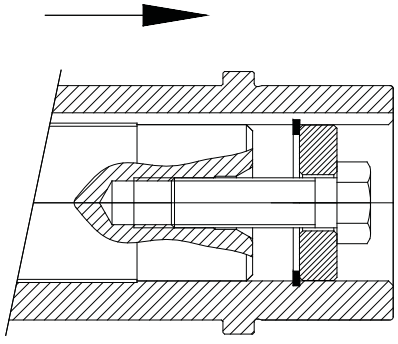
DIMENSIONI DEGLI ALBERI RACCOMANDATE E ACCESSORI USATI PER L'ASSEMBLAGGIO DEI RIDUTTORI SERIE K
ADVISED SHAFT DIMENSIONS AND ACCESSORIES USED FOR ASSEMBLING K SERIES GEARBOXES
EMPFOHLENE WELLEN MASSEN UND VERBINDUNGSELEMENTE BEI MONTAGE FÜR K SERIE GETRIEBE



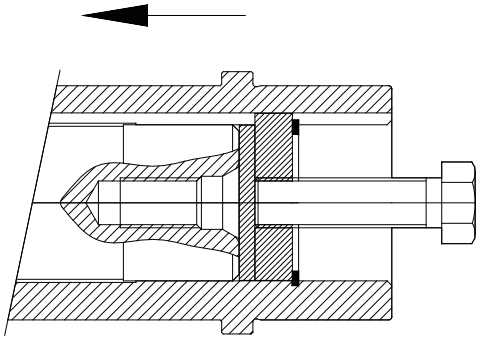


Tipo *Type* Typ	s	u	e1	t1	M	d	d1	m1	f	b	b1	b2	b3	c	g	h	e	t
K.00..	19.7	10	22	5.5	M10	20	19	24	5	86	45	25	16	0.5	M6	18	22.5	6
K.10..	29.7	10	33	7.5	M12	30	29	36		90	50	20	20	1	M10	24	33	8
K.20..	34.7	12	38	9.5	M16	35	34	43		102	60	20	22	1	M12	30	38	10
K.27..	34.7	12	38	9.5	M16	35	34	43		114	65	27	22	1	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

Montaggio albero / *Shaft Mounting* / Einziehen



Estrazione albero /*Shaft Pulling Out* / Heraus Drücken



6 Vite a testa esagonale / *6 Contour Bolt* / Sechskantschraube
(DIN ISO 4014 . DIN ISO 4017)
(DIN ISO 8765)

Note / *Notes* / Note

Note / *Notes* / Note

Note / *Notes* / Note

CTF081013 / 15

k SERIES

Bevel Helical Gearboxes

Brevini Power Transmission S.p.A.
42124 Reggio Emilia, Via Luciano Brevini, 1
www.brevini.com