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the modular gearmotor

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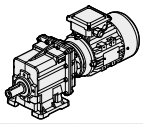
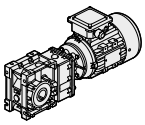
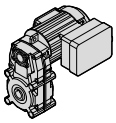
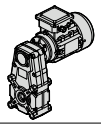
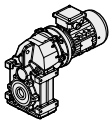
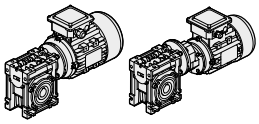
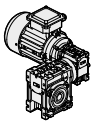
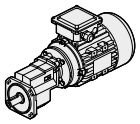
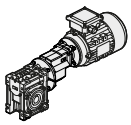
ENERGY SAVING	 B	Motoriduttori ad ingranaggi cilindrici CMG	Helical in-line gearmotors CMG	B1
ENERGY SAVING	 C	Motoriduttori ad assi ortogonali CMB	Helical bevel gearmotors CMB	C1
ENERGY SAVING	 D	Motoriduttori pendolari KFT105	Helical parallel gearmotors KFT105	D1
ENERGY SAVING	 E	Motoriduttori pendolari FT	Helical parallel gearmotors FT	E1
ENERGY SAVING	 F	Motoriduttori pendolari ATS	Helical parallel gearmotors ATS	F1
	G	Motoriduttori a vite senza fine CM/CMP	Wormgearmotors CM/CMP	G1
	H	Motoriduttori combinati a vite senza fine CMM	Double reduction wormgearmotors CMM	H1
ENERGY SAVING	 I	Motoriduttori ad ingranaggi cilindrici monostadio PU	Single stage helical gearmotors PU	I1
	 L	Motoriduttori a vite senza fine con precoppia PU CMPU	PU Pre-stage wormgearmotors CMPU	L1
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Questo catalogo annulla e sostituisce ogni precedente edizione o revisione. Ci riserviamo inoltre il diritto di apportare modifiche senza preavviso.

This catalogue supersedes any previous edition and revision. We reserve the right to implement modifications without notice.

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Generalità

Per avere una migliore comprensione degli argomenti e dei dati esposti in questo catalogo proponiamo la simbologia utilizzata corredandola delle informazioni di base per giungere ad una corretta selezione dei motoriduttori.

General information

Information in this manual is provided with symbols in order to understand the subject matter and data. These symbols are intended to aid the user in selecting the right gearmotors.

Velocità entrata — n_1 [min^{-1}] — *Input speed*

Rappresenta la velocità riferita al tipo di motorizzazione prescelta ed è applicata in entrata al riduttore.

Per selezioni a velocità diverse da quelle riportate consultare il ns. Servizio Tecnico.

This is the input speed at the gearbox related to the type of drive unit selected.

When different speeds are required, contact our Technical Service.

Rapporto di riduzione — i — *Gear ratio*

E' una grandezza adimensionale ed è in funzione del numero dei denti degli ingranaggi interni al riduttore.
Nei riduttori a vite senza fine si ottiene dividendo il numero di denti della corona per il numero dei filetti (Z) della vite senza fine.
Dai dati di catalogo si può ottenere con la relazione:

This value is strictly related to the size and number of teeth gears inside the gearbox.
This value is obtained in wormgearboxes by dividing the number of wheel teeth by the number of starts (Z) of the worm.
From the data given in the catalogue, the value can be calculated using the following formula:

$$i = \frac{n_1}{n_2}$$

Velocità in uscita — n_2 [min^{-1}] — *Output speed*

E' la velocità risultante sull' asse di uscita del riduttore e viene ricavata dalla relazione precedente:

This is the gearbox output speed calculated using the formula given above:

$$n_2 = \frac{n_1}{i}$$

I

Coppia richiesta — Mr_2 [Nm] — *Requested torque*

E' la coppia richiesta dall'applicazione ed è indispensabile per la selezione di una motorizzazione.
Essa può essere comunicata dall'utente oppure calcolata in base ai dati di applicazione (se forniti).

This is the torque needed for the application and must be known when selecting a drive system. It can either be provided by the user or calculated according to the application data (if provided).

Coppia nominale — Mn_2 [Nm] — *Nominal torque*

Rappresenta la coppia in uscita trasmissibile dal riduttore in base alla velocità in entrata n_1 e al rapporto di riduzione i.
Essa è calcolata in base ad un servizio con carico continuo uniforme corrispondente ad un fattore di servizio uguale a 1.
Questo valore non è riportato nel presente catalogo ma può essere ricavato approssimativamente con la seguente relazione fra M_2 (coppia trasmessa) e sf (fattore di servizio):

This is the output torque that can be transmitted by the gearbox according to input speed n_1 and gear ratio i. It is calculated based on service with a continuous steady load corresponding to a service factor equal to 1. This value is not given in the catalogue but can be calculated approximately with the following formula between M_2 (output torque) and sf (service factor):

$$Mn_2 = M_2 \cdot sf$$

Coppia Trasmessa — M_2 [Nm] — *Output torque*

E' la coppia trasmessa in uscita al riduttore.
Dipende dalla potenza P_1 del motore installato, dal numero di giri in uscita n_2 e dal rendimento dinamico Rd e può essere calcolata con la relazione:

This is the gearbox's output torque. It is strictly related to power P_1 of the motor installed, output rpm n_2 and dynamic efficiency Rd. It can be calculated with the following formula:

$$M_2 = \frac{9550 \cdot P_1 \cdot Rd}{n_2}$$

oppure: *or:*

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

dove: *where:*

$$P_2 = P_1 \cdot Rd$$

Rendimento — Rd; Rs — *Efficiency*

I calcoli delle prestazioni sono stati effettuati in base al rendimento dinamico Rd dei riduttori (valore ottimale che si raggiunge nel funzionamento a regime dopo rodaggio).

Nei riduttori combinati, il rendimento complessivo è dato dal prodotto dei rendimenti dei due riduttori, considerando però che nel secondo riduttore il rendimento dovrà essere valutato in base alla ridotta velocità in entrata ottenuta dividendo n_1 per il rapporto i del primo riduttore.

E' opportuno considerare che nei riduttori a vite senza fine si ha anche un valore di rendimento statico Rs, presente in fase di avviamento, che declassa sensibilmente la coppia risultante per cui influenza in modo determinante la scelta di motorizzazioni destinate ad applicazioni intermittenti (es. sollevamenti).

Il valore dei rendimenti dinamico e statico dei riduttori a vite senza fine sono riportati nella tabella della sez. CM/CMP.
Nei riduttori ad ingranaggi CMG, CMB e PU il rendimento medio è del 94%.

Efficiency is calculated based on dynamic efficiency Rd of the gearboxes (optimal value reached when running at normal speed after the break in period).

In combination gearboxes, overall efficiency is obtained from the combined efficiency of the two gearboxes. However, keep in mind that efficiency of the second gearbox should be determined according to the reduced input speed obtained by dividing n_1 by ratio i of the first gearbox.

It is important to remember that wormgearboxes also have static efficiency value Rs present at start-up. This value notably reduces the resulting torque. As a result, it must be taken into consideration when selecting drive systems for intermittent operations (e.g. lifting) as it is a determinant factor.

Dynamic and static efficiency of wormgearboxes are given in the table into section CM/CMP.
On helical gearboxes CMG, CMB and PU the average efficency is 94%.

Reversibilità e irreversibilità

Reversibility and irreversibility

La diretta conseguenza del rendimento (statico e dinamico) è la reversibilità del riduttore a vite senza fine che consiste nella possibilità di fare ruotare l'albero entrata tramite l'applicazione di una torsione più o meno accentuata sull'albero uscita.
L'impossibilità o la difficoltà ad effettuare l'azione sopra descritta, determina il grado di reversibilità (o irreversibilità) di un riduttore.

Reversibility of the wormgearbox is the direct consequence of efficiency (static and dynamic). This determines whether or not the input shaft can be rotated by applying a certain torque on the output shaft.
Whether or not this can be done and how difficult it actually is to do determine the degree of reversibility (or irreversibility) of a gearbox.

Questa caratteristica, molto significativa nei riduttori a vite senza fine, è influenzata da molteplici fattori quali angolo d'elica (quindi rapporto di trasmissione), lubrificazione, temperatura, finitura superficiale della vite senza fine, presenza di vibrazioni, ecc.

This feature, quite significant in wormgearboxes, is affected by numerous factors including the helix angle (therefore drive ratio), lubrication, temperature, surface finish of the worm, vibrations, etc...

In applicazioni dove sono presenti delle traslazioni è necessario garantire una elevata reversibilità onde evitare che le inerzie delle masse in movimento possano determinare punte di carico inammissibili sugli organi di trasmissione.

In applications that include translations, high reversibility must be guaranteed to prevent inertia of the moving parts from creating unacceptable load peaks on the drive parts.

In applicazioni dove è richiesto un non ritorno del carico (es. sollevamenti o nastri trasportatori inclinati) in assenza di un freno motore è necessario scegliere un riduttore caratterizzato da un elevato grado di irreversibilità.
Desideriamo comunque evidenziare che la garanzia assoluta di non ritorno è data esclusivamente dall'installazione di un motore autofrenante o di un altro dispositivo frenante esterno.

In applications that require non-return of the load (e.g. lifting or inclined conveyor belts) a gearbox with high irreversibility must be chosen when a motor-brake unit is not present.

However, we would like to point out that non-return can be totally assured only by installing a self-braking motor or other external braking device.

La tabella sottostante riporta a titolo puramente indicativo i vari gradi di reversibilità/irreversibilità nei riduttori a vite senza fine in funzione del rendimento dinamico Rd e statico Rs.

The table below is provided for reference purposes only. It contains the various degrees of reversibility/irreversibility of wormgearboxes in relation to dynamic Rd and static Rs efficiency.

Rd	Reversibilità e irreversibilità dinamica	*Dynamic reversibility and irreversibility*
> 0.6	Reversibilità dinamica	*Dynamic reversibility*
0.5 - 0.6	Reversibilità dinamica incerta	*Uncertain dynamic reversibility*
0.4 - 0.5	Buona irreversibilità dinamica	*Good dynamic irreversibility*
<0.4	Irreversibilità dinamica	*Dynamic irreversibility*
Rs	**Reversibilità e irreversibilità statica**	***Static reversibility and irreversibility***
> 0.55	Reversibilità statica	*Static reversibility*
0.5 - 0.55	Reversibilità statica incerta	*Uncertain static reversibility*
<0.5	Irreversibilità statica	*Static irreversibility*

Potenza in entrata

P_1 [kW]

Input power

E' la potenza motore applicata in entrata al riduttore e riferita alla velocità n_1.
Può essere calcolata come segue:

This is the power applied by the motor at the gearbox input in reference to speed n_1.
It can be calculated with the following formula:

$$P_1 = \frac{M_2 \cdot n_2}{9550 \cdot Rd}$$

Fattore di servizio — sf — *Service factor*

E' una grandezza adimensionale che indica il sovradimensionamento da applicare ad una determinata motorizzazione per garantire la resistenza agli urti e la durata richiesta.
Le tabelle di catalogo offrono una vasta scelta di motorizzazioni con fattori di servizio differenziati che possono soddisfare la maggior parte delle applicazioni più o meno gravose.
Per una corretta interpretazione dei valori del fattore di servizio sf riportati a fianco di ogni selezione proposta, riportiamo nelle tabelle seguenti i valori indicativi attribuiti alle classi di carico A, B, C e alla durata di funzionamento giornaliero h/d e al numero di avviamenti/ora.
Definendo la classe di carico a cui riferire l'applicazione, si ricercherà nella tabella il corrispondente valore di sf da utilizzare nella scelta della motorizzazione più idonea.

This value indicates how a certain drive system is to be over-sized in order to assure the requested service and stand up to shocks. The tables given in the catalogue offer a wide range of drive systems with different service factors able to satisfy most types of applications. To correctly understand service factor values sf given for each item, approximate values for load classes A, B and C along with the number of hours of daily operation h/d and number of start-ups/hours need to be known.
Once the load class required for the application has been determined, locate corresponding value sf to be used when selecting the most suitable drive system.

Tipo di carico	**A** - Uniforme	fa ≤ 0.3
	B - Medio	fa ≤ 3
	C - Forte	fa ≤ 10

Type of load	***A** - Uniform*	*fa ≤ 0.3*
	***B** - Moderate shocks*	*fa ≤ 3*
	***C** - Heavy shocks*	*fa ≤ 10*

$$fa = \frac{Je}{Jm}$$

- Je (kgm^2) momento d'inerzia esterno ridotto all'albero motore.
- Jm (kgm^2) momento d'inerzia motore.
  Se fa > 10 interpellare il sn. Servizio Tecnico.

$$fa = \frac{Je}{Jm}$$

- *Je (kgm^2) moment of reduced external inertia at the drive-shaft*
- *Jm (kgm^2) moment of inertia of motor.*
  If fa > 10 call our Technical Service.

A — Classe di carico / *Load class*
Carico uniforme / *Uniform load*

h/d	sf								
	n. avviamenti/ora / n. start-up/hour								
	2	**4**	**8**	**16**	**32**	**63**	**125**	**250**	**500**
4	0.8	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.2
8	1.0	1.0	1.1	1.1	1.3	1.3	1.3	1.3	1.3
16	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5
24	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8

B — Classe di carico / *Load class*
Carico con urti moderati / *Moderate shock load*

h/d	sf								
	n. avviamenti/ora / n. start-up/hour								
	2	**4**	**8**	**16**	**32**	**63**	**125**	**250**	**500**
4	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3
8	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5
16	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8
24	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.2	2.2

C — Classe di carico / *Load class*
Carico con urti forti / Heavy *shock load*

h/d	sf								
	n. avviamenti/ora / n. start-up/hour								
	2	**4**	**8**	**16**	**32**	**63**	**125**	**250**	**500**
4	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5
8	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8
16	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.2	2.2
24	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5

Esempio applicazione:

Nastro trasportatore attribuibile alla classe di carico B **(carico con urti moderati)** e previsto per una durata di funzionamento giornaliero (h/d) di **16** ore e con **8** avviamenti/ora.
Dalla tabella rileviamo **sf = 1.5**

Application example:

*Conveyor belt assigned to load class B **(moderate shock load)**, to be run **16** hours a day (h/d) with **8** start-ups/hour.*
The following value is obtained from the table
sf = 1.5

Carico radiale — $R; R_2$ [N] — *Radial load*

L'applicazione sull'albero in uscita del riduttore di pignoni, pulegge, ecc. determina delle forze radiali che debbono necessariamente essere considerate per evitare sollecitazioni eccessive con il rischio di danneggiamenti del riduttore stesso.
Il calcolo del carico radiale esterno R agente sull'albero del riduttore può essere determinato come segue:

Pinions, pulleys, etc applied on the output shaft of the gearboxes create radial forces that must be taken into consideration to avoid excessive stress risking damage to the gearbox itself.

External radial load R that acts on the gearbox shaft can be calculated as follows:

$$R = \frac{2000 \cdot M_2 \cdot kr}{d} \leq R_2$$

dove:
d [mm] diametro primitivo del pignone o della puleggia
kr coefficiente riferito al tipo di trasmissione:
kr = 1.4 ruota per catena
kr = 1.1 ingranaggio
kr = 1.5 - 2.5 puleggia per cinghia a V

where:
***d** [mm] diameter of the pinion or pulley*
***kr** coefficient in relation to type of transmission:*
***kr = 1.4** sprocket wheel*
***kr = 1.1** gear*
***kr = 1.5 - 2.5** pulley for V belts*

E' opportuno evidenziare che i valori di R_2 sono riferiti a carichi agenti sulla mezzeria dell'albero lento (considerando l'albero sporgente) per cui il confronto dovrà essere effettuato nelle medesime condizioni.

Keep in mind that values R_2 refer to loads that act on the centerline of the output shaft (considering the shaft protrudes). As a result, the value should be compared under the same conditions.

Carico assiale — $A; A_2$ [N] — *Axial load*

A volte, unitamente al carico radiale, può essere presente anche una forza A che agisce assialmente sull'albero uscita; in questo caso considerare che il carico assiale ammissibile A_2 sull'albero è da considerare:

At times, along with the radial load, force A may be present that acts axially on the output shaft. In this case, keep in mind allowable axial load A_2 that can be applied on the shaft is:

$$A_2 = R_2 \cdot 0.2$$

Nel caso in cui il valore del carico assiale A agente sull'albero risultasse superiore ad A_2 contattate il ns. Servizio Tecnico.

If axial load A that acts on the shaft is greater than A_2, contact our Technical Service.

Scelta dei motoriduttori — *Selecting the gearmotors*

Per la scelta di un motoriduttore è necessario seguire la seguente procedura.

To select the required gearmotor, perform the procedure below:

1. Per l'applicazione desiderata ricavare il fattore di servizio sf dalle tabelle a pag. A5 in base alla classe di carico, alle ore di funzionamento giornaliere e al numero di avviamenti orari.

1. *Determine the service factor sf for the desired application by referring to the charts given on page A5. This is to be done by considering the class of load, the operational hours/day and the number of start-ups/ hour.*

2. Se si conosce la potenza motore P [kW] richiesta, passare al punto 3); se è nota la coppia in uscita M richiesta è necessario calcolare la potenza motore P con le formule:

2. *If the required motor power output P is known, go to item 3); if the required output torque M is known, determine motor output P by using the following formulas:*

$$P = \frac{M \cdot n_2}{9550 \cdot Rd}$$

Motoriduttore
Gearmotor

dove Rd è il rendimento dinamico (riportato a pag. D6) e n_2 il numero di giri richiesti in uscita al motoriduttore.

where Rd stands for the dynamic efficiency (indicated on page D6) and n_2 indicates the required output rpm of the gearmotor.

3. Nelle tabelle dei dati tecnici ricercare la motorizzazione in cui sia P_1 maggiore o uguale a P e con riferimento a d una velocità n_2/n_{2max} prossima a quella desiderata, scegliere la motorizzazione in cui il fattore di servizio sf indicato risulti uguale o superiore a quello ricavato al punto 1).

3. *Use the specification chart to search for the power unit where P_1 is greater than or equal to P with a speed n_2/n_{2max} that approximates the desired one. Choose a power unit where the indicated service factor sf is equal to or greater than that calculated at point 1).*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.18						
63B4 (1400 min^{-1})	**30.0**	54	2.2	46.61	**CMG013**	**B5**
	25.3	64	1.9	55.36		**B5**
	22.1	73	1.6	63.22		**B5**
	18.6	87	1.4	75.08		**B5**

Esempio / *Example:*

Applicazione / *Application:*
Nastro trasportatore / *Conveyor belt*

P : 0.18 kW
sf : 1.5
n_2 : 23 min^{-1}

Motorizzazione scelta / *Power unit selected:*

CMG013 i = 63.22, P_1 = 0.18 kW, sf = 1.6

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.18						
63B4 (1400 min^{-1})	**187**	8	4.4	7.5	**CM040**	**B5/B14**
	140	10	3.7	10		**B5/B14**
	93	15	2.5	15		**B5/B14**
	70	19	2.1	20		**B5/B14**
	56	22	1.7	25		**B5/B14**
	47	25	1.7	30		**B5/B14**
	35	32	1.3	40		**B5/B14**
	28	39	1.0	50		**B5/B14**

Esempio / *Example:*

Applicazione / *Application:*
Nastro trasportatore / *Conveyor belt*

P : 0.17 kW
sf : 1.5
n_2 : 45 min^{-1}

Motorizzazione scelta / *Power unit selected:*

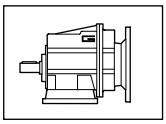
CM040 i = 30, P_1 = 0.18 kW, sf = 1.7

Lubrificazione

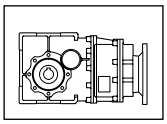
Lubrication

I motoriduttori della serie CMG, CMB, KFT105, FT, ATS, CM, CMP, CMM e PU sono forniti completi di lubrificante sintetico viscosità 320 a lunga durata, pertanto non necessitano di manutenzione.

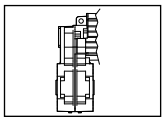
All unit sizes of CMG, CMB, KFT105, FT, ATS, CM, CMP, CMM and PU series are complete with a long life synthetic lubricant, viscosity 320 and do not require maintenance.



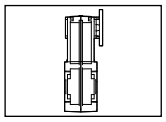
CMG



CMB



KFT105



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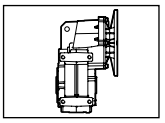
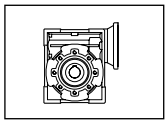
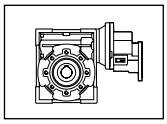


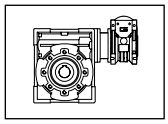
ATS



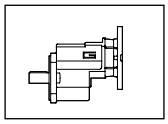
CM



CMP



CMM



PU

SHELL	AGIP	KLUBER	CASTROL	ESSO	MOBIL
Shell Omala S4 WE320	Tellium VSF320	Klubersynth GH 6 320	Alphasyn PG320	S320	Mobil Glygoyle HE 320

Nelle sezioni specifiche sono riportate le tabelle con le quantità indicative di lubrificante contenute e/o da immettere.

The tables contain the approximate amount of lubricant held and/or to be put in.

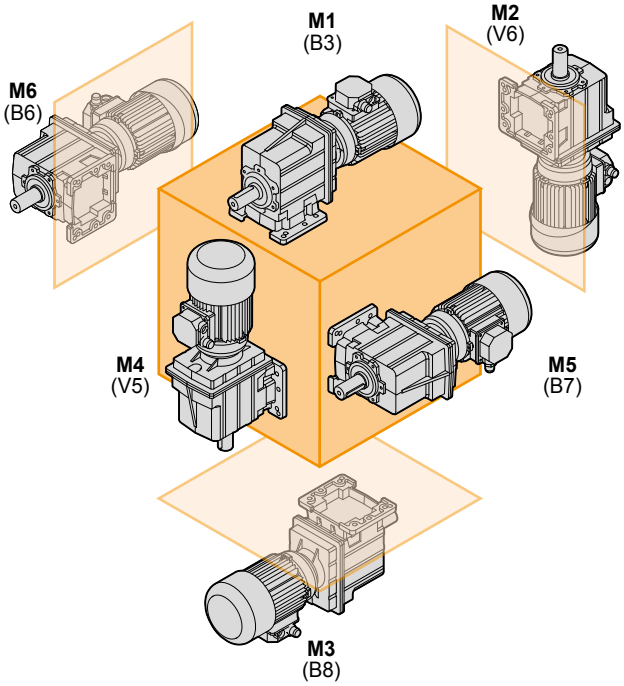
In fase di ordine è necessario specificare sempre la posizione di montaggio desiderata.

Always specify the desired installation position at the time of order.

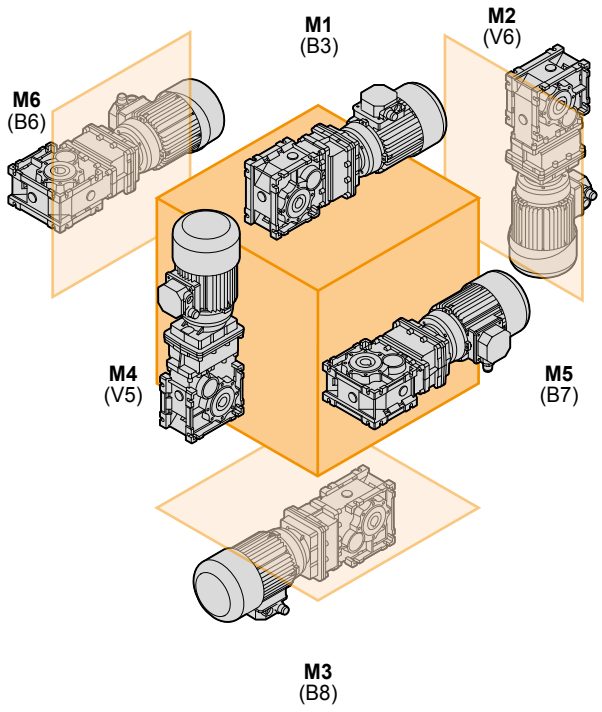
Posizioni di montaggio

Mounting positions

CMG



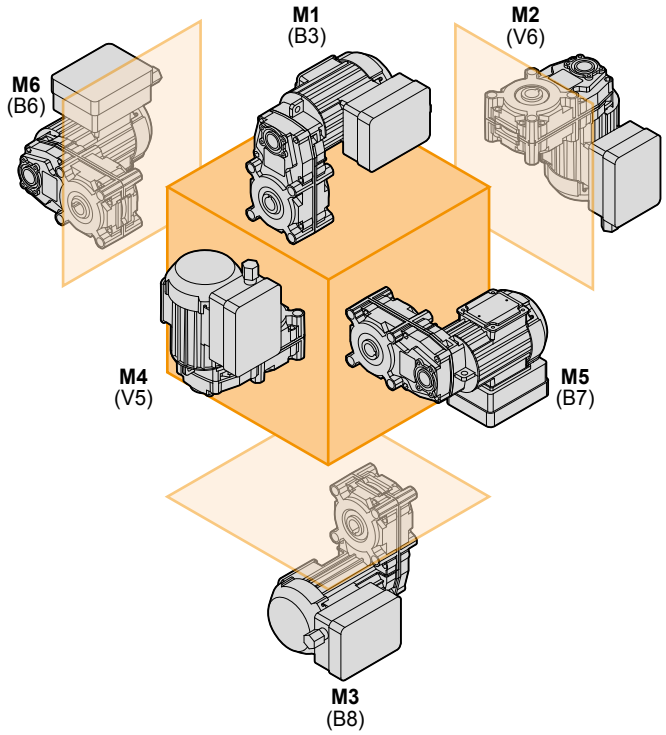
CMB



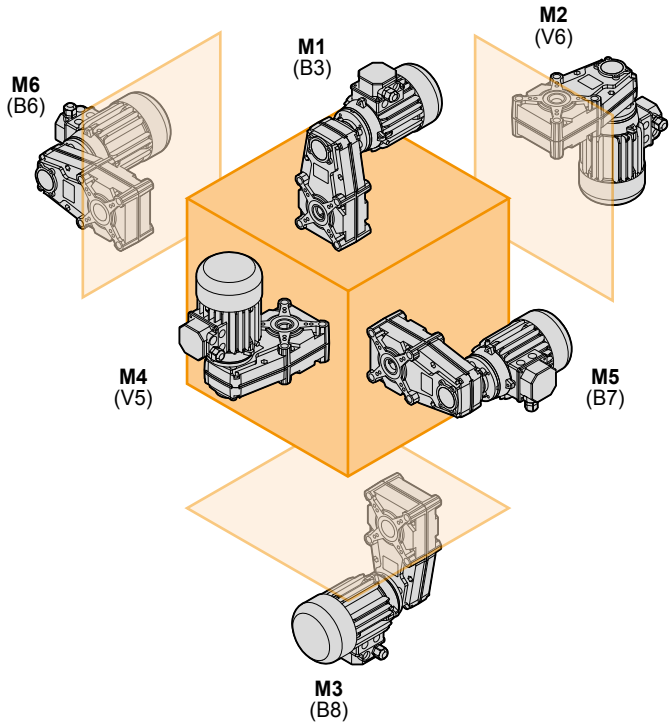
Posizioni di montaggio

Mounting positions

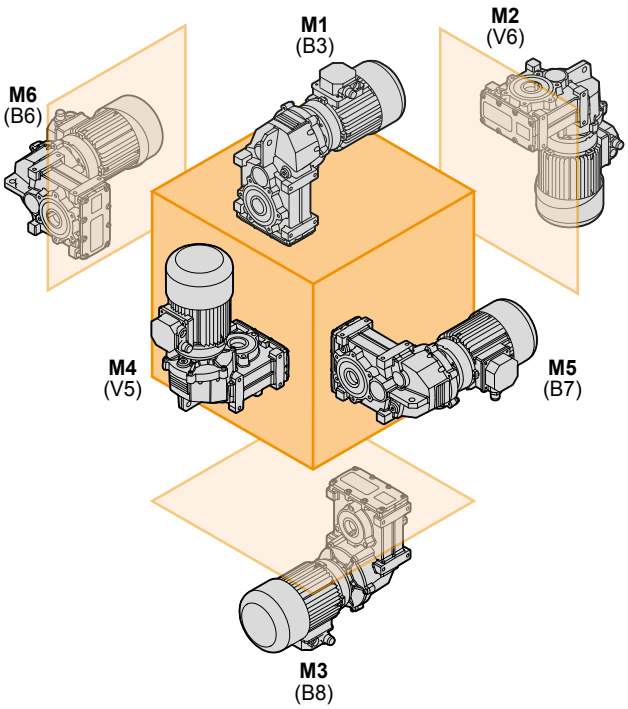
KFT 105



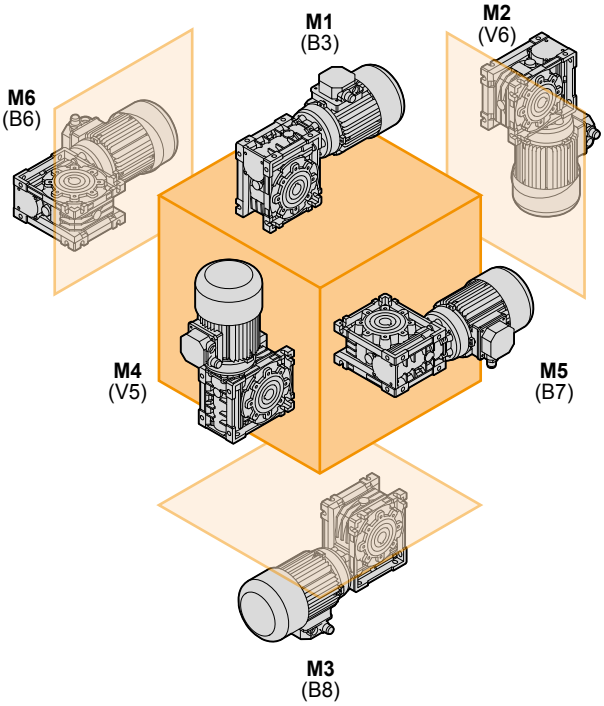
FT



ATS



CM



Temperatura di lavoro / *Operating temperature*

La temperatura ambientale influisce sulle specifiche di riduttori.

The environmental temperature affects specifications of gearboxes.

Campo di temperatura standard / *Standard temperature range*

CMG	-35°C / +50°C
CMB	-35°C / +50°C
KFT105	-35°C / +50°C
FT	-35°C / +50°C
ATS	-35°C / +50°C
CM026 - CM050	-25°C / +50°C
CM063 - CM130	-35°C / +50°C
CMP	-35°C / +50°C
PU	-35°C / +50°C

Campi di temperatura speciali / *Special temperature range*

	<-15°C	**-35°C/-25°C**	**<-35°C**	**>+50°C**
CMG			usare paraoli in silicone (VMQ) *use silicone (VMQ) oil seals* usare lubrificante per basse *temperature use low temperature lubricant*	usare paraoli in Viton (FPM) *use Viton (FPM) oil seals* usare lubrificante per alte temperature *use high temperature lubricant*
CMB				
KFT105				
FT				
ATS				
CM026 - CM050		sostituire paraolio ingresso con NBR *replace input oil seal with NBR*		
CM063 - CM110				
CM130	dimezzare i carichi radiali in uscita *halve the output radial loads*			
CMP				
PU				

Per temperature <0°C riferirsi alle seguenti note:
- verificare che il motore sia idoneo al funzionamento a bassa temperatura;
- assicurarsi che il motore possa fornire maggior coppia di avviamento a causa dell'aumento di viscosità del lubrificante;
- procedere con alcuni minuti di funzionamento a vuoto per garantire l'ottimale lubrificazione;

For temperature <0°C refer to the following notes:
- *check if the motor is suitable for low temperature;*
- *due to the high viscosity of the lubricant, check if the motor can supply high starting torque;*
- *let the group run for a few minutes without load to guarantee good lubrication;*

Installazione e verifiche

In fase di installazione del riduttore è opportuno verificare che:

- i dati riportati in targhetta corrispondano al prodotto che è stato ordinato;
- le superfici di accoppiamento e gli alberi siano accuratamente puliti e privi di ammaccature;
- le superfici su cui verrà installato il riduttore siano perfettamente piane e sufficientemente rigide;
- l'albero macchina e quello del riduttore siano correttamente allineati;
- siano stati installati sistemi di limitazione della coppia se si prevedono urti o blocchi della macchina durante il funzionamento;
- siano state predisposte le necessarie protezioni antinfortunistiche agli organi rotanti;
- siano state create delle opportune coperture a protezione dagli agenti atmosferici se l'installazione è effettuata all'aperto ed è soggetta alle intemperie;
- l'ambiente di lavoro non sia corrosivo (a meno che tale specifica non sia stata dichiarata in fase di ordine al fine di predisporre il riduttore per questo utilizzo);
- gli eventuali pignoni o pulegge montati sull'albero uscita o entrata del riduttore, siano calettati correttamente in modo tale da non generare carichi radiali e/o assiali superiori a quelli ammissibili;
- su tutti gli accoppiamenti sia stato applicato un adeguato protettivo antiossidante per prevenire eventuali ossidazioni da contatto;
- tutte le viti di fissaggio siano state serrate correttamente;
- per tutti i riduttori grandezza CM 130 verificare la corretta quantità di lubrificante in funzione della posizione di montaggio.

Installation and inspection

While installing the gearbox, always make sure that:

- *the specifications stamped on the rating plate match those indicated for the unit actually ordered;*
- *the mating surfaces and the shafts are thoroughly clean and free of dents;*
- *the surfaces where the gearbox are to be mounted on are flat and strong enough;*
- *the machine drive shaft and the gearbox shaft are perfectly aligned;*
- *the required torque limiters have been installed if the machine is likely to produce shocks or blockages during operation;*
- *the rotary parts have been provided with the required safety guards;*
- *adequate weatherproof covering has been provided if the machine is to be installed outdoor;*
- *the working environment is not exposed to corrosive agents (unless this has been indicated while placing the order so that the gearbox can be adequately set up);*
- *the pinions or pulleys on the gearbox input/output shafts are properly fitted in order not to produce radial and/or axial loads that exceed the maximum allowable limits;*
- *all the couplings have been treated with adequate rust preventative in order to avoid oxidation provoked by contact;*
- *all the mounting screws have been securely tightened;*
- *check the lubricant quantity depending on the mounting position on all gearboxes CM 130.*

Applicazioni critiche

In tutti questi casi consultare il Servizio Tecnico

- utilizzo come moltiplicatore;
- utilizzo come argano di sollevamento;
- utilizzo in posizioni non previste a catalogo;
- utilizzo in ambiente con pressione diversa da quella atmosferica;
- utilizzo in ambiente con temperature <-35°C o >+50°C

Critical applications

In these cases please contact the Technical Service

- *used to increase speed ;*
- *used as a hoist;*
- *used in mounting positions not shown in the catalogue;*
- *use in environment pressure other than atmospheric pressure;*
- *use in places with temperature <-35°C or >+50°C*

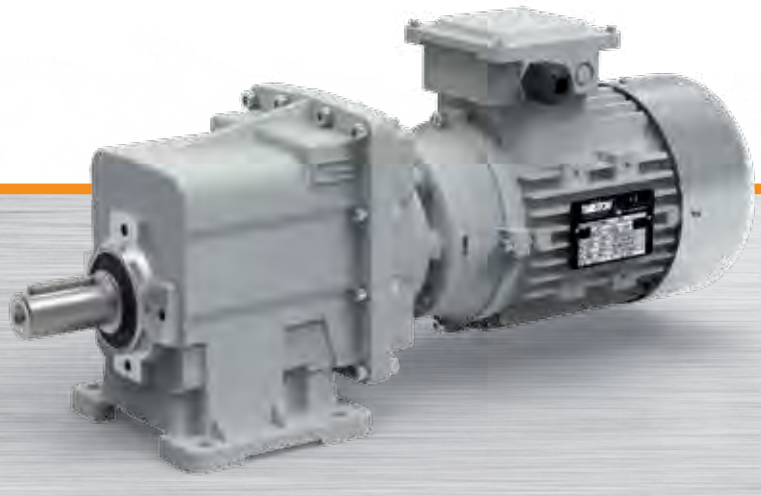
TRANSTECNO®
the modular gearmotor

CMG

CMG Alu

CMG

Motoriduttori ad ingranaggi cilindrici
Helical in-line gearmotors



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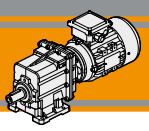

ENERGY SAVING

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Designazione	*Classification*	**B3**
Sensi di rotazione	*Direction of rotation*	**B4**
Simbologia	*Symbols*	**B4**
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Dati tecnici	*Technical data*	**B6**
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Caratteristiche tecniche

I motoriduttori ad ingranaggi cilindrici della serie CMG sono caratterizzati da un elevato grado di modularità: partendo da un corpo di base è possibile configurarlo secondo le esigenze, con flangia o piede.

Caratteristiche comuni a tutta la serie:

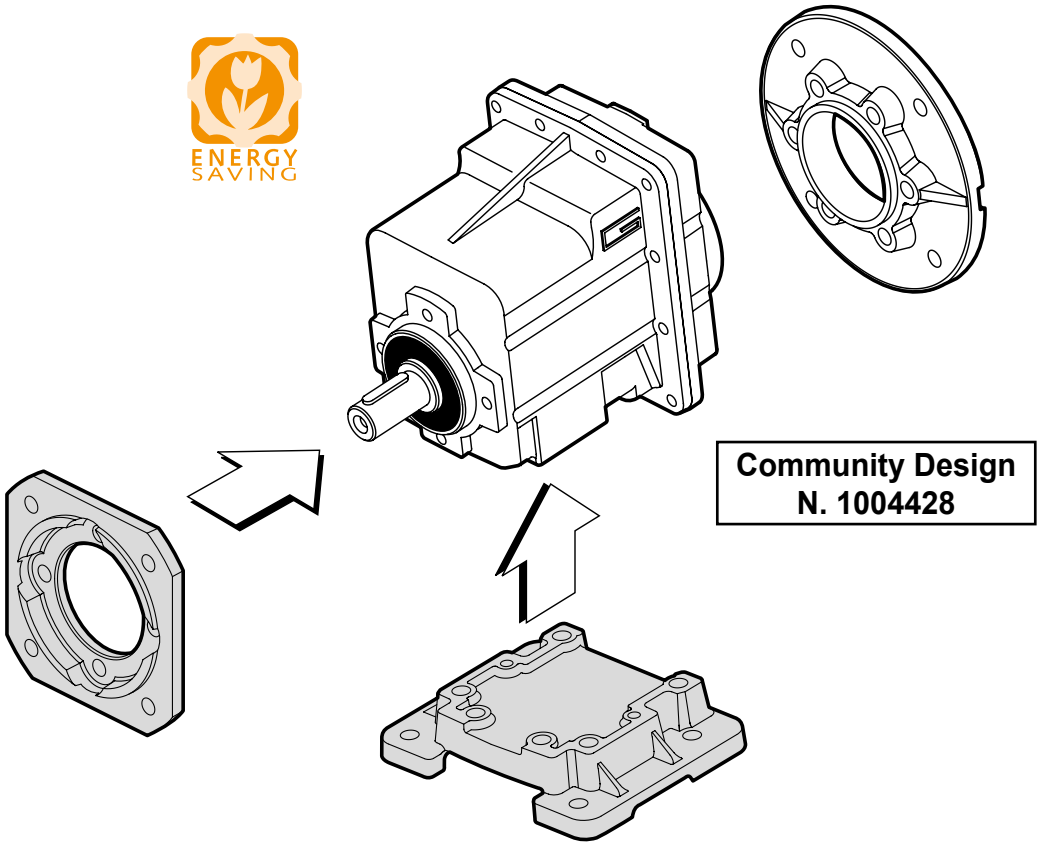
- Carcassa e flangia PAM in pressofusione di alluminio per le taglie 00, 01, 02, 03 e 04.
- Piedi e flange d'uscita in ghisa;
- Ingranaggi sempre rettificati;
- Lubrificazione permanente con olio sintetico.

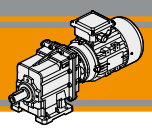
Technical features

The high degree of modularity is a design feature of CMG helical in-line gearmotors range. It is possible to set up the version required using flanges or feet.

The main features of CMG range are:

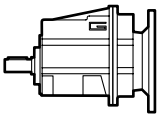
- *Die-cast aluminum housings and input flanges for sizes 00, 01, 02, 03 and 04.*
- *Cast iron feet and output flanges;*
- *Ground-hardened helical gears;*
- *Permanent synthetic oil long-life lubrication.*





Designazione — *Classification*

U



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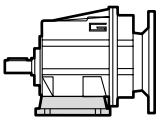

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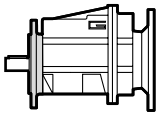
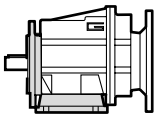


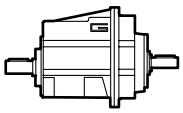
H/F



RIDUTTORE / *GEARBOX*

CMG	01	2	H65	9.81	D20	71	B14
Tipo *Type*	Grandezza *Size*	Stadi *Stages*	Versione *Version*	Rapporto *Ratio*	Albero uscita *Output shaft*	IEC	Forma costruttiva *Version*
CMG	**00** **01** **02** **03** **04**	**2** **3**	**U...** **H...** **F...** **H.../F...**	vedi tabelle *see tables*	vedi tabelle *see tables*	**56..** **—** **112..**	**B5** **B14**

U



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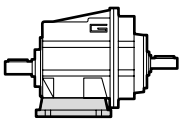

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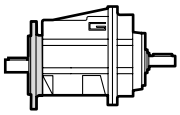
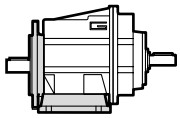


H/F



RIDUTTORE / *GEARBOX*

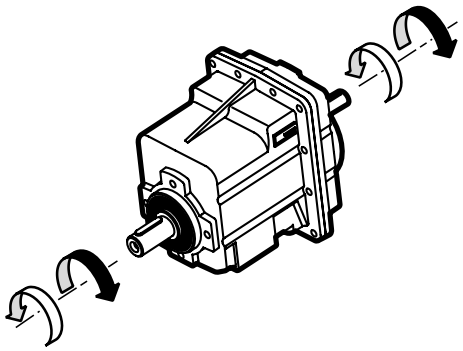
CMGIS	01	2	U	9.81	D20
Tipo *Type*	Grandezza *Size*	Stadi *Stages*	Versione *Version*	Rapporto *Ratio*	Albero uscita *Output shaft*
CMGIS	**01** **02** **03** **04**	**2** **3**	**U...** **H...** **F...** **H.../F...**	vedi tabelle *see tables*	vedi tabelle *see tables*

MOTORE / *MOTOR*

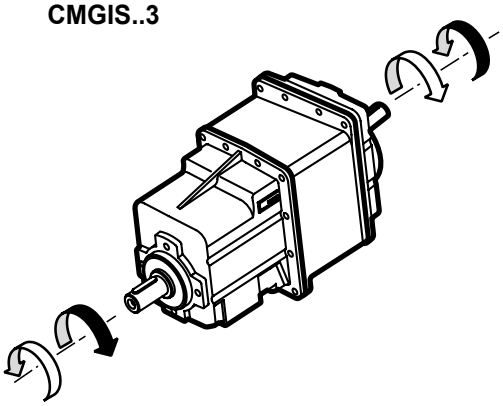
0.75kW	4p	3ph	230/400V	50Hz	T1
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*
vedi tabelle *see tables*	**2p** **4p** **6p** **8p**	**1ph** **3ph**	**230V** **230/400V**	**50Hz** **60Hz**	**T1** (Std) **T4** **T2** **T3**

Sensi di rotazione — *Direction of rotation*

CMG...2
CMGIS..2



CMG...3
CMGIS..3



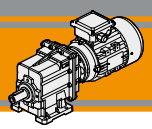
Simbologia — *Symbols*

n_1	[min^{-1}]	Velocità in ingresso / *Input speed*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*
i		Rapporto di riduzione / *Ratio*
P_1	[kW]	Potenza in entrata / *Input power*
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / *Output torque referred to* P_1
Pn_1	[kW]	Potenza nominale in entrata / *Nominal input power*
Mn_2	[Nm]	Coppia nominale in uscita in funzione di Pn_1 / *Nominal output torque referred to* Pn_1
sf		Fattore di servizio / *Service factor*
R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*

Lubrificazione — *Lubrication*

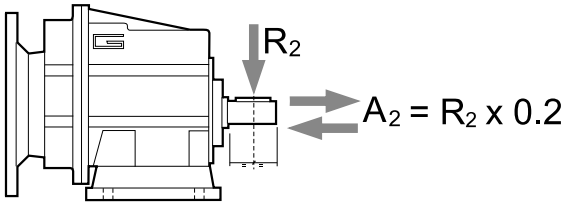
Tutti i motoriduttori nelle taglie 00, 01, 02, 03 e 04 sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use sizes 00, 01, 02, 03 and 04 in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.



Carichi radiali

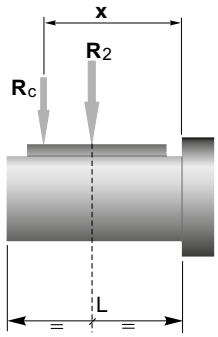
Radial loads



n_2 [min^{-1}]	R_2 [N]				
	CMG 00	CMG 01	CMG 02	CMG 03	CMG 04
700	416	764	1529	1987	2379
600	437	805	1609	2092	2504
500	465	855	1710	2223	2661
400	501	921	1842	2395	2866
250	586	1077	2154	2801	3353
180	653	1323	2554	3321	3897
150	748	1406	2714	3529	4244
120	806	1631	3467	3801	4572
100	958	1842	3684	4507	5234
80	1032	1984	3969	5042	5991
60	1136	2184	4368	5549	6594
40	1300	2500	5000	6500	8000
10	1300	2500	5000	6500	8000

Quando il carico radiale risultante non è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:



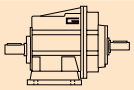
	CMG 00	CMG 01	CMG 02	CMG 03	CMG 04
a	73	104	117	132	150
b	53	84	92	102	115
R_{2MAX}	1300	2500	5000	6500	8000

$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valori riportati nella tabella
a, b = values given in the table

Dati tecnici — n_1 1400 min^{-1} — *Technical data*



	n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motori applicabili / *IEC Motor adapters*			
CMGIS 002					**56 B5/B14**	**63 B5/B14**	**71 B5/B14**	**80 B5/B14**
	279	40	1.2	5.03				
	230	40	1.0	6.10				
	187	40	0.82	7.49				
	156	50	0.85	8.99				
	138	50	0.75	10.16				
	116	50	0.63	12.07				
	105	70	0.80	13.40				
	92.5	70	0.71	15.14				
	77.1	70	0.59	18.17				
	64.9	70	0.50	21.58				
	59.6	70	0.45	23.51				
	55.8	70	0.43	25.10				*
	51.7	70	0.39	27.08				*
	43.1	70	0.33	32.49				*
	33.3	70	0.25	42.04				*
	31.2	70	0.24	44.89				*
	28.7	70	0.22	48.86				*
	25.4	70	0.19	55.10				*

N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.

N.B.
Highlighted areas indicate motor inputs available on each size of unit.

*** =** Il fattore di servizio (**sf**) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B11 alla pag. B17

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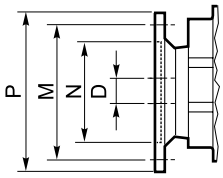
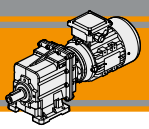
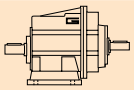
Before selecting any gearbox, please read the performance values shown in the tables on page B11 to B17.



Dimensioni IEC / *IEC Dimensions*								
	56 B5	**56 B14**	**63 B5**	**63 B14**	**71 B5**	**71 B14**	**80 B5**	**80 B14**
N	80	50	95	60	110	70	130	80
M	100	65	115	75	130	85	165	100
P	120	80	140	90	160	105	200	120
D	9		11		14		19	



Dati tecnici — n_1 1400 min^{-1} — ***Technical data***

	n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motori applicabili *IEC Motor adapters*			
CMGIS 012					**63 B5**	**71 B5/B14**	**80 B5/B14**	**90 B5/B14**
	367	60	2.4	3.82				
	302	60	2.0	4.63				
	246	60	1.6	5.69				
	181	80	1.6	7.72				
	153	80	1.3	9.17				
	143	80	1.2	9.81				
	122	100	1.3	11.50				
	118	100	1.3	11.90				
	101	120	1.3	13.80				
	95.7	120	1.3	14.62				
	78.4	120	1.0	17.86				
	73.4	120	1.0	19.07				
	70.6	120	0.92	19.83				
	59.4	120	0.78	23.56				*
	47.4	120	0.62	29.56				*
	39.5	120	0.52	35.47				*
	30.5	120	0.40	45.89			*	*
	28.6	120	0.37	49.00			*	*
	26.3	120	0.34	53.33			*	*
	23.3	120	0.30	60.15			*	*
CMGIS 013					**63 B5**	**71 B5/B14**	**80 B5/B14**	**90 B5/B14**
	22.1	120	0.30	63.22			*	*
	18.6	120	0.25	75.08			*	*
	15.7	120	0.21	89.17			*	*
	12.4	120	0.17	113.05		*	*	*
	10.4	120	0.14	134.27		*	*	*
	8.1	120	0.11	173.72		*	*	*
	6.9	120	0.09	202.16		*	*	*
	5.4	120	0.07	261.57		*	*	*
	4.6	120	0.06	304.00		*	*	*
	3.6	120	0.05	393.33		*	*	*
	3.2	120	0.04	443.59		*	*	*

N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.

N.B.
Highlighted areas indicate motor inputs available on each size of unit.

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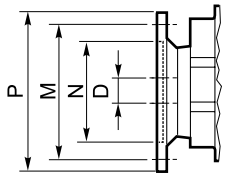
Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B11 alla pag. B17

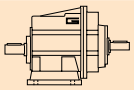
**** =** The service factor (**sf**) has to be selected depending on application: please contact our Technical Department.*

Before selecting any gearbox, please read the performance values shown in the tables on page B11 to B17.



Dimensioni IEC / *IEC Dimensions*							
	63 B5	**71 B5**	**71 B14**	**80 B5**	**80 B14**	**90 B5**	**90 B14**
N	95	110	70	130	80	130	95
M	115	130	85	165	100	165	115
P	140	160	105	200	120	200	140
D	11	14		19		24	

Dati tecnici — n_1 1400 min^{-1} — *Technical data*



n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motori applicabili *IEC Motor adapters* 63 B5	71 B5/B14	80 B5/B14	90 B5/B14
CMGIS 022							
383	100	4.2	3.66				
316	100	3.4	4.43				
257	100	2.8	5.45				
190	120	2.5	7.39				
159	120	2.1	8.78				
141	120	1.8	9.93				
127	200	2.8	11.01				
116	200	2.5	12.05				
106	200	2.3	13.21				
94.6	200	2.1	14.81				
81.9	160	1.4	17.10				
76.7	160	1.3	18.26				
69.7	200	1.5	20.08				
58.7	200	1.3	23.85				
46.8	200	1.0	29.93				
39.0	200	0.85	35.91				
30.1	200	0.66	46.46				*
28.2	200	0.62	49.61				*
25.9	200	0.57	54.00				*
23.0	200	0.50	60.90				*
CMGIS 023				63 B5	71 B5/B14	80 B5/B14	90 B5/B14
21.9	200	0.49	64.01				*
18.4	200	0.41	76.02			*	*
15.5	200	0.35	90.29			*	*
12.2	200	0.27	114.46			*	*
10.3	200	0.23	135.95			*	*
8.0	200	0.18	175.89		*	*	*
6.8	200	0.15	204.69		*	*	*
5.3	200	0.12	264.84		*	*	*
4.5	200	0.10	307.80		*	*	*
3.5	200	0.08	398. 25		*	*	*
3.1	200	0.07	449.14		*	*	*

N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.

N.B.
Highlighted areas indicate motor inputs available on each size of unit.

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Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B11 alla pag. B17

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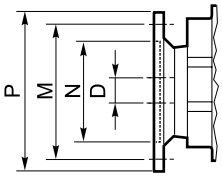
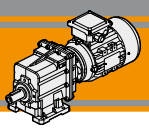
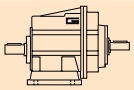


Dimensioni IEC / *IEC Dimensions*							
	63 B5	**71 B5**	**71 B14**	**80 B5**	**80 B14**	**90 B5**	**90 B14**
N	95	110	70	130	80	130	95
M	115	130	85	165	100	165	115
P	140	160	105	200	120	200	140
D	11	14		19		24	



Dati tecnici — n_1 1400 min^{-1} — ***Technical data***

	n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motori applicabili *IEC Motor adapters*				
CMGIS 032					**71 B5**	**80 B5/B14**	**90 B5/B14**	**100 B5/B14**	**112 B5/B14**
	374	150	6.1	3.74	**B**				
	311	150	5.1	4.50	**B**				
	255	150	4.2	5.48	**B**				
	222	180	4.4	6.31	**B**				
	177	180	3.5	7.93	**B**				
	154	180	3.0	9.08	**B**				*
	128	180	2.5	10.93	**B**				*
	111	250	3.0	12.60	**B**				*
	105	250	2.9	13.30	**B**				*
	91.5	280	2.8	15.30	**B**				*
	76.9	280	2.3	18.21	**B**				*
	72.8	280	2.2	19.24	**B**				*
	66.2	280	2.0	21.15	**B**				*
	56.0	300	1.8	24.99	**B**				*
	45.8	300	1.5	30.57	**B**			*	*
	40.9	300	1.3	34.20	**B**			*	*
	36.2	300	1.2	38.63	**B**			*	*
	31.7	300	1.0	44.18	**B**			*	*
	27.3	300	0.89	51.30	**B**		*	*	*
	23.0	300	0.75	60.80	**B**		*	*	*

CMGIS 033				**63 B5**	**71 B5/B14**	**80 B5/B14**	**90 B5/B14**
19.2	300	0.64	72.83				*
14.4	300	0.48	97.45				*
12.1	300	0.40	115.74			*	*
9.9	300	0.33	140.81			*	*
8.0	300	0.27	174.26			*	*
6.2	300	0.21	225.47			*	*
5.3	300	0.18	262.05		*	*	*
4.3	300	0.14	325.79		*	*	*
3.7	300	0.12	378.64		*	*	*
3.3	300	0.11	427.03		*	*	*

N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.
B = Boccola di riduzione in acciaio.

***** = Il fattore di servizio (**sf**) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B11 alla pag. B17

N.B.
Highlighted areas indicate motor inputs available on each size of unit.
***B** = Metal shaft sleeve.*

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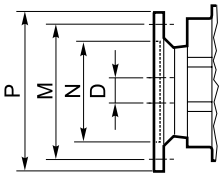
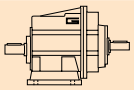


Dimensioni IEC / *IEC Dimensions*									
	63 B5	**71 B5**	**71 B14**	**80 B5**	**80 B14**	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**
N	95	110	70	130	80	130	95	180	110
M	115	130	85	165	100	165	115	215	130
P	140	160	105	200	120	200	140	250	160
D	11	14		19		24		28	

Dati tecnici — n_1 1400 min^{-1} — *Technical data*



n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motori applicabili / *IEC Motor adapters*				
CMGIS 042				**71 B5**	**80 B5/B14**	**90 B5/B14**	**100 B5/B14**	**112 B5/B14**
374	230	9.4	3.74	**B**				
311	230	7.8	4.50	**B**				
255	230	6.4	5.48	**B**				
222	260	6.3	6.31	**B**				
177	260	5.0	7.93	**B**				
154	280	4.7	9.08	**B**				
128	280	3.9	10.93	**B**				
111	350	4.2	12.60	**B**				
105	350	4.0	13.30	**B**				
91.5	420	4.2	15.30	**B**				
76.9	420	3.5	18.21	**B**				
72.8	420	3.3	19.24	**B**				
56.0	500	3.1	24.99	**B**				
45.8	500	2.5	30.57	**B**				*
40.9	500	2.2	34.20	**B**				*
36.2	500	2.0	38.63	**B**				*
31.7	500	1.7	44.18	**B**			*	*
27.3	500	1.5	51.30	**B**			*	*
23.0	480	1.2	60.80	**B**			*	*

CMGIS 043				**63 B5**	**71 B5/B14**	**80 B5/B14**	**90 B5/B14**
19.2	500	1.1	72.83				
14.4	500	0.80	97.45				*
12.1	500	0.67	115.74				*
9.9	500	0.55	140.81				*
8.0	500	0.45	174.26				*
6.2	500	0.35	225.47			*	*
5.3	500	0.30	262.05			*	*
4.3	500	0.24	325.79			*	*
3.7	500	0.21	378.64			*	*
3.3	500	0.18	427.03		*	*	*

N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.
B = Boccola di riduzione in acciaio.

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Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B11 alla pag. B17

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Highlighted areas indicate motor inputs available on each size of unit.
***B** = Metal shaft sleeve.*

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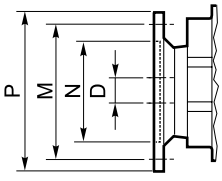
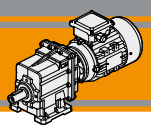


Dimensioni IEC / *IEC Dimensions*									
	63 B5	**71 B5**	**71 B14**	**80 B5**	**80 B14**	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**
N	95	110	70	130	80	130	95	180	110
M	115	130	85	165	100	165	115	215	130
P	140	160	105	200	120	200	140	250	160
D	11	14		19		24		28	



Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.06						
56A4 (1400 min^{-1})	**279**	2	20.3	5.03	**CMG002**	**B5/B14**
	230	2	16.7	6.10		**B5/B14**
	187	3	13.6	7.49		**B5/B14**
	156	4	14.2	8.99		**B5/B14**
	138	4	12.5	10.16		**B5/B14**
	116	5	10.5	12.07		**B5/B14**
	105	5	13.3	13.40		**B5/B14**
	92.5	6	11.8	15.14		**B5/B14**
	77.1	7	9.8	18.17		**B5/B14**
	64.9	8	8.3	21.58		**B5/B14**
	59.6	9	7.6	23.51		**B5/B14**
	55.8	10	7.1	25.10		**B5/B14**
	51.7	11	6.6	27.08		**B5/B14**
	43.1	13	5.5	32.49		**B5/B14**
	33.3	17	4.2	42.04		**B5/B14**
	31.2	18	4.0	44.89		**B5/B14**
	28.7	19	3.6	48.86		**B5/B14**
	25.4	22	3.2	55.10		**B5/B14**
0.09						
56B4 (1400 min^{-1})	**279**	3	13.5	5.03	**CMG002**	**B5/B14**
	230	4	11.1	6.10		**B5/B14**
	187	4	9.1	7.49		**B5/B14**
	156	5	9.4	8.99		**B5/B14**
	138	6	8.3	10.16		**B5/B14**
	116	7	7.0	12.07		**B5/B14**
	105	8	8.9	13.40		**B5/B14**
	92.5	9	7.8	15.14		**B5/B14**
	77.1	11	6.5	18.17		**B5/B14**
	64.9	13	5.5	21.58		**B5/B14**
	59.6	14	5.1	23.51		**B5/B14**
	55.8	15	4.7	25.10		**B5/B14**
	51.7	16	4.4	27.08		**B5/B14**
	43.1	19	3.7	32.49		**B5/B14**
	33.3	25	2.8	42.04		**B5/B14**
	31.2	26	2.6	44.89		**B5/B14**
	28.7	29	2.4	48.86		**B5/B14**
	25.4	32	2.2	55.10		**B5/B14**
0.12						
63A4 (1400 min^{-1})	**279**	4	10.1	5.03	**CMG002**	**B5/B14**
	230	5	8.3	6.10		**B5/B14**
	187	6	6.8	7.49		**B5/B14**
	156	7	7.1	8.99		**B5/B14**
	138	8	6.3	10.16		**B5/B14**
	116	9	5.3	12.07		**B5/B14**
	105	11	6.7	13.40		**B5/B14**
	92.5	12	5.9	15.14		**B5/B14**
	77.1	14	4.9	18.17		**B5/B14**
	64.9	17	4.1	21.58		**B5/B14**
	59.6	18	3.8	23.51		**B5/B14**
	55.8	20	3.5	25.10		**B5/B14**
	51.7	21	3.3	27.08		**B5/B14**
	43.1	26	2.7	32.49		**B5/B14**
	33.3	33	2.1	42.04		**B5/B14**
	31.2	35	2.0	44.89		**B5/B14**
	28.7	38	1.8	48.86		**B5/B14**
	25.4	43	1.6	55.10		**B5/B14**
	59.4	19	6.5	23.56	**CMG012**	**B5**
	47.4	23	5.2	29.56		**B5**
	39.5	28	4.3	35.47		**B5**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.12						
63A4 (1400 min^{-1})	**30.5**	36	3.3	45.89	**CMG012**	**B5**
	28.6	39	3.1	49.00		**B5**
	26.3	42	2.9	53.33		**B5**
	23.3	47	2.5	60.15		**B5**
	22.1	49	2.5	63.22	**CMG013**	**B5**
	18.6	58	2.1	75.08		**B5**
	15.7	69	1.7	89.17		**B5**
	12.4	87	1.4	113.05		**B5**
	10.4	103	1.2	134.27		**B5**
	8.1	134	0.9	173.72		**B5**
	6.9	156	0.8	202.16		**B5**
	5.4	171	0.7	261.57		**B5**
	4.6	171	0.7	304.00		**B5**
	3.6	171	0.7	393.33		**B5**
	3.2	171	0.7	443.59		**B5**
	21.9	49	4.1	64.01	**CMG023**	**B5**
	18.4	58	3.4	76.02		**B5**
	15.5	69	2.9	90.29		**B5**
	12.2	88	2.3	114.46		**B5**
	10.3	105	1.9	135.95		**B5**
	8.0	135	1.5	175.89		**B5**
	6.8	157	1.3	204.69		**B5**
	5.3	204	1.0	264.84		**B5**
	4.5	237	0.8	307.80		**B5**
	3.5	285	0.7	398.25		**B5**
	3.1	285	0.7	449.14		**B5**
	19.2	56	5.4	72.83	**CMG033**	**B5**
	14.4	75	4.0	97.45		**B5**
	12.1	89	3.4	115.74		**B5**
	9.9	108	2.8	140.81		**B5**
	8.0	134	2.2	174.26		**B5**
	6.2	173	1.7	225.47		**B5**
	5.3	202	1.5	262.05		**B5**
	4.3	251	1.2	325.79		**B5**
	3.7	291	1.0	378.64		**B5**
	3.3	329	0.9	427.03		**B5**
	19.2	56	8.9	72.83	**CMG043**	**B5**
	14.4	75	6.7	97.45		**B5**
	12.1	89	5.6	115.74		**B5**
	9.9	108	4.6	140.81		**B5**
	8.0	134	3.7	174.26		**B5**
	6.2	173	2.9	225.47		**B5**
	5.3	202	2.5	262.05		**B5**
	4.3	251	2.0	325.79		**B5**
	3.7	291	1.7	378.64		**B5**
	3.3	329	1.5	427.03		**B5**

N.B.
Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio

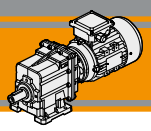
N.B.
Please check that the output torque M2 does not exceed the value in the grey areas

Dati tecnici

Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.18						
63B4 (1400 min^{-1})	**279**	6	6.8	5.03	**CMG002**	**B5/B14**
	230	7	5.6	6.10		**B5/B14**
	187	9	4.5	7.49		**B5/B14**
	156	11	4.7	8.99		**B5/B14**
	138	12	4.2	10.16		**B5/B14**
	116	14	3.5	12.07		**B5/B14**
	105	16	4.4	13.40		**B5/B14**
	92.5	18	3.9	15.14		**B5/B14**
	77.1	21	3.3	18.17		**B5/B14**
	64.9	25	2.8	21.58		**B5/B14**
	59.6	28	2.5	23.51		**B5/B14**
	55.8	30	2.4	25.10		**B5/B14**
	51.7	32	2.2	27.08		**B5/B14**
	43.1	38	1.8	32.49		**B5/B14**
	33.3	50	1.4	42.04		**B5/B14**
	31.2	53	1.3	44.89		**B5/B14**
	28.7	58	1.2	48.86		**B5/B14**
	25.4	65	1.1	55.10		**B5/B14**
	78.4	21	5.7	17.86	**CMG012**	**B5**
	73.4	22	5.3	19.07		**B5**
	70.6	23	5.1	19.83		**B5**
	59.4	28	4.3	23.56		**B5**
	47.4	35	3.4	29.56		**B5**
	39.5	42	2.9	35.47		**B5**
	30.5	54	2.2	45.89		**B5**
	28.6	58	2.1	49.00		**B5**
	26.3	63	1.9	53.33		**B5**
	23.3	71	1.7	60.15		**B5**
	22.1	73	1.6	63.22	**CMG013**	**B5**
	18.6	87	1.4	75.08		**B5**
	15.7	103	1.2	89.17		**B5**
	12.4	130	0.9	113.05		**B5**
	23.0	72	2.8	60.90	**CMG022**	**B5**
	21.9	74	2.7	64.01	**CMG023**	**B5**
	18.4	88	2.3	76.02		**B5**
	15.5	104	1.9	90.29		**B5**
	12.2	132	1.5	114.46		**B5**
	10.3	157	1.3	135.95		**B5**
	8.0	203	1.0	175.89		**B5**
	6.8	236	0.8	204.69		**B5**
	19.2	84	3.6	72.83	**CMG033**	**B5**
	14.4	112	2.7	97.45		**B5**
	12.1	134	2.2	115.74		**B5**
	9.9	163	1.8	140.81		**B5**
	8.0	201	1.5	174.26		**B5**
	6.2	260	1.2	225.47		**B5**
	5.3	302	1.0	262.05		**B5**
	19.2	84	5.9	72.83	**CMG043**	**B5**
	14.4	112	4.4	97.45		**B5**
	12.1	134	3.7	115.74		**B5**
	9.9	163	3.1	140.81		**B5**
	8.0	201	2.5	174.26		**B5**
	6.2	260	1.9	225.47		**B5**
	5.3	302	1.7	262.05		**B5**
	4.3	376	1.3	325.79		**B5**
	3.7	437	1.1	378.64		**B5**
	3.3	493	1.0	427.03		**B5**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.25						
71A4 (1400 min^{-1})	**279**	8	4.9	5.03	**CMG002**	**B5/B14**
	230	10	4.0	6.10		**B5/B14**
	187	12	3.3	7.49		**B5/B14**
	156	15	3.4	8.99		**B5/B14**
	138	17	3.0	10.16		**B5/B14**
	116	20	2.5	12.07		**B5/B14**
	105	22	3.2	13.40		**B5/B14**
	92.5	25	2.8	15.14		**B5/B14**
	77.1	30	2.4	18.17		**B5/B14**
	64.9	35	2.0	21.58		**B5/B14**
	59.6	38	1.8	23.51		**B5/B14**
	55.8	41	1.7	25.10		**B5/B14**
	51.7	44	1.6	27.08		**B5/B14**
	43.1	53	1.3	32.49		**B5/B14**
	33.3	69	1.0	42.04		**B5/B14**
	31.2	73	1.0	44.89		**B5/B14**
	28.7	80	0.9	48.86		**B5/B14**
	25.4	90	0.8	55.10		**B5/B14**
	367	6	9.6	3.82	**CMG012**	**B5/B14**
	302	8	7.9	4.63		**B5/B14**
	246	9	6.4	5.69		**B5/B14**
	181	13	6.3	7.72		**B5/B14**
	153	15	5.3	9.17		**B5/B14**
	143	16	5.0	9.81		**B5/B14**
	122	19	5.3	11.50		**B5/B14**
	118	19	5.1	11.90		**B5/B14**
	101	23	5.3	13.80		**B5/B14**
	95.7	24	5.0	14.62		**B5/B14**
	78.4	29	4.1	17.86		**B5/B14**
	73.4	31	3.8	19.07		**B5/B14**
	70.6	32	3.7	19.83		**B5/B14**
	59.4	39	3.1	23.56		**B5/B14**
	47.4	48	2.5	29.56		**B5/B14**
	39.5	58	2.1	35.47		**B5/B14**
	30.5	75	1.6	45.89		**B5/B14**
	28.6	80	1.5	49.00		**B5/B14**
	26.3	87	1.4	53.33		**B5/B14**
	23.3	98	1.2	60.15		**B5/B14**
	22.1	101	1.2	63.22	**CMG013**	**B5/B14**
	18.6	120	1.0	75.08		**B5/B14**
	15.7	143	0.8	89.17		**B5/B14**
	383	6	16.7	3.66	**CMG022**	**B5/B14**
	316	7	13.8	4.43		**B5/B14**
	257	9	11.2	5.45		**B5/B14**
	189	12	9.9	7.39		**B5/B14**
	160	14	8.4	8.78		**B5/B14**
	141	16	7.4	9.93		**B5/B14**
	127	18	11.1	11.01		**B5/B14**
	116	20	10.1	12.05		**B5/B14**
	106	22	9.2	13.21		**B5/B14**
	94.6	24	8.3	14.81		**B5/B14**
	81.9	28	5.7	17.10		**B5/B14**
	76.7	30	5.4	18.26		**B5/B14**
	69.7	33	6.1	20.08		**B5/B14**
	58.7	39	5.1	23.85		**B5/B14**
	46.8	49	4.1	29.93		**B5/B14**
	39.0	59	3.4	35.91		**B5/B14**
	30.1	76	2.6	46.46		**B5/B14**
	28.2	81	2.5	49.61		**B5/B14**
	25.9	88	2.3	54.00		**B5/B14**
	23.0	100	2.0	60.90		**B5/B14**



Dati tecnici

Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.25						
71A4 (1400 min^{-1})	**21.9**	103	1.9	64.01	**CMG023**	**B5/B14**
	18.4	122	1.6	76.02		**B5/B14**
	15.5	145	1.4	90.29		**B5/B14**
	12.2	183	1.1	114.46		**B5/B14**
	10.3	218	0.9	135.95		**B5/B14**
	31.7	72	4.1	44.18	**CMG032**	**B5**
	27.3	84	3.6	51.30		**B5**
	19.2	117	2.6	72.83	**CMG033**	**B5/B14**
	14.4	156	1.9	97.45		**B5/B14**
	12.1	186	1.6	115.74		**B5/B14**
	9.9	226	1.3	140.81		**B5/B14**
	8.0	279	1.1	174.26		**B5/B14**
	6.2	361	0.8	225.47		**B5/B14**
	19.2	117	4.3	72.83	**CMG043**	**B5/B14**
	14.4	156	3.2	97.45		**B5/B14**
	12.1	186	2.7	115.74		**B5/B14**
	9.9	226	2.2	140.81		**B5/B14**
	8.0	279	1.8	174.26		**B5/B14**
	6.2	361	1.4	225.47		**B5/B14**
	5.3	420	1.2	262.05		**B5/B14**
	4.3	522	1.0	325.79		**B5/B14**
	3.7	607	0.8	378.64		**B5/B14**
0.37						
71B4 (1400 min^{-1})	**279**	12	3.3	5.03	**CMG002**	**B5/B14**
	230	15	2.7	6.10		**B5/B14**
	187	18	2.2	7.49		**B5/B14**
	156	22	2.3	8.99		**B5/B14**
	138	25	2.0	10.16		**B5/B14**
	116	29	1.7	12.07		**B5/B14**
	105	32	2.2	13.40		**B5/B14**
	92.5	37	1.9	15.14		**B5/B14**
	77.1	44	1.6	18.17		**B5/B14**
	64.9	52	1.3	21.58		**B5/B14**
	59.6	57	1.2	23.51		**B5/B14**
	55.8	61	1.2	25.10		**B5/B14**
	51.7	66	1.1	27.08		**B5/B14**
	43.1	79	0.9	32.49		**B5/B14**
	367	9	6.5	3.82	**CMG012**	**B5/B14**
	302	11	5.3	4.63		**B5/B14**
	246	14	4.4	5.69		**B5/B14**
	181	19	4.3	7.72		**B5/B14**
	153	22	3.6	9.17		**B5/B14**
	143	24	3.4	9.81		**B5/B14**
	122	28	3.6	11.50		**B5/B14**
	118	29	3.5	11.90		**B5/B14**
	101	33	3.6	13.80		**B5/B14**
	95.7	35	3.4	14.62		**B5/B14**
	78.4	43	2.8	17.86		**B5/B14**
	73.4	46	2.6	19.07		**B5/B14**
	70.6	48	2.5	19.83		**B5/B14**
	59.4	57	2.1	23.56		**B5/B14**
	47.4	72	1.7	29.56		**B5/B14**
	39.5	86	1.4	35.47		**B5/B14**
	30.5	111	1.1	45.89		**B5/B14**
	28.6	119	1.0	49.00		**B5/B14**
	26.3	129	0.9	53.33		**B5/B14**
	23.3	146	0.8	60.15		**B5/B14**

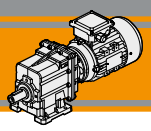
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.37						
71B4 (1400 min^{-1})	**22.1**	150	0.8	63.22	**CMG013**	**B5/B14**
	383	9	11.3	3.66	**CMG022**	**B5/B14**
	316	11	9.3	4.43		**B5/B14**
	257	13	7.6	5.45		**B5/B14**
	189	18	6.7	7.39		**B5/B14**
	160	21	5.6	8.78		**B5/B14**
	141	24	5.0	9.93		**B5/B14**
	127	27	7.5	11.01		**B5/B14**
	116	29	6.8	12.05		**B5/B14**
	106	32	6.2	13.21		**B5/B14**
	94.6	36	5.6	14.81		**B5/B14**
	81.9	41	3.9	17.10		**B5/B14**
	76.7	44	3.6	18.26		**B5/B14**
	69.7	49	4.1	20.08		**B5/B14**
	58.7	58	3.5	23.85		**B5/B14**
	46.8	73	2.8	29.93		**B5/B14**
	39.0	87	2.3	35.91		**B5/B14**
	30.1	113	1.8	46.46		**B5/B14**
	28.2	120	1.7	49.61		**B5/B14**
	25.9	131	1.5	54.00		**B5/B14**
	23.0	148	1.4	60.90		**B5/B14**
	21.9	152	1.3	64.01	**CMG023**	**B5/B14**
	18.4	180	1.1	76.02		**B5/B14**
	15.5	214	0.9	90.29		**B5/B14**
	374	9	16.5	3.74	**CMG032**	**B5**
	311	11	13.7	4.50		**B5**
	255	13	11.3	5.48		**B5**
	222	15	11.8	6.31		**B5**
	177	19	9.4	7.93		**B5**
	154	22	8.2	9.08		**B5**
	128	26	6.8	10.93		**B5**
	111	31	8.2	12.60		**B5**
	105	32	7.8	13.30		**B5**
	91.5	37	7.6	15.30		**B5**
	76.9	44	6.3	18.21		**B5**
	72.8	47	6.0	19.24		**B5**
	66.2	51	5.5	21.15		**B5**
	56.0	61	5.0	24.99		**B5**
	45.8	74	4.0	30.57		**B5**
	40.9	83	3.6	34.20		**B5**
	36.2	94	3.2	38.63		**B5**
	31.7	107	2.8	44.18		**B5**
	27.3	124	2.4	51.30		**B5**
	23.0	147	2.0	60.80		**B5**
	19.2	173	1.7	72.83	**CMG033**	**B5/B14**
	14.4	231	1.3	97.45		**B5/B14**
	12.1	275	1.1	115.74		**B5/B14**
	9.9	334	0.9	140.81		**B5/B14**
	19.2	173	2.9	72.83	**CMG043**	**B5/B14**
	14.4	231	2.2	97.45		**B5/B14**
	12.1	275	1.8	115.74		**B5/B14**
	9.9	334	1.5	140.81		**B5/B14**
	8.0	413	1.2	174.26		**B5/B14**
	6.2	535	0.9	225.47		**B5/B14**

Dati tecnici

Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.55						
80A4 (1400 min^{-1})	**279**	18	2.2	5.03	**CMG002**	**B5/B14**
	230	22	1.8	6.10		**B5/B14**
	187	27	1.5	7.49		**B5/B14**
	156	32	1.5	8.99		**B5/B14**
	138	37	1.4	10.16		**B5/B14**
	116	43	1.2	12.07		**B5/B14**
	105	48	1.5	13.40		**B5/B14**
	92.5	55	1.3	15.14		**B5/B14**
	77.1	65	1.1	18.17		**B5/B14**
	64.9	78	0.9	21.58		**B5/B14**
	59.6	85	0.8	23.51		**B5/B14**
	23.0	219	0.9	60.90		**B5/B14**
	367	14	4.4	3.82	**CMG012**	**B5/B14**
	302	17	3.6	4.63		**B5/B14**
	246	20	2.9	5.69		**B5/B14**
	181	28	2.9	7.72		**B5/B14**
	153	33	2.4	9.17		**B5/B14**
	143	35	2.3	9.81		**B5/B14**
	122	41	2.4	11.50		**B5/B14**
	118	43	2.3	11.90		**B5/B14**
	101	50	2.4	13.80		**B5/B14**
	95.7	53	2.3	14.62		**B5/B14**
	78.4	64	1.9	17.86		**B5/B14**
	73.4	69	1.7	19.07		**B5/B14**
	70.6	71	1.7	19.83		**B5/B14**
	59.4	85	1.4	23.56		**B5/B14**
	47.4	106	1.1	29.56		**B5/B14**
	39.5	128	0.9	35.47		**B5/B14**
	383	13	7.6	3.66	**CMG022**	**B5/B14**
	316	16	6.3	4.43		**B5/B14**
	257	20	5.1	5.45		**B5/B14**
	189	27	4.5	7.39		**B5/B14**
	160	32	3.8	8.78		**B5/B14**
	141	36	3.4	9.93		**B5/B14**
	127	40	5.0	11.01		**B5/B14**
	116	43	4.6	12.05		**B5/B14**
	106	48	4.2	13.21		**B5/B14**
	94.6	53	3.8	14.81		**B5/B14**
	81.9	62	2.6	17.10		**B5/B14**
	76.7	66	2.4	18.26		**B5/B14**
	69.7	72	2.8	20.08		**B5/B14**
	58.7	86	2.3	23.85		**B5/B14**
	46.8	108	1.9	29.93		**B5/B14**
	39.0	129	1.5	35.91		**B5/B14**
	30.1	167	1.2	46.46		**B5/B14**
	28.2	179	1.1	49.61		**B5/B14**
	25.9	194	1.0	54.00		**B5/B14**
	23.0	219	*0.9*	60.90		**B5/B14**
	21.9	226	*0.9*	64.01	**CMG023**	**B5/B14**
	374	13	11.1	3.74	**CMG032**	**B5/B14**
	311	16	9.2	4.50		**B5/B14**
	255	20	7.6	5.48		**B5/B14**
	222	23	7.9	6.31		**B5/B14**
	177	29	6.3	7.93		**B5/B14**
	154	33	5.5	9.08		**B5/B14**
	128	39	4.6	10.93		**B5/B14**
	111	45	5.5	12.60		**B5/B14**
	105	48	5.2	13.30		**B5/B14**
	91.5	55	5.1	15.30		**B5/B14**
	76.9	66	4.3	18.21		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.55						
80A4 (1400 min^{-1})	**72.8**	69	4.0	19.24	**CMG032**	**B5/B14**
	66.2	76	3.7	21.15		**B5/B14**
	56.0	90	3.3	24.99		**B5/B14**
	45.8	110	2.7	30.57		**B5/B14**
	40.9	123	2.4	34.20		**B5/B14**
	36.2	139	2.2	38.63		**B5/B14**
	31.7	159	1.9	44.18		**B5/B14**
	27.3	185	1.6	51.30		**B5/B14**
	23.0	219	1.4	60.80		**B5/B14**
	19.2	257	1.2	72.83	**CMG033**	**B5/B14**
	14.4	344	0.9	97.45		**B5/B14**
	23.0	219	2.2	60.80	**CMG042**	**B5/B14**
	19.2	257	1.9	72.83	**CMG043**	**B5/B14**
	14.4	344	1.5	97.45		**B5/B14**
	12.1	408	1.2	115.74		**B5/B14**
	9.9	497	1.0	140.81		**B5/B14**
	9.9	497	1.0	140.81		**B5/B14**
	8.0	615	0.8	174.26		**B5/B14**
0.75						
80B4 (1400 min^{-1})	**279**	25	1.6	5.03	**CMG002**	**B5/B14**
	230	30	1.3	6.10		**B5/B14**
	187	37	1.1	7.49		**B5/B14**
	156	44	1.1	8.99		**B5/B14**
	138	50	1.0	10.16		**B5/B14**
	116	59	0.8	12.07		**B5/B14**
	105	66	1.1	13.40		**B5/B14**
	92.5	74	0.9	15.14		**B5/B14**
	77.1	89	0.8	18.17		**B5/B14**
	367	19	3.2	3.82	**CMG012**	
	302	23	2.6	4.63		**B5/B14**
	246	28	2.1	5.69		**B5/B14**
	181	38	2.1	7.72		**B5/B14**
	153	45	1.8	9.17		**B5/B14**
	143	48	1.7	9.81		**B5/B14**
	122	56	1.8	11.50		**B5/B14**
	118	58	1.7	11.90		**B5/B14**
	101	68	1.8	13.80		**B5/B14**
	95.7	72	1.7	14.62		**B5/B14**
	78.4	88	1.4	17.86		**B5/B14**
	73.4	94	1.3	19.07		**B5/B14**
	70.6	97	1.2	19.83		**B5/B14**
	59.4	116	1.0	23.56		**B5/B14**
	383	18	5.6	3.66	**CMG022**	**B5/B14**
	316	22	4.6	4.43		**B5/B14**
	257	27	3.7	5.45		**B5/B14**
	189	36	3.3	7.39		**B5/B14**
	160	43	2.8	8.78		**B5/B14**
	141	49	2.5	9.93		**B5/B14**
	127	54	3.7	11.01		**B5/B14**
	116	59	3.4	12.05		**B5/B14**
	106	65	3.1	13.21		**B5/B14**
	94.6	73	2.8	14.81		**B5/B14**
	81.9	84	1.9	17.10		**B5/B14**
	76.7	90	1.8	18.26		**B5/B14**
	69.7	99	2.0	20.08		**B5/B14**
	58.7	117	1.7	23.85		**B5/B14**
	46.8	147	1.4	29.93		**B5/B14**
	39.0	176	1.1	35.91		**B5/B14**



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.75						
80B4 (1400 min^{-1})	**30.1**	228	0.9	46.46	**CMG022**	**B5/B14**
	28.2	244	0.8	49.61		**B5/B14**
	25.9	265	0.8	54.00		**B5/B14**
	374	18	8.2	3.74	**CMG032**	**B5/B14**
	311	22	6.8	4.50		**B5/B14**
	255	27	5.6	5.48		**B5/B14**
	222	31	5.8	6.31		**B5/B14**
	177	39	4.6	7.93		**B5/B14**
	154	45	4.0	9.08		**B5/B14**
	128	54	3.4	10.93		**B5/B14**
	111	62	4.0	12.60		**B5/B14**
	105	65	3.8	13.30		**B5/B14**
	91.5	75	3.7	15.30		**B5/B14**
	76.9	89	3.1	18.21		**B5/B14**
	72.8	94	3.0	19.24		**B5/B14**
	66.2	104	2.7	21.15		**B5/B14**
	56.0	123	2.4	24.99		**B5/B14**
	45.8	150	2.0	30.57		**B5/B14**
	40.9	168	1.8	34.20		**B5/B14**
	36.2	190	1.6	38.63		**B5/B14**
	31.7	217	1.4	44.18		**B5/B14**
	27.3	252	1.2	51.30		**B5/B14**
	23.0	299	1.0	60.80		**B5/B14**
	374	18	12.5	3.74	**CMG042**	**B5/B14**
	311	22	10.4	4.50		**B5/B14**
	255	27	8.5	5.48		**B5/B14**
	222	31	8.4	6.31		**B5/B14**
	177	39	6.7	7.93		**B5/B14**
	154	45	6.3	9.08		**B5/B14**
	128	54	5.2	10.93		**B5/B14**
	111	62	5.7	12.60		**B5/B14**
	105	65	5.4	13.30		**B5/B14**
	91.5	75	5.6	15.30		**B5/B14**
	76.9	89	4.7	18.21		**B5/B14**
	72.8	94	4.4	19.24		**B5/B14**
	56.0	123	4.1	24.99		**B5/B14**
	45.8	150	3.3	30.57		**B5/B14**
	40.9	168	3.0	34.20		**B5/B14**
	36.2	190	2.6	38.63		**B5/B14**
	31.7	217	2.3	44.18		**B5/B14**
	27.3	252	2.0	51.30		**B5/B14**
	23.0	299	1.6	60.80		**B5/B14**
	19.2	350	1.4	72.83	**CMG043**	**B5/B14**
	14.4	469	1.1	97.45		**B5/B14**
	12.1	557	0.9	115.74		**B5/B14**
1.1						
90S4 (1400 min^{-1})	**367**	28	2.2	3.82	**CMG012**	**B5/B14**
	302	33	1.8	4.63		**B5/B14**
	246	41	1.5	5.69		**B5/B14**
	181	56	1.4	7.72		**B5/B14**
	153	66	1.2	9.17		**B5/B14**
	143	71	1.1	9.81		**B5/B14**
	122	83	1.2	11.50		**B5/B14**
	118	86	1.2	11.90		**B5/B14**
	101	99	1.2	13.80		**B5/B14**
	95.7	105	1.1	14.62		**B5/B14**
	78	129	0.9	17.86		**B5/B14**
	73	137	0.9	19.07		**B5/B14**
	70.6	143	0.8	19.83		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.1						
90S4 (1400 min^{-1})	**383**	26	3.8	3.66	**CMG022**	**B5/B14**
	316	32	3.1	4.43		**B5/B14**
	257	39	2.5	5.45		**B5/B14**
	189	53	2.3	7.39		**B5/B14**
	160	63	1.9	8.78		**B5/B14**
	141	72	1.7	9.93		**B5/B14**
	127	79	2.5	11.01		**B5/B14**
	116	87	2.3	12.05		**B5/B14**
	106	95	2.1	13.21		**B5/B14**
	94.6	107	1.9	14.81		**B5/B14**
	81.9	123	1.3	17.10		**B5/B14**
	76.7	132	1.2	18.26		**B5/B14**
	69.7	145	1.4	20.08		**B5/B14**
	58.7	172	1.2	23.85		**B5/B14**
	46.8	216	0.9	29.93		**B5/B14**
	39.0	259	0.8	35.91		**B5/B14**
	374	27	5.6	3.74	**CMG032**	**B5/B14**
	311	32	4.6	4.50		**B5/B14**
	255	39	3.8	5.48		**B5/B14**
	222	45	4.0	6.31		**B5/B14**
	177	57	3.2	7.93		**B5/B14**
	154	65	2.8	9.08		**B5/B14**
	128	79	2.3	10.93		**B5/B14**
	111	91	2.8	12.60		**B5/B14**
	105	96	2.6	13.30		**B5/B14**
	91.5	110	2.5	15.30		**B5/B14**
	76.9	131	2.1	18.21		**B5/B14**
	72.8	139	2.0	19.24		**B5/B14**
	66.2	152	1.8	21.15		**B5/B14**
	56.0	180	1.7	24.99		**B5/B14**
	45.8	220	1.4	30.57		**B5/B14**
	40.9	246	1.2	34.20		**B5/B14**
	36.2	278	1.1	38.63		**B5/B14**
	31.7	318	0.9	44.18		**B5/B14**
	374	27	8.5	3.74	**CMG042**	**B5/B14**
	311	32	7.1	4.50		**B5/B14**
	255	39	5.8	5.48		**B5/B14**
	222	45	5.7	6.31		**B5/B14**
	177	57	4.6	7.93		**B5/B14**
	154	65	4.3	9.08		**B5/B14**
	128	79	3.6	10.93		**B5/B14**
	111	91	3.9	12.60		**B5/B14**
	105	96	3.7	13.30		**B5/B14**
	91.5	110	3.8	15.30		**B5/B14**
	76.9	131	3.2	18.21		**B5/B14**
	72.8	139	3.0	19.24		**B5/B14**
	56.0	180	2.8	24.99		**B5/B14**
	45.8	220	2.3	30.57		**B5/B14**
	40.8	247	2.0	34.30		**B5/B14**
	36.2	278	1.8	38.63		**B5/B14**
	31.7	318	1.6	44.18		**B5/B14**
	27.3	370	1.4	51.30		**B5/B14**
	23.0	438	1.1	60.80		**B5/B14**
	19.2	514	1.0	72.83	**CMG043**	**B5/B14**
1.5						
90L4 (1400 min^{-1})	**367**	38	1.6	3.82	**CMG012**	**B5/B14**
	302	45	1.3	4.63		**B5/B14**
	246	56	1.1	5.69		**B5/B14**
	181	76	1.1	7.72		**B5/B14**
	153	90	0.9	9.17		**B5/B14**

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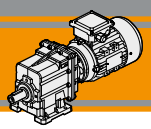
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.5						
90L4 (1400 min^{-1})	**383**	36	2.8	3.66	**CMG022**	**B5/B14**
	316	44	2.3	4.43		**B5/B14**
	257	54	1.9	5.45		**B5/B14**
	189	73	1.7	7.39		**B5/B14**
	160	86	1.4	8.78		**B5/B14**
	141	98	1.2	9.93		**B5/B14**
	127	108	1.8	11.01		**B5/B14**
	116	118	1.7	12.05		**B5/B14**
	106	130	1.5	13.21		**B5/B14**
	94.6	145	1.4	14.81		**B5/B14**
	81.9	168	1.0	17.10		**B5/B14**
	76.7	179	0.9	18.26		**B5/B14**
	69.7	197	1.0	20.08		**B5/B14**
	58.7	234	0.9	23.85		**B5/B14**
	374	37	4.1	3.74	**CMG032**	**B5/B14**
	311	44	3.4	4.50		**B5/B14**
	255	54	2.8	5.48		**B5/B14**
	222	62	2.9	6.31		**B5/B14**
	177	78	2.3	7.93		**B5/B14**
	154	89	2.0	9.08		**B5/B14**
	128	107	1.7	10.93		**B5/B14**
	111	124	2.0	12.60		**B5/B14**
	105	131	1.9	13.30		**B5/B14**
	91.5	150	1.9	15.30		**B5/B14**
	76.9	179	1.6	18.21		**B5/B14**
	72.8	189	1.5	19.24		**B5/B14**
	66.2	208	1.3	21.15		**B5/B14**
	56.0	245	1.2	24.99		**B5/B14**
	45.8	300	1.0	30.57		**B5/B14**
	40.9	336	0.9	34.20		**B5/B14**
	36.2	379	0.8	38.63		**B5/B14**
	374	37	6.3	3.74	**CMG042**	**B5/B14**
	311	44	5.2	4.50		**B5/B14**
	255	54	4.3	5.48		**B5/B14**
	222	62	4.2	6.31		**B5/B14**
	177	78	3.3	7.93		**B5/B14**
	154	89	3.1	9.08		**B5/B14**
	128	107	2.6	10.93		**B5/B14**
	111	124	2.8	12.60		**B5/B14**
	105	131	2.7	13.30		**B5/B14**
	91.5	150	2.8	15.30		**B5/B14**
	76.9	179	2.3	18.21		**B5/B14**
	72.8	189	2.2	19.24		**B5/B14**
	56.0	245	2.0	24.99		**B5/B14**
	45.8	300	1.7	30.57		**B5/B14**
	40.9	336	1.5	34.20		**B5/B14**
	36.2	379	1.3	38.63		**B5/B14**
	31.7	434	1.2	44.18		**B5/B14**
	27.3	504	1.0	51.30		**B5/B14**
1.85						
90LB4 (1400 min^{-1})	**367**	46	1.3	3.82	**CMG012**	**B5/B14**
	302	56	1.1	4.63		**B5/B14**
	383	44	2.3	3.66	**CMG022**	**B5/B14**
	316	54	1.9	4.43		**B5/B14**
	257	66	1.5	5.45		**B5/B14**
	189	90	1.3	7.39		**B5/B14**
	160	106	1.1	8.78		**B5/B14**
	141	120	1.0	9.93		**B5/B14**
	127	133	1.5	11.01		**B5/B14**
	116	146	1.4	12.05		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.85						
90LB4 (1400 min^{-1})	**106**	160	1.2	13.21	**CMG022**	**B5/B14**
	94.6	179	1.1	14.81		**B5/B14**
	81.9	207	0.8	17.10		**B5/B14**
	374	45	3.3	3.74	**CMG032**	**B5/B14**
	311	55	2.7	4.50		**B5/B14**
	255	66	2.3	5.48		**B5/B14**
	222	76	2.4	6.31		**B5/B14**
	177	96	1.9	7.93		**B5/B14**
	154	110	1.6	9.08		**B5/B14**
	128	132	1.4	10.93		**B5/B14**
	111	153	1.6	12.60		**B5/B14**
	105	161	1.6	13.30		**B5/B14**
	91.5	185	1.5	15.30		**B5/B14**
	76.9	221	1.3	18.21		**B5/B14**
	72.8	233	1.2	19.24		**B5/B14**
	66.2	256	1.1	21.15		**B5/B14**
	56.0	303	1.0	24.99		**B5/B14**
	45.8	370	0.8	30.57		**B5/B14**
	374	45	5.1	3.74	**CMG042**	**B5/B14**
	311	55	4.2	4.50		**B5/B14**
	255	66	3.5	5.48		**B5/B14**
	222	76	3.4	6.31		**B5/B14**
	177	96	2.7	7.93		**B5/B14**
	154	110	2.5	9.08		**B5/B14**
	128	132	2.1	10.93		**B5/B14**
	111	153	2.3	12.60		**B5/B14**
	105	161	2.2	13.30		**B5/B14**
	91.5	185	2.3	15.30		**B5/B14**
	76.9	221	1.9	18.21		**B5/B14**
	72.8	233	1.8	19.24		**B5/B14**
	56.0	303	1.7	24.99		**B5/B14**
	45.8	370	1.3	30.57		**B5/B14**
	40.9	414	1.2	34.20		**B5/B14**
	36.2	468	1.1	38.63		**B5/B14**
	31.7	535	0.9	44.18		**B5/B14**
	27.3	621	0.8	51.30		**B5/B14**
2.2						
100LA4 (1400 min^{-1})	**374**	54	2.8	3.74	**CMG032**	**B5/B14**
	311	65	2.3	4.50		**B5/B14**
	255	79	1.9	5.48		**B5/B14**
	222	91	2.0	6.31		**B5/B14**
	177	114	1.6	7.93		**B5/B14**
	154	131	1.4	9.08		**B5/B14**
	128	157	1.1	10.93		**B5/B14**
	111	182	1.4	12.60		**B5/B14**
	105	192	1.3	13.30		**B5/B14**
	91.5	220	1.3	15.30		**B5/B14**
	76.9	262	1.1	18.21		**B5/B14**
	72.8	277	1.0	19.24		**B5/B14**
	66.2	305	0.9	21.15		**B5/B14**
	56.0	360	0.8	24.99		**B5/B14**
	374	54	4.3	3.74	**CMG042**	**B5/B14**
	311	65	3.5	4.50		**B5/B14**
	255	79	2.9	5.48		**B5/B14**
	222	91	2.9	6.31		**B5/B14**
	177	114	2.3	7.93		**B5/B14**
	154	131	2.1	9.08		**B5/B14**
	128	157	1.8	10.93		**B5/B14**
	111	182	1.9	12.60		**B5/B14**
	105	192	1.8	13.30		**B5/B14**
	91.5	220	1.9	15.30		**B5/B14**
	76.9	262	1.6	18.21		**B5/B14**
	72.8	277	1.5	19.24		**B5/B14**



Dati tecnici

Technical data

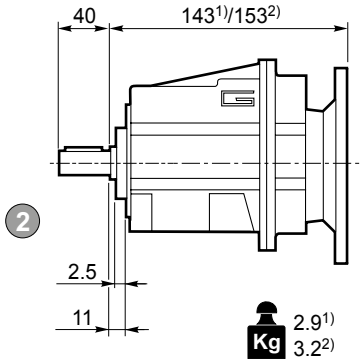
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
2.2						
100LA4 (1400 min^{-1})	**56.0**	360	1.4	24.99	**CMG042**	**B5/B14**
	45.8	440	1.1	30.57		**B5/B14**
	40.8	494	1.0	34.30		**B5/B14**
	36.2	557	0.9	38.63		**B5/B14**
3						
100LB4 (1400 min^{-1})	**374**	74	2.0	3.74	**CMG032**	**B5/B14**
	311	88	1.7	4.50		**B5/B14**
	255	108	1.4	5.48		**B5/B14**
	222	124	1.5	6.31		**B5/B14**
	177	156	1.2	7.93		**B5/B14**
	154	178	1.0	9.08		**B5/B14**
	128	215	0.8	10.93		**B5/B14**
	111	248	1.0	12.60		**B5/B14**
	105	261	1.0	13.30		**B5/B14**
	91.5	301	0.9	15.30		**B5/B14**
	374	74	3.1	3.74	**CMG042**	**B5/B14**
	311	88	2.6	4.50		**B5/B14**
	255	108	2.1	5.48		**B5/B14**
	222	124	2.1	6.31		**B5/B14**
	177	156	1.7	7.93		**B5/B14**
	154	178	1.6	9.08		**B5/B14**
	128	215	1.3	10.93		**B5/B14**
	111	248	1.4	12.60		**B5/B14**
	105	261	1.3	13.30		**B5/B14**
	92	301	1.4	15.30		**B5/B14**
	77	358	1.2	18.21		**B5/B14**
	73	378	1.1	19.24		**B5/B14**
	56	491	1.0	24.99		**B5/B14**
	46	601	0.8	30.57		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
4						
112M4 (1400 min^{-1})	**374**	98	1.5	3.74	**CMG032**	**B5/B14**
	311	118	1.3	4.50		**B5/B14**
	255	144	1.0	5.48		**B5/B14**
	222	165	1.1	6.31		**B5/B14**
	177	208	0.9	7.93		**B5/B14**
	374	98	2.3	3.74	**CMG042**	**B5/B14**
	311	118	1.9	4.50		**B5/B14**
	255	144	1.6	5.48		**B5/B14**
	222	165	1.6	6.31		**B5/B14**
	177	208	1.3	7.93		**B5/B14**
	154	238	1.2	9.08		**B5/B14**
	128	286	1.0	10.93		**B5/B14**
	111	330	1.1	12.60		**B5/B14**
	105	348	1.0	13.30		**B5/B14**
	91.5	401	1.0	15.30		**B5/B14**
	76.9	477	0.9	18.21		**B5/B14**
	72.8	504	0.8	19.24		**B5/B14**
	56.0	655	0.8	24.99		**B5/B14**

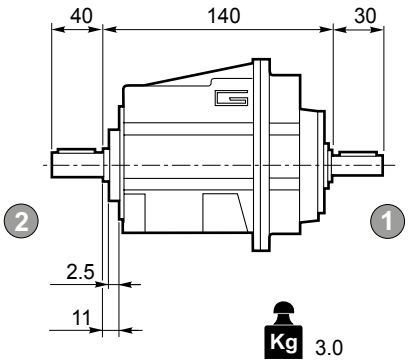
Dimensioni ***Dimensions***

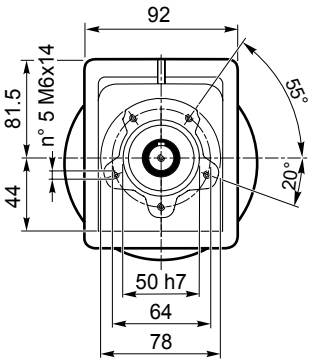
CMG 002 U

CMG 002 U



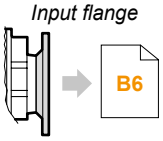
CMGIS 002 U



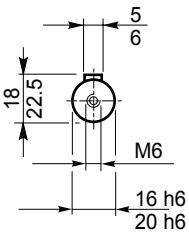


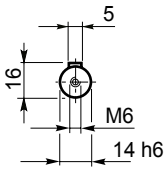
[1)]IEC 63/71, [2)]IEC 80

Flangia entrata
Input flange

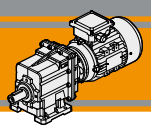


Albero uscita
Output shaft
2



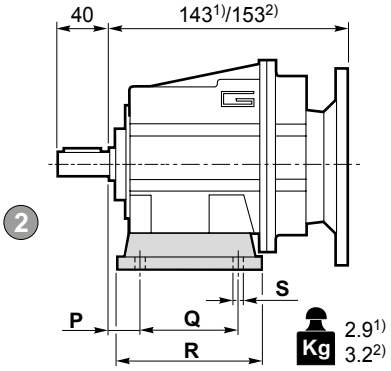


Albero entrata
Input shaft
1

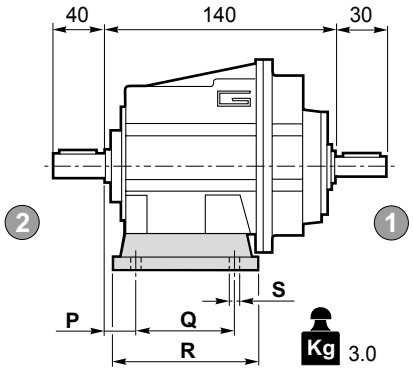


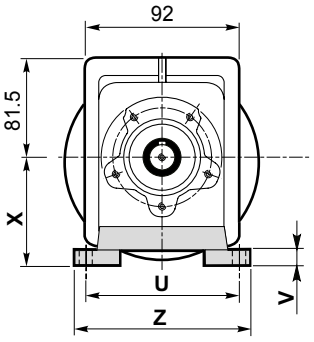
CMG 002 H..

CMG 002 H..



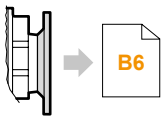
CMGIS 002 H..



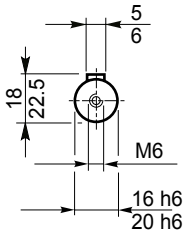


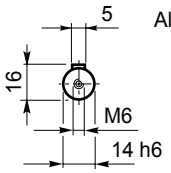
[1)]IEC 63/71, [2)]IEC 80

Flangia entrata
Input flange



Albero uscita
Output shaft
2





Albero entrata
Input shaft
1

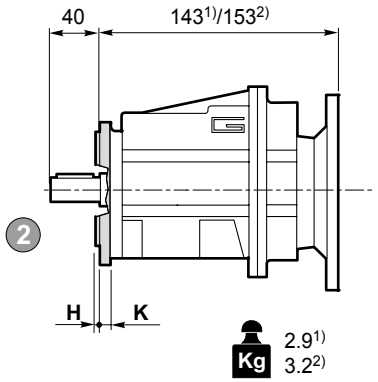
Versione **H** / ***H** Version*										
CMG CMGIS	**P**	**Q**	**R**	**S**	**U**	**V**	**X**	**Z**	**Piede / *Foot***	
									Tipo / *Type*	Peso / *Weight* [kg]
002	**18**	**60**	**80**	**9**	**100**	**10**	**60**	**120**	**H60**	**0.2**
	18	80	104	9	110 - 120	10	75	145	H75	0.3
	18	50 - 87	110	9	110	10	85	135	H85	0.4

Preferenziale / *Preferred*

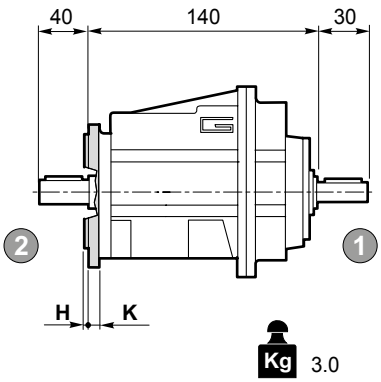
Dimensioni ***Dimensions***

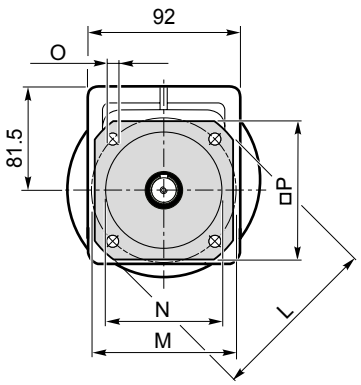
CMG 002 F..

CMG 002 F..



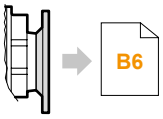
CMGIS 002 F..



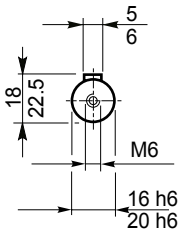


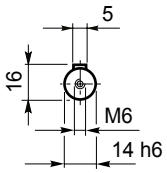
[1)]IEC 63/71, [2)]IEC 80

Flangia entrata
Input flange



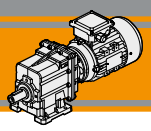
Albero uscita
Output shaft
2





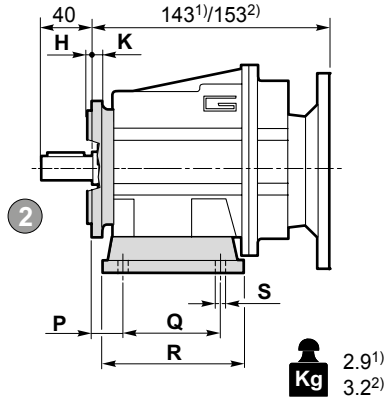
Albero entrata
Input shaft
1

Versione **F** / ***F** Version*									
CMG CMGIS	**H**	**K**	**L**	**M**	**N** f7	**O**	**P**	**Flangia / *Flange***	
								Tipo / *Type*	Peso / *Weight* [kg]
002	3.5	7	105	85	70	6.5	90	**F105**	0.1
	3.5	8	120	100	80	9	100	**F120**	0.2
	3.5	8	140	115	95	9	115	**F140**	0.2

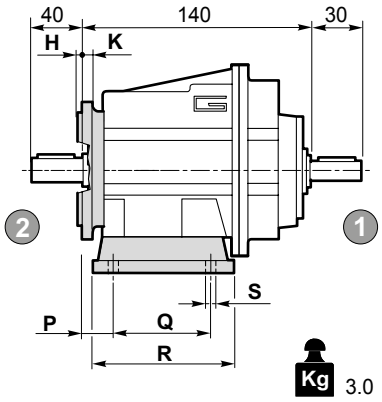


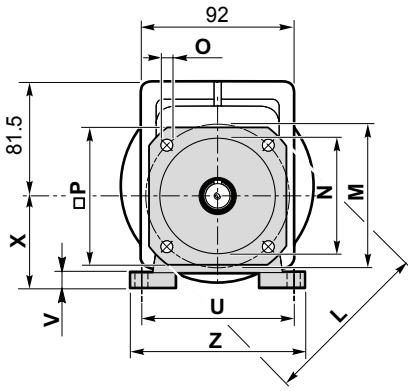
CMG 002 H../F..

CMG 002 H../F..



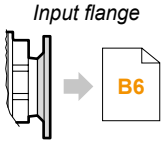
CMGIS 002 H../F..



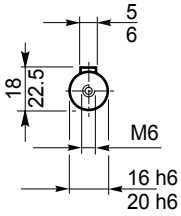


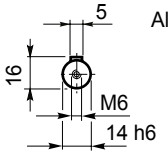
[1]IEC 63/71, [2]IEC 80

Flangia entrata
Input flange



Albero uscita
Output shaft
2





Albero entrata
Input shaft
1

Versione **H** / ***H*** *Version*											Combinazioni possibili H/F *Possible combinations H/F*		
CMG CMGIS	**P**	**Q**	**R**	**S**	**U**	**V**	**X**	**Z**	**Piede / *Foot*** Tipo *Type*	Peso / *Weight* [kg]	**F105**	**F120**	**F140**
002	**18**	**60**	**80**	**9**	**100**	**10**	**60**	**120**	**H60**	**0.2**	•	•	•
	18	80	104	9	110 - 120	10	75	145	**H75**	0.3	•	•	•
	18	50 - 87	110	9	110	10	85	135	**H85**	0.4	•	•	•

Preferenziale / *Preferred*

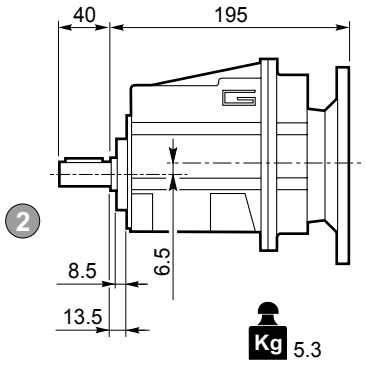
• Combinazioni possibili H/F / *Possible combinations H/F*

Versione **F** / ***F*** *Version*									
CMG CMGIS	**H**	**K**	**L**	**M**	**N** f7	**O**	**P**	**Flangia / *Flange*** Tipo / *Type*	Peso / *Weight* [kg]
002	3.5	7	105	85	70	6.5	90	**F105**	0.1
	3.5	8	120	100	80	9	100	**F120**	0.2
	3.5	8	140	115	95	9	115	**F140**	0.2

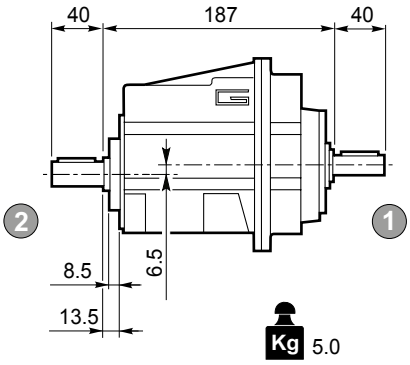
Dimensioni *Dimensions*

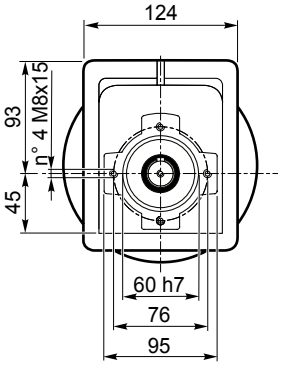
CMG 012 U - CMG 013 U

CMG 012 U

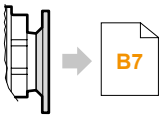


CMGIS 012 U

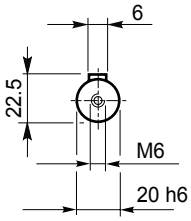


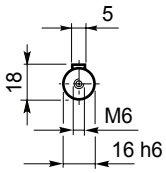


Flangia entrata
Input flange



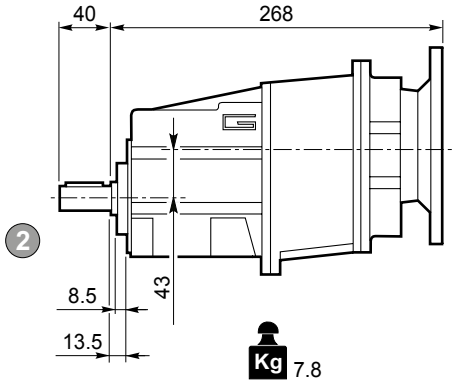
Albero uscita
Output shaft
2



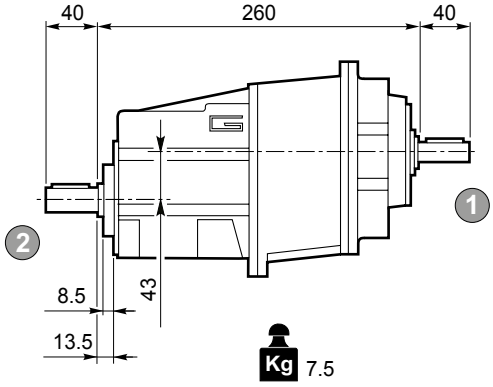


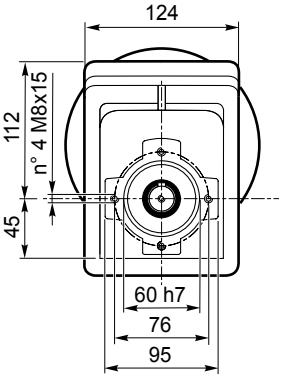
Albero entrata
Input shaft
1

CMG 013 U

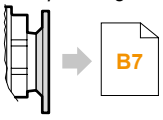


CMGIS 013 U

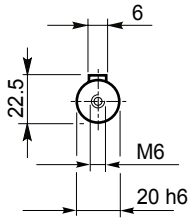


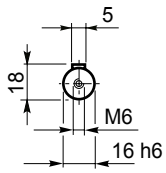


Flangia entrata
Input flange

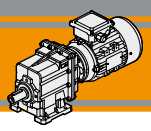


Albero uscita
Output shaft
2



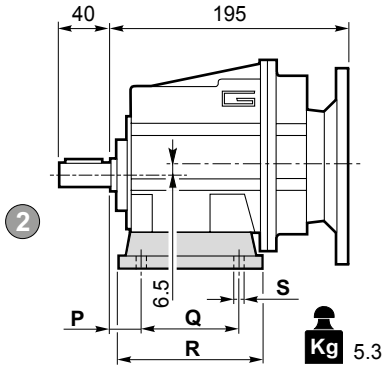


Albero entrata
Input shaft
1

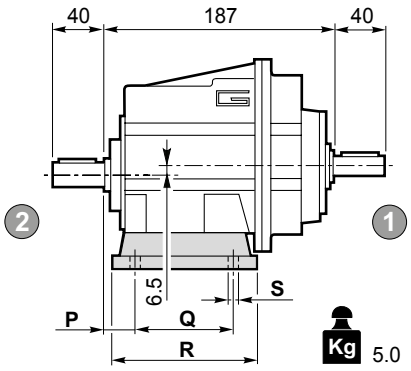


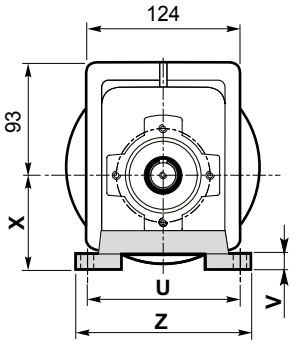
CMG 012 H.. - CMG 013 H..

CMG 012 H..

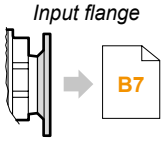


CMGIS 012 H..

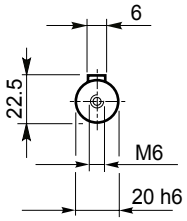


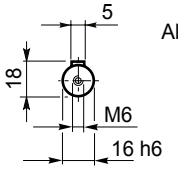


Flangia entrata
Input flange



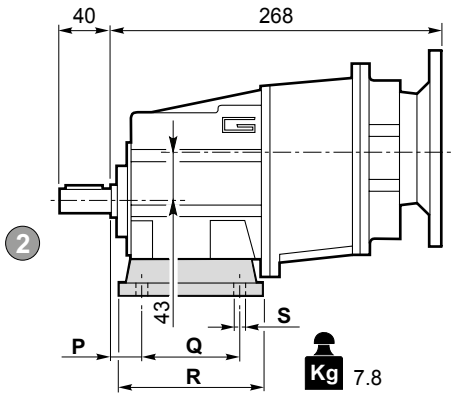
Albero uscita
Output shaft
2



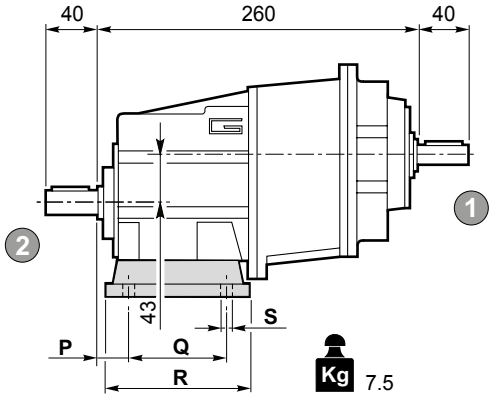


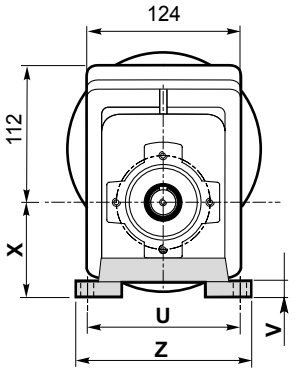
Albero entrata
Input shaft
1

CMG 013 H..

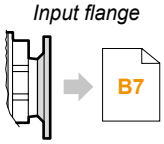


CMGIS 013 H..

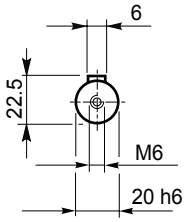


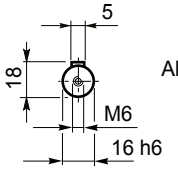


Flangia entrata
Input flange



Albero uscita
Output shaft
2





Albero entrata
Input shaft
1

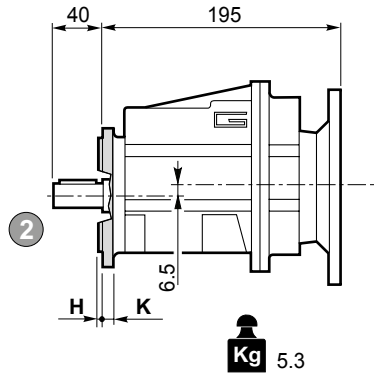
Versione **H** / ***H** Version*										
CMG CMGIS	**P**	**Q**	**R**	**S**	**U**	**V**	**X**	**Z**	**Piede / *Foot***	
									Tipo / *Type*	Peso / *Weight* [kg]
012 013	**20**	**85**	**108**	**9**	**115**	**12**	**65**	**139**	**H65**	**0.7**
	18	80	118	9	110	12	75	140	**H75**	1.0
	25	85	120	9	120	12	80	140	**H80**	1.1
	18	50 - 87	118	9	110	12	85	130	**H85**	1.2
	25	130	154	9	110	12	90	135	**H90**	1.5
	18	60 - 107.5	135	11	130	12	100	155	**H100**	1.7

Preferenziale / *Preferred*

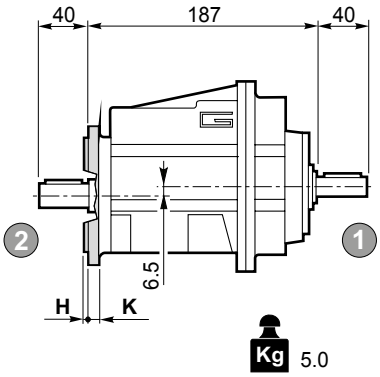
Dimensioni ***Dimensions***

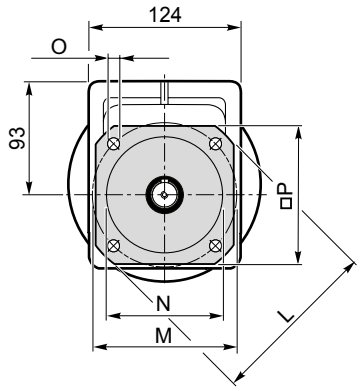
CMG 012 F.. - CMG 013 F..

CMG 012 F..

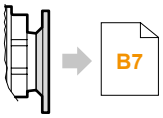


CMGIS 012 F..

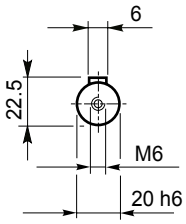


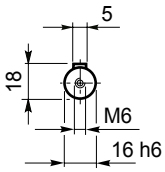


Flangia entrata
Input flange



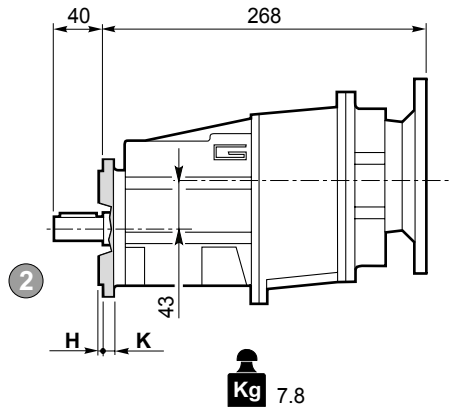
Albero uscita
Output shaft
2



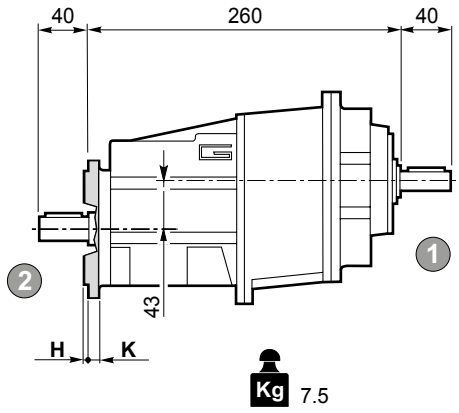


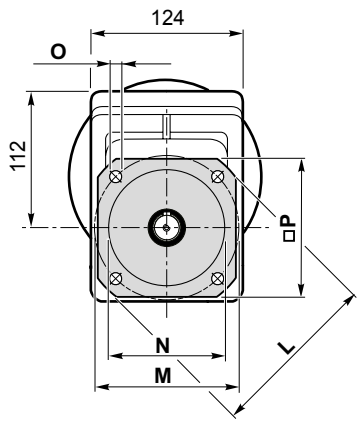
Albero entrata
Input shaft
1

CMG 013 F..

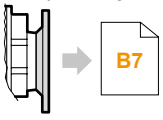


CMGIS 013 F..

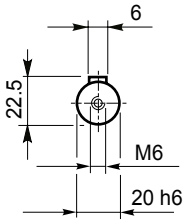


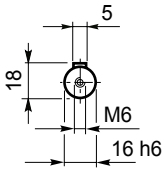


Flangia entrata
Input flange



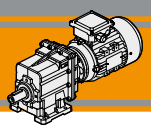
Albero uscita
Output shaft
2





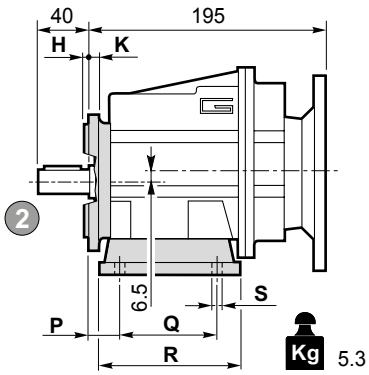
Albero entrata
Input shaft
1

Versione **F** / ***F** Version*									
CMG CMGIS	**H**	**K**	**L**	**M**	**N** f7	**O**	**P**	**Flangia / *Flange***	
								Tipo / *Type*	Peso / *Weight* [kg]
012 013	3	9	120	100	80	9	106	**F120**	0.5
	3.5	9	140	115	95	9	115	**F140**	0.8
	3.5	9	160	130	110	9	126	**F160**	1.1
	3.5	11	200	165	130	11	165	**F200**	1.8

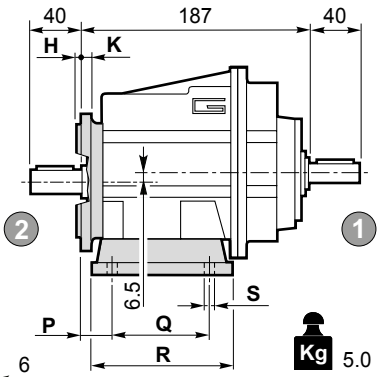


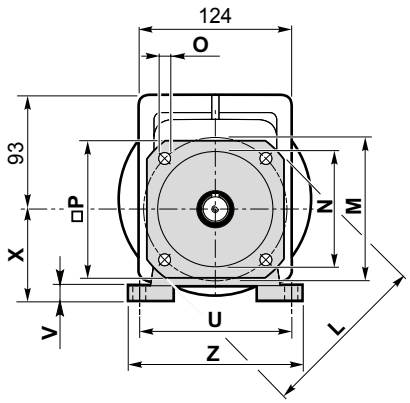
CMG 012 H../F.. - CMG 013 H../F..

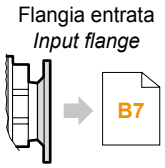
CMG 012 H../F..

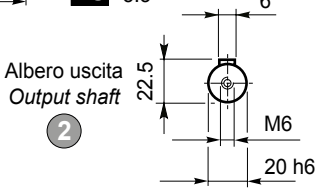


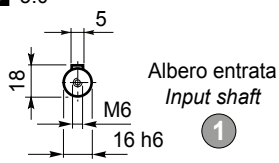
CMGIS 012 H../F..



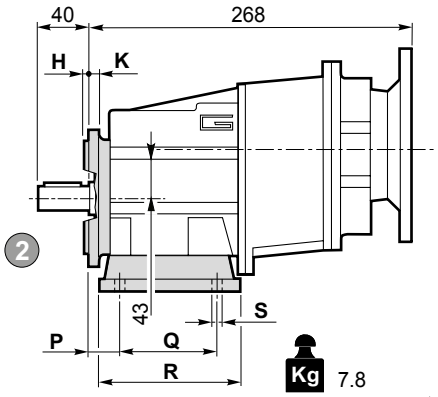




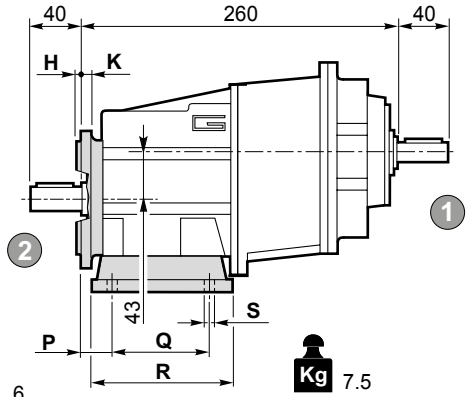


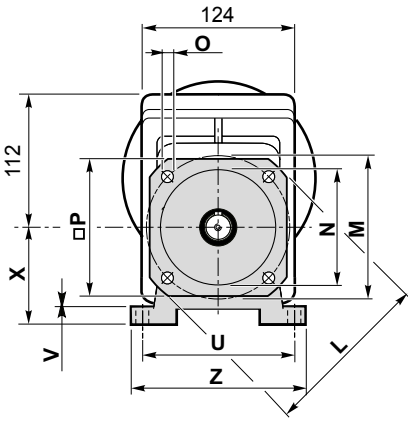


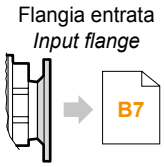
CMG 013 H../F..

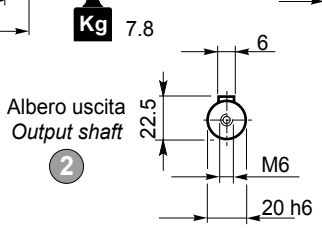


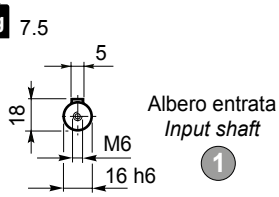
CMGIS 013 H../F..











Versione **H** / ***H*** *Version*											**Combinazioni possibili H/F** ***Possible combinations H/F***			
CMG CMGIS	**P**	**Q**	**R**	**S**	**U**	**V**	**X**	**Z**	**Piede / *Foot*** Tipo *Type*	Peso / *Weight* [kg]	**F120**	**F140**	**F160**	**F200**
012 013	**20**	**85**	**108**	**9**	**115**	**12**	**65**	**139**	**H65**	**0.7**	•	•		
	18	80	118	9	110	12	75	140	**H75**	1.0	•	•	•	
	25	85	120	9	120	12	80	140	**H80**	1.1	•	•	•	
	18	50 - 87	118	9	110	12	85	130	**H85**	1.2	•	•	•	
	25	130	154	9	110	12	90	135	**H90**	1.5	•	•	•	•
	18	60 - 107.5	135	11	130	12	100	155	**H100**	1.7	•	•	•	•

Preferenziale / *Preferred*

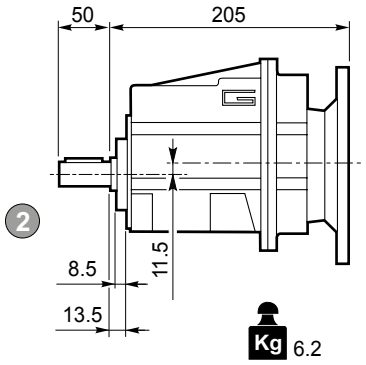
• Combinazioni possibili H/F / *Possible combinations H/F*

Versione **F** / ***F*** *Version*									
CMG CMGIS	**H**	**K**	**L**	**M**	**N** f7	**O**	**P**	**Flangia / *Flange*** Tipo / *Type*	Peso / *Weight* [kg]
012 013	3	9	120	100	80	9	106	**F120**	0.5
	3.5	9	140	115	95	9	115	**F140**	0.8
	3.5	9	160	130	110	9	126	**F160**	1.1
	3.5	11	200	165	130	11	165	**F200**	1.8

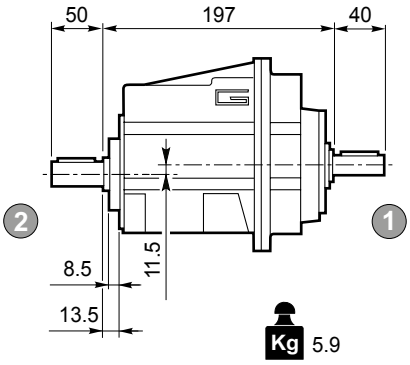
Dimensioni ***Dimensions***

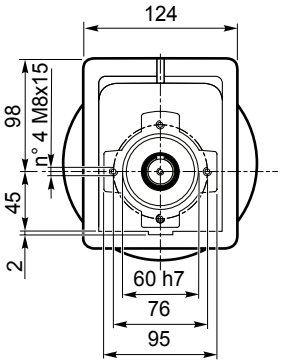
CMG 022 U - CMG 023 U

CMG 022 U

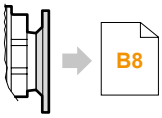


CMGIS 022 U

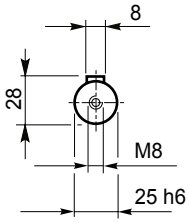


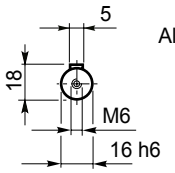


Flangia entrata
Input flange



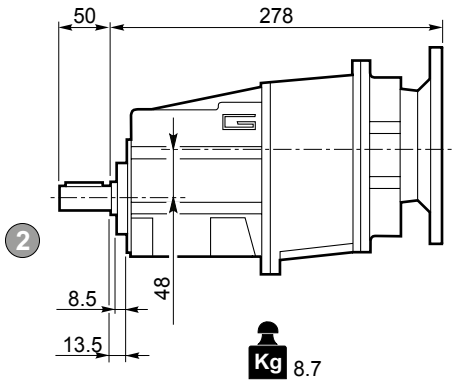
Albero uscita
Output shaft
2



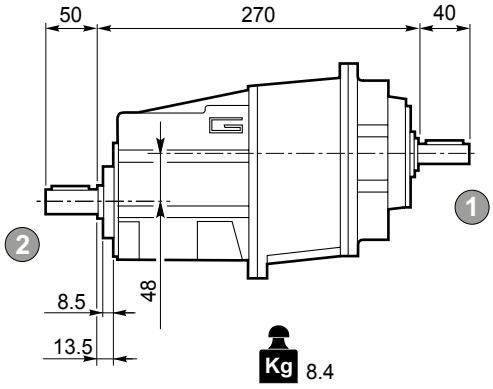


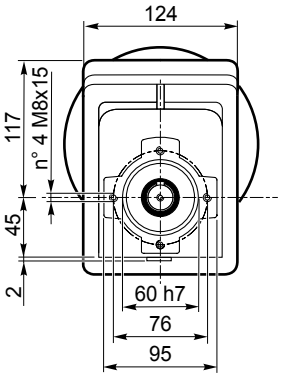
Albero entrata
Input shaft
1

CMG 023 U

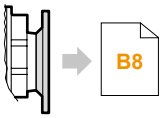


CMGIS 023 U

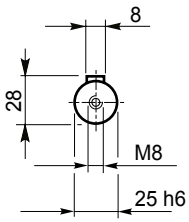


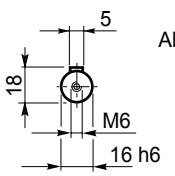


Flangia entrata
Input flange

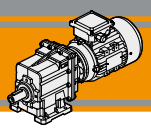


Albero uscita
Output shaft
2



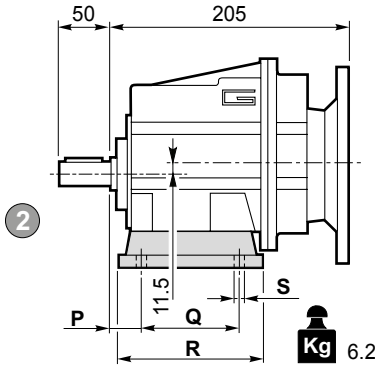


Albero entrata
Input shaft
1

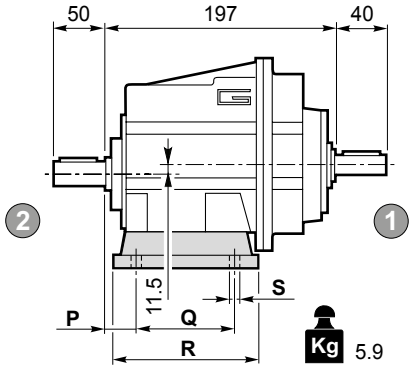


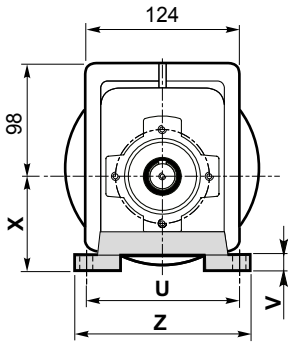
CMG 022 H.. - CMG 023 H..

CMG 022 H..

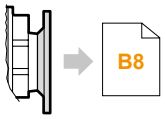


CMGIS 022 H..

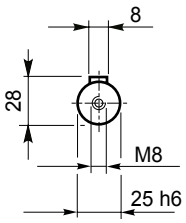


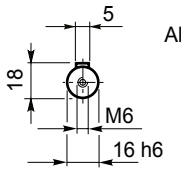


Flangia entrata
Input flange



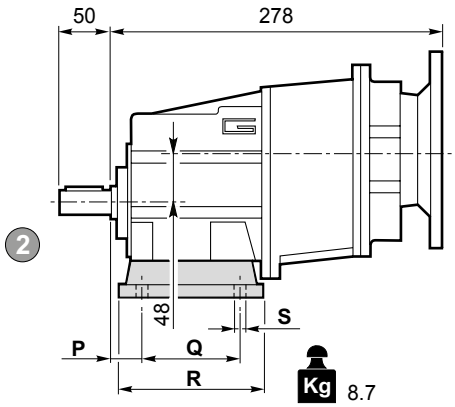
Albero uscita
Output shaft
2



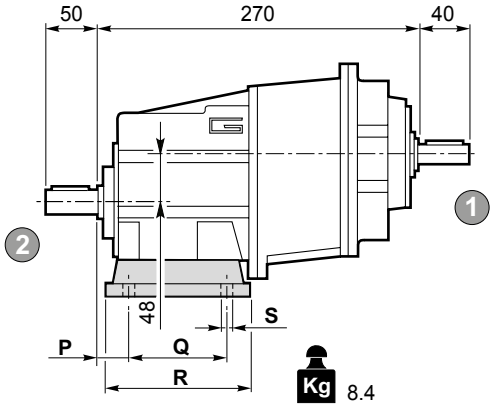


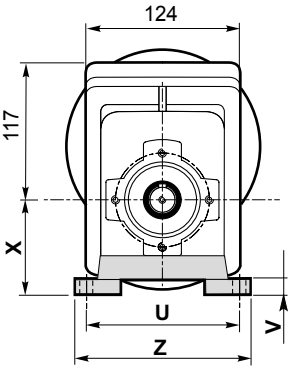
Albero entrata
Input shaft
1

CMG 023 H..

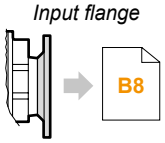


CMGIS 023 H..

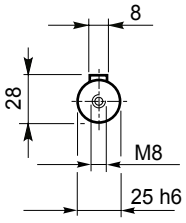


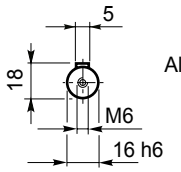


Flangia entrata
Input flange



Albero uscita
Output shaft
2





Albero entrata
Input shaft
1

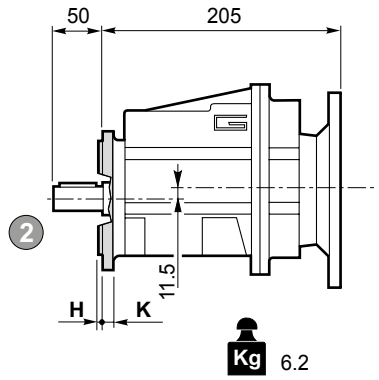
Versione **H** / ***H** Version*										
CMG CMGIS	**P**	**Q**	**R**	**S**	**U**	**V**	**X**	**Z**	**Piede / *Foot***	
									Tipo / *Type*	Peso / *Weight* [kg]
022 023	**20**	**85**	**108**	**9**	**115**	**12**	**65**	**139**	**H65**	**0.7**
	18	80	118	9	110	12	75	140	**H75**	1.0
	25	85	120	9	120	12	80	140	**H80**	1.1
	18	50 - 87	118	9	110	12	85	130	**H85**	1.2
	25	130	154	9	110	12	90	135	**H90**	1.5
	18	60 - 107.5	135	11	130	12	100	155	**H100**	1.7

Preferenziale / *Preferred*

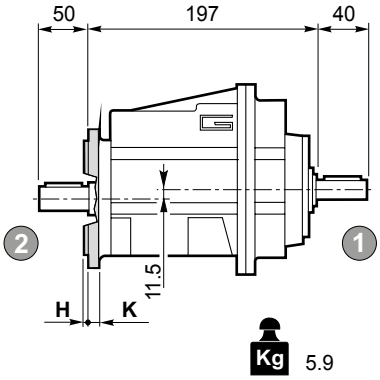
Dimensioni ***Dimensions***

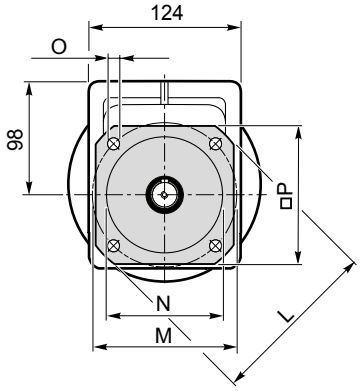
CMG 022 F.. - CMG 023 F..

CMG 022 F..

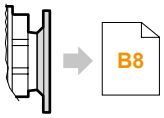


CMGIS 022 F..

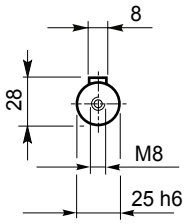


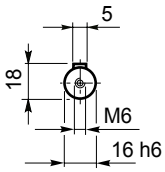


Flangia entrata
Input flange



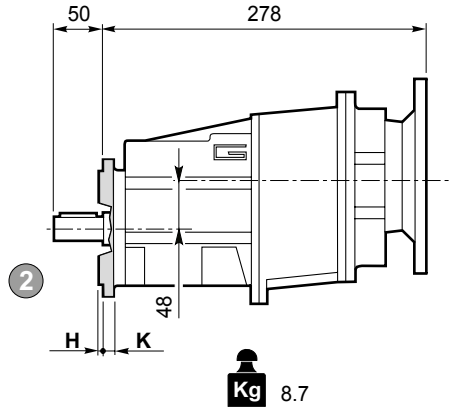
Albero uscita
Output shaft
2



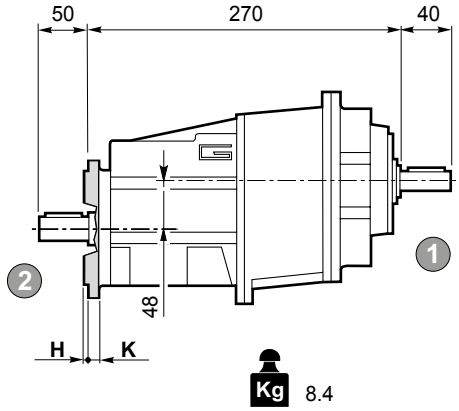


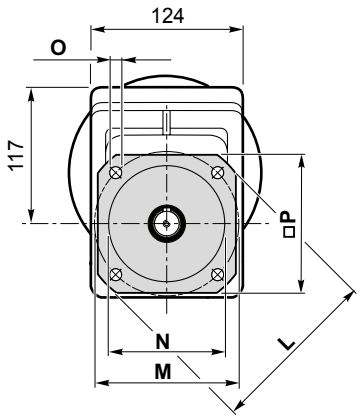
Albero entrata
Input shaft
1

CMG 023 F..

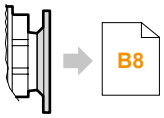


CMGIS 023 F..

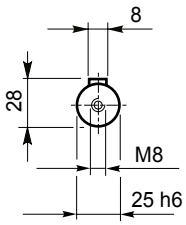


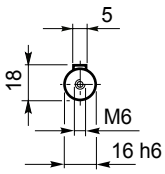


Flangia entrata
Input flange



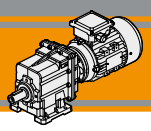
Albero uscita
Output shaft
2





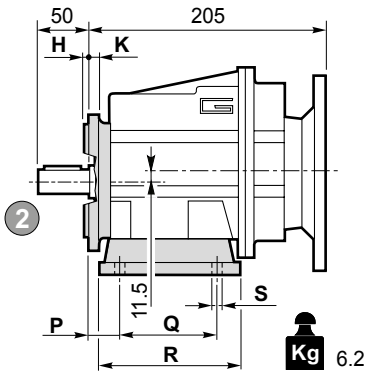
Albero entrata
Input shaft
1

Versione **F** / ***F** Version*									
CMG CMGIS	**H**	**K**	**L**	**M**	**N** f7	**O**	**P**	**Flangia / *Flange***	
								Tipo / *Type*	Peso / *Weight* [kg]
022 023	3	9	120	100	80	9	106	**F120**	0.5
	3.5	9	140	115	95	9	115	**F140**	0.8
	3.5	9	160	130	110	9	126	**F160**	1.1
	3.5	11	200	165	130	11	165	**F200**	1.8

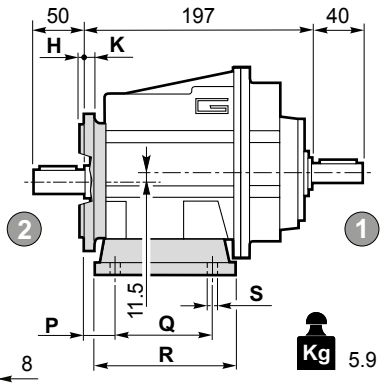


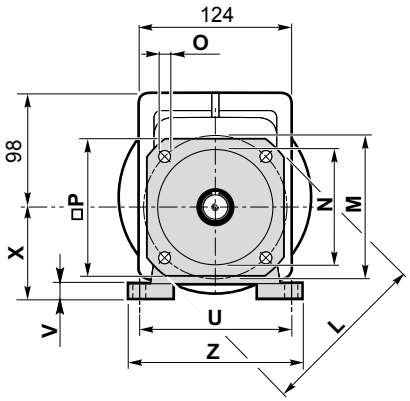
CMG 022 H../F.. - CMG 023 H../F..

CMG 022 H../F..

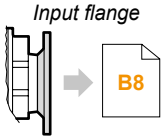


CMGIS 022 H../F..

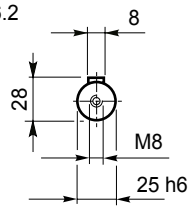


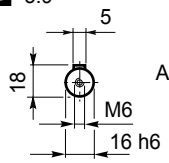


Flangia entrata
Input flange



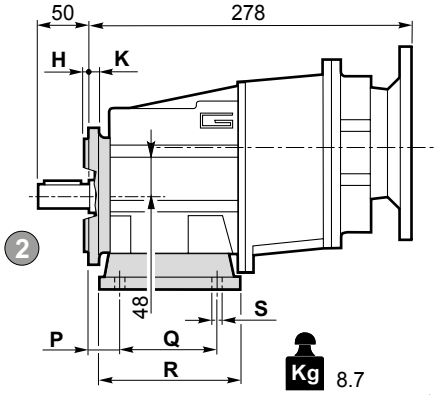
Albero uscita
Output shaft
2



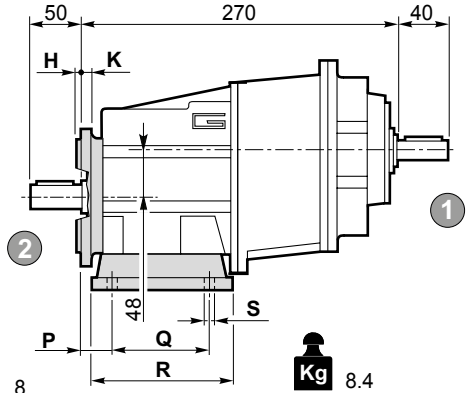


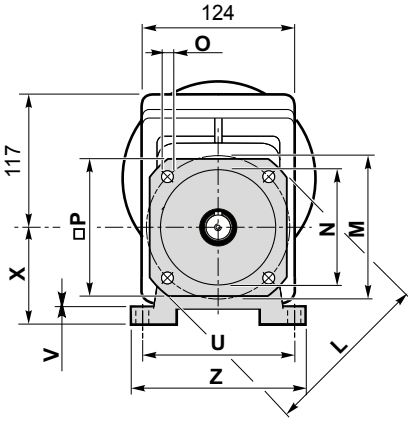
Albero entrata
Input shaft
1

CMG 023 H../F..

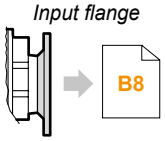


CMGIS 023 H../F..

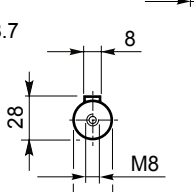


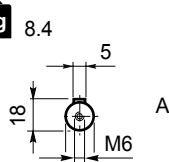


Flangia entrata
Input flange



Albero uscita
Output shaft
2





Albero entrata
Input shaft
1

Versione **H** / ***H*** *Version*											Combinazioni possibili H/F *Possible combinations H/F*			
CMG CMGIS	**P**	**Q**	**R**	**S**	**U**	**V**	**X**	**Z**	**Piede / *Foot*** Tipo *Type*	Peso / *Weight* [kg]	**F120**	**F140**	**F160**	**F200**
022 023	**20**	**85**	**108**	**9**	**115**	**12**	**65**	**139**	**H65**	**0.7**	•	•		
	18	80	118	9	110	12	75	140	**H75**	1.0	•	•	•	
	25	85	120	9	120	12	80	140	**H80**	1.1	•	•	•	
	18	50 - 87	118	9	110	12	85	130	**H85**	1.2	•	•	•	
	25	130	154	9	110	12	90	135	**H90**	1.5	•	•	•	•
	18	60 - 107.5	135	11	130	12	100	155	**H100**	1.7	•	•	•	•

Preferenziale / *Preferred*

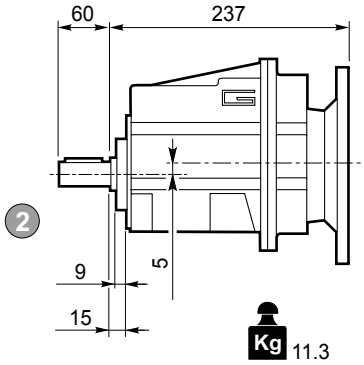
• Combinazioni possibili H/F / *Possible combinations H/F*

Versione **F** / ***F*** *Version*									
CMG CMGIS	**H**	**K**	**L**	**M**	**N** f7	**O**	**P**	**Flangia / *Flange*** Tipo / *Type*	Peso / *Weight* [kg]
022 023	3	9	120	100	80	9	106	**F120**	0.5
	3.5	9	140	115	95	9	115	**F140**	0.8
	3.5	9	160	130	110	9	126	**F160**	1.1
	3.5	11	200	165	130	11	165	**F200**	1.8

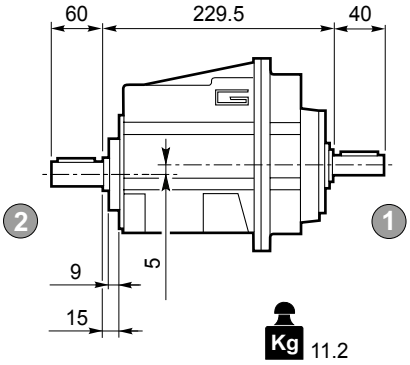
Dimensioni ***Dimensions***

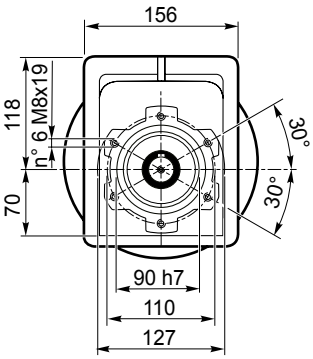
CMG 032 U - CMG 033 U

CMG 032 U

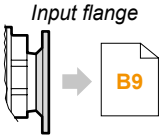


CMGIS 032 U

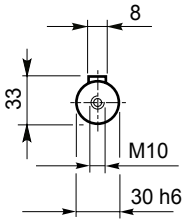


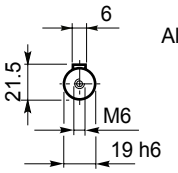


Flangia entrata
Input flange



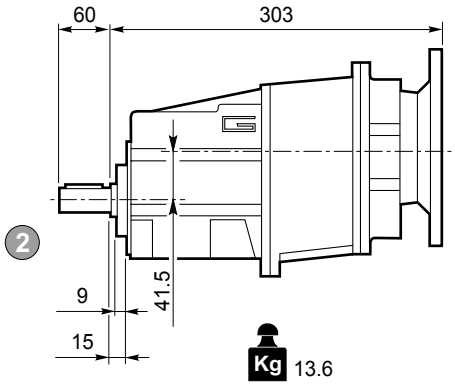
Albero uscita
Output shaft
2



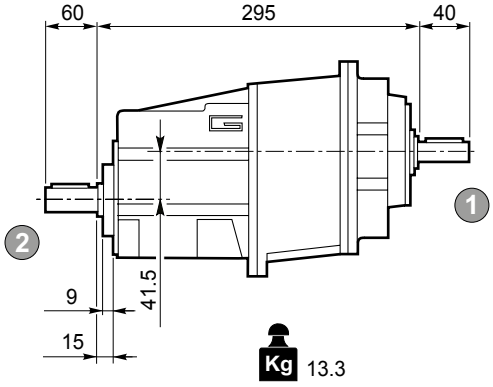


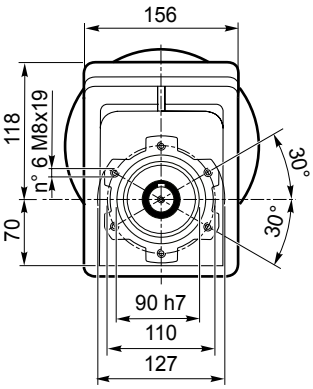
Albero entrata
Input shaft
1

CMG 033 U

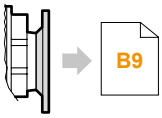


CMGIS 033 U

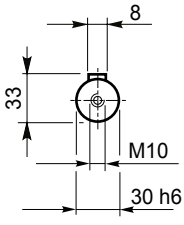


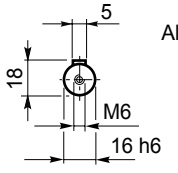


Flangia entrata
Input flange

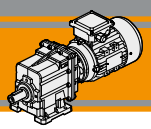


Albero uscita
Output shaft
2



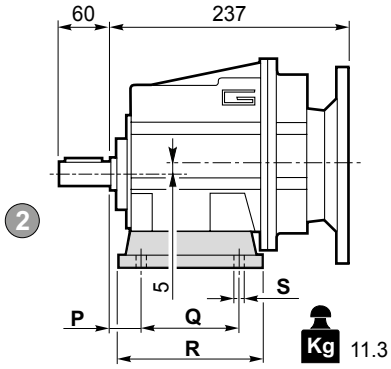


Albero entrata
Input shaft
1

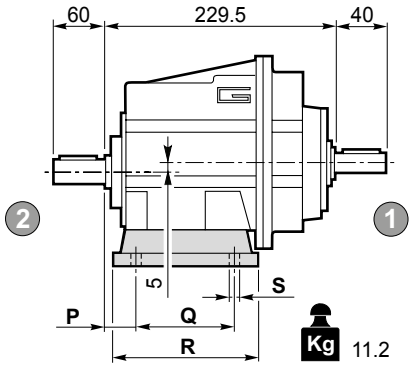


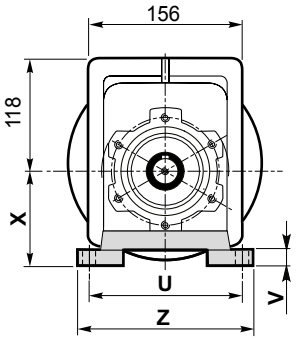
CMG 032 H.. - CMG 033 H..

CMG 032 H..

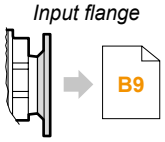


CMGIS 032 H..

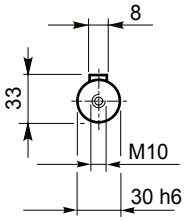


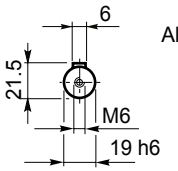


Flangia entrata
Input flange



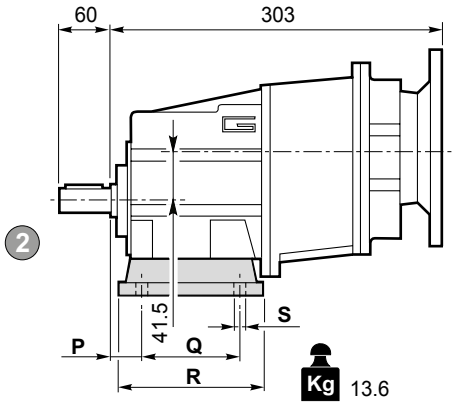
Albero uscita
Output shaft
2



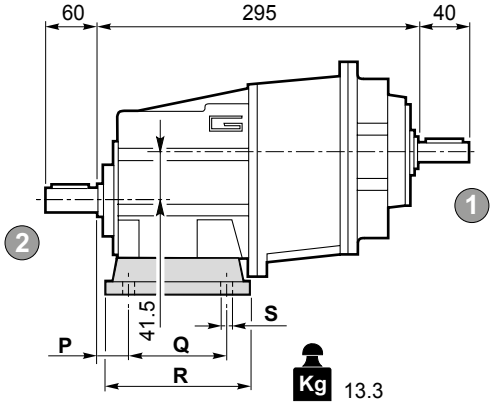


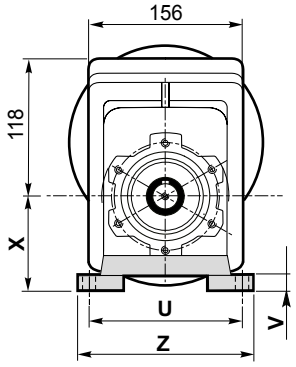
Albero entrata
Input shaft
1

CMG 033 H..

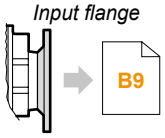


CMGIS 033 H..

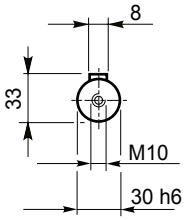


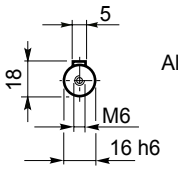


Flangia entrata
Input flange



Albero uscita
Output shaft
2





Albero entrata
Input shaft
1

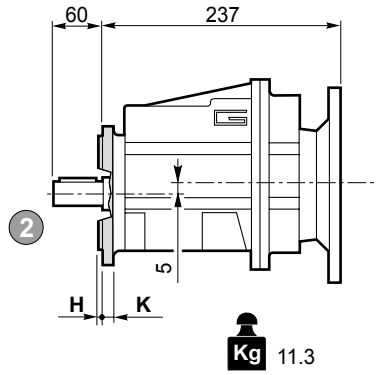
Versione **H** / ***H** Version*										
CMG CMGIS	**P**	**Q**	**R**	**S**	**U**	**V**	**X**	**Z**	**Piede / *Foot***	
									Tipo / *Type*	Peso / *Weight* [kg]
032 033	**30**	**105**	**136**	**14**	**160**	**14**	**95**	**194**	**H95**	**1.5**
	30	100	150	11	150	14	110	185	**H110**	1.9
	18	70			160					
	30	165	195	14	135	14	115	170	**H115**	2.2
	35	110	160	14	170	14	120	210	**H120**	2.6
	19.5	149.5	184	14	180	18	130	214	**H130**	2.9

Preferenziale / *Preferred*

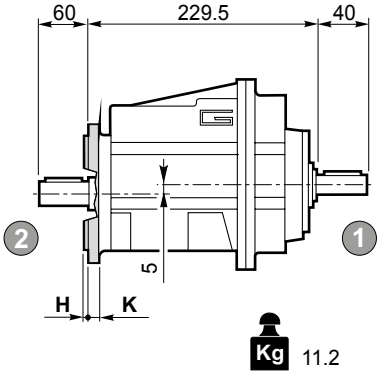
Dimensioni ***Dimensions***

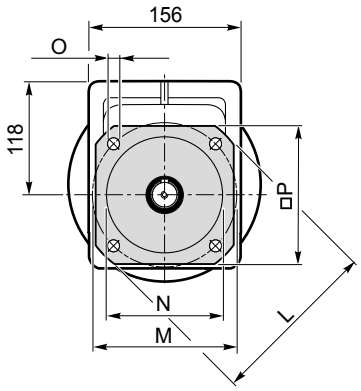
CMG 032 F.. - CMG 033 F..

CMG 032 F..

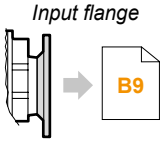


CMGIS 032 F..

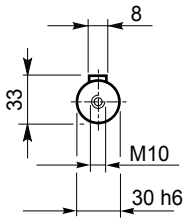


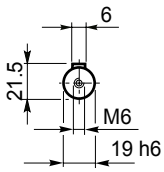


Flangia entrata
Input flange



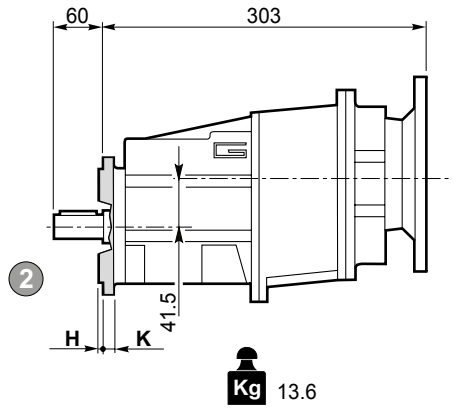
Albero uscita
Output shaft
2



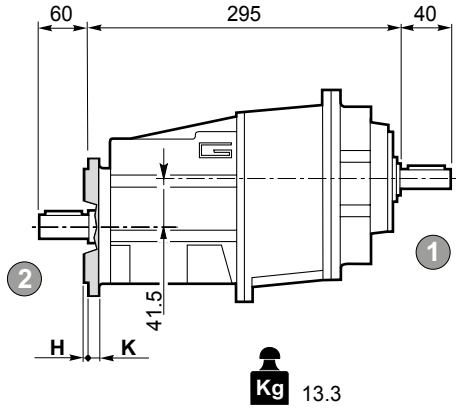


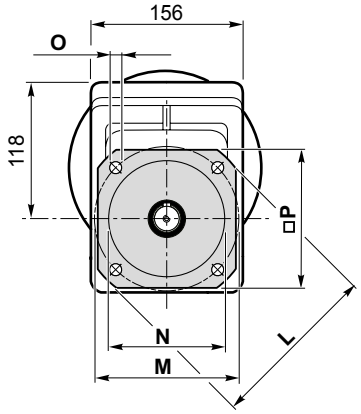
Albero entrata
Input shaft
1

CMG 033 F..

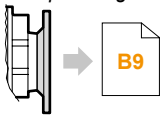


CMGIS 033 F..

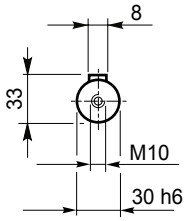


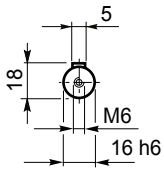


Flangia entrata
Input flange



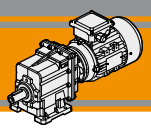
Albero uscita
Output shaft
2





Albero entrata
Input shaft
1

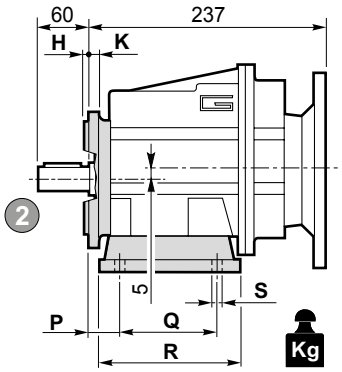
Versione **F** / ***F** Version*									
CMG CMGIS	**H**	**K**	**L**	**M**	**N** f7	**O**	**P**	**Flangia / *Flange***	
								Tipo / *Type*	Peso / *Weight* [kg]
032 033	3.5	11	160	130	110	9	140	**F160**	1.0
	3.5	11	200	165	130	11	165	**F200**	1.8
	4	13	250	215	180	14	215	**F250**	2.9



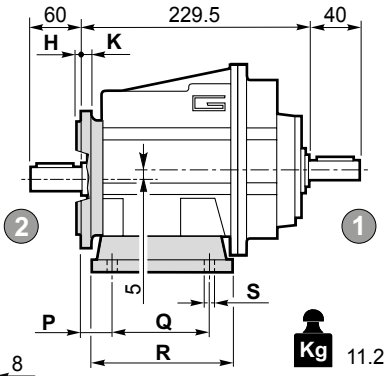
Dimensions

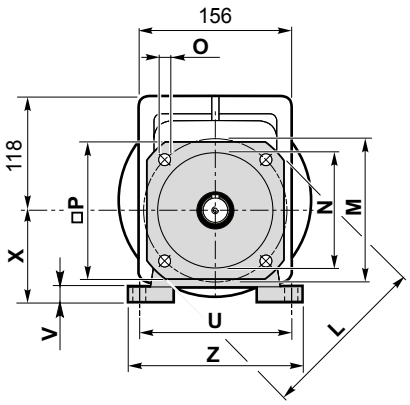
CMG 032 H../F.. - CMG 033 H../F..

CMG 032 H../F..

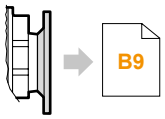


CMGIS 032 H../F..

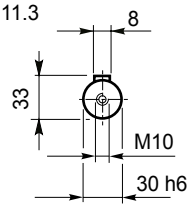


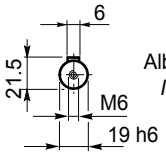


Flangia entrata
Input flange



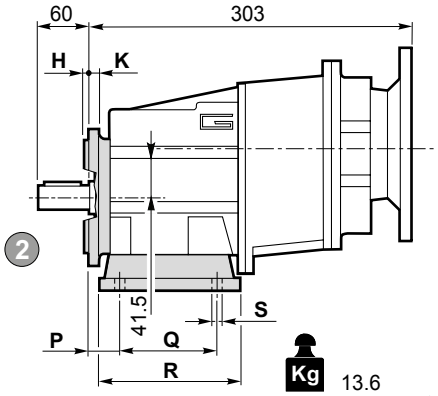
Albero uscita
Output shaft
2



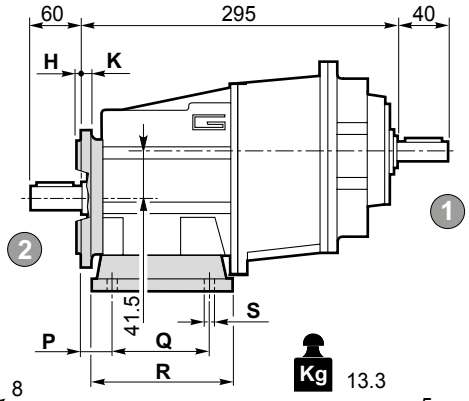


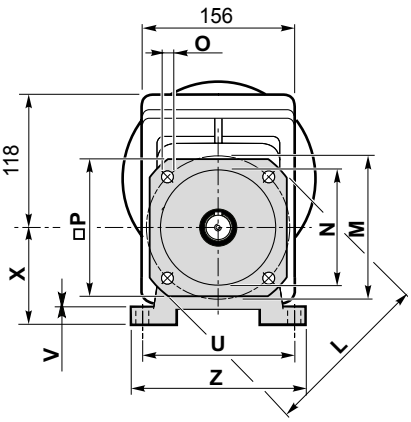
Albero entrata
Input shaft
1

CMG 033 H../F..

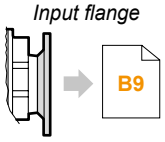


CMGIS 033 H../F..

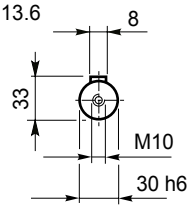


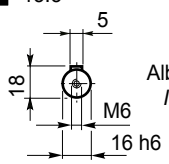


Flangia entrata
Input flange



Albero uscita
Output shaft
2





Albero entrata
Input shaft
1

Versione **H** / ***H*** *Version*											**Combinazioni possibili H/F** *Possible combinations H/F*		
CMG CMGIS	**P**	**Q**	**R**	**S**	**U**	**V**	**X**	**Z**	**Piede** / ***Foot*** Tipo *Type*	Peso / *Weight* [kg]	**F160**	**F200**	**F250**
032 033	**30**	**105**	**136**	**14**	**160**	**14**	**95**	**194**	**H95**	**1.5**	•	•	
	30	100	150	11	150	14	110	185	**H110**	1.9	•	•	
	18	70			160								
	30	165	195	14	135	14	115	170	**H115**	2.2	•	•	•
	35	110	160	14	170	14	120	210	**H120**	2.6	•	•	•
	19.5	149.5	184	14	180	18	130	214	**H130**	2.9	•	•	•

Preferenziale / *Preferred*

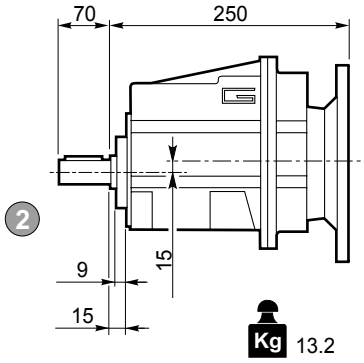
• Combinazioni possibili H/F / *Possible combinations H/F*

Versione **F** / ***F*** *Version*									
CMG CMGIS	**H**	**K**	**L**	**M**	**N** f7	**O**	**P**	**Flangia** / ***Flange*** Tipo / *Type*	Peso / *Weight* [kg]
032 033	3.5	11	160	130	110	9	140	**F160**	1.0
	3.5	11	200	165	130	11	165	**F200**	1.8
	4	13	250	215	180	14	215	**F250**	2.9

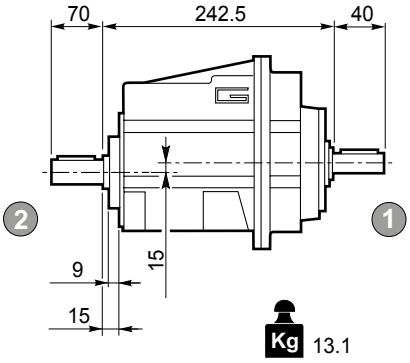
Dimensioni ***Dimensions***

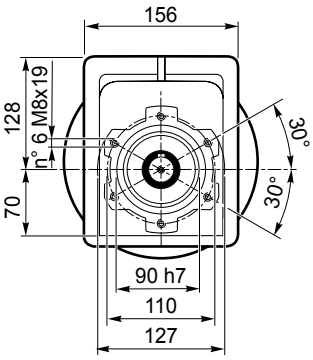
CMG 042 U - CMG 043 U

CMG 042 U

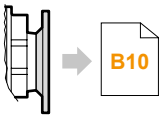


CMGIS 042 U

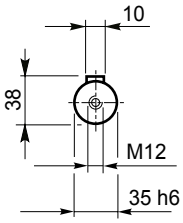


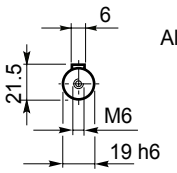


Flangia entrata
Input flange



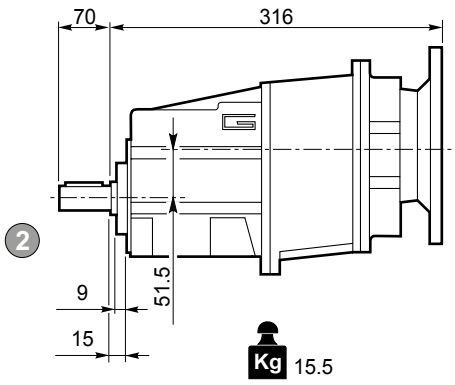
Albero uscita
Output shaft
2



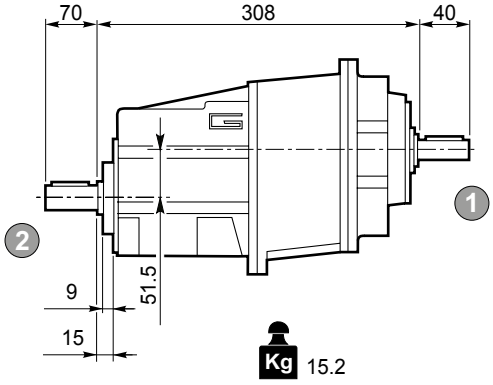


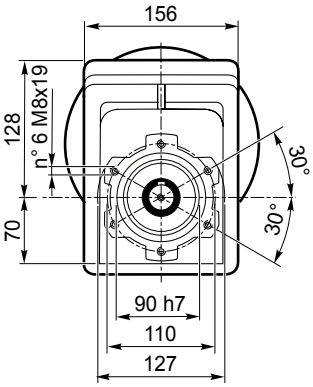
Albero entrata
Input shaft
1

CMG 043 U

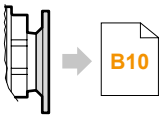


CMGIS 043 U

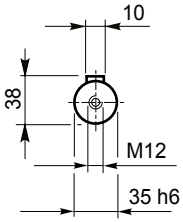


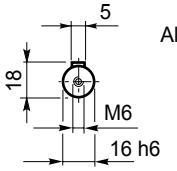


Flangia entrata
Input flange

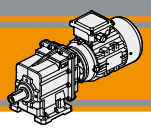


Albero uscita
Output shaft
2



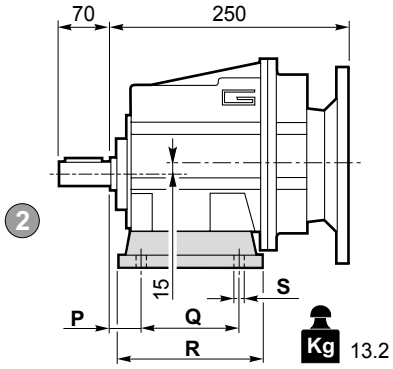


Albero entrata
Input shaft
1

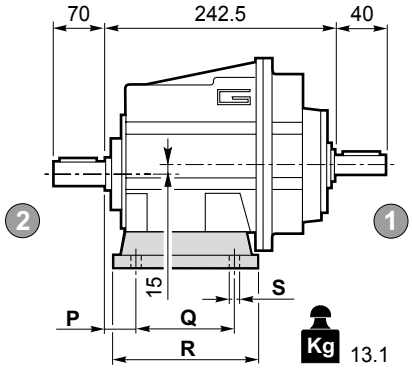


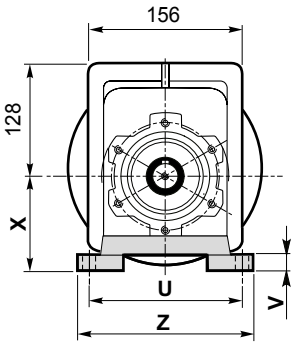
CMG 042 H.. - CMG 043 H..

CMG 042 H..

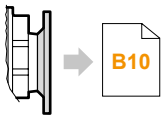


CMGIS 042 H..

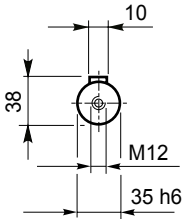


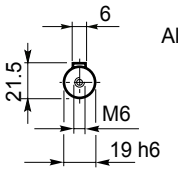


Flangia entrata
Input flange



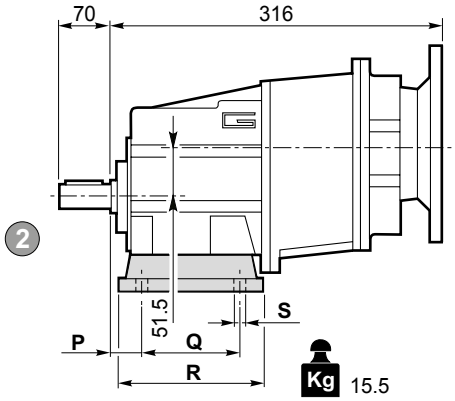
Albero uscita
Output shaft
2



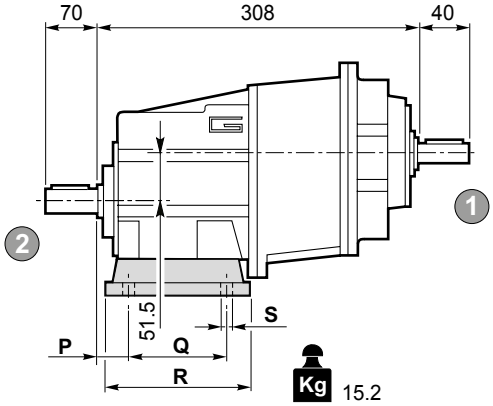


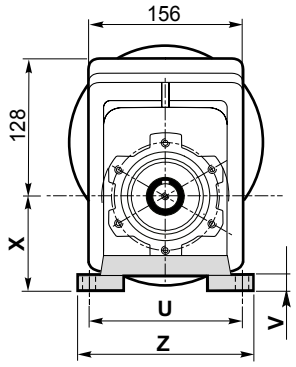
Albero entrata
Input shaft
1

CMG 043 H..

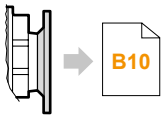


CMGIS 043 H..

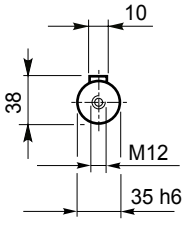


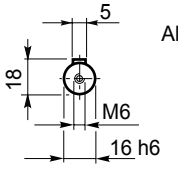


Flangia entrata
Input flange



Albero uscita
Output shaft
2





Albero entrata
Input shaft
1

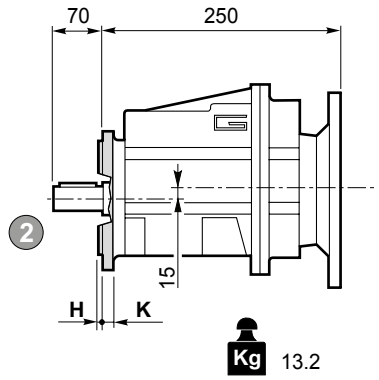
Versione **H** / ***H** Version*										
CMG CMGIS	**P**	**Q**	**R**	**S**	**U**	**V**	**X**	**Z**	**Piede / *Foot***	
									Tipo / *Type*	Peso / *Weight* [kg]
042 043	**30**	**105**	**136**	**14**	**160**	**14**	**95**	**194**	**H95**	**1.5**
	30	100	150	11	150	14	110	185	**H110**	1.9
	18	70			160					
	30	165	195	14	135	14	115	170	**H115**	2.2
	35	110	160	14	170	14	120	210	**H120**	2.6
	19.5	149.5	184	14	180	18	130	214	**H130**	2.9

Preferenziale / *Preferred*

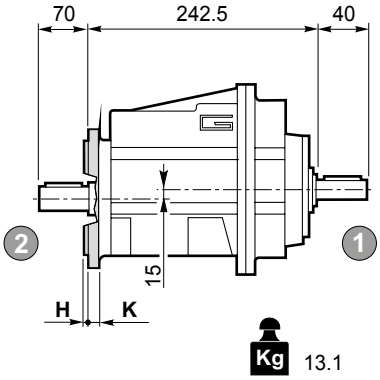
Dimensioni ***Dimensions***

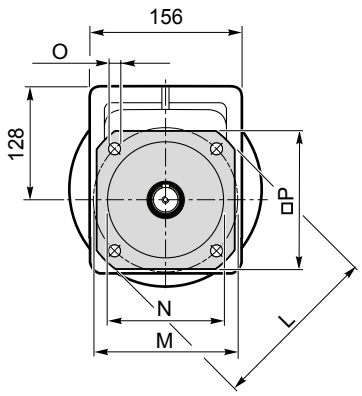
CMG 042 F.. - CMG 043 F..

CMG 042 F..

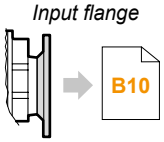


CMGIS 042 F..

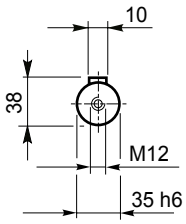


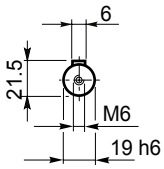


Flangia entrata
Input flange



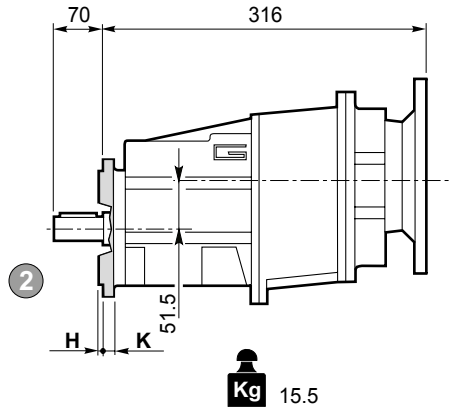
Albero uscita
Output shaft
2



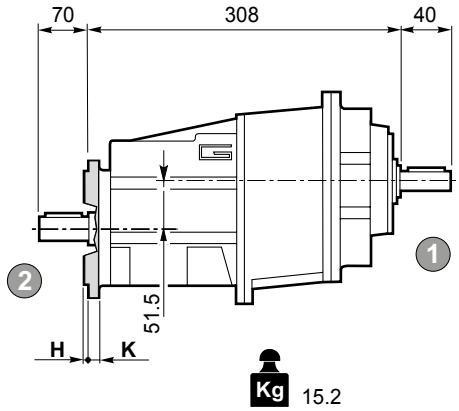


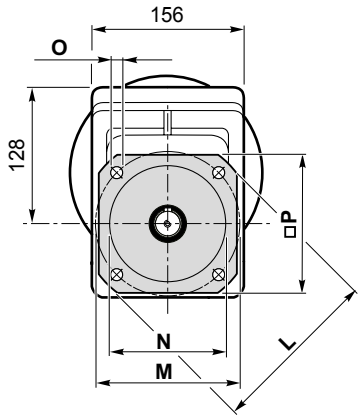
Albero entrata
Input shaft
1

CMG 043 F..

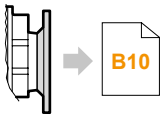


CMGIS 043 F..

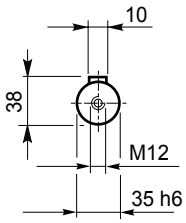


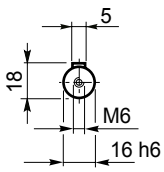


Flangia entrata
Input flange



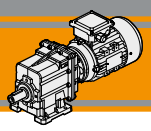
Albero uscita
Output shaft
2





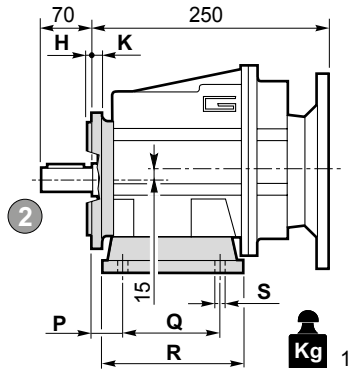
Albero entrata
Input shaft
1

Versione **F** / ***F** Version*									
CMG CMGIS	**H**	**K**	**L**	**M**	**N** f7	**O**	**P**	**Flangia / *Flange***	
								Tipo / *Type*	Peso / *Weight* [kg]
042 043	3.5	11	160	130	110	9	140	**F160**	1.0
	3.5	11	200	165	130	11	165	**F200**	1.8
	4	13	250	215	180	14	215	**F250**	2.9

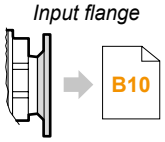


CMG 042 H../F.. - CMG 043 H../F..

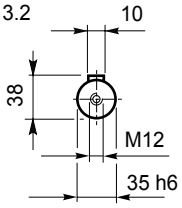
CMG 042 H../F..



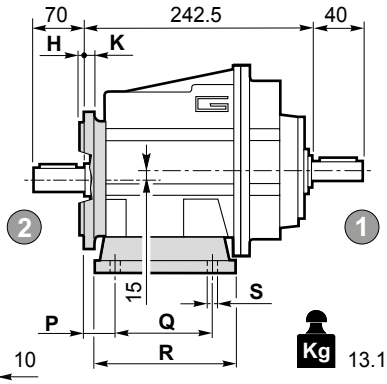
Flangia entrata
Input flange

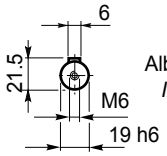


Albero uscita
Output shaft
2

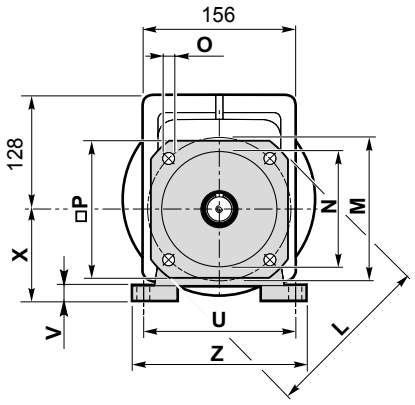


CMGIS 042 H../F..

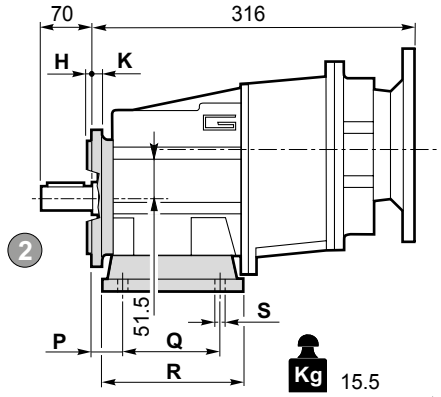




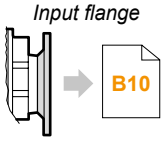
Albero entrata
Input shaft
1



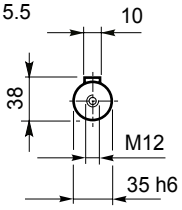
CMG 043 H../F..



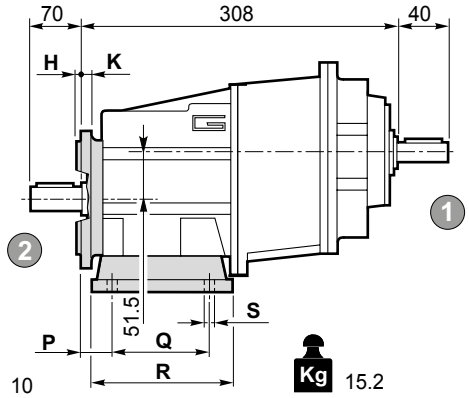
Flangia entrata
Input flange

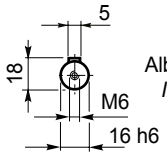


Albero uscita
Output shaft
2

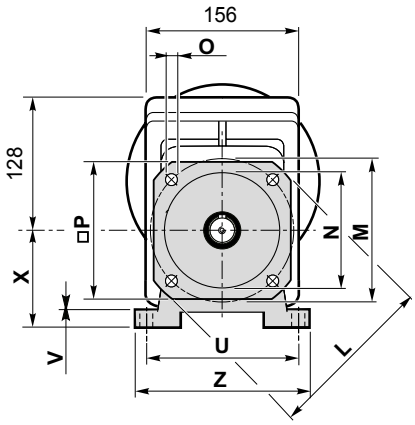


CMGIS 043 H../F..





Albero entrata
Input shaft
1



Versione **H** / ***H*** *Version*											**Combinazioni possibili H/F** ***Possible combinations H/F***		
CMG CMGIS	**P**	**Q**	**R**	**S**	**U**	**V**	**X**	**Z**	**Piede / *Foot*** Tipo *Type*	Peso / *Weight* [kg]	**F160**	**F200**	**F250**
042 043	**30**	**105**	**136**	**14**	**160**	**14**	**95**	**194**	**H95**	**1.5**	•	•	
	30	100	150	11	150	14	110	185	**H110**	1.9	•	•	
	18	70			160								
	30	165	195	14	135	14	115	170	**H115**	2.2	•	•	•
	35	110	160	14	170	14	120	210	**H120**	2.6	•	•	•
	19.5	149.5	184	14	180	18	130	214	**H130**	2.9	•	•	•

Preferenziale / *Preferred*

• Combinazioni possibili H/F / *Possible combinations H/F*

Versione **F** / ***F*** *Version*									
CMG CMGIS	**H**	**K**	**L**	**M**	**N** f7	**O**	**P**	**Flangia / *Flange*** Tipo / *Type*	Peso / *Weight* [kg]
042 043	3.5	11	160	130	110	9	140	**F160**	1.0
	3.5	11	200	165	130	11	165	**F200**	1.8
	4	13	250	215	180	14	215	**F250**	2.9

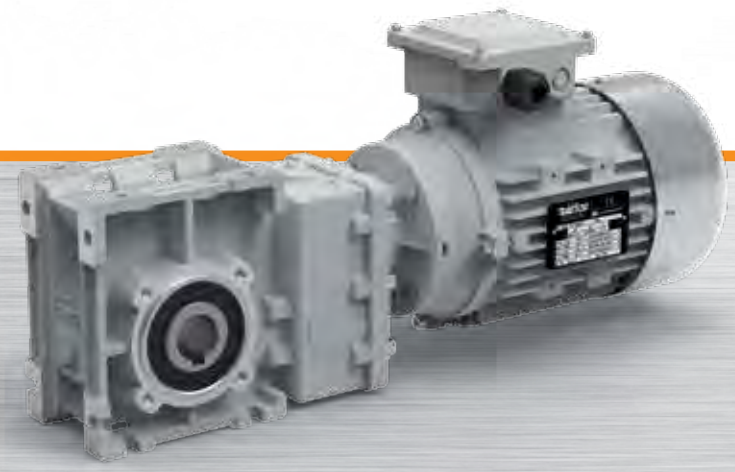
TRANSTECNO®
the modular gearmotor

CMB

CMB Alù

CMB

Motoriduttori ad assi ortogonali
Helical bevel gearmotors



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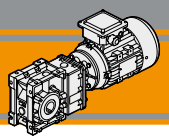

ENERGY SAVING

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Caratteristiche tecniche

I motoriduttori ad assi ortogonali della serie CMB sono caratterizzati da un elevato grado di modularità: sono stati realizzati con una carcassa completamente intercambiabile con quella dei riduttori a vite senza fine della serie CM.
Sono pertanto configurabili secondo le esigenze dell'applicazione con flangia di uscita, albero di uscita, braccio di reazione.

Caratteristiche comuni a tutta la serie:
- Carcassa in alluminio.
- Ingranaggi sempre rettificati.
- Lubrificazione permanente con olio sintetico.

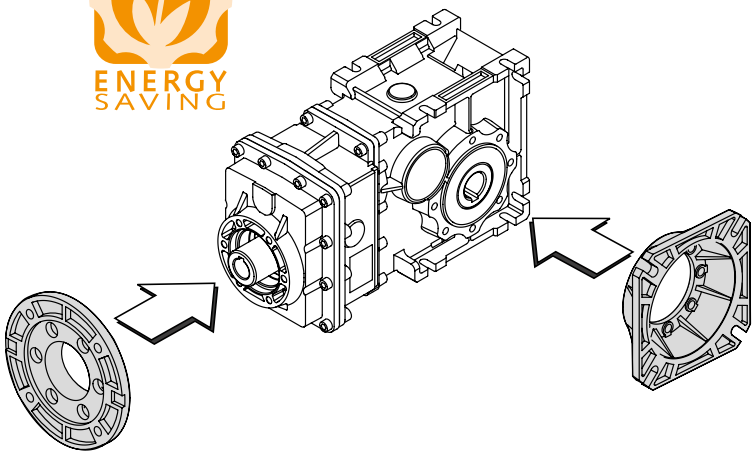
Technical features

The high degree of modularity of CMB helical bevel gearmotors allows it to be completely interchangeable with CM wormgear-boxes.

It is possible to set up the version required using output flanges, output shafts and optional torque arms.

Common features of all CMB range are:
- *Die-cast aluminum housing.*
- *Ground helical gears.*
- *Permanent synthetic oil long-life lubrication.*

ENERGY SAVING



Designazione

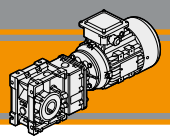
Classification

RIDUTTORE / *GEARBOX*

CMB	63	3	U	9.81	D25	90	B5	SZDX	BRSX	90
Tipo *Type*	Grandezza *Size*	Stadi *Stages*	Versione *Version*	Rapporto *Ratio*	Albero cavo uscita *Hollow output shaft*	IEC	Forma costruttiva *Version*	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*
CMB	**40** **50** **63** **90**	**2** **3**	**U** **FD** **FS** **FBD** **FBS** **FLD** **FLS**	vedi tabelle *see tables*	vedi tabelle *see tables*	**56..** **—** **90..**	**B5** **B14**	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX**	**0°** **90°** **180°** **270°**

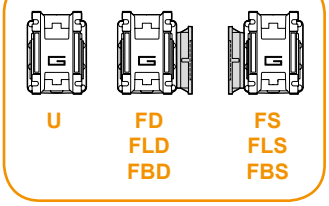
RIDUTTORE / *GEARBOX*

CMBIS	63	3	U	9.81	D25	SZDX	BRSX	90
Tipo *Type*	Grandezza *Size*	Stadi *Stages*	Versione *Version*	Rapporto *Ratio*	Albero cavo uscita *Hollow output shaft*	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*
CMBIS	**40** **50** **63** **90**	**2** **3**	**U** **FD** **FS** **FBD** **FBS** **FLD** **FLS**	vedi tabelle *see tables*	vedi tabelle *see tables*	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX**	**0°** **90°** **180°** **270°**

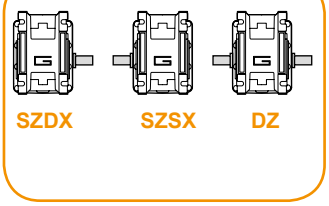


Designazione — *Classification*

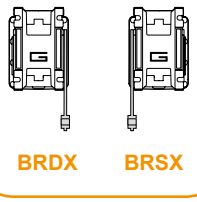
Versione Riduttore *Gearbox Version*



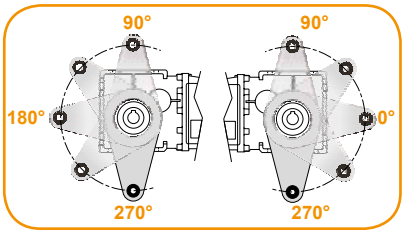
Albero di uscita *Output shaft*



Braccio di reazione *Torque arm*



Angolo *Angle*

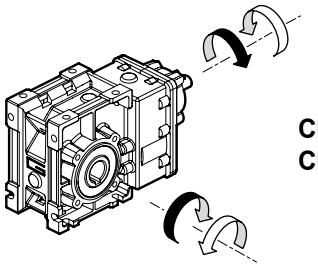


MOTORE / *MOTOR*

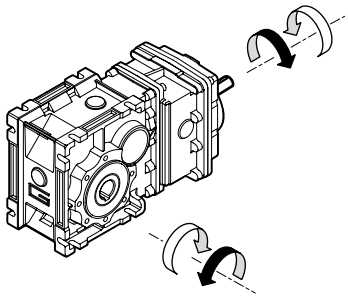
1.5kW	4p	3ph	230/400V	50Hz	T1
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*
vedi tabelle *see tables*	**2p** **4p** **6p** **8p**	**1ph** **3ph**	**230V** **230/400V**	**50Hz** **60Hz**	**T1** (Std) **T4** **T2** **T3**

Sensi di rotazione — *Direction of rotation*

CMB...2
CMBIS..2



CMB...3
CMBIS..3



Simbologia — *Symbols*

n_1	[min^{-1}]	Velocità in ingresso / *Input speed*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*
i		Rapporto di riduzione / *Ratio*
P_1	[kW]	Potenza in entrata / *Input power*
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / *Output torque referred to* P_1
Pn_1	[kW]	Potenza nominale in entrata / *Nominal input power*
Mn_2	[Nm]	Coppia nominale in uscita in funzione di Pn_1 / *Nominal output torque referred to* Pn_1
sf		Fattore di servizio / *Service factor*
R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*

Lubrificazione

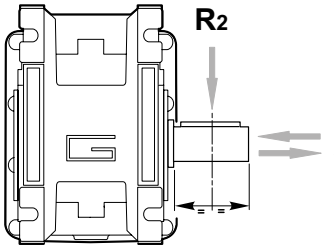
Tutti i motoriduttori CMB sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

Lubrication

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use CMB gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.

Carichi radiali

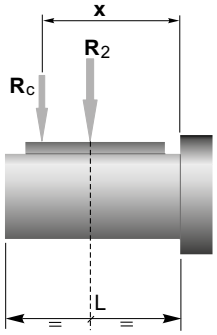
Radial loads



n_2 [min^{-1}]	R_2 [N]			
	CMB 402	CMB 502	CMB 633	CMB 903
400	905	1116	1835	2682
300	996	1228	2020	2952
200	1141	1406	2312	3379
170	1204	1484	2441	3567
140	1414	1743	2604	3806
100	1582	1949	2913	4686
90	1638	2019	3321	4853
60	2047	2490	3801	5556
40	2524	3029	4492	6614
30	2778	3334	5159	7540
20	3180	3816	5906	8631
15	3500	4200	6500	9500
10	3500	4200	6500	9500

Quando il carico radiale risultante non è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:

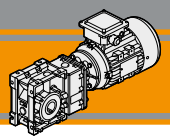


	CMB 402	CMB 502	CMB 633	CMB 903
a	86	104	118	157
b	66	79	93	117
R_{2MAX}	3500	4200	6500	9500

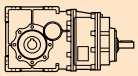
$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valori riportati nella tabella
a, b = values given in the table



Dati tecnici — n_1 1400 min^{-1} — ***Technical data***



n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motori applicabili / *IEC Motor adapters*		
CMBIS 402				**56 B5/B14**	**63 B5/B14**	**71 B5/B14**
227	40	1.0	6.18			
187	40	0.83	7.49			
152	40	0.68	9.2			
118	45	0.59	11.83			
112	45	0.56	12.48			
94.4	45	0.47	14.83			
79.4	45	0.40	17.63			
75.3	55	0.46	18.6			
62.7	55	0.38	22.33			
58.6	55	0.36	23.91			
48.5	65	0.35	28.89			
45.4	65	0.33	30.84			
41.7	65	0.30	33.57			
39.3	65	0.28	35.63			
32.7	65	0.24	42.75			
25.3	65	0.18	55.31			*
23.7	65	0.17	59.06			*
21.8	65	0.16	64.29			*
19.3	65	0.14	72.50			*

n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	**56 B5/B14**	**63 B5/B14**	**71 B5/B14**	**80 B5/B14**
CMBIS 502							
227	70	1.8	6.18				
187	70	1.5	7.49				
152	70	1.2	9.20				
118	90	1.2	11.83				
112	90	1.1	12.48				
94.4	90	0.95	14.83				
79.4	90	0.80	17.63				
75.3	110	0.92	18.60				
62.7	110	0.77	22.33				
58.6	110	0.72	23.91				
48.5	125	0.67	28.89				
45.4	125	0.63	30.84				
41.7	125	0.58	33.57				
39.3	125	0.55	35.63				
32.7	125	0.46	42.75				*
25.3	125	0.35	55.31				*
23.7	125	0.33	59.06				*
21.8	125	0.30	64.29				*
19.3	125	0.27	72.50				*

N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.

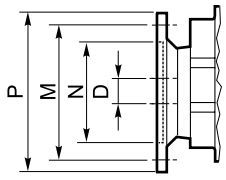
N.B.
Highlighted areas indicate motor inputs available on each size of unit.

*** =** Il fattore di servizio (**sf**) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.

**** =*** *The service factor (**sf**) has to be selected depending on application: please contact our Technical Department.*

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. C8 alla pag. C11

Before selecting any gearbox, please read the performance values shown in the tables on page C8 to C11.



Dimensioni IEC / *IEC Dimensions*								
	56 B5	**56 B14**	**63 B5**	**63 B14**	**71 B5**	**71 B14**	**80 B5**	**80 B14**
N	80	50	95	60	110	70	130	80
M	100	65	115	75	130	85	165	100
P	120	80	140	90	160	105	200	120
D	9		11		14		19	

Dati tecnici — n_1 1400 min^{-1} — *Technical data*

n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motori applicabili *IEC Motor adapters* 63 B5	71 B5/B14	80 B5/B14	90 B5/B14
CMBIS 633							
213	150	3.6	6.58				
175	150	2.9	7.99				
143	150	2.4	9.81				
134	150	2.2	10.44				
112	150	1.9	12.53				
105	150	1.8	13.31				
88.6	170	1.7	15.81				
78.8	220	1.9	17.77				
64.9	220	1.6	21.56				
52.9	220	1.3	26.48				
49.7	220	1.2	28.17				
41.4	220	1.0	33.81				
39.0	220	0.96	35.92				
36.0	250	1.00	38.88				
29.7	250	0.83	47.16				*
24.2	250	0.67	57.93				*
22.7	250	0.63	61.63				*
18.9	250	0.53	73.96				*
17.8	250	0.50	78.58				*
15.0	250	0.42	93.33			*	*
10.0	250	0.28	140.52			*	*
7.7	250	0.21	181.81			*	*
6.6	250	0.18	211.31		*	*	*
5.9	250	0.16	238.31		*	*	*

N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.

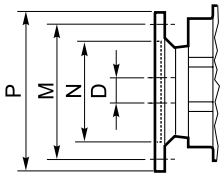
N.B.
Highlighted areas indicate motor inputs available on each size of unit.

*** =** Il fattore di servizio (**sf**) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.

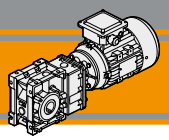
Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. C8 alla pag. C11

*** =** *The service factor (**sf**) has to be selected depending on application: please contact our Technical Department.*

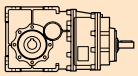
Before selecting any gearbox, please read the performance values shown in the tables on page C8 to C11.



Dimensioni IEC / *IEC Dimensions*							
	63 B5	**71 B5**	**71 B14**	**80 B5**	**80 B14**	**90 B5**	**90 B14**
N	95	110	70	130	80	130	95
M	115	130	85	165	100	165	115
P	140	160	105	200	120	200	140
D	11	14		19		24	



Dati tecnici — n_1 1400 min^{-1} — *Technical data*

	n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motori applicabili *IEC Motor adapters*			
CMBIS 903					**71 B5**	**80 B5/B14**	**90 B5/B14**	**100112 B5/B14**
	211	280	6.57	6.65	**B**			
	175	280	5.46	8.00	**B**			
	144	280	4.48	9.74	**B**			
	125	280	3.90	11.21	**B**			
	99.3	300	3.32	14.09	**B**			
	78.0	450	3.91	17.95	**B**			
	64.8	450	3.25	21.60	**B**			
	53.2	450	2.67	26.30	**B**			
	46.3	450	2.32	30.25	**B**			
	35.7	500	1.99	39.26	**B**			
	29.6	500	1.65	47.25	**B**			*
	24.3	500	1.36	57.52	**B**			*
	21.2	500	1.18	66.17	**B**			*
	16.8	500	0.94	83.20	**B**			*
	13.0	500	0.72	108.09	**B**		*	*
	10.6	500	0.59	132.23	**B**		*	*
	9.5	500	0.53	147.92	**B**		*	*
	8.4	500	0.47	167.09	**B**		*	*
	7.3	500	0.41	191.06	**B**	*	*	*
	6.3	500	0.35	221.88	**B**	*	*	*
	5.3	500	0.30	262.96	**B**	*	*	*

N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.
B = Boccola di riduzione in acciaio.

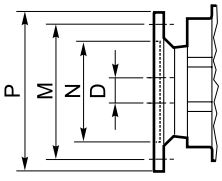
*** =** Il fattore di servizio (**sf**) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. C8 alla pag. C11

N.B.
Highlighted areas indicate motor inputs available on each size of unit.
***B** = Metal shaft sleeve.*

**** =** The service factor (**sf**) has to be selected depending on application: please contact our Technical Department.*

Before selecting any gearbox, please read the performance values shown in the tables on page C8 to C11.



Dimensioni IEC / *IEC Dimensions*							
	71 B5	**80 B5**	**80 B14**	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**
N	110	130	80	130	95	180	110
M	130	165	100	165	115	215	130
P	160	200	120	200	140	250	160
D	14	19		24		28	

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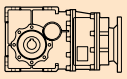
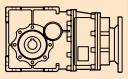
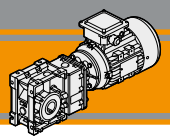
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.06						
56A4 (1400 min^{-1})	**39.3**	14	4.7	35.63	**CMB402**	**B5/B14**
	32.7	16	4.0	42.75		**B5/B14**
	25.3	21	3.1	55.31		**B5/B14**
	23.7	23	2.9	59.06		**B5/B14**
	21.8	25	2.6	64.29		**B5/B14**
	19.3	28	2.3	72.50		**B5/B14**
0.09						
56B4 (1400 min^{-1})	**48.5**	17	3.9	28.89	**CMB402**	**B5/B14**
	45.4	18	3.7	30.84		**B5/B14**
	41.7	19	3.4	33.57		**B5/B14**
	39.3	21	3.2	35.63		**B5/B14**
	32.7	25	2.6	42.75		**B5/B14**
	25.3	32	2.0	55.31		**B5/B14**
	23.7	34	1.9	59.06		**B5/B14**
	21.8	37	1.8	64.29		**B5/B14**
	19.3	42	1.6	72.50		**B5/B14**
0.12						
63A4 (1400 min^{-1})	**227**	5	8.4	6.18	**CMB402**	**B5/B14**
	187	6	6.9	7.49		**B5/B14**
	152	7	5.6	9.20		**B5/B14**
	118	9	4.9	11.83		**B5/B14**
	112	10	4.7	12.48		**B5/B14**
	94.4	11	3.9	14.83		**B5/B14**
	79.4	14	3.3	17.63		**B5/B14**
	75.3	14	3.8	18.60		**B5/B14**
	62.7	17	3.2	22.33		**B5/B14**
	58.6	18	3.0	23.91		**B5/B14**
	48.5	22	2.9	28.89		**B5/B14**
	45.4	24	2.7	30.84		**B5/B14**
	41.7	26	2.5	33.57		**B5/B14**
	39.3	27	2.4	35.63		**B5/B14**
	32.7	33	2.0	42.75		**B5/B14**
	25.3	43	1.5	55.31		**B5/B14**
	23.7	45	1.4	59.06		**B5/B14**
	21.8	49	1.3	64.29		**B5/B14**
	19.3	56	1.2	72.50		**B5/B14**
	32.7	33	3.8	42.75	**CMB502**	**B5/B14**
	25.3	43	2.9	55.31		**B5/B14**
	23.7	45	2.8	59.06		**B5/B14**
	21.8	49	2.5	64.29		**B5/B14**
	19.3	56	2.2	72.50		**B5/B14**
	18.9	57	4.4	73.96	**CMB633**	**B5**
	17.8	60	4.1	78.58		**B5**
	15.0	72	3.5	93.33		**B5**
	10.0	108	2.3	140.52		**B5**
	7.7	140	1.8	181.81		**B5**
	6.6	163	1.5	211.31		**B5**
	5.9	183	1.4	238.31		**B5**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.18						
63B4 (1400 min^{-1})	**227**	7	5.6	6.18	**CMB402**	**B5/B14**
	187	9	4.6	7.49		**B5/B14**
	152	11	3.8	9.20		**B5/B14**
	118	14	3.3	11.83		**B5/B14**
	112	14	3.1	12.48		**B5/B14**
	94.4	17	2.6	14.83		**B5/B14**
	79.4	20	2.2	17.63		**B5/B14**
	75.3	21	2.6	18.60		**B5/B14**
	62.7	26	2.1	22.33		**B5/B14**
	58.6	28	2.0	23.91		**B5/B14**
	48.5	33	1.9	28.89		**B5/B14**
	45.4	36	1.8	30.84		**B5/B14**
	41.7	39	1.7	33.57		**B5/B14**
	39.3	41	1.6	35.63		**B5/B14**
	32.7	49	1.3	42.75		**B5/B14**
	25.3	64	1.0	55.31		**B5/B14**
	23.7	68	0.95	59.06		**B5/B14**
	21.8	74	0.88	64.29		**B5/B14**
	19.3	84	0.8	72.50		**B5/B14**
	45.4	36	3.5	30.84	**CMB502**	**B5/B14**
	41.7	39	3.2	33.57		**B5/B14**
	39.3	41	3.0	35.63		**B5/B14**
	32.7	49	2.5	42.75		**B5/B14**
	25.3	64	2.0	55.31		**B5/B14**
	23.7	68	1.8	59.06		**B5/B14**
	21.8	74	1.7	64.29		**B5/B14**
	19.3	84	1.5	72.50		**B5/B14**
	24.2	67	3.7	57.93	**CMB633**	**B5**
	22.7	71	3.5	61.63		**B5**
	18.9	85	2.9	73.96		**B5**
	17.8	91	2.8	78.58		**B5**
	15.0	108	2.3	93.33		**B5**
	10.0	162	1.5	140.52		**B5**
	7.7	210	1.2	181.81		**B5**
	6.6	244	1.0	211.31		**B5**
	5.9	275	0.9	238.31		**B5**



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.25						
71A4 (1400 min^{-1})	**227**	10	4.0	6.18	**CMB402**	**B5/B14**
	187	12	3.3	7.49		**B5/B14**
	152	15	2.7	9.20		**B5/B14**
	118	19	2.4	11.83		**B5/B14**
	112	20	2.2	12.48		**B5/B14**
	94.4	24	1.9	14.83		**B5/B14**
	79.4	28	1.6	17.63		**B5/B14**
	75.3	30	1.8	18.60		**B5/B14**
	62.7	36	1.5	22.33		**B5/B14**
	58.6	38	1.4	23.91		**B5/B14**
	48.5	46	1.4	28.89		**B5/B14**
	45.4	49	1.3	30.84		**B5/B14**
	41.7	54	1.2	33.57		**B5/B14**
	39.3	57	1.1	35.63		**B5/B14**
	32.7	69	0.9	42.75		**B5/B14**
	227	10	7.1	6.18	**CMB502**	**B5/B14**
	187	12	5.8	7.49		**B5/B14**
	152	15	4.7	9.20		**B5/B14**
	118	19	4.7	11.83		**B5/B14**
	112	20	4.5	12.48		**B5/B14**
	94.4	24	3.8	14.83		**B5/B14**
	79.4	28	3.2	17.63		**B5/B14**
	75.3	30	3.7	18.60		**B5/B14**
	62.7	36	3.1	22.33		**B5/B14**
	58.6	38	2.9	23.91		**B5/B14**
	48.5	46	2.7	28.89		**B5/B14**
	45.4	49	2.5	30.84		**B5/B14**
	41.7	54	2.3	33.57		**B5/B14**
	39.3	57	2.2	35.63		**B5/B14**
	32.7	69	1.8	42.75		**B5/B14**
	25.3	89	1.4	55.31		**B5/B14**
	23.7	95	1.3	59.06		**B5/B14**
	21.8	103	1.2	64.29		**B5/B14**
	19.3	116	1.1	72.50		**B5/B14**
	41.4	54	4.1	33.81	**CMB633**	**B5/B14**
	39.0	58	3.8	35.92		**B5/B14**
	36.0	62	4.0	38.88		**B5/B14**
	29.7	76	3.3	47.16		**B5/B14**
	24.2	93	2.7	57.93		**B5/B14**
	22.7	99	2.5	61.63		**B5/B14**
	18.9	119	2.1	73.96		**B5/B14**
	17.8	126	2.0	78.58		**B5/B14**
	15.0	150	1.7	93.33		**B5/B14**
	10.0	225	1.1	140.52		**B5/B14**
	7.7	291	0.9	181.81		**B5/B14**
	24.3	92	5.4	57.52	**CMB903**	**B5**
	21.2	106	4.7	66.17		**B5**
	16.8	133	3.7	83.20		**B5**
	13.0	173	2.9	108.09		**B5**
	10.6	212	2.4	132.23		**B5**
	9.5	237	2.1	147.92		**B5**
	8.4	268	1.9	167.09		**B5**
	7.3	306	1.6	191.06		**B5**
	6.3	356	1.4	221.88		**B5**
	5.3	422	1.2	262.96		**B5**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.37						
71B4 (1400 min^{-1})	**227**	15	2.7	6.18	**CMB402**	**B5/B14**
	187	18	2.3	7.49		**B5/B14**
	152	22	1.8	9.20		**B5/B14**
	118	28	1.6	11.83		**B5/B14**
	112	30	1.5	12.48		**B5/B14**
	94.4	35	1.3	14.83		**B5/B14**
	79.4	42	1.1	17.63		**B5/B14**
	75.3	44	1.2	18.60		**B5/B14**
	62.7	53	1.0	22.33		**B5/B14**
	58.6	57	1.0	23.91		**B5/B14**
	48.5	69	0.9	28.89		**B5/B14**
	45.4	73	0.9	30.84		**B5/B14**
	227	15	4.8	6.18	**CMB502**	**B5/B14**
	187	18	3.9	7.49		**B5/B14**
	152	22	3.2	9.20		**B5/B14**
	118	28	3.2	11.83		**B5/B14**
	112	30	3.0	12.48		**B5/B14**
	94.4	35	2.6	14.83		**B5/B14**
	79.4	42	2.2	17.63		**B5/B14**
	75.3	44	2.5	18.60		**B5/B14**
	62.7	53	2.1	22.33		**B5/B14**
	58.6	57	1.9	23.91		**B5/B14**
	48.5	69	1.8	28.89		**B5/B14**
	45.4	73	1.7	30.84		**B5/B14**
	41.7	80	1.6	33.57		**B5/B14**
	39.3	85	1.5	35.63		**B5/B14**
	32.7	101	1.2	42.75		**B5/B14**
	25.3	131	1.0	55.31		**B5/B14**
	23.7	140	0.9	59.06		**B5/B14**
	64.9	51	4.3	21.56	**CMB633**	**B5/B14**
	52.9	63	3.5	26.48		**B5/B14**
	49.7	67	3.3	28.17		**B5/B14**
	41.4	80	2.7	33.81		**B5/B14**
	39.0	85	2.6	35.92		**B5/B14**
	36.0	92	2.7	38.88		**B5/B14**
	29.7	112	2.2	47.16		**B5/B14**
	24.2	137	1.8	57.93		**B5/B14**
	22.7	146	1.7	61.63		**B5/B14**
	18.9	175	1.4	73.96		**B5/B14**
	17.8	186	1.3	78.58		**B5/B14**
	15.0	221	1.1	93.33		**B5/B14**
	29.6	112	4.5	47.25	**CMB903**	**B5**
	24.3	136	3.7	57.52		**B5**
	21.2	157	3.2	66.17		**B5**
	16.8	197	2.5	83.20		**B5**
	13.0	256	1.9	108.09		**B5**
	10.6	314	1.6	132.23		**B5**
	9.5	351	1.4	147.92		**B5**
	8.4	396	1.3	167.09		**B5**
	7.3	453	1.1	191.06		**B5**
	6.3	526	0.9	221.88		**B5**
	5.3	624	0.8	262.96		**B5**

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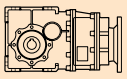
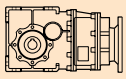
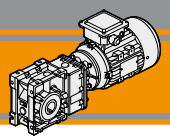
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.55						
80A4 (1400 min^{-1})	**227**	22	3.2	6.18	**CMB502**	**B5/B14**
	187	26	2.6	7.49		**B5/B14**
	152	32	2.2	9.20		**B5/B14**
	118	42	2.2	11.83		**B5/B14**
	112	44	2.0	12.48		**B5/B14**
	94.4	52	1.7	14.83		**B5/B14**
	79.4	62	1.4	17.63		**B5/B14**
	75.3	66	1.7	18.60		**B5/B14**
	62.7	79	1.4	22.33		**B5/B14**
	58.6	84	1.3	23.91		**B5/B14**
	48.5	102	1.2	28.89		**B5/B14**
	45.4	109	1.1	30.84		**B5/B14**
	41.7	118	1.1	33.57		**B5/B14**
	39.3	126	1.0	35.63		**B5/B14**
	213	23	6.5	6.58	**CMB633**	**B5/B14**
	175	28	5.3	7.99		**B5/B14**
	143	35	4.3	9.81		**B5/B14**
	134	37	4.1	10.44		**B5/B14**
	112	44	3.4	12.53		**B5/B14**
	105	47	3.2	13.31		**B5/B14**
	88.6	56	3.0	15.81		**B5/B14**
	78.8	63	3.5	17.77		**B5/B14**
	64.9	76	2.9	21.56		**B5/B14**
	52.9	93	2.4	26.48		**B5/B14**
	49.7	99	2.2	28.17		**B5/B14**
	41.4	119	1.8	33.81		**B5/B14**
	39.0	127	1.7	35.92		**B5/B14**
	36.0	137	1.8	38.88		**B5/B14**
	29.7	166	1.5	47.16		**B5/B14**
	24.2	204	1.2	57.93		**B5/B14**
	22.7	217	1.2	61.63		**B5/B14**
	18.9	261	1.0	73.96		**B5/B14**
	17.8	277	0.9	78.58		**B5/B14**
	46.3	107	4.2	30.25	**CMB903**	**B5/B14**
	35.7	138	3.6	39.26		**B5/B14**
	29.6	167	3.0	47.25		**B5/B14**
	24.3	203	2.5	57.52		**B5/B14**
	21.2	233	2.1	66.17		**B5/B14**
	16.8	293	1.7	83.20		**B5/B14**
	13.0	381	1.3	108.09		**B5/B14**
	10.6	466	1.1	132.23		**B5/B14**
	9.5	522	1.0	147.92		**B5/B14**
	8.4	589	0.8	167.09		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.75						
80B4 (1400 min^{-1})	**227**	30	2.4	6.18	**CMB502**	**B5/B14**
	187	36	1.9	7.49		**B5/B14**
	152	44	1.6	9.20		**B5/B14**
	118	57	1.6	11.83		**B5/B14**
	112	60	1.5	12.48		**B5/B14**
	94.4	71	1.3	14.83		**B5/B14**
	79.4	85	1.1	17.63		**B5/B14**
	75.3	89	1.2	18.60		**B5/B14**
	62.7	107	1.0	22.33		**B5/B14**
	58.6	115	1.0	23.91		**B5/B14**
	48.5	139	0.9	28.89		**B5/B14**
	213	32	4.7	6.58	**CMB633**	**B5/B14**
	175	38	3.9	7.99		**B5/B14**
	143	47	3.2	9.81		**B5/B14**
	134	50	3.0	10.44		**B5/B14**
	112	60	2.5	12.53		**B5/B14**
	105.2	64	2.3	13.31		**B5/B14**
	88.6	76	2.2	15.81		**B5/B14**
	78.8	85	2.6	17.77		**B5/B14**
	64.9	104	2.1	21.56		**B5/B14**
	52.9	127	1.7	26.48		**B5/B14**
	49.7	135	1.6	28.17		**B5/B14**
	41.4	163	1.4	33.81		**B5/B14**
	39.0	173	1.3	35.92		**B5/B14**
	36.0	187	1.3	38.88		**B5/B14**
	29.7	227	1.1	47.16		**B5/B14**
	24.2	279	0.9	57.93		**B5/B14**
	22.7	296	0.8	61.63		**B5/B14**
	64.8	104	4.3	21.60	**CMB903**	**B5/B14**
	53.2	126	3.6	26.30		**B5/B14**
	46.3	145	3.1	30.25		**B5/B14**
	35.7	189	2.6	39.26		**B5/B14**
	29.6	227	2.2	47.25		**B5/B14**
	24.3	277	1.8	57.52		**B5/B14**
	21.2	318	1.6	66.17		**B5/B14**
	16.8	400	1.2	83.20		**B5/B14**
	13.0	519.8	1.0	108.09		**B5**



Dati tecnici

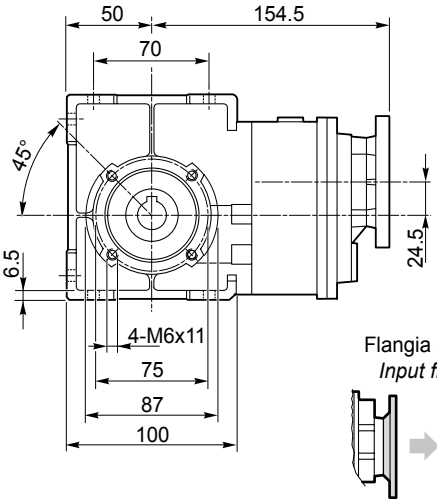
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.1						
90S4 (1400 min^{-1})	**213**	46	3.2	6.58	**CMB633**	**B5/B14**
	175	56	2.7	7.99		**B5/B14**
	143	69	2.2	9.81		**B5/B14**
	134	74	2.0	10.44		**B5/B14**
	112	88	1.7	12.53		**B5/B14**
	105	94	1.6	13.31		**B5/B14**
	88.6	112	1.5	15.81		**B5/B14**
	78.8	125	1.8	17.77		**B5/B14**
	64.9	152	1.4	21.56		**B5/B14**
	52.9	187	1.2	26.48		**B5/B14**
	49.7	199	1.1	28.17		**B5/B14**
	41.4	238	0.9	33.81		**B5/B14**
	39.0	253	0.9	35.92		**B5/B14**
	36.0	274	0.9	38.88		**B5/B14**
	211	47	6.0	6.65	**CMB903**	**B5/B14**
	175	56	5.0	8.00		**B5/B14**
	144	69	4.1	9.74		**B5/B14**
	125	79	3.5	11.21		**B5/B14**
	99.3	99	3.0	14.09		**B5/B14**
	78.0	127	3.6	17.95		**B5/B14**
	64.8	152	3.0	21.60		**B5/B14**
	53.2	185	2.4	26.30		**B5/B14**
	46.3	213	2.1	30.25		**B5/B14**
	35.7	277	1.8	39.26		**B5/B14**
	29.6	333	1.5	47.25		**B5/B14**
	24.3	406	1.2	57.52		**B5/B14**
	21.2	467	1.1	66.17		**B5/B14**
	16.8	587	0.9	83.20		**B5/B14**
1.5						
90L4 (1400 min^{-1})	**213**	63	2.4	6.58	**CMB633**	**B5/B14**
	175	77	2.0	7.99		**B5/B14**
	143	94	1.6	9.81		**B5/B14**
	134	100	1.5	10.44		**B5/B14**
	112	120	1.2	12.53		**B5/B14**
	105	128	1.2	13.31		**B5/B14**
	88.6	152	1.1	15.81		**B5/B14**
	78.8	171	1.3	17.77		**B5/B14**
	64.9	207	1.1	21.56		**B5/B14**
	52.9	255	0.9	26.48		**B5/B14**
	211	64	4.4	6.65	**CMB903**	**B5/B14**
	175	77	3.6	8.00		**B5/B14**
	144	94	3.0	9.74		**B5/B14**
	125	108	2.6	11.21		**B5/B14**
	99.3	136	2.2	14.09		**B5/B14**
	78.0	173	2.6	17.95		**B5/B14**
	64.8	208	2.2	21.60		**B5/B14**
	53.2	253	1.8	26.30		**B5/B14**
	46.3	291	1.5	30.25		**B5/B14**
	35.7	378	1.3	39.26		**B5/B14**
	29.6	454	1.1	47.25		**B5/B14**
	24.3	553	0.9	57.52		**B5/B14**

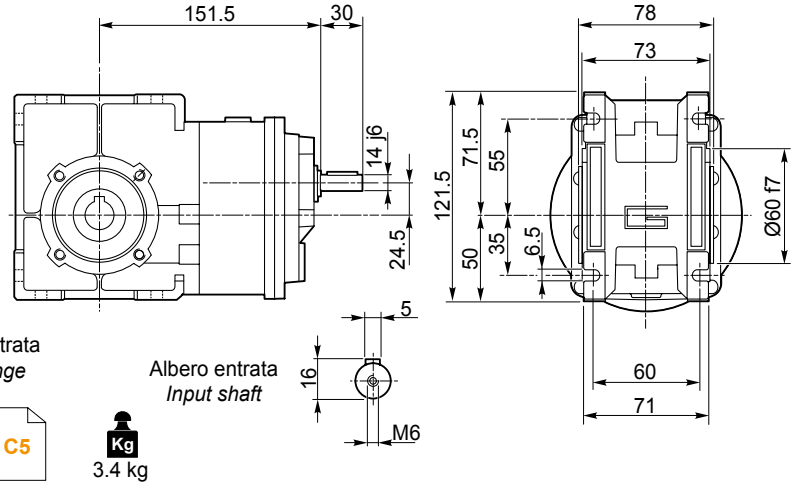
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.85						
90LB4 (1400 min^{-1})	**213**	78	1.9	6.58	**CMB633**	**B5/B14**
	175	95	1.6	7.99		**B5/B14**
	143	116	1.3	9.81		**B5/B14**
	134	124	1.2	10.44		**B5/B14**
	112	149	1.0	12.53		**B5/B14**
	105	158	1.0	13.31		**B5/B14**
	88.6	188	0.9	15.81		**B5/B14**
	78.8	211	1.0	17.77		**B5/B14**
	211	79	3.5	6.65	**CMB903**	**B5/B14**
	175	95	2.9	8.00		**B5/B14**
	144	116	2.4	9.74		**B5/B14**
	125	133	2.1	11.21		**B5/B14**
	99.3	167	1.8	14.09		**B5/B14**
	78.0	213	2.1	17.95		**B5/B14**
	64.8	256	1.8	21.60		**B5/B14**
	53.2	312	1.4	26.30		**B5/B14**
	46.3	359	1.3	30.25		**B5/B14**
	35.7	466	1.1	39.26		**B5/B14**
	29.6	561	0.9	47.25		**B5/B14**
2.2						
100LA4 (1400 min^{-1})	**211**	94	3.0	6.65	**CMB903**	**B5/B14**
	175	113	2.5	8.00		**B5/B14**
	144	137	2.0	9.74		**B5/B14**
	125	158	1.8	11.21		**B5/B14**
	99.3	199	1.5	14.09		**B5/B14**
	78.0	253	1.8	17.95		**B5/B14**
	64.8	305	1.5	21.60		**B5/B14**
	53.2	371	1.2	26.30		**B5/B14**
	46.3	427	1.1	30.25		**B5/B14**
	35.7	554	0.9	39.26		**B5/B14**
3						
100LB4 (1400 min^{-1})	**211**	128	2.2	6.65	**CMB903**	**B5/B14**
	175	154	1.8	8.00		**B5/B14**
	144	187	1.5	9.74		**B5/B14**
	125	216	1.3	11.21		**B5/B14**
	99.3	271	1.1	14.09		**B5/B14**
	78.0	345	1.3	17.95		**B5/B14**
	64.8	416	1.1	21.60		**B5/B14**
	53.2	506	0.9	26.30		**B5/B14**
4						
112M4 (1400 min^{-1})	**211**	171	1.6	6.65	**CMB903**	**B5/B14**
	175	205	1.4	8.00		**B5/B14**
	144	250	1.1	9.74		**B5/B14**
	125	287	1.0	11.21		**B5/B14**
	99.3	361	0.8	14.09		**B5/B14**
	78.0	460	1.0	17.95		**B5/B14**

CMB 402.. - CMBIS 402..

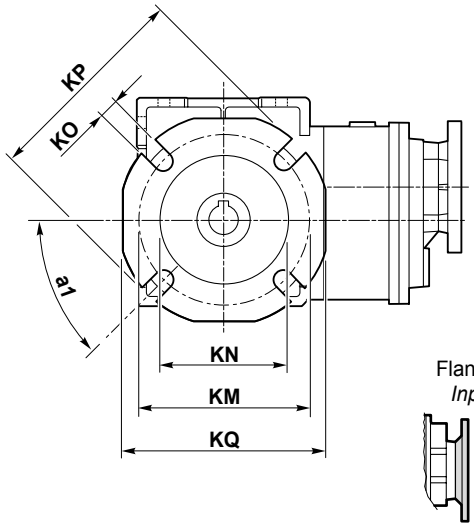
CMB 402 U..



CMBIS 402 U..



CMB 402 F..



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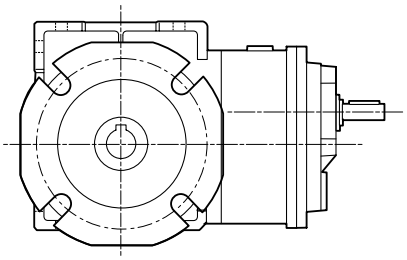
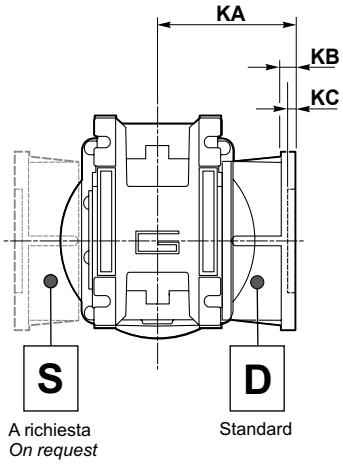
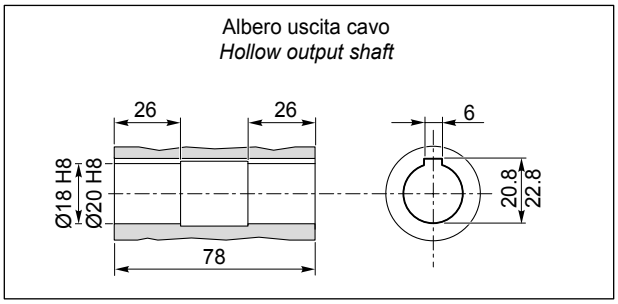
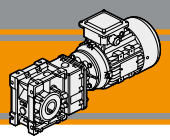




Versione **F** / ***F** Version*										
CMB CMBIS	**a_1**	**KA**	**KB**	**KC**	**KM**	**KN** H8	**KO**	**KP**	**KQ**	**Flangia / *Flange*** Tipo / *Type*
402	45°	67	7.5	4.5	80-95	60	9	110	95	**F**
	45°	97	7.5	4.5	80-95	60	9	110	95	**FL**
	45°	80	8.5	5	115-125	95	9.5	140	112	**FB**

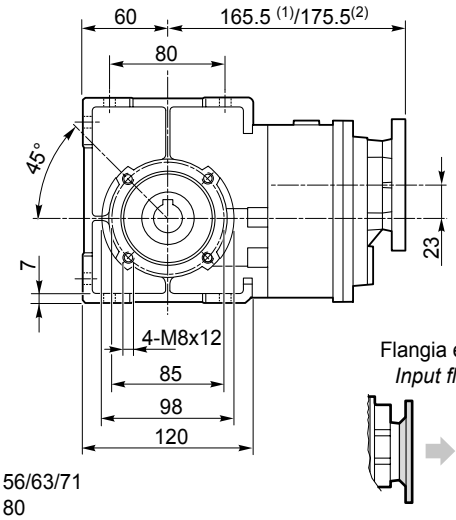
CMB 402.. D.. - CMBIS 402.. D..





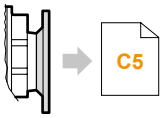
CMB 502.. - CMBIS 502..

CMB 502 U..



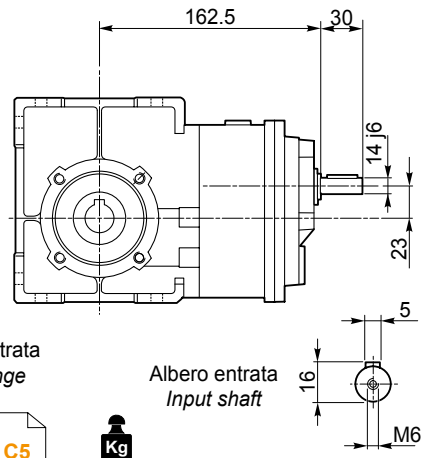
(1)IEC 56/63/71
(2)IEC 80

Flangia entrata
Input flange

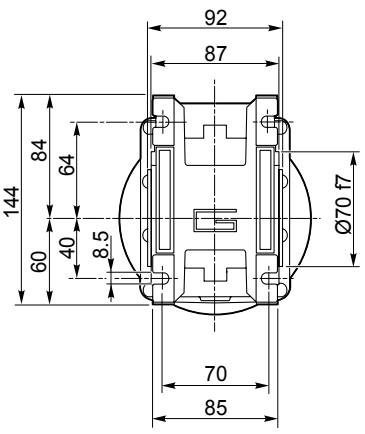


Kg
(1) 4.7 kg
(2) 5.0 kg

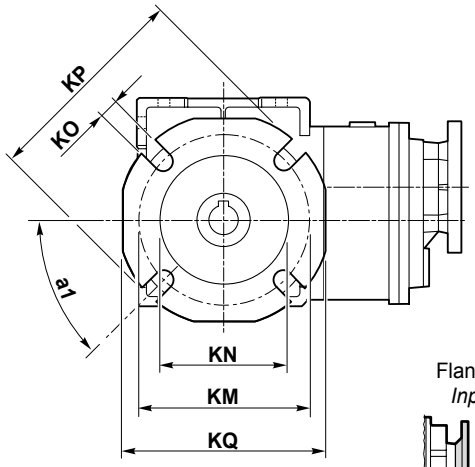
CMBIS 502 U..



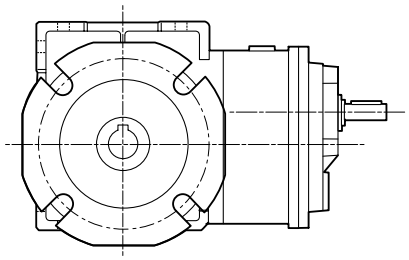
Albero entrata
Input shaft



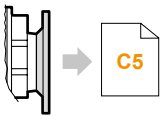
CMB 502 F..



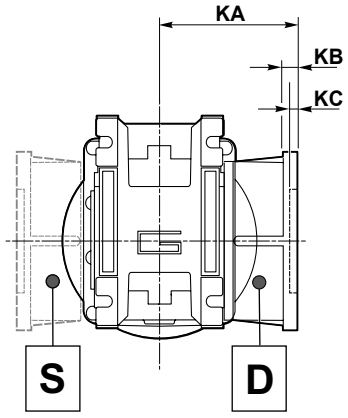
CMBIS 502 F..



Flangia entrata
Input flange



Kg
4.8 kg



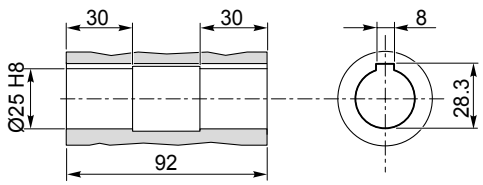
A richiesta
On request

Standard

Versione **F** / ***F** Version*										
CMB CMBIS	**a_1**	**KA**	**KB**	**KC**	**KM**	**KN** H8	**KO**	**KP**	**KQ**	**Flangia / *Flange*** Tipo / *Type*
502	45°	90	9	5	90-110	70	11	125	110	**F**
	45°	120	9	5	90-110	70	11	125	110	**FL**
	45°	89	9	5	130-145	110	9.5	160	132	**FB**

CMB 502.. D.. - CMBIS 502.. D..

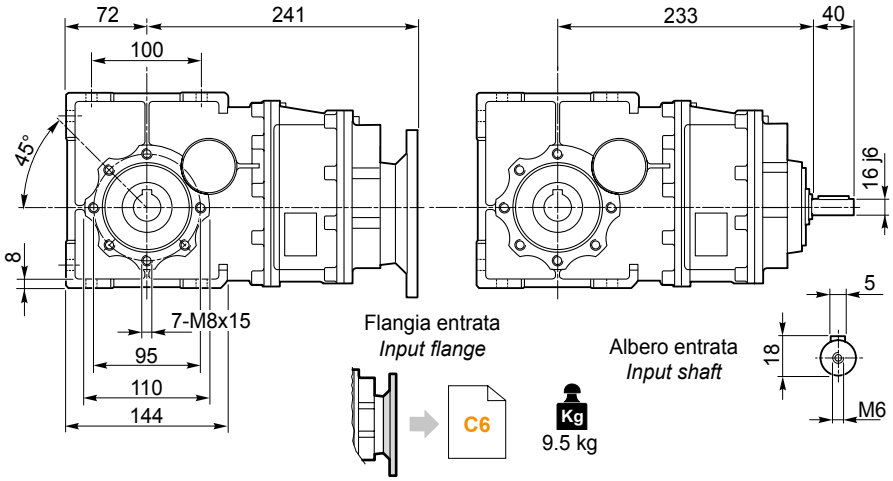
Albero uscita cavo
Hollow output shaft



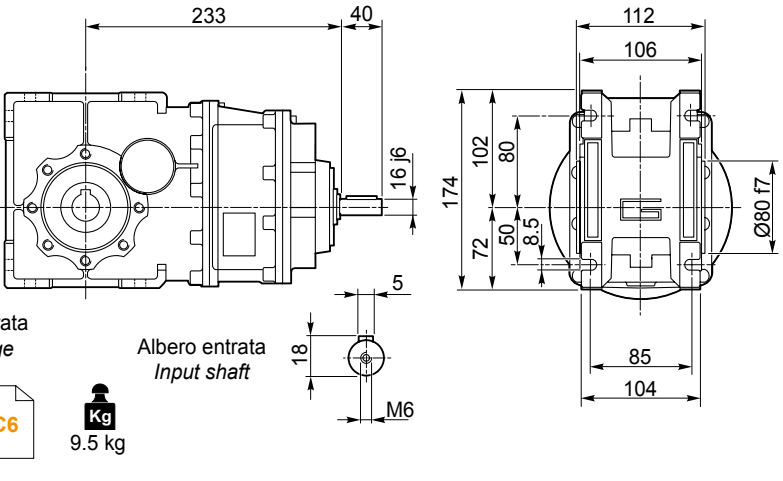
Dimensioni ***Dimensions***

CMB 633.. - CMBIS 633..

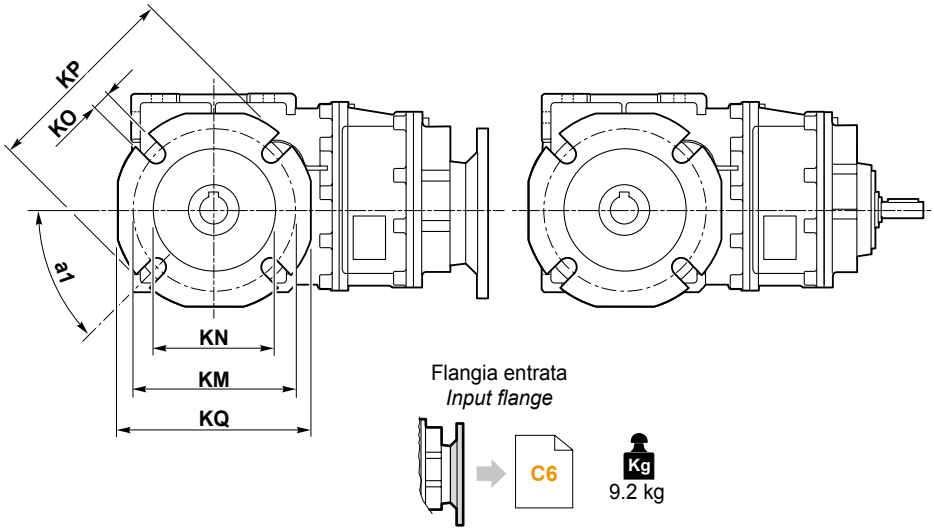
CMB 633 U..



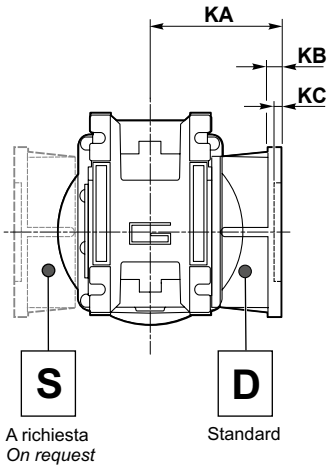
CMBIS 633 U..



CMB 633 F..



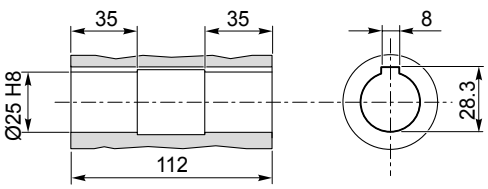
CMBIS 633 F..

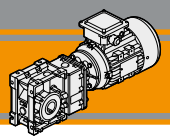


Versione **F** / ***F** Version*										
CMB CMBIS	**a_1**	**KA**	**KB**	**KC**	**KM**	**KN** H8	**KO**	**KP**	**KQ**	**Flangia / *Flange*** Tipo / *Type*
633	45°	82	10	6	150-160	115	11	180	142	**F**
	45°	112	10	8	150-160	115	11	180	142	**FL**
	45°	98	11	5	165	130	11	200	160	**FB**

CMB 633.. D.. - CMBIS 633.. D..

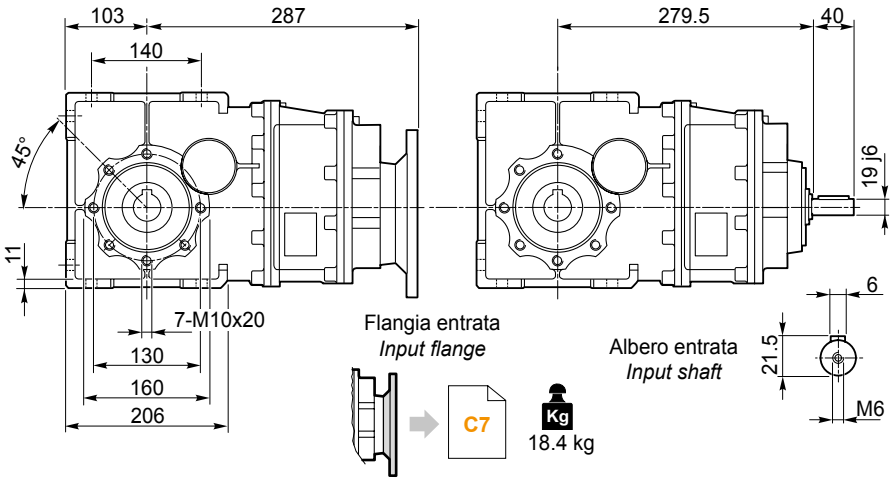
Albero uscita cavo
Hollow output shaft



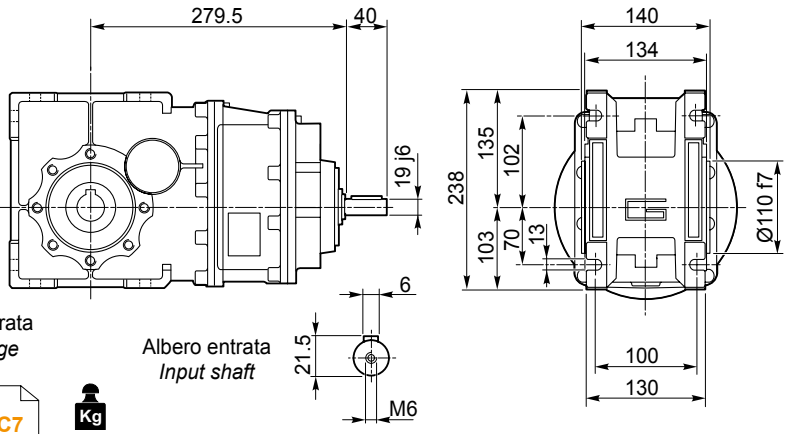


CMB 903.. - CMBIS 903..

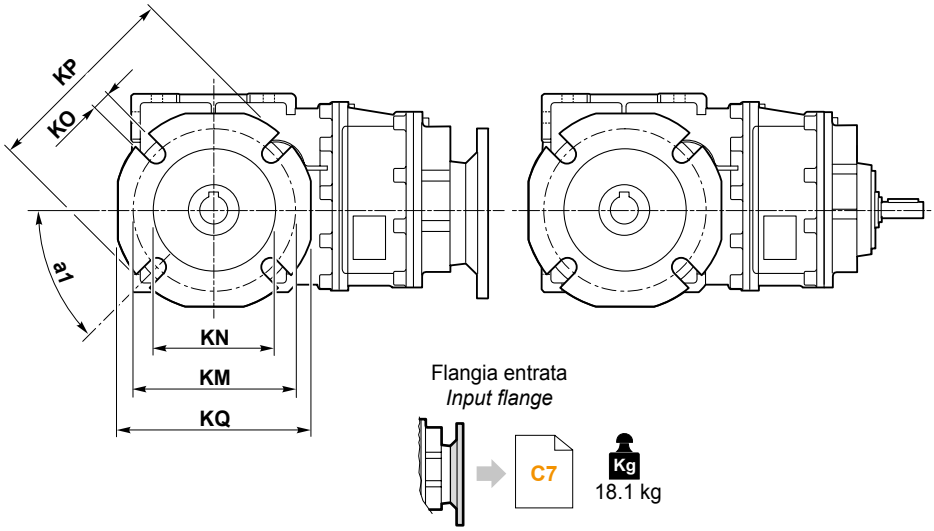
CMB 903 U..



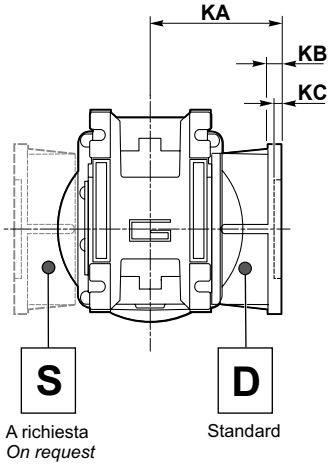
CMBIS 903 U..



CMB 903 F..

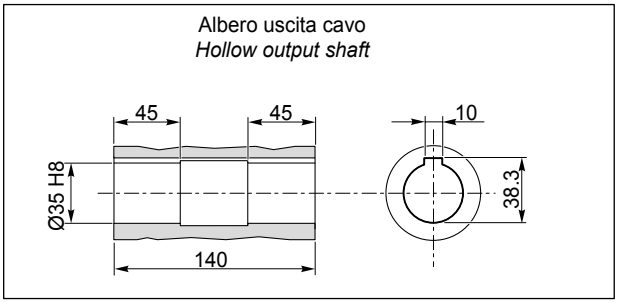


CMBIS 903 F..

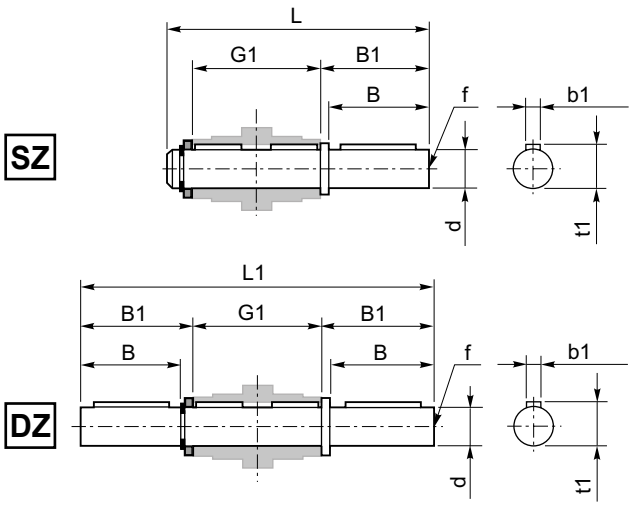


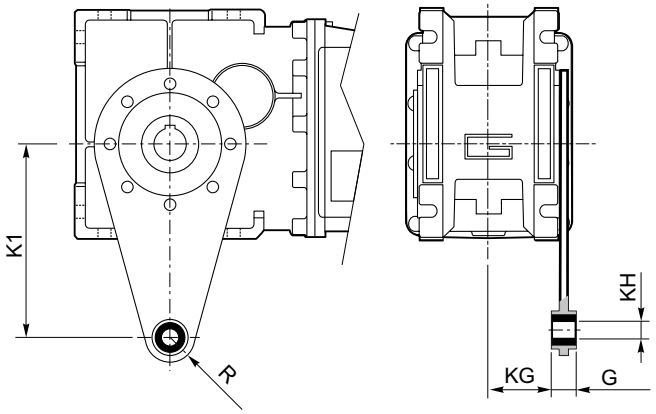
Versione **F** / ***F** Version*										
CMB CMBIS	**a_1**	**KA**	**KB**	**KC**	**KM**	**KN** H8	**KO**	**KP**	**KQ**	**Flangia / *Flange*** Tipo / *Type*
903	45°	111	13	6	175-188	152	14	210	200	**F**

CMB 903.. D.. - CMBIS 903.. D..



Accessori / *Accessories*





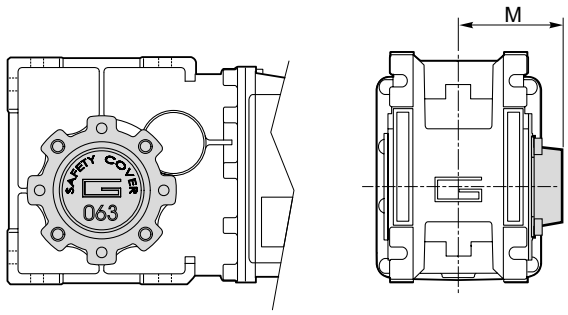
Albero lento / *Output shaft*

CMB CMBIS	d h7	B	B1	G1	L	L1	f	b1	t1
402	18	40	43	78	128	164	M6	6	20.5
502	25	50	53.5	92	153	199	M10	8	28
633	25	50	53.5	112	173	219	M10	8	28
903	35	80	84.5	140	234	309	M12	10	38

Braccio di reazione / *Torque arm*

CMB CMBIS	K1	G	KG	KH	R
402	100	14	31	10	18
502	100	14	38	10	18
633	150	14	47.5	10	18
903	200	25	56.5	20	30

SC - *Safety cover*



CMB CMBIS	M
402	54.5
502	62.5
633	73
903	94

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the modular gearmotor

KFT105

KFT105

KFT105 Alù

Motoriduttori pendolari
Helical parallel gearmotors

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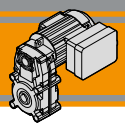

ENERGY SAVING

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Simbologia	*Symbols*	**D3**
Lubrificazione	*Lubrication*	**D3**
Carichi radiali	*Radial loads*	**D3**
Dati tecnici	*Technical data*	**D4**
Dati tecnici elettrici	*Electrical technical data*	**D5**
Dimensioni	*Dimensions*	**D6**

Questa sezione annulla e sostituisce ogni precedente edizione o revisione. Qualora questa sezione non Vi sia giunta in distribuzione controllata, l'aggiornamento dei dati ivi contenuto non è assicurato. **In tal caso la versione più aggiornata è disponibile sul nostro sito internet www.transtecno.com**

This section replaces any previous edition and revision. If you obtained this catalogue other than through controlled distribution channels, the most up to date content is not guaranteed. ***In this case the latest version is available on our web site www.transtecno.com***

Caratteristiche tecniche

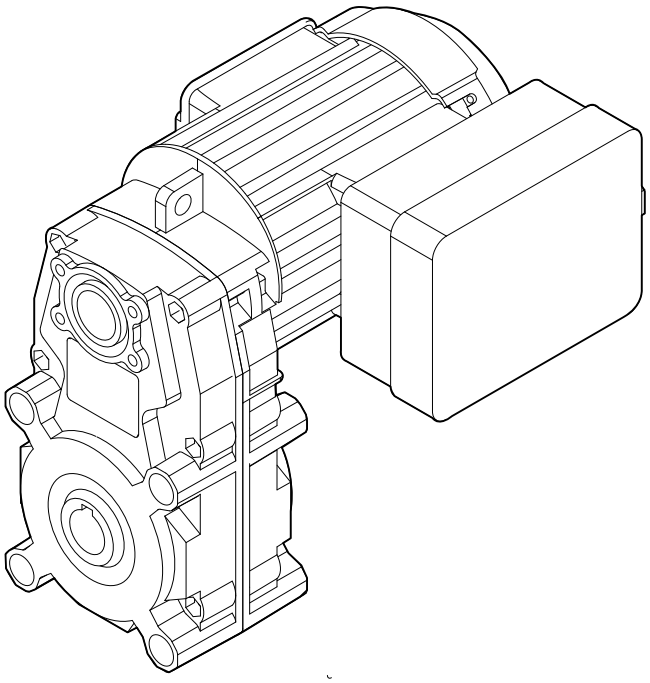
Technical features

I motoriduttori pendolari della serie KFT105 hanno le seguenti caratteristiche principali:

- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa in pressofusione di alluminio
- Ingranaggi cilindrici a denti elicoidali
- Lubrificazione permanente con olio sintetico
- Disponibili a 3 e 4 stadi di riduzione

KFT105 helical parallel gearmotors range has the following main features:

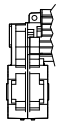
- *Compact design*
- *AC single phase and three phase motors available*
- *Die-cast aluminum housings*
- *Helical gears*
- *Permanent synthetic oil long-life lubrication*
- *Available with 3 and 4 reduction stages*



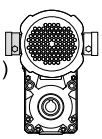
Designazione

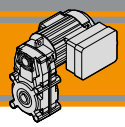
Classification

RIDUTTORE / *GEARBOX*

KFT	105/3	U	88.87	O20
Tipo *Type*	Grandezza *Size*	Versione *Version*	Rapporto *Ratio*	Albero cavo uscita *Hollow output shaft*
KFT 	**105/3** **105/4**	**U...** **F...**	vedi tabelle *see tables*	vedi tabelle *see tables*

MOTORE / *MOTOR*

40W	4p	3ph	230/400V	50Hz	T1	TEFC
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*	Ventilazione *Fan cooling*
vedi tabelle *see tables*	**2p** **4p** **6p**	**1ph** **3ph**	**230V** **...** **230/400V** **...**	**50Hz** **60Hz**	**T4** (Std)  **T2**	**TEFC** **TENV**



Simbologia / *Symbols*

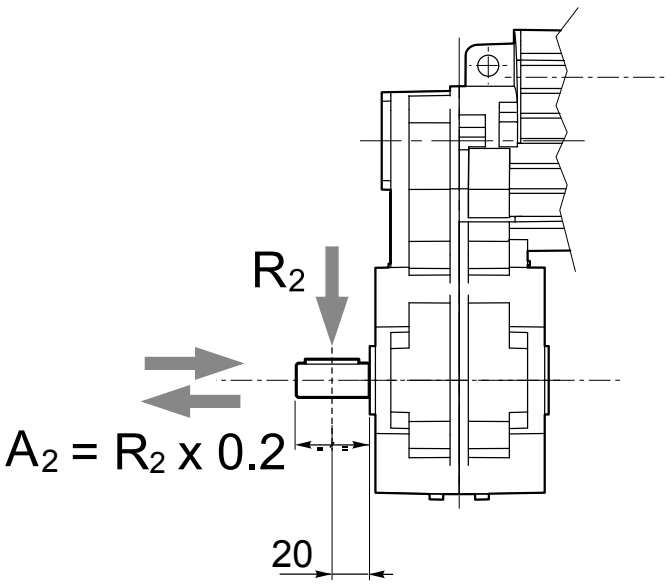
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*
i		Rapporto di riduzione / *Ratio*
P_1	[kW]	Potenza in entrata / *Input power*
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / *Output torque referred to P_1*
Pn_1	[kW]	Potenza nominale in entrata / *Nominal input power*
Mn	[Nm]	Coppia nominale / *Nominal torque*
sf		Fattore di servizio / *Service factor*
R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*
V	[N]	Tensione / *Voltage*
F	[Hz]	Frequenza / *Frequency*
I_n	[A]	Corrente nominale / *Nominal current*
I_s	[A]	Corrente di spunto / *Start current*
cosØ		Fattore di potenza / *Power factor*
C	[µ]	Capacità del condensatore / *Capacitor*

Lubrificazione / *Lubrication*

Tutti i motoriduttori sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.

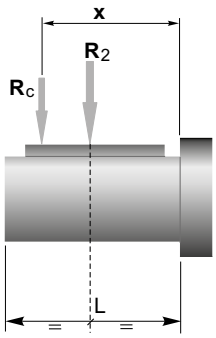
Carichi radiali / *Radial loads*



n_2 [min^{-1}]	R_2 [N]
	KFT105
70	1500
40	1700
30	1850
20	2000
10	2000
5	2000

Quando il carico radiale risultante non è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:



	KFT105
a	82
b	62
R_{2MAX}	2000

$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valori riportati nella tabella
a, b = values given in the table

Dati tecnici

Technical data

25

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
68	3	12.1	40	20.57	**KFT105/3**
42	5	9.4	50	33.32	
32	7	9.1	65	44.36	
26	9	7.4	65	54.87	
19	12	5.6	65	71.84	
18	12	5.3	65	77.07	
16	14	4.6	65	88.87	
11	20	3.2	65	124.81	
7.7	29	2.2	65	181.35	
6.2	36	1.8	65	224.32	
4.4	51	1.3	65	315.05	
3.8	58	1.1	65	368.19	**KFT105/4**
2.6	84	0.8	65	534.98	
2.1	104	0.63	65	661.76	
1.5	120	0.54	65	929.40	

40

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
68	5	7.6	40	20.57	**KFT105/3**
42	9	5.9	50	33.32	
32	11	5.7	65	44.36	
26	14	4.6	65	54.87	
19	18	3.5	65	71.84	
18	20	3.3	65	77.07	
16	23	2.9	65	88.87	
11	32	2.0	65	124.81	
7.7	47	1.4	65	181.35	
6.2	58	1.1	65	224.32	
4.4	81	0.8	65	315.05	
3.8	92	0.7	65	368.19	**KFT105/4**
2.6	120	0.54	65	534.98	
2.1	120	0.54	65	661.76	
1.5	120	0.54	65	929.40	

60

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
68	8	5.1	40	20.57	**KFT105/3**
42	13	3.9	50	33.32	
32	17	3.8	65	44.36	
26	21	3.1	65	54.87	
19	28	2.4	65	71.84	
18	30	2.2	65	77.07	
16	34	1.9	65	88.87	
11	48	1.4	65	124.81	
7.7	70	0.9	65	181.35	
6.2	86	0.8	65	224.32	
4.4	110	0.59	65	315.05	
3.8	120	0.54	65	368.19	**KFT105/4**
2.6	120	0.54	65	534.98	
2.1	120	0.54	65	661.76	
1.5	120	0.54	65	929.40	

90

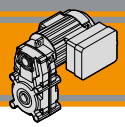
P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
68	12	3.4	40	20.57	**KFT105/3**
42	19	2.6	50	33.32	
32	26	2.5	65	44.36	
26	32	2.1	65	54.87	
19	41	1.6	65	71.84	
18	44	1.5	65	77.07	
16	51	1.3	65	88.87	
11	72	0.9	65	124.81	
7.7	105	0.62	65	181.35	
6.2	110	0.59	65	224.32	
4.4	110	0.59	65	315.05	
3.8	120	0.54	65	368.19	**KFT105/4**
2.6	120	0.54	65	534.98	
2.1	120	0.54	65	661.76	
1.5	120	0.54	65	929.40	

120

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
68	16	2.5	40	20.57	**KFT105/3**
42	26	2.0	50	33.32	
32	34	1.9	65	44.36	
26	42	1.5	65	54.87	
19	55	1.2	65	71.84	
18	59	1.1	65	77.07	
16	68	1.0	65	88.87	
11	96	0.7	65	124.81	
7.7	110	0.59	65	181.35	
6.2	110	0.59	65	224.32	
4.4	110	0.59	65	315.05	
3.8	120	0.54	65	368.19	**KFT105/4**
2.6	120	0.54	65	534.98	
2.1	120	0.54	65	661.76	
1.5	120	0.54	65	929.40	

N.B.
Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio

N.B.
Please check that the output torque M2 does not exceed the value in the grey areas



Dati tecnici elettrici

Electrical technical data

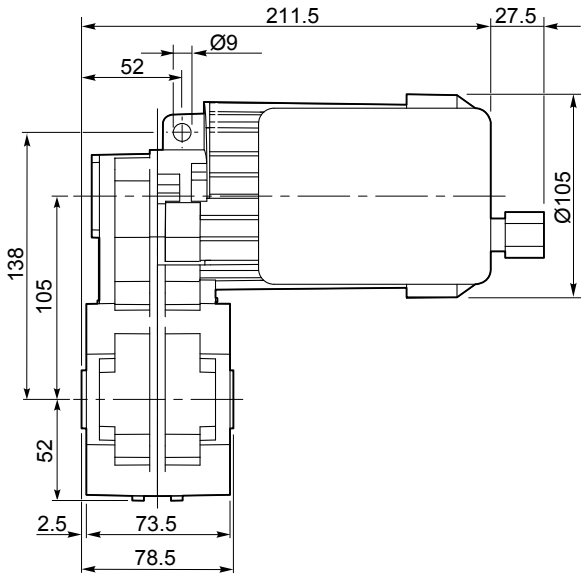
	P_n [W]	V [V]	F [Hz]	I_n [A]	I_s [A]	cosØ	C [µF]
1 Ph	25	230	50	0.42	0.84	0.87	6.0
	40			0.47	0.86	0.91	6.3
	60			0.74	1.50	0.82	8.0
	90			0.82	1.60	0.93	12.5
	120			1.38	3.10	0.81	14.0

	P_n [W]	V [V]	F [Hz]	I_n [A]	I_s [A]	cosØ
3 Ph	25	230	50	0.41	0.97	0.54
		400		0.24	0.56	0.54
	40	230	50	0.43	0.97	0.62
		400		0.25	0.56	0.62
	60	230	50	0.72	1.80	0.48
		400		0.42	1.04	0.48
	90	230	50	0.74	1.80	0.60
		400		0.44	1.04	0.60
	120	230	50	1.34	3.70	0.50
		400		0.87	2.13	0.50

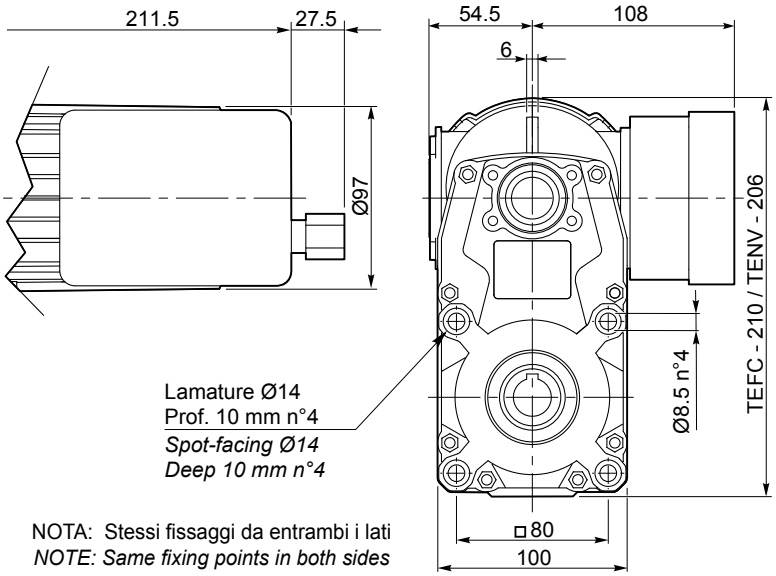
Dimensioni ***Dimensions***

KFT 105... 25W - 40W - 60W - 90W

KFT 105...1 Ph...TEFC

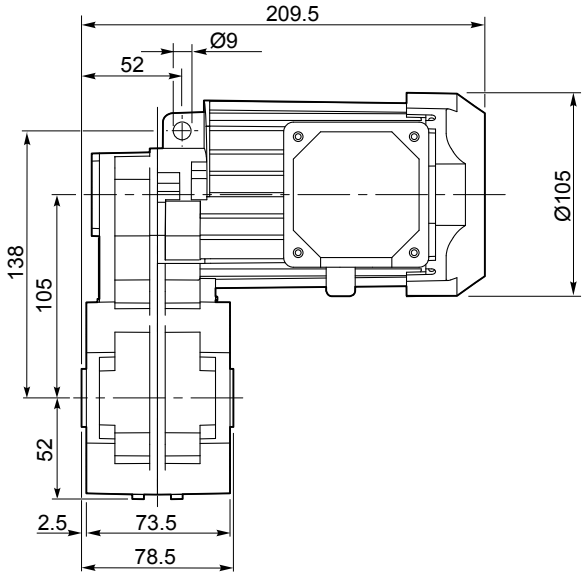


KFT 105...1 Ph...TENV

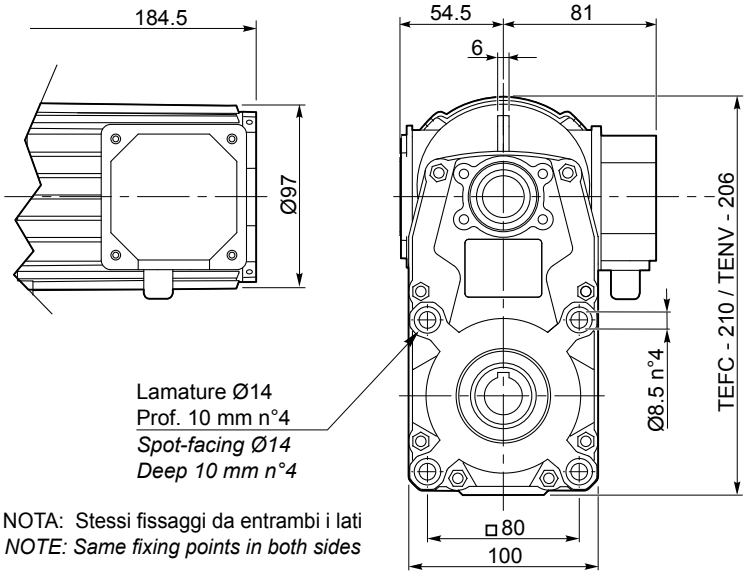


NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

KFT 105...3 Ph... TEFC

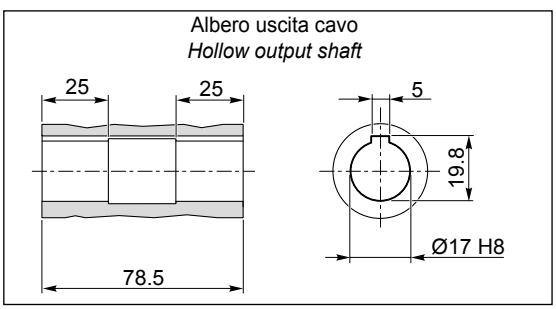


KFT 105...3 Ph... TENV

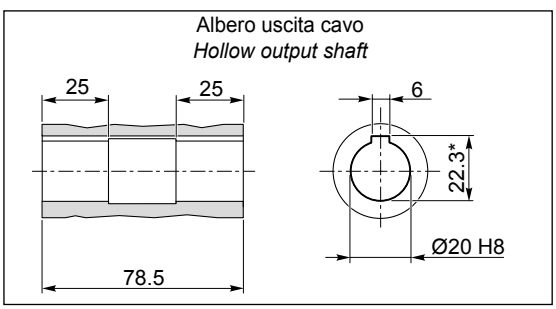


NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

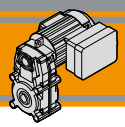
O17



O20

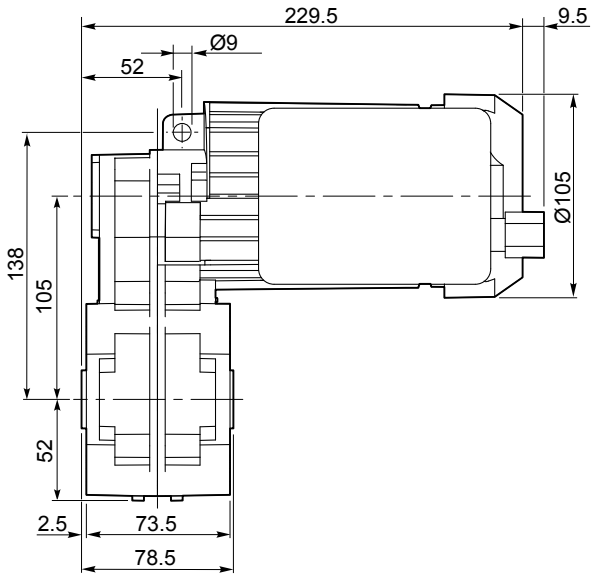


*Sede linguetta ribassata / *Special Keyway*

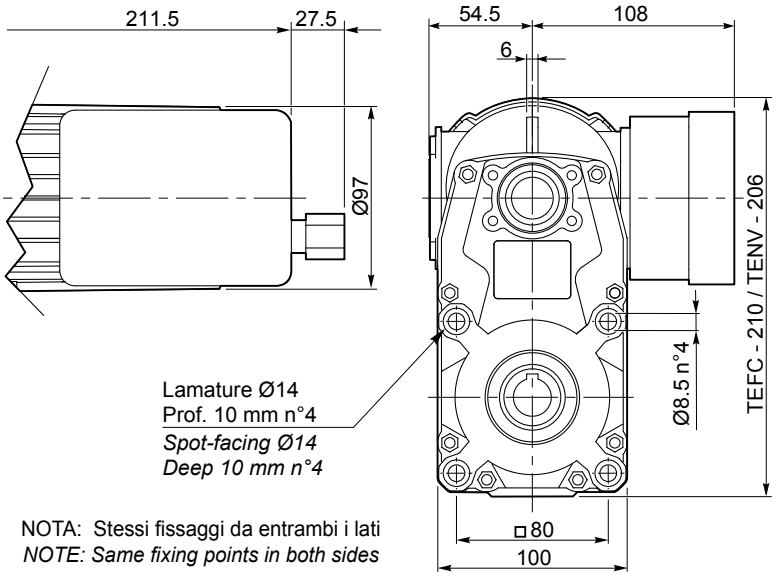


KFT 105... 120W

KFT 105...1 Ph... TEFC

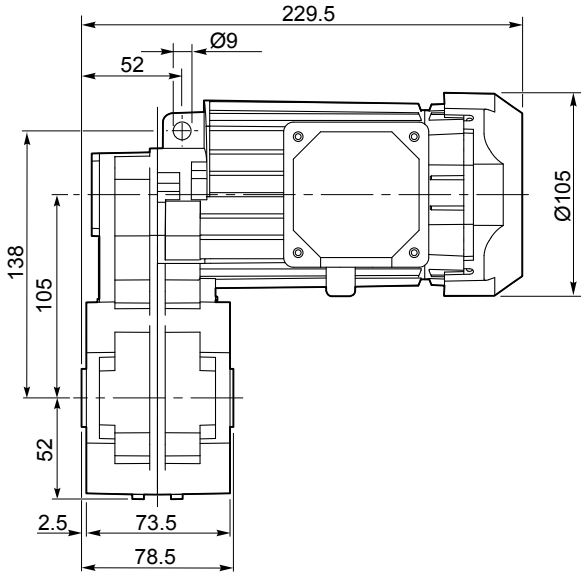


KFT 105...1 Ph...TENV

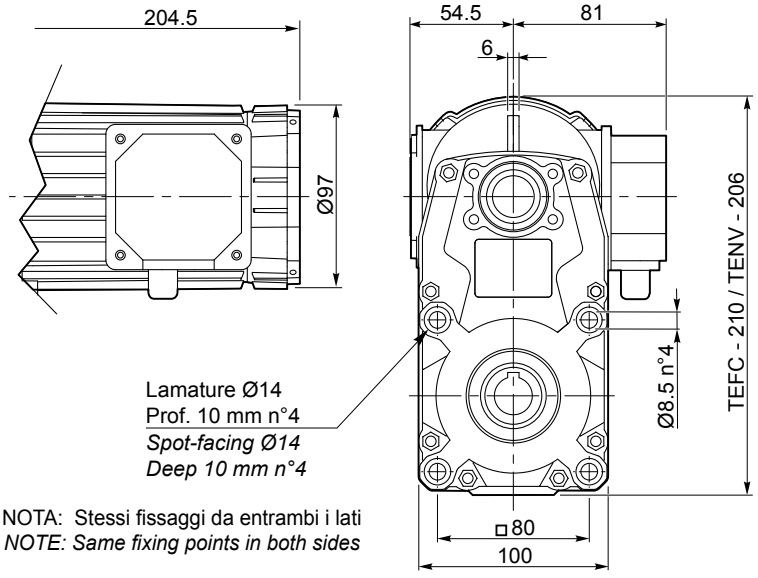


NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

KFT 105...3 Ph... TEFC

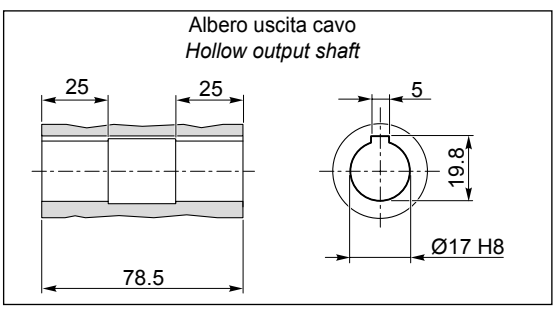


KFT 105...3 Ph... TENV

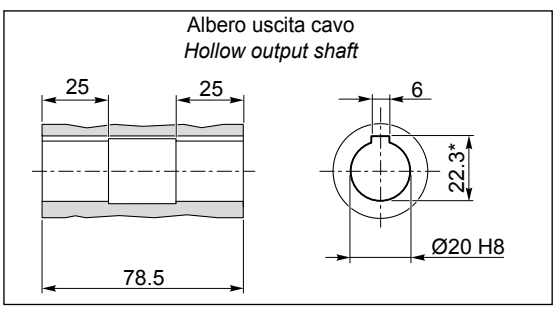


NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

O17



O20



*Sede linguetta ribassata/ *Special Keyway*

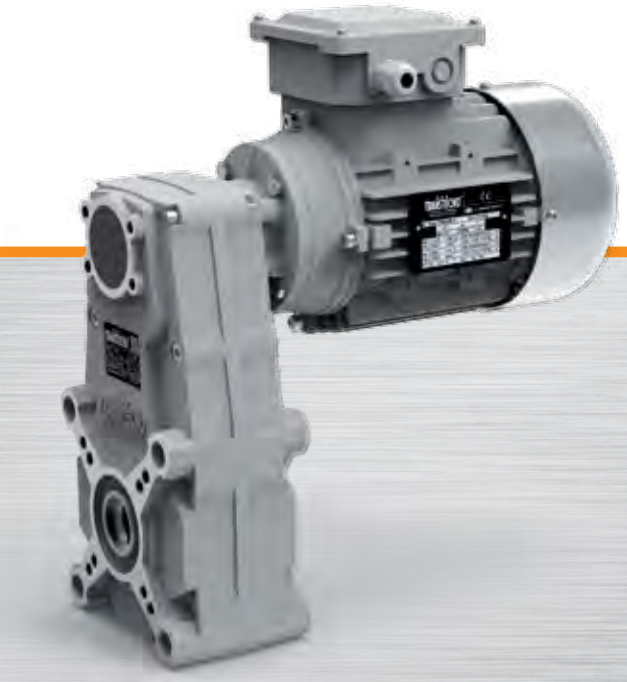
TRANSTECNO®
the modular gearmotor

FT

FT

FT Alù

Motoriduttori pendolari
Helical parallel gearmotors



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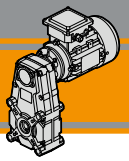

ENERGY SAVING

Indice	*Index*	Pag. *Page*
Caratteristiche tecniche	*Technical features*	**E2**
Designazione	*Classification*	**E2**
Sensi di rotazione	*Direction of rotation*	**E3**
Simbologia	*Symbols*	**E3**
Lubrificazione	*Lubrication*	**E3**
Carichi radiali	*Radial loads*	**E4**
Dati tecnici	*Technical data*	**E5**
Dimensioni	*Dimensions*	**E8**

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Caratteristiche tecniche

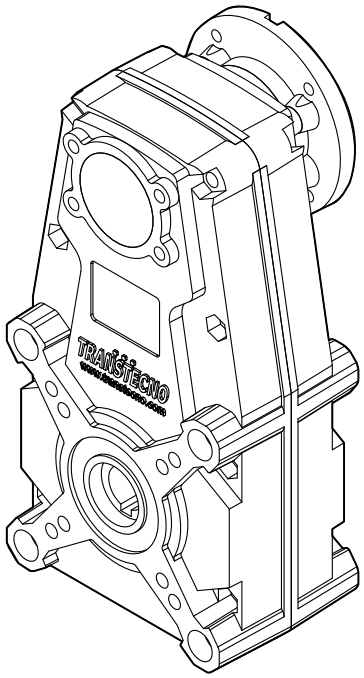
Technical features

I motoriduttori pendolari della serie FT hanno le seguenti caratteristiche principali:

- Carcassa in pressofusione di alluminio
- Lubrificazione permanente con olio sintetico.
- Ingranaggi cilindrici a denti elicoidali.

FT helical parallel gearmotors range has the following main features:

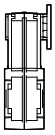
- *Die-cast aluminum housings*
- *Permanent synthetic oil long-life lubrication.*
- *helical gears.*



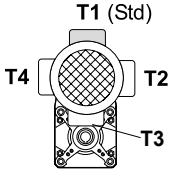
Designazione

Classification

RIDUTTORE / *GEARBOX*

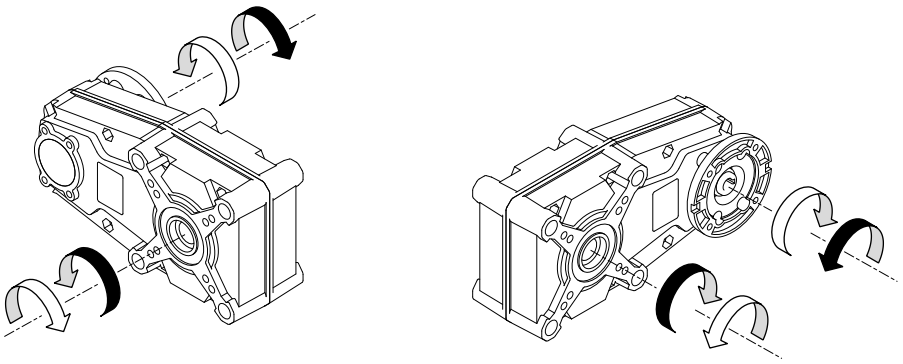
FT	146	U	60.63	O20	56	B5
Tipo *Type*	Grandezza *Size*	Versione *Version*	Rapporto *Ratio*	Albero cavo uscita *Hollow output shaft*	IEC	Forma costruttiva *Version*
FT 	**105/3** **105/4** **146** **196**	**U...**	vedi tabelle *see tables*	vedi tabelle *see tables*	**56** **63** **71** **80** **90**	**B5** **B14**

MOTORE / *MOTOR*

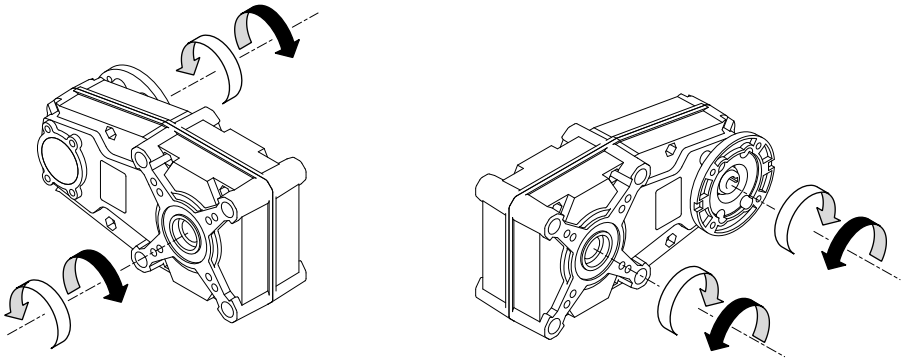
0.09kW	4p	3ph	230/400V	50Hz	T1
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*
vedi tabelle *see tables*	**2p** **4p** **6p** **8p**	**1ph** **3ph**	**230V** **230/400V**	**50Hz** **60Hz**	**T1** (Std) 

Sensi di rotazione — *Direction of rotation*

FT105/3
FT146
FT196



FT105/4



Simbologia — *Symbols*

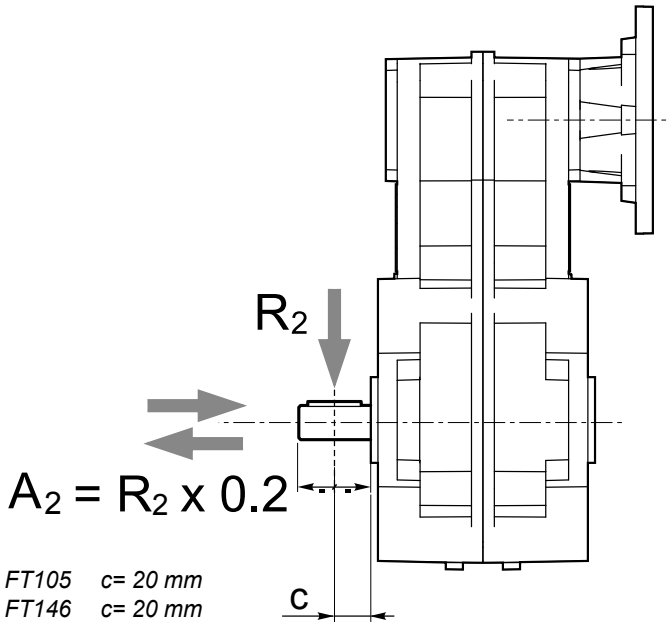
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*
i		Rapporto di riduzione / *Ratio*
P_1	[kW]	Potenza in entrata / *Input power*
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / *Output torque referred to* P_1
Pn_1	[kW]	Potenza nominale in entrata / *Nominal input power*
Mn_2	[Nm]	Coppia nominale in uscita in funzione di Pn_1 / *Nominal output torque referred to* Pn_1
sf		Fattore di servizio / *Service factor*
R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*

Lubrificazione — *Lubrication*

Tutti i motoriduttori sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.

Carichi radiali — *Radial loads*

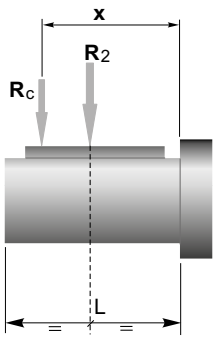


FT105 c= 20 mm
FT146 c= 20 mm
FT196 c= 30 mm

n_2 [min^{-1}]	R_2 [N]		
	FT105	FT146	FT196
70	1500	2500	3500
40	1700	2700	4000
30	1850	2850	4600
20	2000	3000	5500
10	2000	3000	7000
5	2000	3000	7000

Quando il carico radiale risultante non è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:

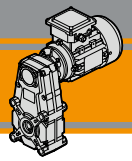


	FT105	FT146	FT196
a	82	82,5	132
b	62	62,5	102
R_{2MAX}	2000	3000	7000

$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valori riportati nella tabella
a, b = values given in the table



Dati tecnici — n_1 1400 min^{-1} — *Technical data*

	n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motori applicabili / *IEC Motor adapters*
FT105					**56B14**
FT105/3	**68**	40	0.30	20.57	
	42	50	0.23	33.32	
	32	65	0.23	44.36	
	26	65	0.18	54.87	
	20	65	0.14	71.84	
	18	65	0.13	77.07	
	16	65	0.11	88.87	
	11	65	0.081	124.81	
	7.7	65	0.056	181.35	
	6.2	65	0.045	224.32	
	4.4	65	0.032	315.05	
FT105/4	**3.8**	65	0.028	368.19	
	2.6	65	0.019	534.98	
	2.1	65	0.015	661.76	
	1.5	65	0.011	929.40	
FT146					**56 B5/B14** / **63 B5/B14** / **71 B5/B14**
	75	80	0.65	18.75	
	53		0.47	26.17	
	50		0.43	28.26	
	40	100	0.44	35.07	
	35		0.39	39.44	
	30		0.33	46.44	
	26		0.29	52.86	
	23	110	0.28	60.63	
	20		0.24	70.00	
	17		0.20	84.63	
	15		0.18	95.61	
	12		0.15	113.40	*
	10		0.13	133.45	*
	9.3		0.11	150.18	*
	8.7	120	0.11	160.43	*
	7.8		0.10	178.83	*
	6.3		0.082	223.92	*
	5.9		0.077	236.83	* *
	4.7		0.061	300.07	* *
	3.5		0.046	397.38	* *
FT196					**71 B5/B14** / **80 B5/B14** / **90 B5/B14**
	69	350	2.6	20.41	
	40	400	1.8	34.81	
	33	450	1.6	42.61	
	24	500	1.3	59.36	
	19	550	1.1	72.68	
	15		0.92	92.82	
	11		0.69	123.95	
	8.9		0.51	158.02	
	6.9		0.42	201.80	
	5.2		0.32	269.47	

N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.

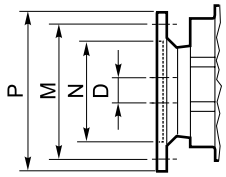
*** =** Il fattore di servizio (**sf**) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle pag. E6.

N.B.
Highlighted areas indicate motor inputs available on each size of unit.

*** =** *The service factor (**sf**) has to be selected depending on application: please contact our Technical Department.*

Before selecting any gearbox, please read the performance values shown in the tables on page E6.



Dimensioni IEC / *IEC Dimensions*										
	56 B5	**56 B14**	**63 B5**	**63 B14**	**71 B5**	**71 B14**	**80 B5**	**80 B14**	**90 B5**	**90 B14**
N	80	50	95	60	110	70	130	80	130	95
M	100	65	115	75	130	85	165	100	165	115
P	120	80	140	90	160	105	200	120	200	140
	9		11		14		19		24	

Dati tecnici

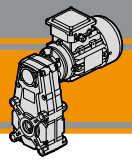
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.09						
56B4 (1400 min^{-1})	**68**	12	3.4	20.57	**FT105/3**	**B14**
	42	19	2.6	33.32		**B14**
	32	26	2.5	44.36		**B14**
	26	32	2.1	54.87		**B14**
	20	41	1.6	71.84		**B14**
	18	44	1.5	77.07		**B14**
	16	51	1.3	88.87		**B14**
	11	72	0.90	124.81		**B14**
	7.7	105	0.62	181.35		**B14**
	6.2	110	0.59	224.32		**B14**
	4.4	110	0.59	315.05		**B14**
	3.8	120	0.54	368.19	**FT105/4**	**B14**
	2.6	120	0.54	534.98		**B14**
	2.1	120	0.54	661.76		**B14**
	1.5	120	0.54	929.40		**B14**
	75	11	7.4	18.75	**FT146**	**B5/B14**
	53	15	5.3	26.17		**B5/B14**
	50	16	4.9	28.26		**B5/B14**
	40	20	4.9	35.07		**B5/B14**
	35	23	4.4	39.44		**B5/B14**
	30	27	3.7	46.44		**B5/B14**
	27	31	3.3	52.86		**B5/B14**
	23	35	3.1	60.63		**B5/B14**
	20	40	2.7	70.00		**B5/B14**
	17	49	2.3	84.63		**B5/B14**
	15	55	2.0	95.61		**B5/B14**
	12	65	1.7	113.40		**B5/B14**
	10	77	1.4	133.45		**B5/B14**
	9.3	87	1.3	150.18		**B5/B14**
	8.7	93	1.3	160.43		**B5/B14**
	7.8	103	1.2	178.83		**B5/B14**
	6.3	129	0.94	223.92		**B5/B14**
	5.9	137	0.88	236.83		**B5/B14**
	4.7	170	0.70	300.07		**B5/B14**
	3.5	170	0.70	397.38		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.12						
63A4 (1400 min^{-1})	**75**	14	5.6	18.75	**FT146**	**B5/B14**
	53	20	4.0	26.17		**B5/B14**
	50	22	3.7	28.26		**B5/B14**
	40	27	3.7	35.07		**B5/B14**
	35	30	3.3	39.44		**B5/B14**
	30	36	2.8	46.44		**B5/B14**
	26	41	2.5	52.86		**B5/B14**
	23	47	2.4	60.63		**B5/B14**
	20	54	2.0	70.00		**B5/B14**
	17	65	1.7	84.63		**B5/B14**
	15	74	1.5	95.61		**B5/B14**
	12	87	1.3	113.40		**B5/B14**
	10	103	1.1	133.45		**B5/B14**
	9.3	116	0.95	150.18		**B5/B14**
	8.7	123	0.97	160.43		**B5/B14**
	7.8	138	0.87	178.83		**B5/B14**
	6.3	172	0.70	223.92		**B5/B14**
0.18						
63B4 (1400 min^{-1})	**75**	22	3.7	18.75	**FT146**	**B5/B14**
	53	30	2.6	26.17		**B5/B14**
	50	33	2.5	28.26		**B5/B14**
	40	40	2.5	35.07		**B5/B14**
	35	46	2.2	39.44		**B5/B14**
	30	54	1.9	46.44		**B5/B14**
	26	61	1.6	52.86		**B5/B14**
	23	70	1.6	60.63		**B5/B14**
	20	81	1.4	70.00		**B5/B14**
	17	98	1.1	84.63		**B5/B14**
	15	110	1.0	95.61		**B5/B14**
	12	131	0.84	113.40		**B5/B14**
	10	154	0.72	133.45		**B5/B14**
0.22						
63C4 (1400 min^{-1})	**75**	26	3.0	18.75	**FT146**	**B5/B14**
	53	37	2.2	26.17		**B5/B14**
	50	40	2.0	28.26		**B5/B14**
	40	49	2.0	35.07		**B5/B14**
	35	56	1.8	39.44		**B5/B14**
	30	66	1.5	46.44		**B5/B14**
	26	75	1.3	52.86		**B5/B14**
	23	86	1.3	60.63		**B5/B14**
	20	99	1.1	70.00		**B5/B14**
	17	119	0.93	84.63		**B5/B14**
	15	135	0.82	95.61		**B5/B14**

N.B.
Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio

N.B.
Please check that the output torque M2 does not exceed the value in the grey areas



Dati tecnici — *Technical data*

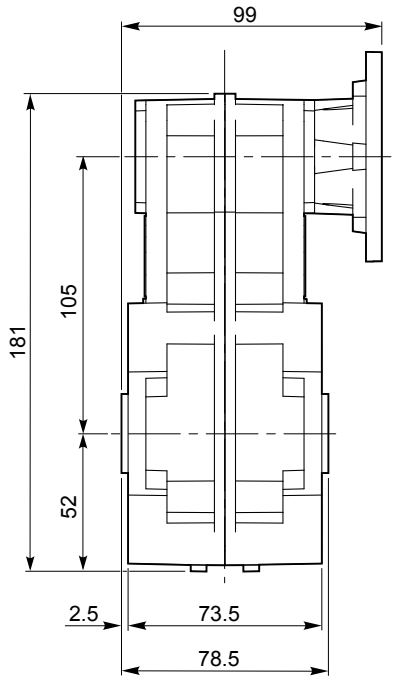
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.25						
71A4 (1400 min^{-1})	**75**	30	2.7	18.75	**FT146**	**B5/B14**
	53	42	1.9	26.17		**B5/B14**
	50	45	1.8	28.26		**B5/B14**
	40	56	1.8	35.07		**B5/B14**
	35	63	1.6	39.44		**B5/B14**
	30	74	1.3	46.44		**B5/B14**
	26	85	1.2	52.86		**B5/B14**
	23	97	1.1	60.63		**B5/B14**
	20	112	0.98	70.00		**B5/B14**
	17	136	0.81	84.63		**B5/B14**
	15	153	0.72	95.61		**B5/B14**
	69	33	10.7	20.41	**FT196**	**B5/B14**
	40	56	7.2	34.81		**B5/B14**
	33	68	6.6	42.61		**B5/B14**
	24	95	5.3	59.36		**B5/B14**
	19	117	4.7	72.68		**B5/B14**
	15	149	3.7	92.82		**B5/B14**
	11	199	2.8	123.95		**B5/B14**
	8.9	253	2.2	158.02		**B5/B14**
	6.9	323	1.7	201.80		**B5/B14**
	5.2	432	1.3	269.47		**B5/B14**
0.37						
71B4 (1400 min^{-1})	**75**	44	1.8	18.75	**FT146**	**B5/B14**
	53	62	1.3	26.17		**B5/B14**
	50	67	1.2	28.26		**B5/B14**
	40	83	1.2	35.07		**B5/B14**
	35	94	1.1	39.44		**B5/B14**
	30	110	0.91	46.44		**B5/B14**
	26	125	0.80	52.86		**B5/B14**
	23	144	0.76	60.63		**B5/B14**
	69	48	7.2	20.41	**FT196**	**B5/B14**
	40	83	4.8	34.81		**B5/B14**
	33	101	4.5	42.61		**B5/B14**
	24	141	3.6	59.36		**B5/B14**
	19	172	3.2	72.68		**B5/B14**
	15	220	2.5	92.82		**B5/B14**
	11	294	1.9	123.95		**B5/B14**
	8.9	375	1.5	158.02		**B5/B14**
	6.9	479	1.1	201.80		**B5/B14**
	5.2	639	0.86	269.47		**B5/B14**
0.55						
80A4 (1400 min^{-1})	**69**	72	4.9	20.41	**FT196**	**B5/B14**
	40	123	3.2	34.81		**B5/B14**
	33	150	3.0	42.61		**B5/B14**
	24	209	2.4	59.36		**B5/B14**
	19	255	2.1	72.68		**B5/B14**
	15	327	1.7	92.82		**B5/B14**
	11	437	1.3	123.95		**B5/B14**
	8.9	557	1.0	158.02		**B5/B14**
	6.9	712	0.77	201.80		**B5/B14**

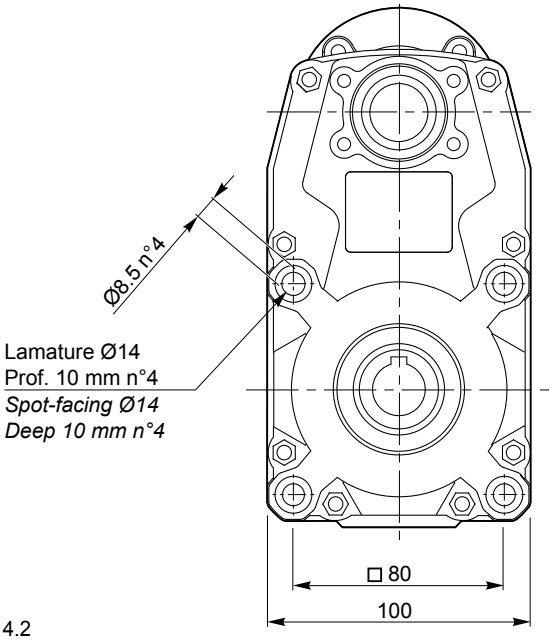
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.75						
80B4 (1400 min^{-1})	**69**	98	3.6	20.41	**FT196**	**B5/B14**
	40	167	2.4	34.81		**B5/B14**
	33	205	2.2	42.61		**B5/B14**
	24	285	1.8	59.36		**B5/B14**
	19	350	1.6	72.68		**B5/B14**
	15	446	1.2	92.82		**B5/B14**
	11	596	0.92	123.95		**B5/B14**
1.1						
90S4 (1400 min^{-1})	**69**	144	2.4	20.41	**FT196**	**B5/B14**
	40	246	1.6	34.81		**B5/B14**
	33	301	1.5	42.61		**B5/B14**
	24	419	1.2	59.36		**B5/B14**
	19	513	1.1	72.68		**B5/B14**
	15	655	0.84	92.82		**B5/B14**
1.5						
90L4 (1400 min^{-1})	**69**	196	1.8	20.41	**FT196**	**B5/B14**
	40	335	1.2	34.81		**B5/B14**
	33	410	1.1	42.61		**B5/B14**
	24	571	0.88	59.36		**B5/B14**
	19	699	0.79	72.68		**B5/B14**

Dimensioni | *Dimensions*

FT 105

FT 105...U

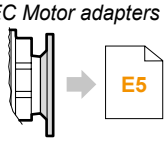




Kg 4.2

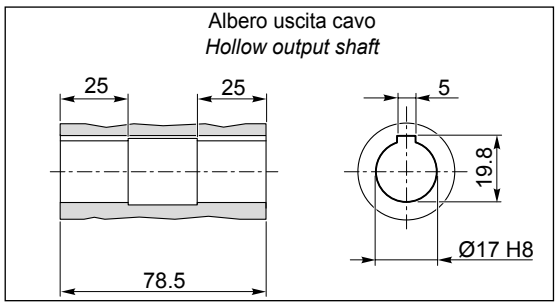
NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

IEC Motori applicabili
IEC Motor adapters



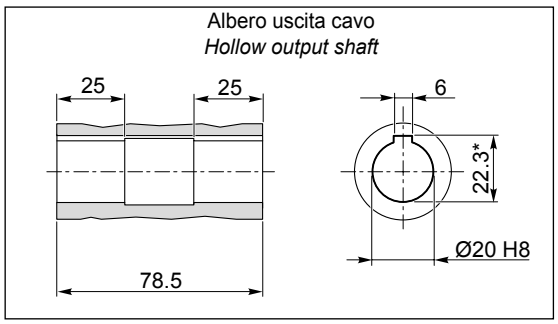
O17

Albero uscita cavo
Hollow output shaft

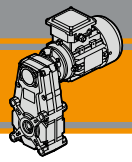


O20

Albero uscita cavo
Hollow output shaft

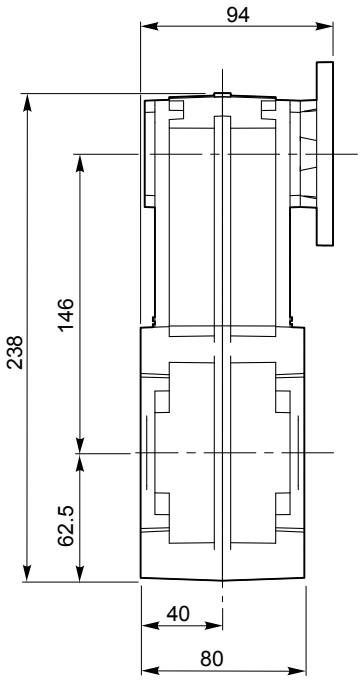


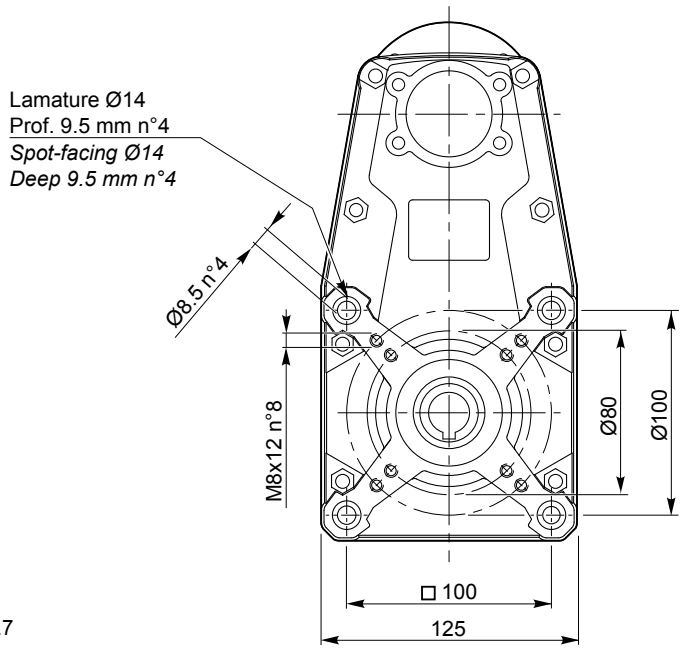
*: Sede linguetta ribassata / *Special keyway*



FT 146

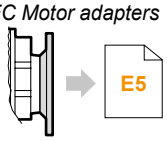
FT 146 U





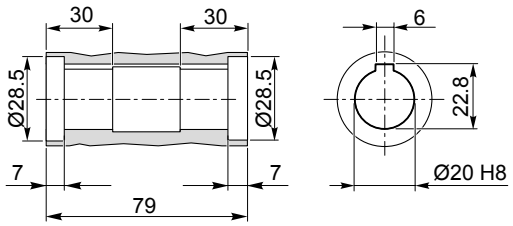
NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

IEC Motori applicabili
IEC Motor adapters



O20

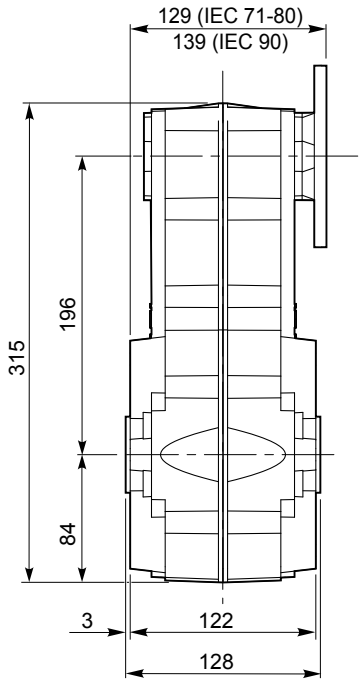
Albero uscita cavo
Hollow output shaft

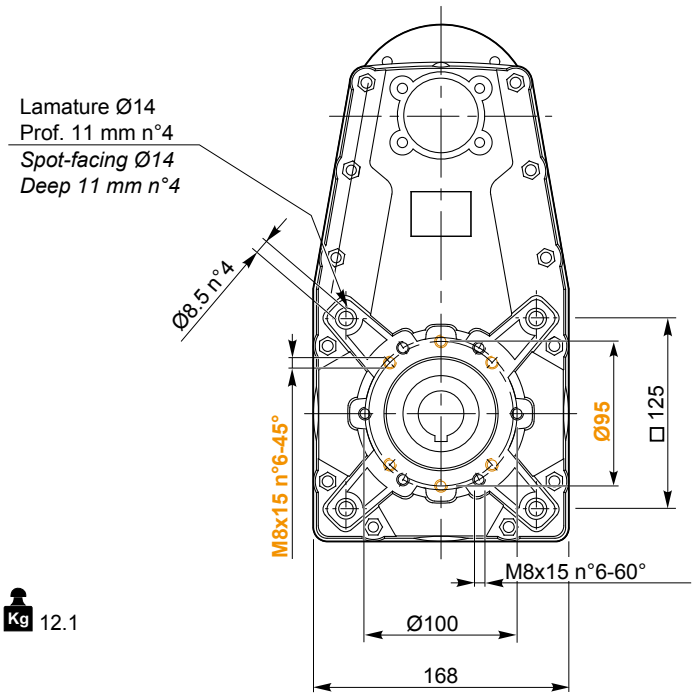


Dimensioni | *Dimensions*

FT 196

FT 196 U

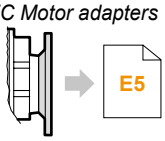




Kg 12.1

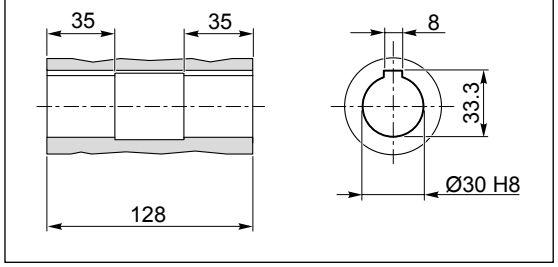
NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

IEC Motori applicabili
IEC Motor adapters



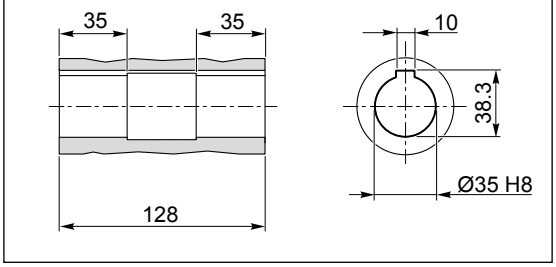
Ø30

Albero uscita cavo
Hollow output shaft



Ø35

Albero uscita cavo
Hollow output shaft



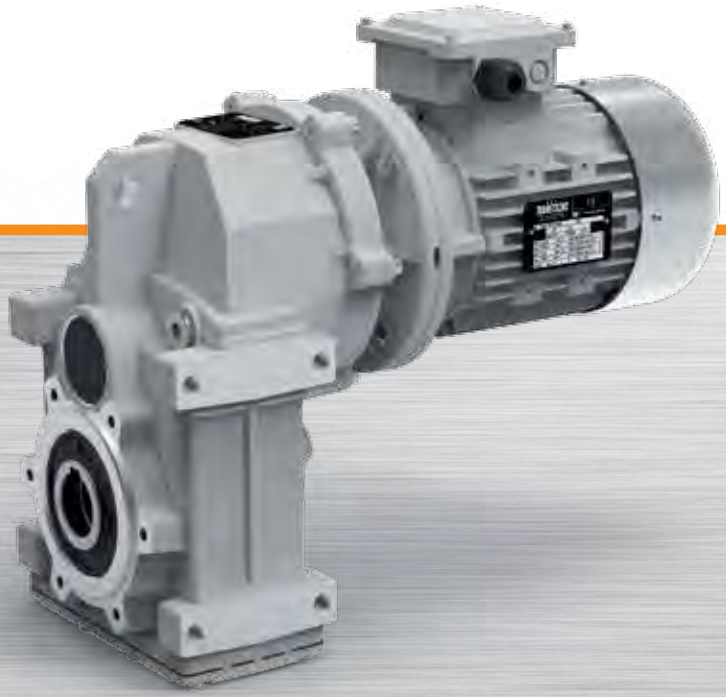
TRANSTECNO®
the modular gearmotor

ATS

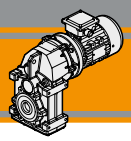
ATS Alù

ATS

Motoriduttori pendolari
Helical parallel gearmotors



TRANSTECNO · GENUINE · PRODUCTS ·



ENERGY SAVING

Indice	*Index*	Pag. *Page*
Caratteristiche tecniche	*Technical features*	**F2**
Designazione	*Classification*	**F3**
Sensi di rotazione	*Direction of rotation*	**F4**
Simbologia	*Symbols*	**F4**
Lubrificazione	*Lubrication*	**F4**
Carichi radiali	*Radial loads*	**F5**
Dati tecnici	*Technical data*	**F6**
Dimensioni	*Dimensions*	**F12**
Accessori	*Accessories*	**F16**

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Caratteristiche tecniche

I motoriduttori pendolari della serie ATS sono caratterizzati da un elevato grado di modularità: partendo da un corpo di base è possibile configurarlo secondo le esigenze con diversi kit in entrata ed in uscita.

Caratteristiche comuni a tutta la serie:

- Carcassa e flangia PAM in pressofusione di alluminio
- Lubrificazione permanente con olio sintetico.
- Flange di uscita in ghisa.

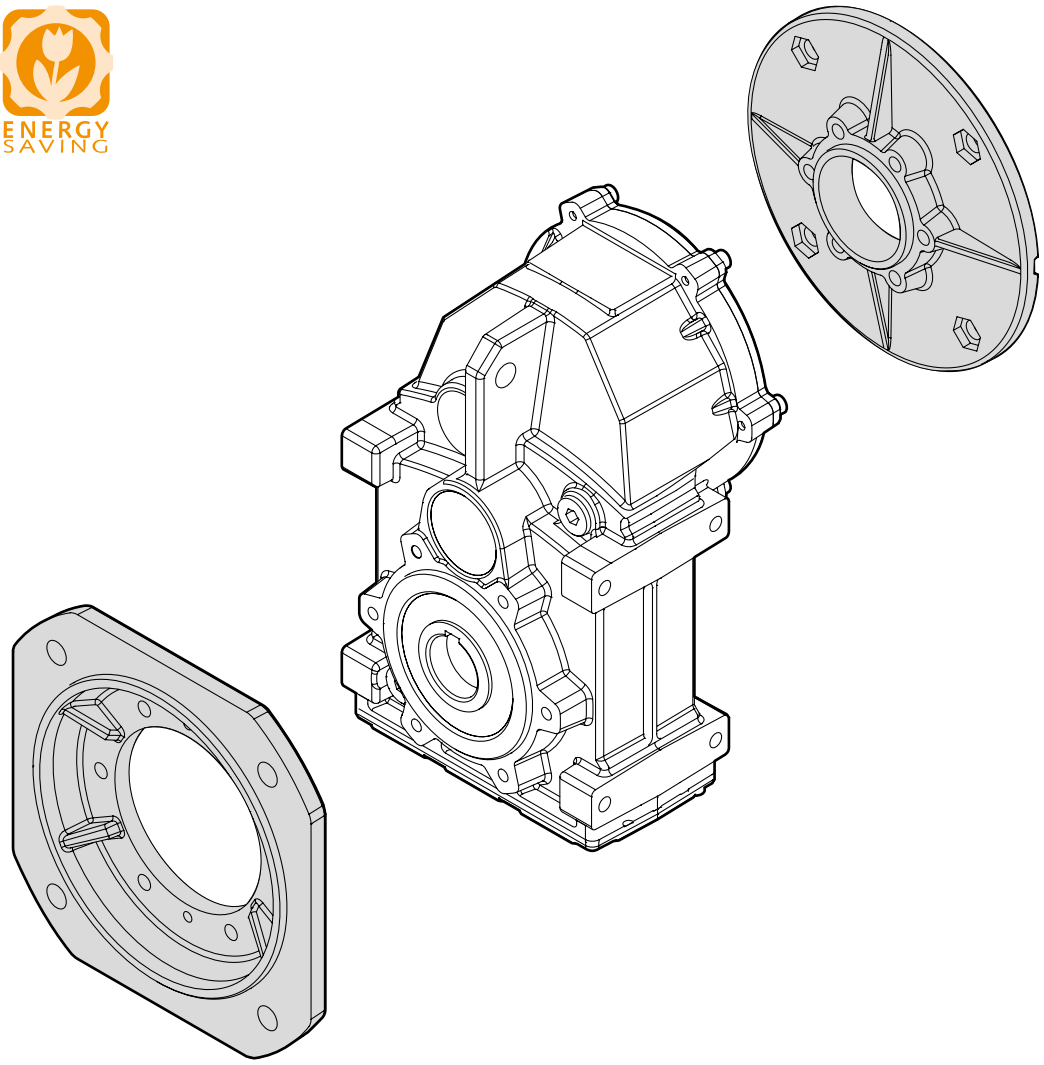
Technical features

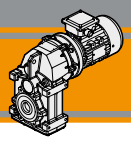
The high degree of modularity is a design feature of ATS helical parallel range. It is possible to set up the version required by using input and output kits.

The main features of ATS range are:

- *Die-cast aluminum housings and input flanges*
- *Permanent synthetic oil long-life lubrication.*
- *Cast iron output flanges.*

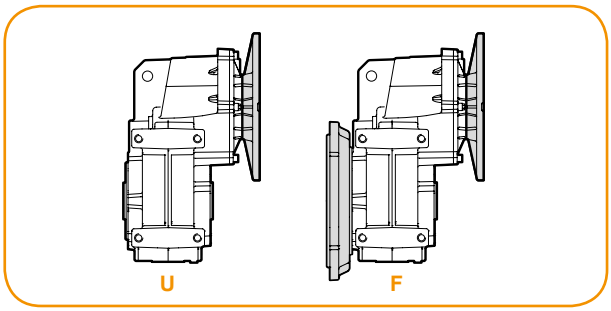
ENERGY SAVING



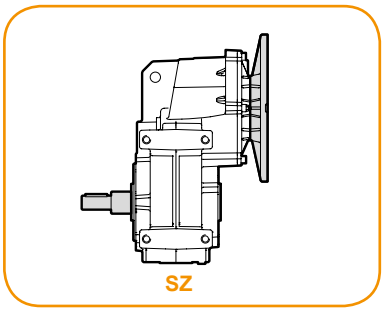


Designazione — *Classification*

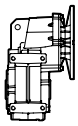
Versione Riduttore
Gearbox Version



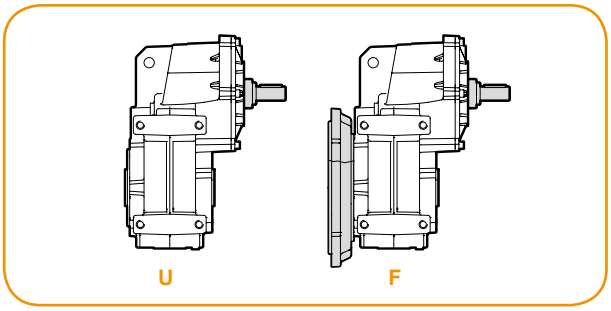
Albero di uscita
Output shaft



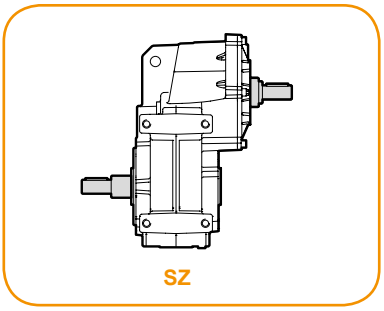
RIDUTTORE / *GEARBOX*

ATS	90	2	U	29.65	D35	90	B5	SZ
Tipo *Type*	Grandezza *Size*	Stadi *Stages*	Versione *Version*	Rapporto *Ratio*	Albero cavo uscita *Hollow output shaft*	IEC	Forma costruttiva *Version*	Albero uscita maschio *Solid output shaft*
ATS 	**90** **91**	**2** **3**	**U...** **F...**	vedi tabelle *see tables*	vedi tabelle *see tables*	**63..** **—** **112..**	**B5** **B14**	**SZ**

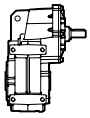
Versione Riduttore
Gearbox Version



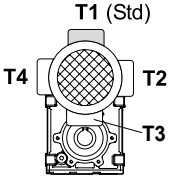
Albero di uscita
Output shaft



RIDUTTORE / *GEARBOX*

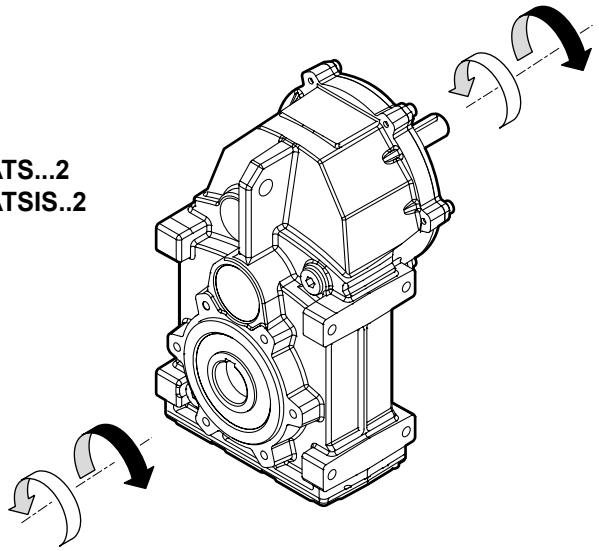
ATSIS	90	2	U	29.65	D35	SZ
Tipo *Type*	Grandezza *Size*	Stadi *Stages*	Versione *Version*	Rapporto *Ratio*	Albero cavo uscita *Hollow output shaft*	Albero uscita maschio *Solid output shaft*
ATSIS 	**90** **91**	**2** **3**	**U...** **F...**	vedi tabelle *see tables*	vedi tabelle *see tables*	**SZ**

MOTORE / *MOTOR*

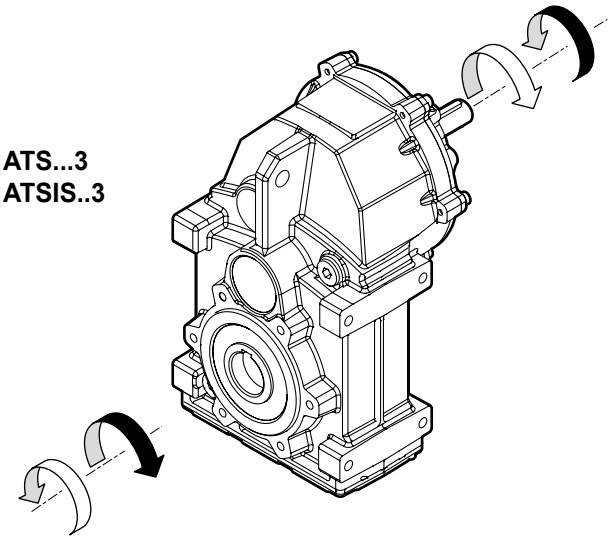
0.75kW	4p	3ph	230/400V	50Hz	T1
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*
vedi tabelle *see tables*	**2p** **4p** **6p** **8p**	**1ph** **3ph**	**230V** **230/400V**	**50Hz** **60Hz**	**T1** (Std) 

Sensi di rotazione — *Direction of rotation*

ATS...2
ATSIS..2



ATS...3
ATSIS..3



Simbologia — *Symbols*

n_1	[min^{-1}]	Velocità in ingresso / *Input speed*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*
i		Rapporto di riduzione / *Ratio*
P_1	[kW]	Potenza in entrata / *Input power*
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / *Output torque referred to* P_1
Pn_1	[kW]	Potenza nominale in entrata / *Nominal input power*
Mn_2	[Nm]	Coppia nominale in uscita in funzione di Pn_1 / *Nominal output torque referred to* Pn_1
sf		Fattore di servizio / *Service factor*
R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*

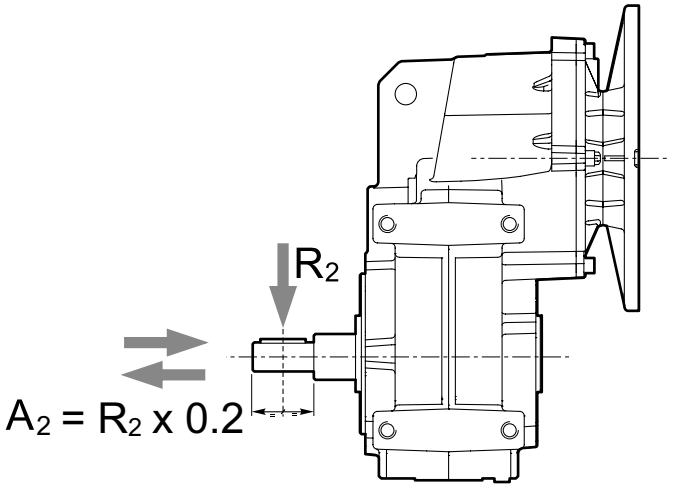
Lubrificazione — *Lubrication*

Tutti i motoriduttori sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.

Carichi radiali

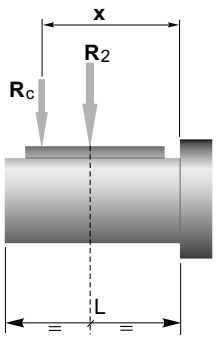
Radial loads



n_2 [min^{-1}]	R_2 [N]	
	ATS 902 ATS 903	ATS 912 ATS 913
240	2400	3600
180	2400	4200
150	2400	4200
120	2500	4600
100	2800	4800
85	3090	5100
70	3150	5250
55	3630	6000
40	4440	6900
30	5100	7800
20	6000	9500
15	6000	10000
10	6000	10000
5	6000	10000

Quando il carico radiale risultante non è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:



	ATS 902 ATS 903	ATS 912 ATS 913
a	152	174.5
b	97	114.5
R_{2MAX}	6000	10000

$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valori riportati nella tabella
a, b = values given in the table

Dati tecnici — n_1 1400 min^{-1} — *Technical data*

	n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motori applicabili / *IEC Motor adapters*				
ATSIS 902					**71 B5**	**80 B5/B14**	**90 B5/B14**	**100 B5/B14**	**112 B5/B14**
	239	200	5.2	5.87	B				
	178	250	4.9	7.87	B				
	148	300	4.8	9.47	B				
	121	350	4.6	11.53	B				
	106	350	4.0	13.26	B				
	89.3	350	3.4	15.68	B				
	84.0	350	3.2	16.68	B				*
	73.3	400	3.2	19.09	B				*
	63.7	400	2.8	21.96	B				*
	52.8	400	2.3	26.50	B				*
	50.7	400	2.2	27.61	B				*
	47.2	400	2.1	29.65	B				*
	41.8	400	1.8	33.49	B			*	*
	39.0	400	1.7	35.87	B			*	*
	36.6	400	1.6	38.29	B			*	*
	31.9	400	1.4	43.88	B			*	*
	28.5	400	1.3	49.09	B			*	*
	26.6	400	1.2	52.71	B			*	*
	25.2	400	1.1	55.45	B			*	*
	22.1	400	0.98	63.41	B		*	*	*
	19.0	400	0.85	73.64	B		*	*	*
	16.0	400	0.71	87.27	B		*	*	*

ATSIS 903				**63 B5**	**71 B5/B14**	**80 B5/B14**	**90 B5/B14**
14.0	400	0.62	100.33				*
11.1	400	0.50	125.89				*
10.6	400	0.47	131.65				*
10.0	400	0.45	139.88			*	*
9.3	400	0.41	151.07			*	*
8.4	400	0.38	166.13			*	*
8.1	400	0.36	172.40			*	*
6.7	400	0.30	208.45			*	*
6.3	400	0.28	223.41			*	*
5.6	400	0.25	250.14			*	*
4.3	400	0.19	323.65		*	*	*
4.1	400	0.18	345.59		*	*	*
3.7	400	0.17	376.15		*	*	*
3.3	400	0.15	424.21		*	*	*

N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.
B = Boccola di riduzione in acciaio.

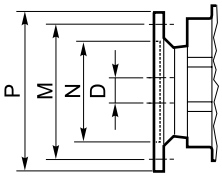
***** = Il fattore di servizio (**sf**) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. F8 alla pag. F11

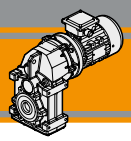
N.B.
Highlighted areas indicate motor inputs available on each size of unit.
***B** = Metal shaft sleeve.*

***** = *The service factor (**sf**) has to be selected depending on application: please contact our Technical Department.*

Before selecting any gearbox, please read the performance values shown in the tables on page F8 to F11.



Dimensioni IEC / *IEC Dimensions*									
	63 B5	**71 B5**	**71 B14**	**80 B5**	**80 B14**	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**
N	95	110	70	130	80	130	95	180	110
M	115	130	85	165	100	165	115	215	130
P	140	160	105	200	120	200	140	250	160
D	11	14		19		24		28	



Dati tecnici — n_1 1400 min^{-1} — *Technical data*

	n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motori applicabili *IEC Motor adapters*				
ATSIS 912					**71 B5**	**80 B5/B14**	**90 B5/B14**	**100 B5/B14**	**112 B5/B14**
	245.0	350	9.4	5.71	B				
	183	350	7.0	7.66	B				
	158	400	6.9	8.85	B				
	152	400	6.6	9.22	B				
	125	400	5.4	11.23	B				
	118	400	5.1	11.87	B				
	108	500	5.9	12.92	B				
	98.0	500	5.3	14.29	B				
	86.2	500	4.7	16.24	B				
	80.5	500	4.4	17.39	B				
	70.0	600	4.6	20.01	B				
	66.3	600	4.3	21.10	B				
	55.6	600	3.6	25.16	B				
	54.2	600	3.5	25.81	B				*
	48.5	600	3.2	28.88	B				*
	42.8	600	2.9	32.69	B				*
	37.5	600	2.5	37.30	B				*
	35.0	600	2.3	39.98	B				*
	31.3	600	2.1	44.73	B				*
	27.7	600	1.9	50.53	B			*	*
	24.2	600	1.6	57.77	B			*	*
	20.9	600	1.4	67.09	B			*	*
	17.6	600	1.2	79.52	B			*	*

ATSIS913					**63 B5**	**71 B5/B14**	**80 B5/B14**	**90 B5/B14**
	17.0	600	1.1	82.28				
	14.9	600	1.0	93.96				
	13.8	600	0.92	101.41				*
	11.4	600	0.76	122.61				*
	10.7	600	0.71	131.41				*
	9.5	600	0.64	147.13				*
	8.9	600	0.60	157.08				*
	7.4	600	0.49	189.92				*
	6.9	600	0.46	203.55			*	*
	6.1	600	0.41	227.91			*	*
	4.7	600	0.32	294.88			*	*
	4.4	600	0.30	314.87			*	*
	4.1	600	0.27	342.72			*	*
	3.6	600	0.24	386.51			*	*

N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.
B = Boccola di riduzione in acciaio.

***** = Il fattore di servizio (**sf**) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. F8 alla pag. F11

N.B.
Highlighted areas indicate motor inputs available on each size of unit.
***B** = Metal shaft sleeve.*

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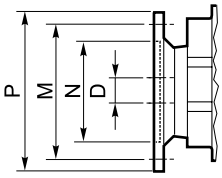
Before selecting any gearbox, please read the performance values shown in the tables on page F8 to F11.



Dimensioni IEC / *IEC Dimensions*									
	63 B5	**71 B5**	**71 B14**	**80 B5**	**80 B14**	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**
N	95	110	70	130	80	130	95	180	110
M	115	130	85	165	100	165	115	215	130
P	140	160	105	200	120	200	140	250	160
D	11	14		19		24		28	

Dati tecnici

Technical data

0.12

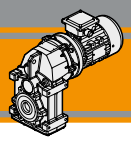
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
63A4 (1400 min^{-1})	**14.0**	77	5.2	100.33	**ATS903**	**B5**
	11.1	97	4.1	125.89		**B5**
	10.6	101	3.9	131.65		**B5**
	10.0	108	3.7	139.88		**B5**
	9.3	116	3.4	151.07		**B5**
	8.4	128	3.1	166.13		**B5**
	8.1	133	3.0	172.40		**B5**
	6.7	160	2.5	208.45		**B5**
	6.3	172	2.3	223.41		**B5**
	5.6	192	2.1	250.14		**B5**
	4.3	249	1.6	323.65		**B5**
	4.1	266	1.5	345.59		**B5**
	3.7	289	1.4	376.15		**B5**
	3.3	326	1.2	424.21		**B5**
	6.9	157	3.8	203.55	**ATS913**	**B5**
	6.1	175	3.4	227.91		**B5**
	4.7	227	2.6	294.88		**B5**
	4.4	242	2.5	314.87		**B5**
	4.1	264	2.3	342.72		**B5**
	3.6	297	2.0	386.51		**B5**

0.18

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
63B4 (1400 min^{-1})	**14.0**	116	3.5	100.33	**ATS903**	**B5**
	11.1	145	2.8	125.89		**B5**
	10.6	152	2.6	131.65		**B5**
	10.0	161	2.5	139.88		**B5**
	9.3	174	2.3	151.07		**B5**
	8.4	192	2.1	166.13		**B5**
	8.1	199	2.0	172.40		**B5**
	6.7	241	1.7	208.45		**B5**
	6.3	258	1.6	223.41		**B5**
	5.6	289	1.4	250.14		**B5**
	4.3	374	1.1	323.65		**B5**
	4.1	399	1.0	345.59		**B5**
	3.7	434	0.9	376.15		**B5**
	3.3	490	0.8	424.21		**B5**
	9.5	170	3.5	147.13	**ATS913**	**B5**
	8.9	181	3.3	157.08		**B5**
	7.4	219	2.7	189.92		**B5**
	6.9	235	2.6	203.55		**B5**
	6.1	263	2.3	227.91		**B5**
	4.7	340	1.8	294.88		**B5**
	4.4	363	1.7	314.87		**B5**
	4.1	396	1.5	342.72		**B5**
	3.6	446	1.3	386.51		**B5**

0.25

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
71A4 (1400 min^{-1})	**238**	10	20.8	5.87	**ATS902**	**B5**
	178	13	19.4	7.87		**B5**
	148	16	19.3	9.47		**B5**
	121	19	18.5	11.53		**B5**
	106	22	16.1	13.26		**B5**
	89.3	26	13.6	15.68		**B5**
	84.0	27	12.8	16.68		**B5**
	73.3	31	12.8	19.09		**B5**
	63.7	36	11.1	21.96		**B5**
	52.8	43	9.2	26.50		**B5**
	50.7	45	8.8	27.61		**B5**
	47.2	49	8.2	29.65		**B5**
	41.8	55	7.3	33.49		**B5**
	39.0	59	6.8	35.87		**B5**
	36.6	61	6.5	38.29		**B5**
	31.9	70	5.7	43.88		**B5**
	28.5	79	5.1	49.09		**B5**
	26.6	84	4.7	52.71		**B5**
	25.2	89	4.5	55.45		**B5**
	22.1	102	3.9	63.41		**B5**
	19.0	118	3.4	73.64		**B5**
	16.0	140	2.9	87.27		**B5**
	14.0	161	2.5	100.33	**ATS903**	**B5/B14**
	11.1	202	2.0	125.89		**B5/B14**
	10.6	211	1.9	131.65		**B5/B14**
	10.0	224	1.8	139.88		**B5/B14**
	9.3	242	1.7	151.07		**B5/B14**
	8.4	266	1.5	166.13		**B5/B14**
	8.1	276	1.4	172.40		**B5/B14**
	6.7	334	1.2	208.45		**B5/B14**
	6.3	358	1.1	223.41		**B5/B14**
	5.6	401	1.0	250.14		**B5/B14**
	13.8	163	3.7	101.41	**ATS913**	**B5/B14**
	11.4	197	3.1	122.61		**B5/B14**
	10.7	211	2.8	131.41		**B5/B14**
	9.5	236	2.5	147.13		**B5/B14**
	8.9	252	2.4	157.08		**B5/B14**
	7.4	304	2.0	189.92		**B5/B14**
	6.9	326	1.8	203.55		**B5/B14**
	6.1	365	1.6	227.91		**B5/B14**
	4.7	473	1.3	294.88		**B5/B14**
	4.4	505	1.2	314.87		**B5/B14**
	4.1	549	1.1	342.72		**B5/B14**
	3.6	620	1.0	386.51		**B5/B14**



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.37						
71B4 (1400 min^{-1})	**239**	14	14.1	5.87	**ATS902**	**B5**
	178	19	13.1	7.87		**B5**
	148	23	13.1	9.47		**B5**
	121	28	12.5	11.53		**B5**
	106	32	10.9	13.26		**B5**
	89.3	38	9.2	15.68		**B5**
	84.0	40	8.7	16.68		**B5**
	73.3	46	8.6	19.09		**B5**
	63.7	53	7.5	21.96		**B5**
	52.8	64	6.2	26.50		**B5**
	50.7	67	6.0	27.61		**B5**
	47.2	72	5.6	29.65		**B5**
	41.8	81	4.9	33.49		**B5**
	39.0	87	4.6	35.87		**B5**
	36.6	91	4.4	38.29		**B5**
	31.9	104	3.8	43.88		**B5**
	28.5	116	3.4	49.09		**B5**
	26.6	125	3.2	52.71		**B5**
	25.2	132	3.0	55.45		**B5**
	22.1	150	2.7	63.41		**B5**
	19.0	175	2.3	73.64		**B5**
	16.0	207	1.9	87.27		**B5**
	14.0	238	1.7	100.33	**ATS903**	**B5/B14**
	11.1	299	1.3	125.89		**B5/B14**
	10.6	312	1.3	131.65		**B5/B14**
	10.0	332	1.2	139.88		**B5/B14**
	9.3	358	1.1	151.07		**B5/B14**
	8.4	394	1.0	166.13		**B5/B14**
	8.1	409	1.0	172.40		**B5/B14**
	24.2	137	4.4	57.77	**ATS912**	**B5**
	20.9	159	3.8	67.09		**B5**
	17.6	189	3.2	79.52		**B5**
	17.0	195	3.1	82.28	**ATS913**	**B5/B14**
	14.9	223	2.7	93.96		**B5/B14**
	13.8	241	2.5	101.41		**B5/B14**
	11.4	291	2.1	122.61		**B5/B14**
	10.7	312	1.9	131.41		**B5/B14**
	9.5	349	1.7	147.13		**B5/B14**
	8.9	373	1.6	157.08		**B5/B14**
	7.4	451	1.3	189.92		**B5/B14**
	6.9	483	1.2	203.55		**B5/B14**
	6.1	541	1.1	227.91		**B5/B14**
	4.7	700	0.9	294.88		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.55						
80A4 (1400 min^{-1})	**239**	21	9.5	5.87	**ATS902**	**B5/B14**
	178	28	8.8	7.87		**B5/B14**
	148	34	8.8	9.47		**B5/B14**
	121	42	8.4	11.53		**B5/B14**
	106	48	7.3	13.26		**B5/B14**
	89.3	56	6.2	15.68		**B5/B14**
	84.0	60	5.8	16.68		**B5/B14**
	73.3	69	5.8	19.09		**B5/B14**
	63.7	79	5.1	21.96		**B5/B14**
	52.8	95	4.2	26.50		**B5/B14**
	50.7	99	4.0	27.61		**B5/B14**
	47.2	107	3.7	29.65		**B5/B14**
	41.8	121	3.3	33.49		**B5/B14**
	39.0	129	3.1	35.87		**B5/B14**
	36.6	135	3.0	38.29		**B5/B14**
	31.9	155	2.6	43.88		**B5/B14**
	28.5	173	2.3	49.09		**B5/B14**
	26.6	186	2.2	52.71		**B5/B14**
	25.2	196	2.0	55.45		**B5/B14**
	22.1	224	1.8	63.41		**B5/B14**
	19.0	260	1.5	73.64		**B5/B14**
	16.0	308	1.3	87.27		**B5/B14**
	14.0	354	1.1	100.33	**ATS903**	**B5/B14**
	11.1	444	0.9	125.89		**B5/B14**
	10.6	464	0.9	131.65		**B5/B14**
	31.3	158	3.8	44.73	**ATS912**	**B5/B14**
	27.7	178	3.4	50.53		**B5/B14**
	24.2	204	2.9	57.77		**B5/B14**
	20.9	237	2.5	67.09		**B5/B14**
	17.6	280	2.1	79.52		**B5/B14**
	17.0	290	2.1	82.28	**ATS913**	**B5/B14**
	14.9	331	1.8	93.96		**B5/B14**
	13.8	358	1.7	101.41		**B5/B14**
	11.4	432	1.4	122.61		**B5/B14**
	10.7	463	1.3	131.41		**B5/B14**
	9.5	519	1.2	147.13		**B5/B14**
	8.9	554	1.1	157.08		**B5/B14**
	7.4	670	0.9	189.92		**B5/B14**

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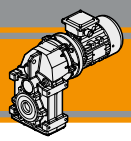
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.75						
80B4 (1400 min^{-1})	**239**	29	6.9	5.87	**ATS902**	**B5/B14**
	178	39	6.5	7.87		**B5/B14**
	148	47	6.4	9.47		**B5/B14**
	121	57	6.2	11.53		**B5/B14**
	106	65	5.4	13.26		**B5/B14**
	89.3	77	4.5	15.68		**B5/B14**
	84.0	82	4.3	16.68		**B5/B14**
	73.3	94	4.3	19.09		**B5/B14**
	63.7	108	3.7	21.96		**B5/B14**
	52.8	130	3.1	26.50		**B5/B14**
	50.7	136	2.9	27.61		**B5/B14**
	47.2	146	2.7	29.65		**B5/B14**
	41.8	164	2.4	33.49		**B5/B14**
	39.0	176	2.3	35.87		**B5/B14**
	36.6	184	2.2	38.29		**B5/B14**
	31.9	211	1.9	43.88		**B5/B14**
	28.5	236	1.7	49.09		**B5/B14**
	26.6	253	1.6	52.71		**B5/B14**
	25.2	267	1.5	55.45		**B5/B14**
	22.1	305	1.3	63.41		**B5/B14**
	19.0	354	1.1	73.64		**B5/B14**
	16.0	420	1.0	87.27		**B5/B14**
	42.8	157	3.8	32.69	**ATS912**	**B5/B14**
	37.5	179	3.3	37.30		**B5/B14**
	35.0	192	3.1	39.98		**B5/B14**
	31.3	215	2.8	44.73		**B5/B14**
	27.7	243	2.5	50.53		**B5/B14**
	24.2	278	2.2	57.77		**B5/B14**
	20.9	323	1.9	67.09		**B5/B14**
	17.6	382	1.6	79.52		**B5/B14**
	17.0	396	1.5	82.28	**ATS913**	**B5/B14**
	14.9	452	1.3	93.96		**B5/B14**
	13.8	488	1.2	101.41		**B5/B14**
	11.4	590	1.0	122.61		**B5/B14**
	10.7	632	0.9	131.41		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.1						
90S4 (1400 min^{-1})	**239**	42	4.7	5.87	**ATS902**	**B5/B14**
	178	57	4.4	7.87		**B5/B14**
	148	68	4.4	9.47		**B5/B14**
	121	83	4.2	11.53		**B5/B14**
	106	96	3.7	13.26		**B5/B14**
	89.3	113	3.1	15.68		**B5/B14**
	84.0	120	2.9	16.68		**B5/B14**
	73.3	138	2.9	19.09		**B5/B14**
	63.7	158	2.5	21.96		**B5/B14**
	52.8	191	2.1	26.50		**B5/B14**
	50.7	199	2.0	27.61		**B5/B14**
	47.2	214	1.9	29.65		**B5/B14**
	41.8	241	1.7	33.49		**B5/B14**
	39.0	258	1.5	35.87		**B5/B14**
	36.6	270	1.5	38.29		**B5/B14**
	31.9	310	1.3	43.88		**B5/B14**
	28.5	346	1.2	49.09		**B5/B14**
	26.6	372	1.1	52.71		**B5/B14**
	25.2	391	1.0	55.45		**B5/B14**
	66.3	152	3.9	21.10	**ATS912**	**B5/B14**
	55.6	181	3.3	25.16		**B5/B14**
	54.2	186	3.2	25.81		**B5/B14**
	48.5	204	2.9	28.88		**B5/B14**
	42.8	231	2.6	32.69		**B5/B14**
	37.5	263	2.3	37.30		**B5/B14**
	35.0	282	2.1	39.98		**B5/B14**
	31.3	315	1.9	44.73		**B5/B14**
	27.7	356	1.7	50.53		**B5/B14**
	24.2	407	1.5	57.77		**B5/B14**
	20.9	473	1.3	67.09		**B5/B14**
	17.6	561	1.1	79.52		**B5/B14**
	17.0	580	1.0	82.28	**ATS913**	**B5/B14**
	14.9	663	0.9	93.96		**B5/B14**



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Technical data

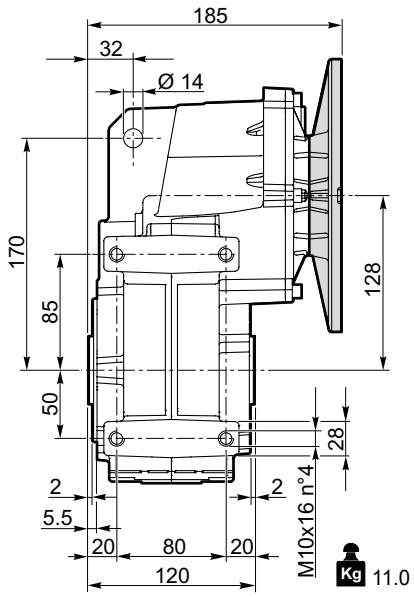
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.5						
90L4 (1400 min^{-1})	**239**	58	3.5	5.87	**ATS902**	**B5/B14**
	178	77	3.2	7.87		**B5/B14**
	148	93	3.2	9.47		**B5/B14**
	121	113	3.1	11.53		**B5/B14**
	106	130	2.7	13.26		**B5/B14**
	89.3	154	2.3	15.68		**B5/B14**
	84.0	164	2.1	16.68		**B5/B14**
	73.3	188	2.1	19.09		**B5/B14**
	63.7	216	1.9	21.96		**B5/B14**
	52.8	260	1.5	26.50		**B5/B14**
	50.7	271	1.5	27.61		**B5/B14**
	47.2	291	1.4	29.65		**B5/B14**
	41.8	329	1.2	33.49		**B5/B14**
	39.0	352	1.1	35.87		**B5/B14**
	36.6	368	1.1	38.29		**B5/B14**
	31.9	422	0.9	43.88		**B5/B14**
	108.4	127	3.9	12.92	**ATS912**	**B5/B14**
	98.0	140	3.6	14.29		**B5/B14**
	86.2	160	3.1	16.24		**B5/B14**
	80.5	171	2.9	17.39		**B5/B14**
	70.0	197	3.1	20.01		**B5/B14**
	66.3	207	2.9	21.10		**B5/B14**
	55.6	247	2.4	25.16		**B5/B14**
	54.2	254	2.4	25.81		**B5/B14**
	48.5	278	2.2	28.88		**B5/B14**
	42.8	314	1.9	32.69		**B5/B14**
	37.5	359	1.7	37.30		**B5/B14**
	35.0	385	1.6	39.98		**B5/B14**
	31.3	430	1.4	44.73		**B5/B14**
	27.7	486	1.2	50.53		**B5/B14**
	24.2	556	1.1	57.77		**B5/B14**
2.2						
100LA4 (1400 min^{-1})	**239**	85	2.4	5.87	**ATS902**	**B5/B14**
	178	113	2.2	7.87		**B5/B14**
	148	136	2.2	9.47		**B5/B14**
	121	166	2.1	11.53		**B5/B14**
	106	191	1.8	13.26		**B5/B14**
	89.3	226	1.5	15.68		**B5/B14**
	84.0	240	1.5	16.68		**B5/B14**
	73.3	275	1.5	19.09		**B5/B14**
	63.7	316	1.3	21.96		**B5/B14**
	52.8	382	1.0	26.50		**B5/B14**
	50.7	398	1.0	27.61		**B5/B14**
	47.2	427	0.9	29.65		**B5/B14**
	245.0	82	4.3	5.71	**ATS912**	**B5/B14**
	182.7	110	3.2	7.66		**B5/B14**
	158.2	128	3.1	8.85		**B5/B14**
	151.8	133	3.0	9.22		**B5/B14**
	124.7	162	2.5	11.23		**B5/B14**
	117.9	171	2.3	11.87		**B5/B14**
	108.4	186	2.7	12.92		**B5/B14**
	98.0	206	2.4	14.29		**B5/B14**
	86.2	234	2.1	16.24		**B5/B14**
	80.5	251	2.0	17.39		**B5/B14**
	70.0	288	2.1	20.01		**B5/B14**
	66.3	304	2.0	21.10		**B5/B14**
	55.6	362	1.7	25.16		**B5/B14**
	54.2	372	1.6	25.81		**B5/B14**
	48.5	407	1.5	28.88		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
2.2						
100LA4 (1400 min^{-1})	**42.8**	461	1.3	32.69	**ATS912**	**B5/B14**
	37.5	526	1.1	37.30		**B5/B14**
	35.0	564	1.1	39.98		**B5/B14**
	31.3	631	1.0	44.73		**B5/B14**
3.0						
100LB4 (1400 min^{-1})	**239**	115	1.7	5.87	**ATS902**	**B5/B14**
	178	155	1.6	7.87		**B5/B14**
	148	186	1.6	9.47		**B5/B14**
	121	227	1.5	11.53		**B5/B14**
	106	261	1.3	13.26		**B5/B14**
	89.3	308	1.1	15.68		**B5/B14**
	84.0	328	1.1	16.68		**B5/B14**
	73.3	375	1.1	19.09		**B5/B14**
	63.7	431	0.9	21.96		**B5/B14**
	245.0	112	3.1	5.71	**ATS912**	**B5/B14**
	182.7	151	2.3	7.66		**B5/B14**
	158.2	174	2.3	8.85		**B5/B14**
	151.8	181	2.2	9.22		**B5/B14**
	124.7	221	1.8	11.23		**B5/B14**
	117.9	233	1.7	11.87		**B5/B14**
	108.4	254	2.0	12.92		**B5/B14**
	98.0	281	1.8	14.29		**B5/B14**
	86.2	319	1.6	16.24		**B5/B14**
	80.5	342	1.5	17.39		**B5/B14**
	70.0	393	1.5	20.01		**B5/B14**
	66.3	415	1.4	21.10		**B5/B14**
	55.6	494	1.2	25.16		**B5/B14**
	54.2	507	1.2	25.81		**B5/B14**
	48.5	555	1.1	28.88		**B5/B14**
	42.8	629	1.0	32.69		**B5/B14**
4.0						
112M4 (1400 min^{-1})	**239**	154	1.3	5.87	**ATS902**	**B5/B14**
	178	206	1.2	7.87		**B5/B14**
	148	248	1.2	9.47		**B5/B14**
	121	302	1.2	11.53		**B5/B14**
	106	347	1.0	13.26		**B5/B14**
	89.3	411	0.9	15.68		**B5/B14**
	245.0	150	2.3	5.71	**ATS912**	**B5/B14**
	182.7	201	1.7	7.66		**B5/B14**
	158.2	232	1.7	8.85		**B5/B14**
	151.8	242	1.7	9.22		**B5/B14**
	124.7	294	1.4	11.23		**B5/B14**
	117.9	311	1.3	11.87		**B5/B14**
	108.4	338	1.5	12.92		**B5/B14**
	98.0	374	1.3	14.29		**B5/B14**
	86.2	425	1.2	16.24		**B5/B14**
	80.5	456	1.1	17.39		**B5/B14**
	70.0	524	1.1	20.01		**B5/B14**
	66.3	553	1.1	21.10		**B5/B14**
	55.6	659	0.9	25.16		**B5/B14**

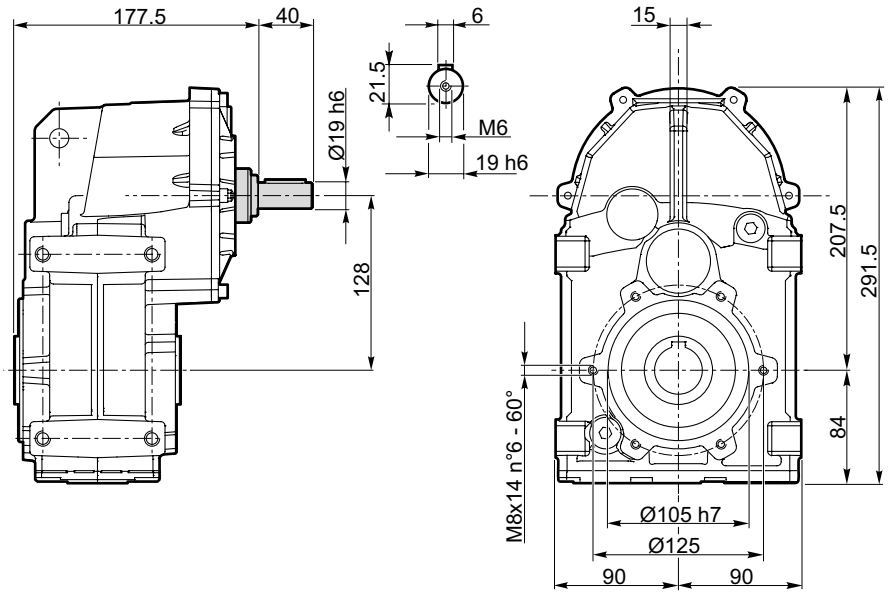
Dimensioni ***Dimensions***

ATS 902

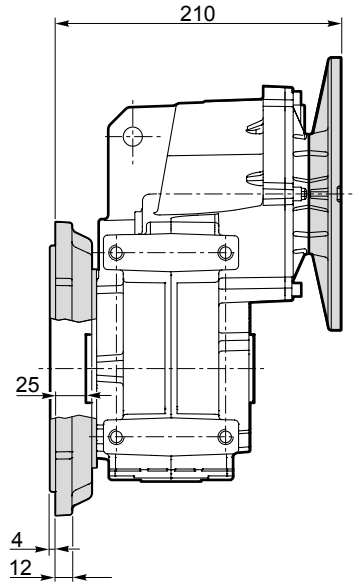
ATS 902 U..



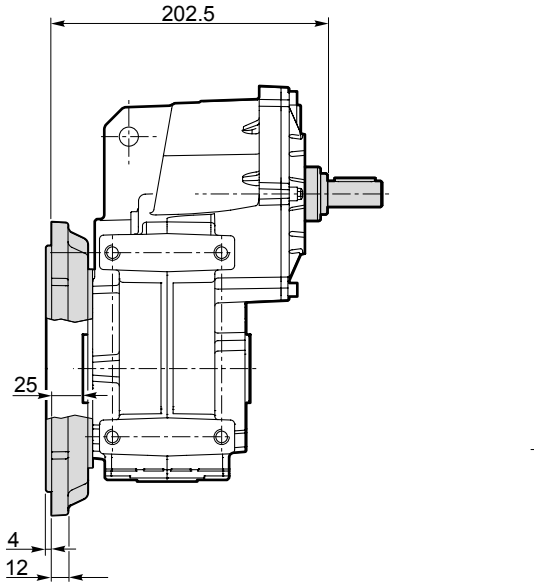
ATSIS 902 U..

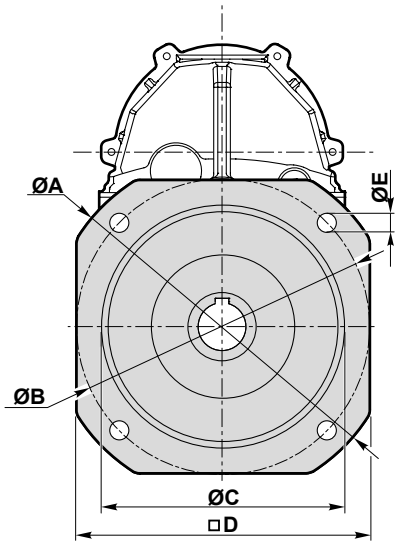


ATS 902 F..



ATSIS 902 F..

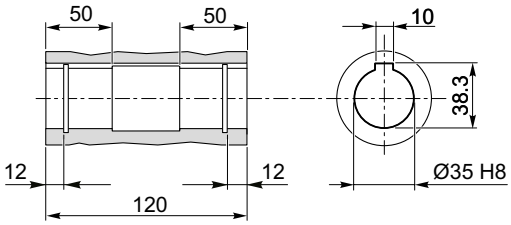




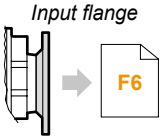
Versione **F** / ***F** Version*							
ATS ATSIS	**ØA**	**ØB**	**ØC f7**	**□D**	**ØE**	**Flangia / *Flange***	
						Tipo / *Type*	Peso / *Weight* [kg]
902	200	165	130	165	11	**F200**	2
	250	215	180	215	14	**F250**	3.2

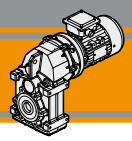
ATS 902.. D35 - ATSIS 902.. D35

Albero uscita cavo
Hollow output shaft



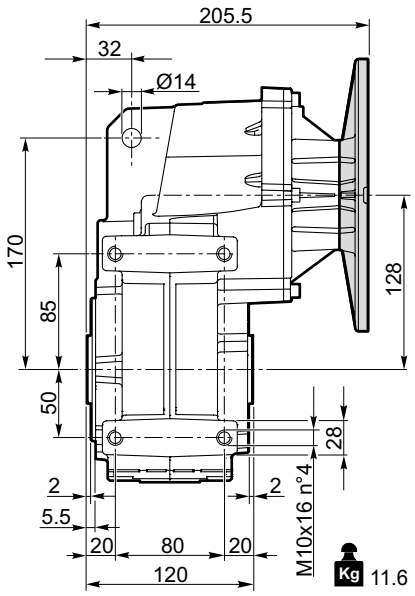
Flangia entrata
Input flange



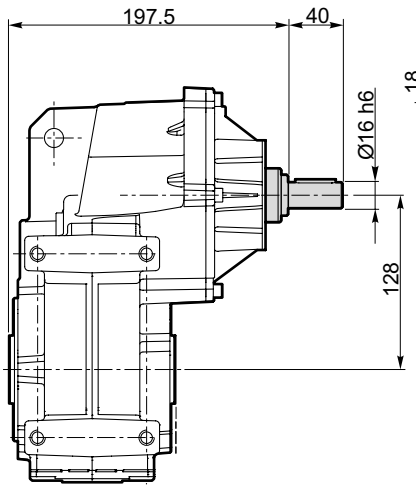


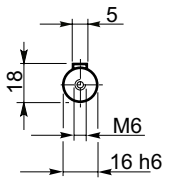
ATS 903

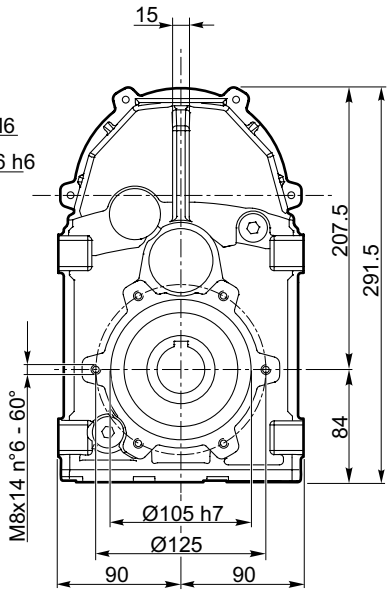
ATS 903 U..



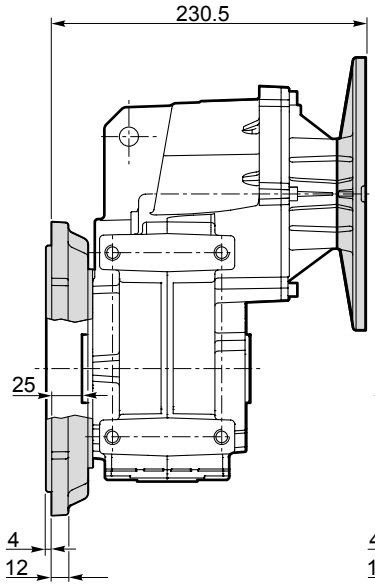
ATSIS 903 U..



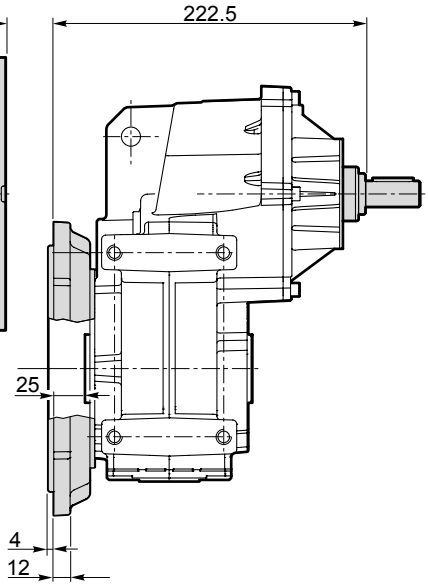


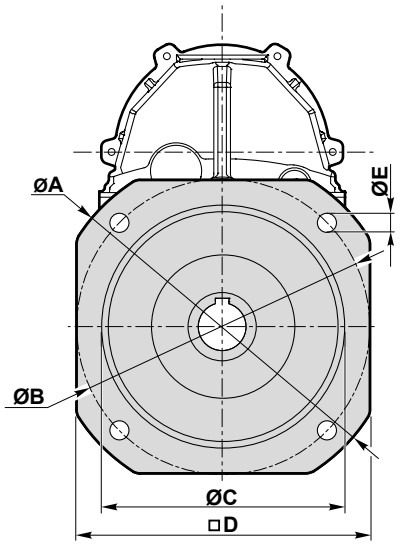


ATS 903 F..



ATSIS 903 F..

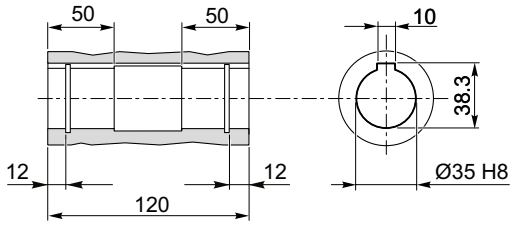




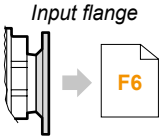
Versione **F** / ***F** Version*							
ATS ATSIS	**ØA**	**ØB**	**ØC f7**	**□D**	**ØE**	**Flangia / *Flange***	
						Tipo / *Type*	Peso / *Weight* [kg]
903	200	165	130	165	11	**F200**	2
	250	215	180	215	14	**F250**	3.2

ATS 903.. D35 - ATSIS 903.. D35

Albero uscita cavo
Hollow output shaft



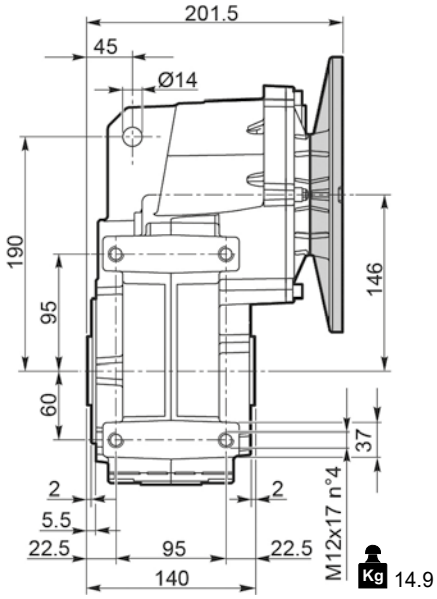
Flangia entrata
Input flange



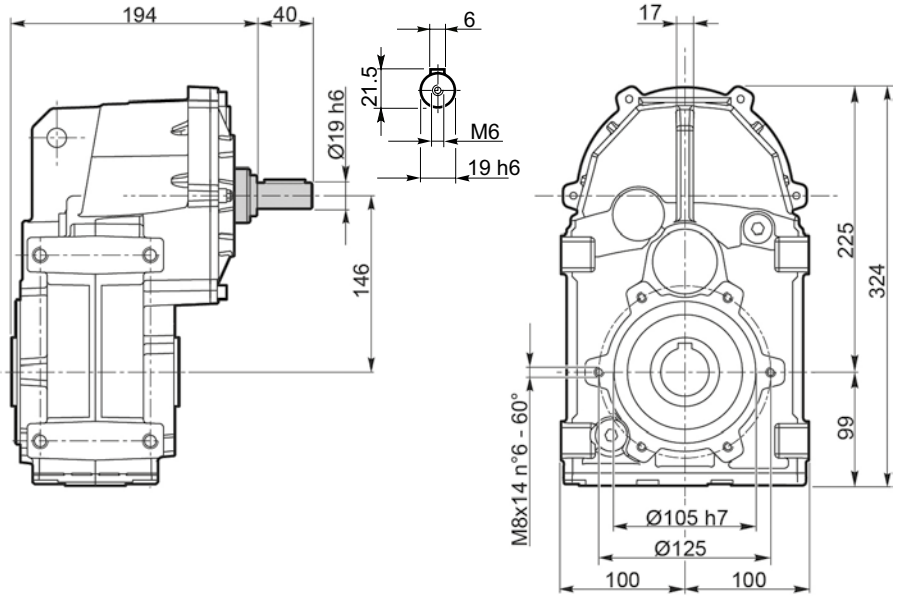
Dimensioni ***Dimensions***

ATS 912

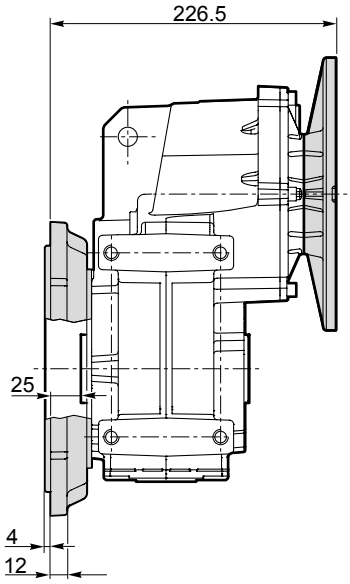
ATS 912 U..



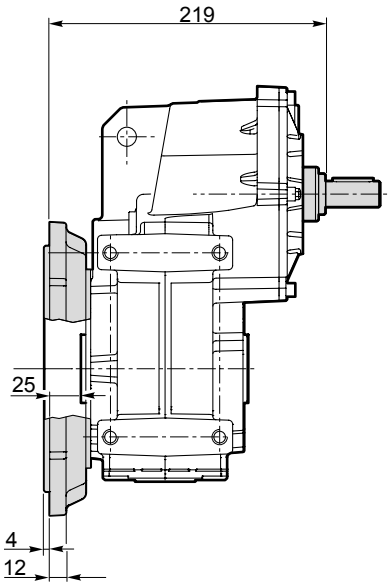
ATSIS 912 U..

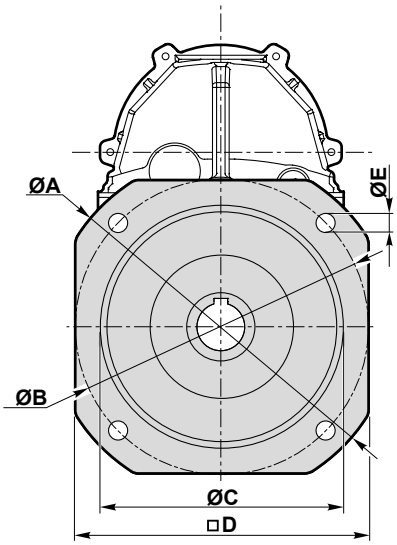


ATS 912 F..



ATSIS 912 F..

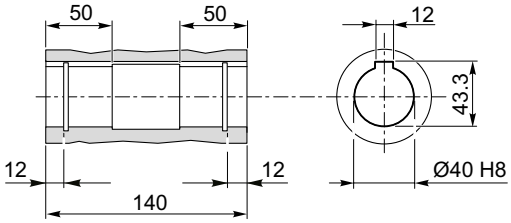




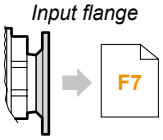
Versione **F** / ***F** Version*							
ATS ATSIS	**ØA**	**ØB**	**ØC f7**	**□D**	**ØE**	**Flangia / *Flange***	
						Tipo / *Type*	Peso / *Weight* [kg]
912	200	165	130	165	11	**F200**	2
	250	215	180	215	14	**F250**	3.2

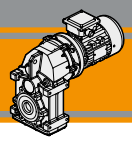
ATS 912.. D40 - ATSIS 912.. D40

Albero uscita cavo
Hollow output shaft



Flangia entrata
Input flange

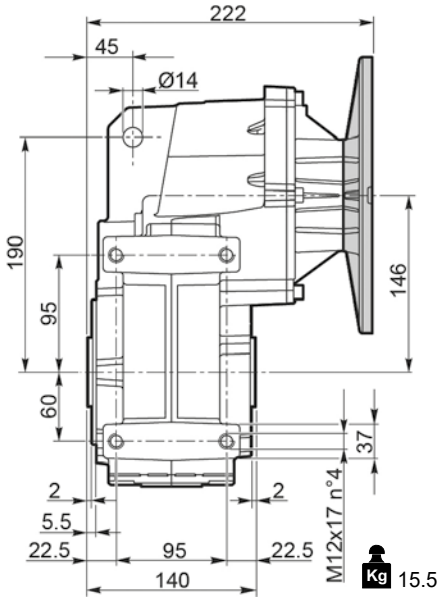




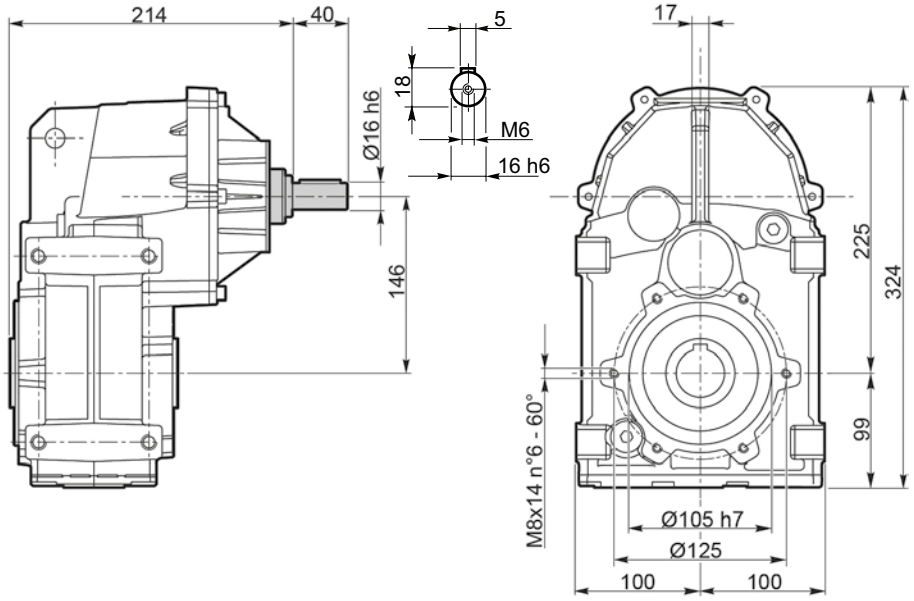
Dimensioni *Dimensions*

ATS 913

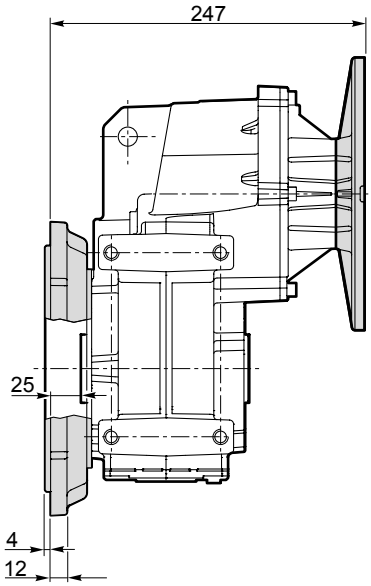
ATS 913 U..



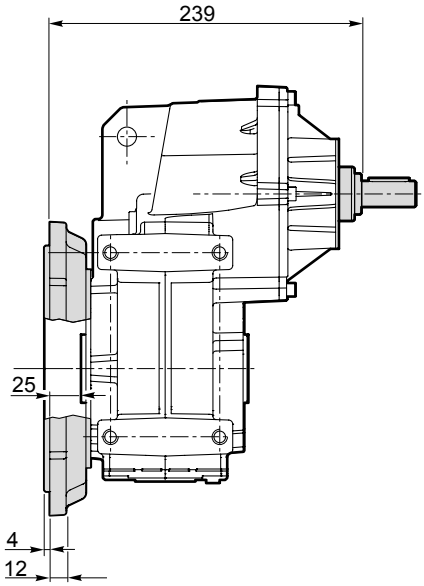
ATSIS 913 U..

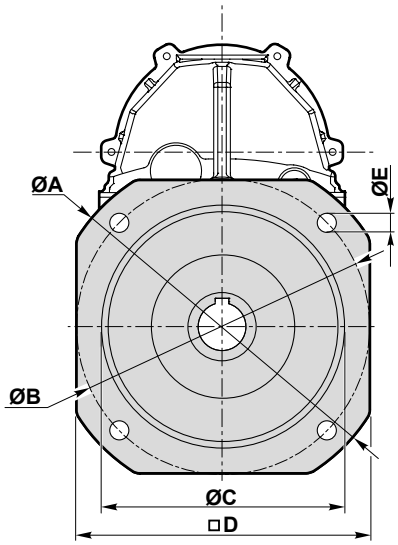


ATS 913 F..



ATSIS 913 F..

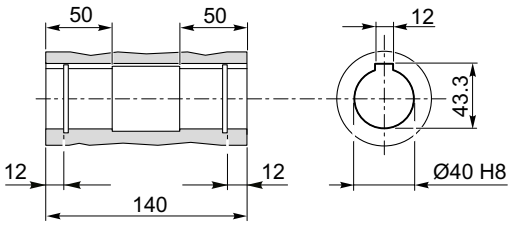




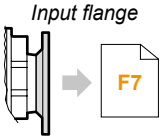
Versione **F** / ***F** Version*							
ATS ATSIS	**ØA**	**ØB**	**ØC f7**	**□D**	**ØE**	**Flangia / *Flange***	
						Tipo / *Type*	Peso / *Weight* [kg]
913	200	165	130	165	11	**F200**	2
	250	215	180	215	14	**F250**	3.2

ATS 913.. D40 - ATSIS 913.. D40

Albero uscita cavo
Hollow output shaft



Flangia entrata
Input flange



Accessori

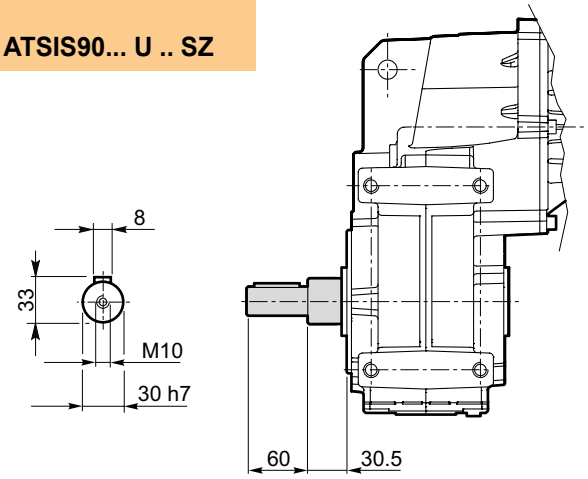
Accessories

Albero lento semplice

Single output shaft

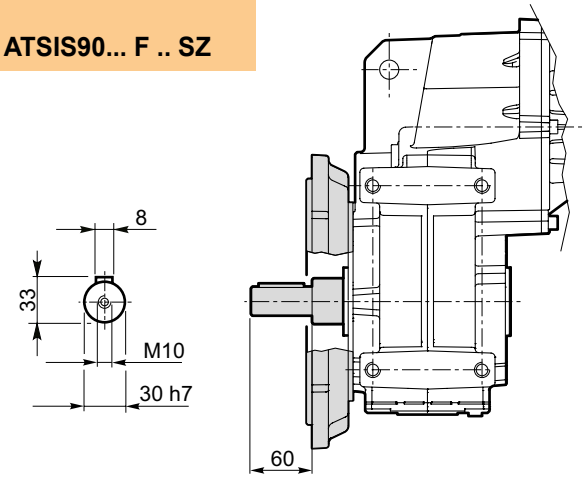
ATS90... U .. SZ

ATSIS90... U .. SZ



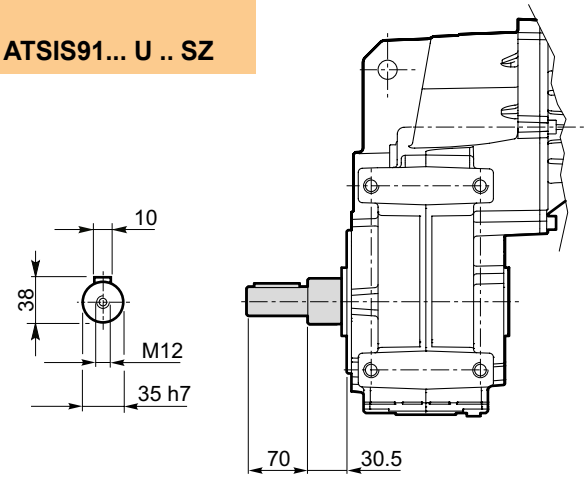
ATS90... F .. SZ

ATSIS90... F .. SZ



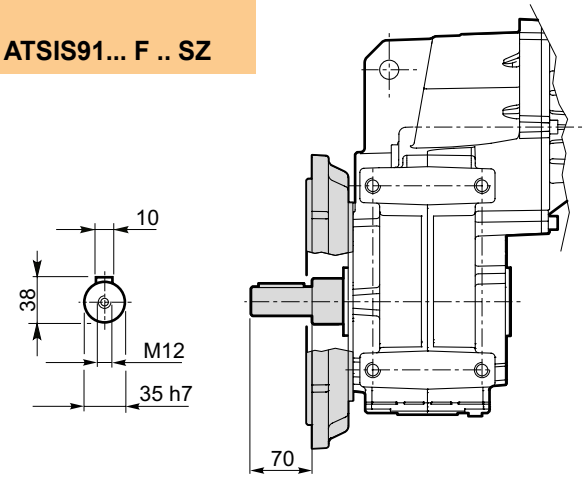
ATS91... U .. SZ

ATSIS91... U .. SZ



ATS91... F .. SZ

ATSIS91... F .. SZ

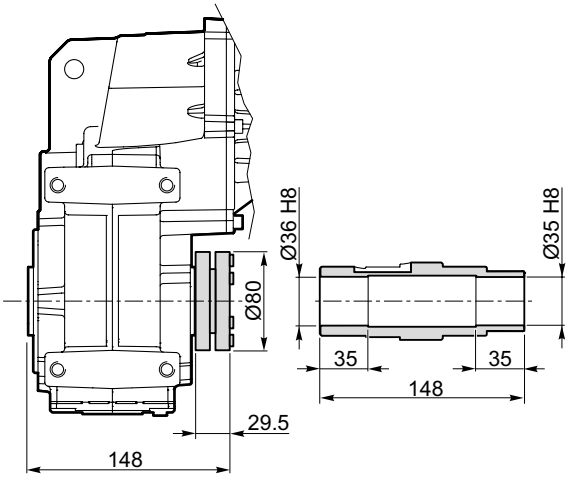


Albero lento con calettarore

Output shaft with shrink disk

ATS90... U .. G35

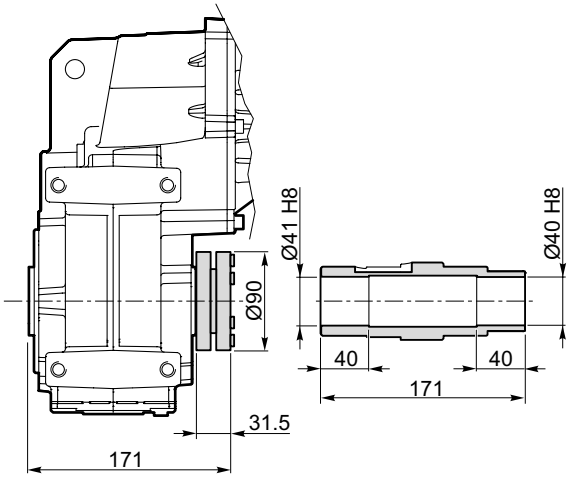
ATSIS90... U .. G35



Kit albero uscita con calettatore disponibile a richiesta:
per le istruzioni di montaggio riferirsi al nostro Servizio Tecnico.

ATS91... U .. G40

ATSIS91... U .. G40

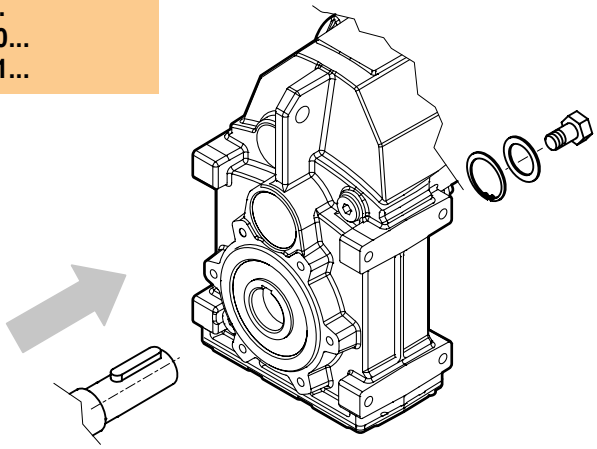


Output shaft kit with shrink disk available on request:
for assembly instructions please contact our Technical Service

Accessori / *Accessories*

Kit di montaggio albero uscita / *Output shaft assembly kit*

ATS90...
ATS91...
ATSIS90...
ATSIS91...

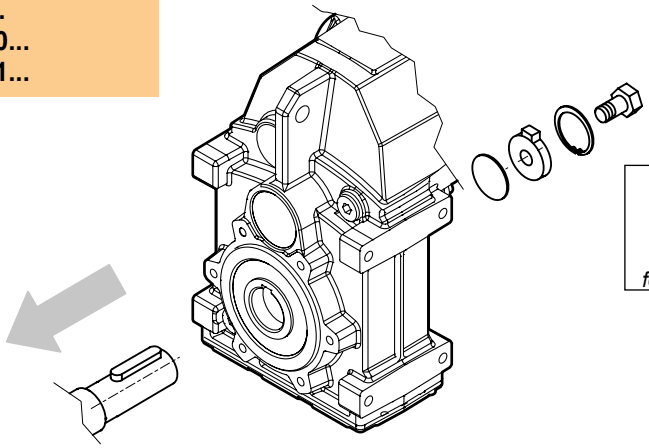


Kit di montaggio albero uscita disponibile a richiesta:
per le istruzioni di montaggio riferirsi al nostro Servizio Tecnico.

Output shaft assembly kit available upon request:
for assembly instructions please contact our Technical Assistance

Kit di smontaggio albero uscita / *Output shaft disassembly kit*

ATS90...
ATS91...
ATSIS90...
ATSIS91...

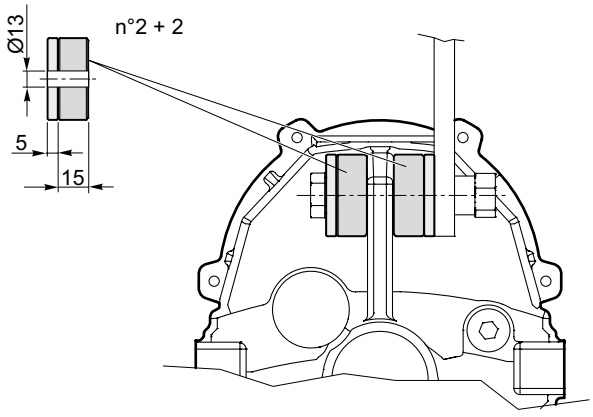


Kit di smontaggio albero uscita disponibile a richiesta:
per le istruzioni di montaggio riferirsi al nostro Servizio Tecnico.

Output shaft disassembly kit available upon request:
for assembly instructions please contact our Technical Assistance

Kit braccio di reazione / *Torque arm kit*

ATS90...U
ATS91...U
ATSIS90...U
ATSIS91...U



Kit braccio di reazione disponibile a richiesta:
per le istruzioni di montaggio riferirsi al nostro Servizio Tecnico.

Torque arm kit available upon request:
for assembly instructions please contact our Technical Assistance

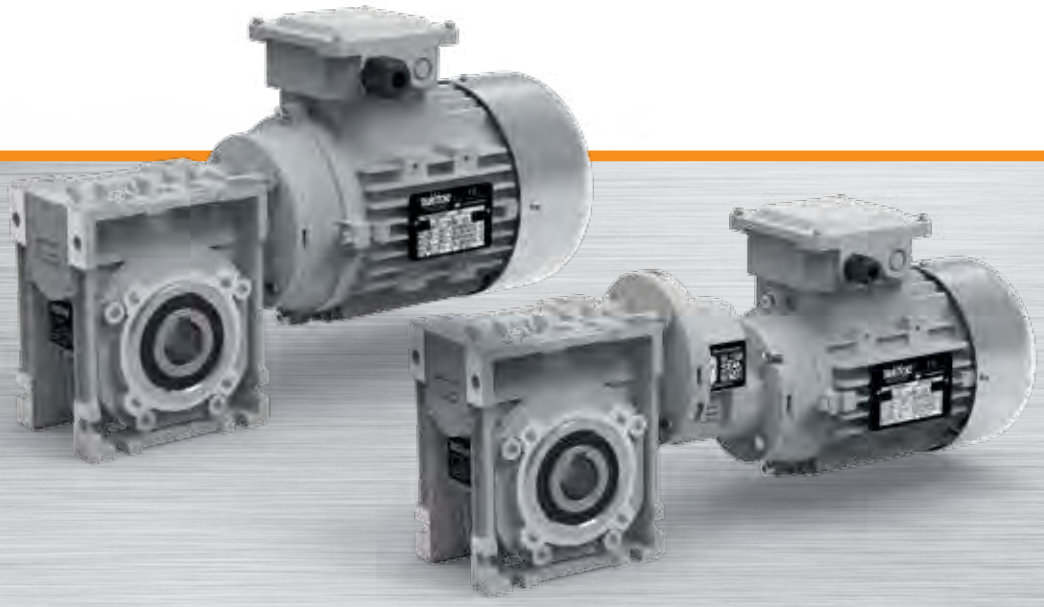
TRANSTECNO®
the modular gearmotor

CM-CMP

CM-CMP

CM-CMP Alu

Motoriduttori a vite senza fine
Wormgearmotors



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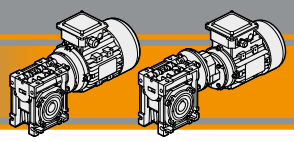

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Questa sezione annulla e sostituisce ogni precedente edizione o revisione. Qualora questa sezione non Vi sia giunta in distribuzione controllata, l'aggiornamento dei dati ivi contenuto non è assicurato. **In tal caso la versione più aggiornata è disponibile sul nostro sito internet www.transtecno.com**

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Caratteristiche tecniche — *Technical features*

L'elevata modularità contraddistingue i motoriduttori a vite senza fine della serie CM e CMP: i diversi kit entrata ed uscita li rendono estremamente versatili.
Le caratteristiche principali della serie CM e CMP sono:

- Carcassa in alluminio nelle grandezze 026, 030, 040, 050, 063, 070, 075, 090 e 110. La grandezza 130 è costruita con carcassa in ghisa;
- Le grandezze 090, 110 e 130 sono fornite con cuscinetti a rulli conici sulla vite;
- Le precoppie sono costruite con carcassa in allumino;

The high degree of modularity is a design feature of CM and CMP wormgearmotors range thanks to a wide selection of input and output kits.
Main features of CM and CMP range are:

- *Die-cast aluminum housing on sizes 026, 030, 040, 050, 063, 070, 075, 090 and 110. Cast iron housing on size 130;*
- *Double taper roller bearing on sizes 090, 110 and 130;*
- *Die-cast aluminum housing on pre-stage units;*

Designazione — *Classification*

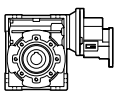
RIDUTTORI A VITE SENZA FINE / WORMGEARBOXES

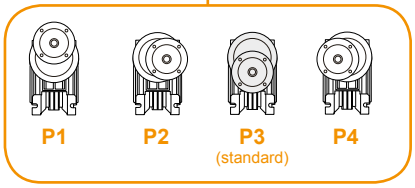
RIDUTTORE / *GEARBOX*

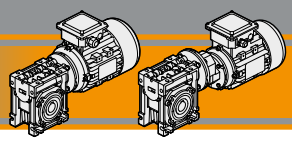
CM	050	U	10	71	B5	SZDX	BRSX	90	M1	VS
Tipo *Type*	Grandezza *Size*	Versione riduttore *Gearbox Version*	Rapporto *Ratio*	IEC	Forma costruttiva *Version*	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*	Pos. di montaggio *Mounting position*	Opzioni *Options*
CM **CMIS**	**026** **030** **040** **050** **063** **070** **075** **090** **110** **130**	**U** **FD** **FS** **FLD** **FLS** **FBD** **FBS**	Vedere tabella *See tables*	**56..** **—** **132..**	**B5** **B14**	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX**	**0°** **90°** **180°** **270°**	**M1** (B3) **M2** (V6) **M3** (B8) **M4** (V5) **M6** (B6) **M5** (B7)	**VS**

RIDUTTORI A VITE SENZA FINE CON PRECOPPIA / PRE-STAGE WORMGEARBOXES

RIDUTTORE / *GEARBOX*

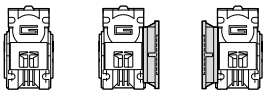
CMP	063/050	U	90	63	B14	SZDX	BRSX	90	P4	M1	VS
Tipo *Type*	Grandezza *Size*	Versione Riduttore *Gearbox Version*	Rapporto *Ratio*	IEC	Forma costruttiva Version	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*	Pos. di montaggio precoppia *Pre stage mounting position*	Pos. di montaggio *Mounting position*	Opzioni *Options*
CMP 	**056/030** **056/040** **063/040** **063/050** **063/063** **071/050** **071/063** **071/070** **071/075** **071/090** **080/063** **080/070** **080/075** **080/090** **080/110** **080/130** **090/070** **090/075** **090/090** **090/110** **090/130**	**U** **FD** **FS** **FLD** **FLS** **FBD** **FBS**	Vedere tabella *See tables*	**56..** **—** **80..**	**B5** **B14**	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX**	**0°** **90°** **180°** **270°**	**P1** **P2** **P3** (standard) **P4**	**M1** (B3) **M2** (V6) **M3** (B8) **M4** (V5) **M6** (B6) **M5** (B7)	**VS**





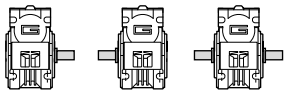
Designazione — *Classification*

Versione Riduttore / *Gearbox Version*



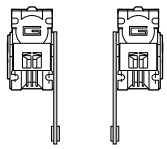
U — FD, FLD, FBD — FS, FLS, FBS

Albero di uscita / *Output shaft*



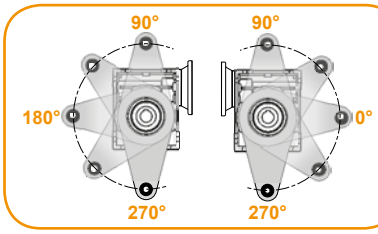
SZDX — SZSX — DZ

Braccio di reazione / *Torque arm*



BRDX — BRSX

Angolo / *Angle*

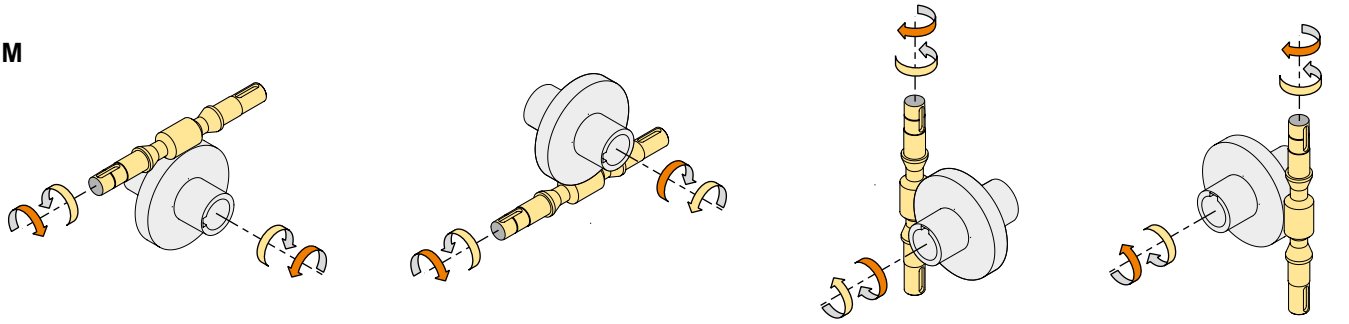


MOTORE CM / *CM MOTOR*

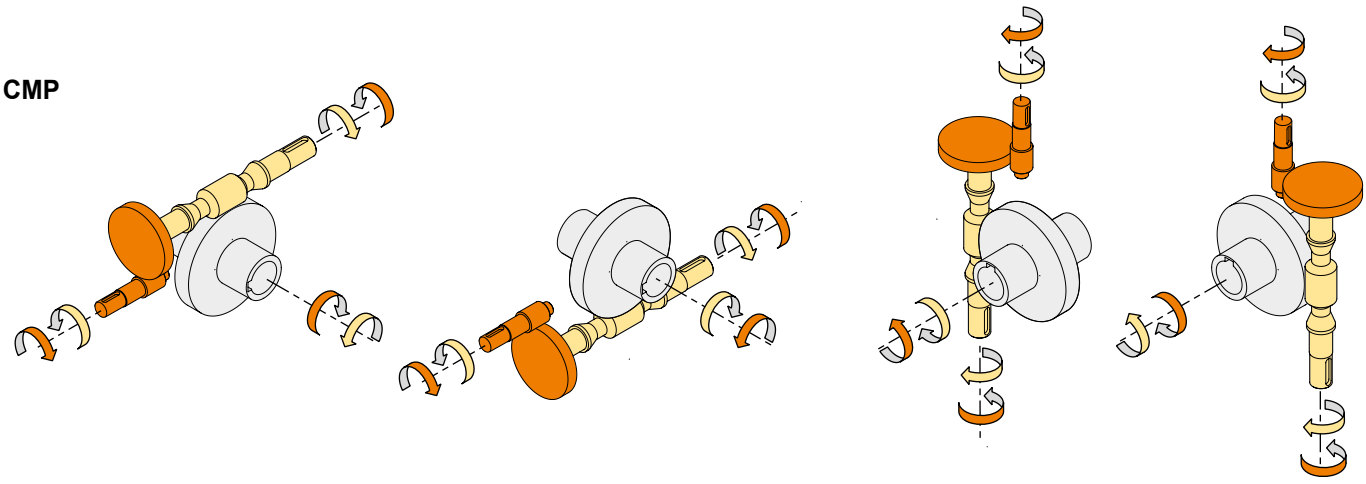
0.75kW	4p	3ph	230/400V	50Hz	T1
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*
Vedi tabelle *See tables*	**2p** **4p** **6p** **8p**	**1ph** **3ph**	**230/400V** **220/380V** ... **230V** ...	**50Hz** **60Hz**	**T1** (Std) **T4** **T2** **T3**

Sensi di rotazione — *Direction of rotation*

CM



CMP



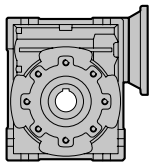
Simbologia — *Symbols*

n_1	[min^{-1}]	Velocità in ingresso / *Input speed*	sf		Fattore di servizio / *Service factor*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*	Rd	%	Rendimento dinamico / *Dynamic efficiency*
i		Rapporto di riduzione / *Ratio*	Rs	%	Rendimento statico / *Static efficiency*
P_1	[kW]	Potenza in entrata / *Nominal input power*	R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
M_2	[Nm]	Coppia in uscita in funzione di P_1 / *Output torque referred to P_1*	A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*
Pn_1	[kW]	Potenza nominale in entrata / *Nominal input power*	Z		Numero di principi della vite / *Worm starts*
Mn_2	[Nm]	Coppia nominale in uscita in funzione di Pn_1 / *Nominal output torque referred to Pn_1*	β		Angolo d'elica / *Helix angle*

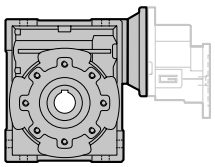
Lubrificazione — *Lubrication*

Tutti i motoriduttori sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di monatggio e non necessitano di manutenzione.

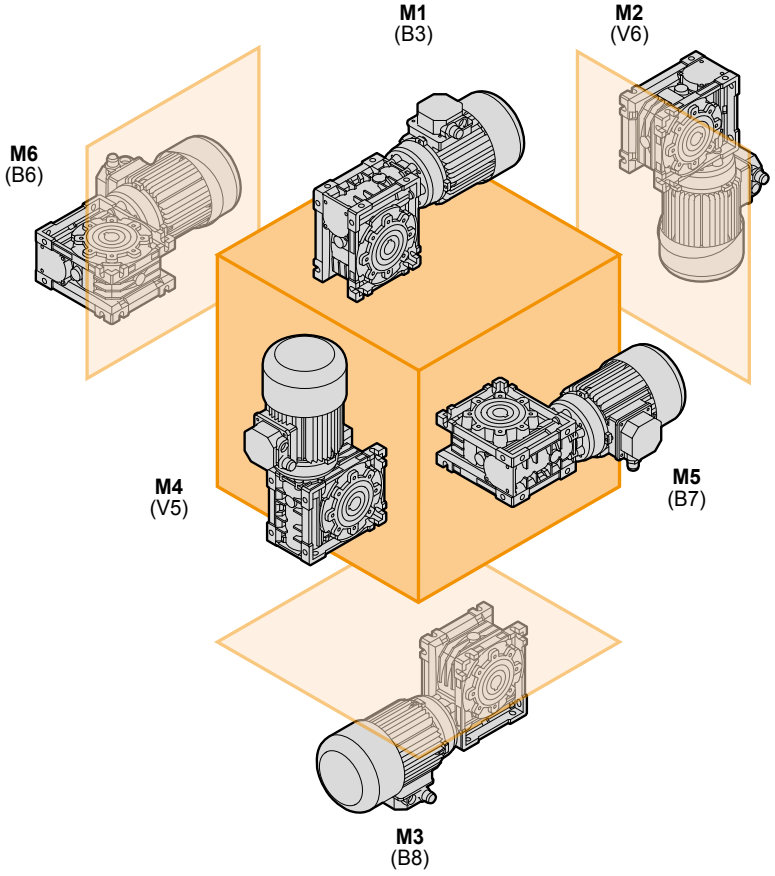
Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.



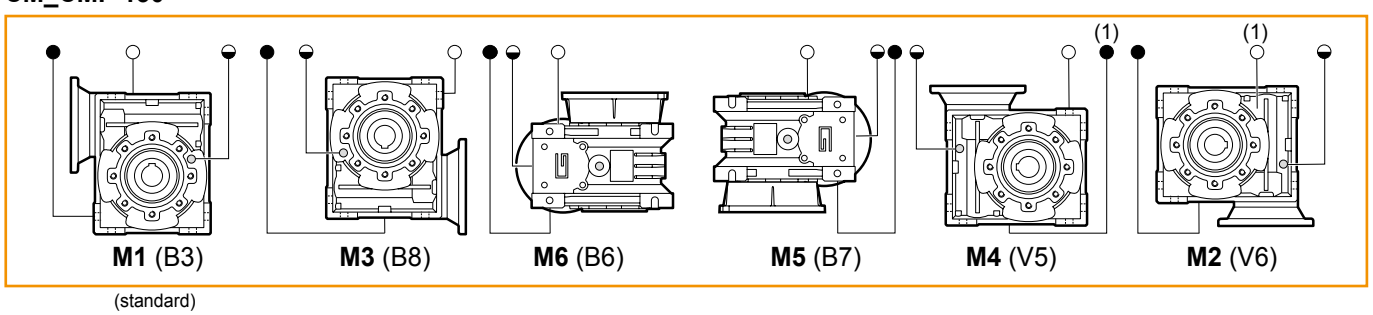
CM	Quantità di olio (litri) / *Oil quantity (litres)*					
	M1 (B3)	**M3** (B8)	**M6** (B6)	**M5** (B7)	**M4** (V5)	**M2** (V6)
130	4.5	3.3	3.5	3.5	4.5	3.3



CMP	Quantità di olio (litri) / *Oil quantity (litres)*					
	M1 (B3)	**M3** (B8)	**M6** (B6)	**M5** (B7)	**M4** (V5)	**M2** (V6)
080/130 - 090/130	4.5	3.3	3.5	3.5	4.5	3.3



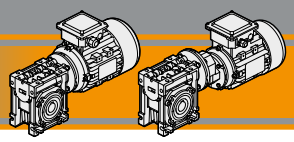
CM_CMP 130



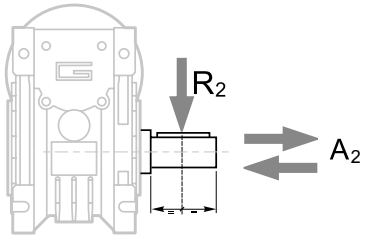
(standard)

(1): Tappo in posizione posteriore / *Plug in backside position*

◯ Sfiato e tappo di riempimento / *Breather and filling plug*
◒ Livello olio / *Oil level plug*
● Tappo di scarico / *Oil drain plug*



Carichi radiali — *Radial loads*

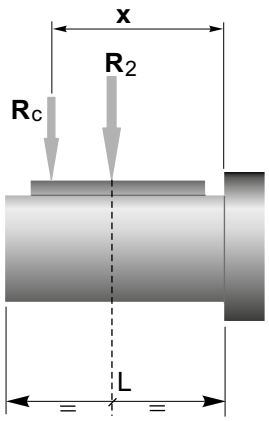


$A_2 = R_2 \times 0.2$

n_2 [min^{-1}]	R_2 [N]									
	CM026	CM030	CM040	CM050	CM063	CM070	CM075	CM090	CM110	CM130
187	400	674	1264	1770	2445	2613	2824	3161	5058	5732
140	490	743	1392	1949	2692	2878	3110	3481	5570	6313
93	580	851	1596	2234	3085	3298	3564	3990	6384	7235
70	610	936	1754	2456	3392	3626	3918	4386	7018	7953
56	610	1008	1890	2646	3654	3906	4221	4725	7560	8567
47	610	1069	2004	2805	3874	4141	4475	5009	8014	9083
35	610	1179	2210	3095	4273	4568	4937	5526	8842	10021
28	610	1270	2381	3334	4603	4921	5318	5953	9524	10794
23	610	1356	2542	3559	4915	5254	5678	6356	10170	11526
18	610	1471	2759	3862	5334	5702	6162	6897	11036	12507
14	610	1600	3000	4200	5800	6200	6700	7500	12000	13600
		CMP... /030	CMP... /040	CMP... /050	CMP... /063	CMP... /070	CMP... /075	CMP... /090	CMP... /110	CMP... /130

Quando il carico radiale risultante non è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:



	CM	CM / CMP								
	026	030	040	050	063	070	075	090	110	130
a	56	65	84	101	120	122	131	182	176	188
b	43	50	64	76	95	92	101	122	136	148
R_{2MAX}	610	1600	3000	4200	5800	6200	6700	7500	12000	13600

$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valori riportati nella tabella
a, b = values given in the table

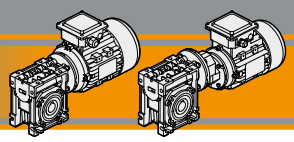
Dati di dentatura — *Toothing data*

	Dati della coppia vite-corona *Worm wheel data*	Rapporto / *Ratio*											
		5	7.5	10	15	20	25	30	40	50	60	80	100
CM026	Z	6	4	3	2	2		1	1	1	1		
	β	34° 35'	24° 41'	19° 1'	12° 57 '	10° 30'		6° 33'	5° 17'	4° 26'	3°49'		
CM030	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	27° 4'	24° 28'	18° 50'	12° 49'	10° 23'	8° 43'	6° 29'	5° 14'	4° 23'	3° 46'	2° 57'	2° 25'
CM040	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	34° 19'	24° 28'	18° 50'	12° 49'	10° 23'	8° 43'	6° 29'	5° 14'	4° 23'	3°46'	2° 57'	2° 25'
CM050	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	33° 37'	23° 54'	18° 23'	12° 29'	10° 6'	8° 28'	6° 19'	5° 5'	4° 15'	3° 39'	2°51'	2° 20'
CM063	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	34° 23'	24° 31'	18° 53'	12° 50'	10° 24'	8° 44'	6° 30'	5° 14'	4° 23'	3° 47'	2° 57'	2° 25'
CM070	Z		4	3	2	2	2	1	1	1	1	1	1
	β		26°12'	20°15'	13°49'	11°15'	9°29'	7°0'	5°41'	4°46'	4°7'	3°13'	2°39'
CM075	Z		4	3	2	2	2	1	1	1	1	1	1
	β		26° 17'	20° 20'	13° 52'	11° 18'	9° 32'	7° 2'	5° 42'	4° 48'	4° 8'	3° 14'	2° 40'
CM090	Z		4	3	2	2	2	1	1	1	1	1	1
	β		29° 11'	22° 43'	15° 36'	12° 50'	10° 53'	7° 56'	6° 30'	5° 29'	4° 45'	3° 45'	3° 6'
CM110	Z		4	3	2	2	2	1	1	1	1	1	1
	β		28° 14'	21° 56'	15° 1'	14° 41'	12° 34'	7° 38'	7° 28'	6° 21'	5° 32'	4° 24'	3° 39'
CM130	Z		4	3	2	2	2	1	1	1	1	1	1
	β		28°43'	22°20'	15°19'	13°47'	11°54'	7°48'	7°00'	6°01'	5°16'	4°08'	3°27'

Rendimento — *Efficiency*

	n_1 [min^{-1}]	Rendimento *Efficiency*	Rapporto / *Ratio*											
			5	7.5	10	15	20	25	30	40	50	60	80	100
CM026	2800	Rd	89	87	85	83	80		73	68	64	60		
	1400		87	84	83	78	74		66	61	57	53		
	900		84	83	80	75	71		61	57	52	48		
		Rs	72	71	68	61	56	46	41	36	34			
CM030	2800	Rd	89	88	86	84	81	78	74	70	65	62	57	52
	1400		86	85	84	79	75	72	67	62	58	55	48	43
	900		84	83	81	75	71	68	62	58	53	49	43	39
		Rs	72	67	63	55	50	43	39	35	31	27	23	21
CM040	2800	Rd	90	89	87	84	83	80	77	73	69	66	60	56
	1400		88	86	84	81	78	74	70	65	60	58	52	46
	900		86	84	82	77	74	70	66	60	57	53	46	41
		Rs	74	71	67	60	55	51	45	40	36	32	28	24
CM050	2800	Rd	91	90	88	86	84	82	78	74	71	68	62	58
	1400		89	87	85	82	79	76	72	67	63	60	54	49
	900		87	85	84	79	75	72	68	62	59	55	48	43
		Rs	73	70	66	59	55	51	44	39	35	32	27	23
CM063	2800	Rd	91	90	88	86	84	83	79	76	73	70	65	60
	1400		90	88	86	84	81	78	75	70	66	63	57	52
	900		89	86	84	81	78	75	70	65	61	58	52	47
		Rs	73	71	67	60	55	51	45	40	36	33	28	24
CM070	2800	Rd		90	89	87	85	84	80	77	74	72	67	62
	1400			89	87	84	82	80	76	72	68	65	60	53
	900			87	85	82	79	77	72	67	63	60	54	49
		Rs		72	69	62	60	55	48	43	38	36	31	26
CM075	2800	Rd		90	89	87	85	84	81	78	75	72	68	63
	1400			89	87	84	83	80	77	73	69	66	60	56
	900			87	85	83	80	77	73	68	64	61	55	50
		Rs		73	69	62	59	55	48	43	39	36	31	27
CM090	2800	Rd		91	90	88	86	85	83	80	78	75	71	67
	1400			90	88	86	84	83	79	76	72	69	64	60
	900			88	87	84	82	80	76	72	68	65	60	55
		Rs		74	71	65	61	59	51	46	42	39	34	30
CM110	2800	Rd		90	89	88	87	86	82	81	79	77	73	70
	1400			89	88	86	85	84	80	79	76	73	68	64
	900			88	87	84	83	82	78	75	71	68	63	59
		Rs		74	71	64	64	60	50	49	46	42	37	33
CM130	2800	Rd		90	89	88	87	86	82	80	79	77	72	70
	1400			89	88	86	84	83	79	76	75	73	69	64
	900			88	87	84	82	81	77	74	73	70	64	59
		Rs		74	71	64	64	60	50	49	46	42	37	33

Rendimento teorico del riduttore dopo il rodaggio
Theoretical efficiency of the gearbox after the first running period



Dati tecnici — n_1 1400 min^{-1} — ***Technical data***

n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
CMIS026			
280	13	0.44	5
187	14	0.33	7,5
140	14	0.25	10
93	14	0.18	15
70	14	0.14	20
47	15	0.11	30
35	14	0.08	40
28	13	0.07	50
23	12	0.06	60
CMIS030			
280	18	0.61	5
187	20	0.46	7.5
140	21	0.37	10
93	21	0.26	15
70	19	0.19	20
56	20	0.16	25
47	22	0.16	30
35	20	0.12	40
28	19	0.10	50
23	17	0.08	60
18	15	0.06	80
14	14	0.05	100
CMIS040			
280	41	1.37	5
187	44	1.00	7.5
140	45	0.79	10
93	45	0.54	15
70	40	0.38	20
56	38	0.30	25
47	48	0.34	30
35	42	0.24	40
28	39	0.19	50
23	36	0.15	60
18	33	0.12	80
14	31	0.10	100
CMIS050			
280	75	2.5	5
187	79	1.8	7.5
140	82	1.4	10
93	82	0.98	15
70	72	0.67	20
56	70	0.54	25
47	88	0.60	30
35	76	0.42	40
28	72	0.34	50
23	69	0.28	60
18	60	0.20	80
14	56	0.17	100
CMIS063			
280	134	4.4	5
187	144	3.2	7.5
140	148	2.5	10
93	154	1.8	15
70	136	1.23	20
56	135	1.0	25
47	166	1.1	30
35	142	0.74	40
28	136	0.60	50
23	126	0.49	60
18	118	0.38	80
14	116	0.33	100

Nota:
Pn_1 è la potenza meccanica.
La potenza applicabile è ridotta del fattore termico.
Per maggiori dettagli consultare il nostro Servizio Tecnico.

n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
CMIS070			
187	200	4.4	7.5
140	218	3.7	10
93	221	2.6	15
70	202	1.8	20
56	180	1.3	25
47	241	1.6	30
35	210	1.1	40
28	190	0.82	50
23	181	0.68	60
18	159	0.49	80
14	154	0.43	100
CMIS075			
187	238	5.2	7.5
140	257	4.3	10
93	266	3.1	15
70	242	2.1	20
56	225	1.7	25
47	289	1.8	30
35	251	1.3	40
28	227	0.96	50
23	218	0.82	60
18	193	0.59	80
14	183	0.49	100
CMIS090			
187	342	7.4	7.5
140	380	6.2	10
93	433	4.9	15
70	414	3.6	20
56	369	2.6	25
47	493	3.0	30
35	434	2.1	40
28	385	1.55	50
23	352	1.23	60
18	324	0.92	80
14	299	0.72	100
CMIS110			
187	605	13	7.5
140	669	11.0	10
93	730	8.2	15
70	740	6.0	20
56	670	4.7	25
47	815	4.9	30
35	768	3.6	40
28	699	1.7	50
23	626	1.1	60
18	562	1.51	80
14	523	1.19	100
CMIS130			
187	750	16.5	7.5
140	820	13.7	10
93	910	10.3	15
70	910	7.9	20
56	920	6.5	25
47	1050	6.5	30
35	1050	5.1	40
28	970	3.8	50
23	890	3.0	60
18	830	2.2	80
14	735	1.7	100

Note:
Pn_1 is an input mechanical power which must be reduced by the heating factor in order to get the relevant one. For more details please contact our Technical Service.

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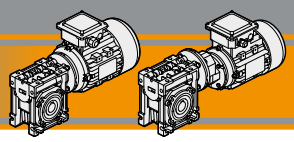
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.06							
56A4 (1400 min^{-1})	**280**	2	7.3	5	**CM026**		**B14**
	187	3	5.4	7.5	**CM026**		**B14**
	140	3	4.1	10	**CM026**		**B14**
	93	5	2.9	15	**CM026**		**B14**
	70	6	2.3	20	**CM026**		**B14**
	47	8	1.9	30	**CM026**		**B14**
	35	10	1.4	40	**CM026**		**B14**
	28	12	1.1	50	**CM026**		**B14**
	23	13	0.9	60	**CM026**		**B14**
	280	2	10.2	5	**CM030**		**B5/B14**
	187	3	7.7	7.5	**CM030**		**B5/B14**
	140	3	6.1	10	**CM030**		**B5/B14**
	93	5	4.3	15	**CM030**		**B5/B14**
	70	6	3.1	20	**CM030**		**B5/B14**
	56	7	2.7	25	**CM030**		**B5/B14**
	47	8	2.7	30	**CM030**		**B5/B14**
	35	10	2.0	40	**CM030**		**B5/B14**
	28	12	1.6	50	**CM030**		**B5/B14**
	23	14	1.3	60	**CM030**		**B5/B14**
	23	16	1.6	60		**CMP056/030**	**B14**
	19	19	1.4	75		**CMP056/030**	**B14**
	18	16	1.0	80	**CM030**		**B5/B14**
	16	21	1.5	90		**CMP056/030**	**B14**
	14	18	0.8	100	**CM030**		**B5/B14**
	12	26	1.1	120		**CMP056/030**	**B14**
	9.3	29	0.9	150		**CMP056/030**	**B14**
	28	12	3.2	50	**CM040**		**B5/B14**
	23	14	2.5	60	**CM040**		**B5/B14**
	23	17	3.4	60		**CMP056/040**	**B14**
	19	20	2.6	75		**CMP056/040**	**B14**
	18	17	1.9	80	**CM040**		**B5/B14**
	16	23	3.1	90		**CMP056/040**	**B14**
	14	19	1.6	100	**CM040**		**B5/B14**
	12	28	2.2	120		**CMP056/040**	**B14**
	9.3	32	1.8	150		**CMP056/040**	**B14**
	7.8	35	1.5	180		**CMP056/040**	**B14**
	5.8	41	1.1	240		**CMP056/040**	**B14**
	4.7	46	0.9	300		**CMP056/040**	**B14**
0.09							
56A2 (2800 min^{-1})	**560**	1	7.3	5	**CM026**		**B14**
	373	2	5.5	7.5	**CM026**		**B14**
	280	3	4.2	10	**CM026**		**B14**
	187	4	2.9	15	**CM026**		**B14**
	140	5	2.2	20	**CM026**		**B14**
	93	7	1.8	30	**CM026**		**B14**
	70	8	1.3	40	**CM026**		**B14**
	56	10	1.0	50	**CM026**		**B14**
	47	11	0.8	60	**CM026**		**B14**
	140	5	2.8	20	**CM030**		**B5/B14**
	112	6	2.5	25	**CM030**		**B5/B14**
	93	7	2.6	30	**CM030**		**B5/B14**
	70	9	1.9	40	**CM030**		**B5/B14**
	56	10	1.5	50	**CM030**		**B5/B14**
	47	11	1.2	60	**CM030**		**B5/B14**
	47	13	1.7	60		**CMP056/030**	**B14**
	37	15	1.4	75		**CMP056/030**	**B14**
	35	14	0.9	80	**CM030**		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.09							
56A2 (2800 min^{-1})	**31**	17	1.6	90		**CMP056/030**	**B14**
	28	16	0.7	100	**CM030**		**B5/B14**
	23	21	1.1	120		**CMP056/030**	**B14**
	19	24	0.9	150		**CMP056/030**	**B14**
	47	12	2.4	60	**CM040**		**B5/B14**
	47	13	3.4	60		**CMP056/040**	**B14**
	37	16	2.8	75		**CMP056/040**	**B14**
	31	18	3.1	90		**CMP056/040**	**B14**
	23	22	2.2	120		**CMP056/040**	**B14**
	19	26	1.8	150		**CMP056/040**	**B14**
	16	29	1.5	180		**CMP056/040**	**B14**
	12	33	1.2	240		**CMP056/040**	**B14**
	9.3	37	1.0	300		**CMP056/040**	**B14**
56B4 (1400 min^{-1})	**280**	3	4.9	5	**CM026**		**B14**
	187	4	3.6	7.5	**CM026**		**B14**
	140	5	2.7	10	**CM026**		**B14**
	93	7	1.9	15	**CM026**		**B14**
	70	9	1.5	20	**CM026**		**B14**
	47	12	1.2	30	**CM026**		**B14**
	35	15	0.9	40	**CM026**		**B14**
	28	17	0.7	50	**CM026**		**B14**
	280	3	6.8	5	**CM030**		**B5/B14**
	187	4	5.1	7.5	**CM030**		**B5/B14**
	140	5	4.1	10	**CM030**		**B5/B14**
	93	7	2.9	15	**CM030**		**B5/B14**
	70	9	2.1	20	**CM030**		**B5/B14**
	56	11	1.8	25	**CM030**		**B5/B14**
	47	12	1.8	30	**CM030**		**B5/B14**
	35	15	1.3	40	**CM030**		**B5/B14**
	28	18	1.1	50	**CM030**		**B5/B14**
	23	20	0.8	60	**CM030**		**B5/B14**
	23	24	1.1	60		**CMP056/030**	**B14**
	19	29	0.9	75		**CMP056/030**	**B14**
	18	24	0.6	80	**CM030**		**B5/B14**
	16	32	1.0	90		**CMP056/030**	**B14**
	12	38	0.8	120		**CMP056/030**	**B14**
	35	16	2.6	40	**CM040**		**B5/B14**
	28	18	2.1	50	**CM040**		**B5/B14**
	23	21	1.7	60	**CM040**		**B5/B14**
	23	25	2.3	60		**CMP056/040**	**B14**
	19	30	1.7	75		**CMP056/040**	**B14**
	18	26	1.3	80	**CM040**		**B5/B14**
	16	34	2.1	90		**CMP056/040**	**B14**
	14	28	1.1	100	**CM040**		**B5/B14**
	12	42	1.5	120		**CMP056/040**	**B14**
	9.3	48	1.2	150		**CMP056/040**	**B14**
	7.8	53	1.0	180		**CMP056/040**	**B14**
	5.8	62	0.8	240		**CMP056/040**	**B14**
63A6 (900 min^{-1})	**180**	4	5.2	5	**CM030**		**B5/B14**
	120	6	4.0	7.5	**CM030**		**B5/B14**
	90	8	3.1	10	**CM030**		**B5/B14**
	60	11	2.3	15	**CM030**		**B5/B14**
	45	14	1.6	20	**CM030**		**B5/B14**
	36	16	1.4	25	**CM030**		**B5/B14**
	30	18	1.5	30	**CM030**		**B5/B14**
	23	22	1.0	40	**CM030**		**B5/B14**
	18	25	0.9	50	**CM030**		**B5/B14**



Dati tecnici

Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.09							
63A6 (900 min^{-1})	**45**	14	3.2	20	**CM040**		**B5/B14**
	36	17	2.6	25	**CM040**		**B5/B14**
	30	19	3.0	30	**CM040**		**B5/B14**
	23	23	2.1	40	**CM040**		**B5/B14**
	18	27	1.7	50	**CM040**		**B5/B14**
	15	30	1.4	60	**CM040**		**B5/B14**
	15	38	1.8	60		**CMP063/040**	**B14**
	12	45	1.4	75		**CMP063/040**	**B14**
	11	35	1.1	80	**CM040**		**B5/B14**
	10	48	1.7	90		**CMP063/040**	**B14**
	9	39	0.9	100	**CM040**		**B5/B14**
	7.5	58	1.2	120		**CMP063/040**	**B14**
	15	32	2.4	60	**CM050**		**B5/B14**
	15	38	3.3	60		**CMP063/050**	**B14**
	12	45	2.6	75		**CMP063/050**	**B14**
	11	37	1.9	80	**CM050**		**B5/B14**
	10	49	3.1	90		**CMP063/050**	**B14**
	9	41	1.6	100	**CM050**		**B5/B14**
	7.5	60	2.1	120		**CMP063/050**	**B14**
	6.0	67	1.8	150		**CMP063/050**	**B14**
	5.0	74	1.4	180		**CMP063/050**	**B14**
	3.8	85	1.1	240		**CMP063/050**	**B14**
	6.0	72	3.0	150		**CMP063/063**	**B14**
	5.0	79	2.5	180		**CMP063/063**	**B14**
	3.8	90	1.9	240		**CMP063/063**	**B14**
	3.0	101	1.5	300		**CMP063/063**	**B14**
0.12							
56B2 (2800 min^{-1})	**560**	2	5.5	5	**CM026**		**B14**
	373	3	4.1	7.5	**CM026**		**B14**
	280	3	3.2	10	**CM026**		**B14**
	187	5	2.2	15	**CM026**		**B14**
	140	7	1.7	20	**CM026**		**B14**
	93	9	1.3	30	**CM026**		**B14**
	70	11	1.0	40	**CM026**		**B14**
	56	13	0.8	50	**CM026**		**B14**
	560	2	7.1	5	**CM030**		**B5/B14**
	373	3	5.6	7.5	**CM030**		**B5/B14**
	280	4	4.5	10	**CM030**		**B5/B14**
	187	5	3.1	15	**CM030**		**B5/B14**
	140	7	2.1	20	**CM030**		**B5/B14**
	112	8	1.9	25	**CM030**		**B5/B14**
	93	9	2.0	30	**CM030**		**B5/B14**
	70	11	1.4	40	**CM030**		**B5/B14**
	56	13	1.1	50	**CM030**		**B5/B14**
	47	15	0.9	60	**CM030**		**B5/B14**
	47	17	1.3	60		**CMP056/030**	**B14**
	37	20	1.1	75		**CMP056/030**	**B14**
	31	22	1.2	90		**CMP056/030**	**B14**
	23	28	0.8	120		**CMP056/030**	**B14**
	93	9	4.0	30	**CM040**		**B5/B14**
	70	12	2.8	40	**CM040**		**B5/B14**
	56	14	2.3	50	**CM040**		**B5/B14**
	47	16	1.8	60	**CM040**		**B5/B14**
	47	18	2.5	60		**CMP056/040**	**B5/B14**
	37	21	2.1	75		**CMP056/040**	**B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.12							
56B2 (2800 min^{-1})	**35**	20	1.4	80	**CM040**		**B5/B14**
	31	24	2.4	90		**CMP056/040**	**B14**
	28	23	1.0	100	**CM040**		**B5/B14**
	23	29	1.7	120		**CMP056/040**	**B14**
	19	34	1.3	150		**CMP056/040**	**B14**
	16	38	1.1	180		**CMP056/040**	**B14**
	12	44	0.9	240		**CMP056/040**	**B14**
63A4 (1400 min^{-1})	**280**	4	5.1	5	**CM030**		**B5/B14**
	187	5	3.8	7.5	**CM030**		**B5/B14**
	140	7	3.1	10	**CM030**		**B5/B14**
	93	10	2.2	15	**CM030**		**B5/B14**
	70	12	1.5	20	**CM030**		**B5/B14**
	56	15	1.4	25	**CM030**		**B5/B14**
	47	16	1.3	30	**CM030**		**B5/B14**
	35	20	1.0	40	**CM030**		**B5/B14**
	28	24	0.8	50	**CM030**		**B5/B14**
	280	4	11.4	5	**CM040**		**B5/B14**
	187	5	8.3	7.5	**CM040**		**B5/B14**
	140	7	6.5	10	**CM040**		**B5/B14**
	93	10	4.5	15	**CM040**		**B5/B14**
	70	13	3.1	20	**CM040**		**B5/B14**
	56	15	2.5	25	**CM040**		**B5/B14**
	47	17	2.8	30	**CM040**		**B5/B14**
	35	21	2.0	40	**CM040**		**B5/B14**
	28	25	1.6	50	**CM040**		**B5/B14**
	23	28	1.3	60	**CM040**		**B5/B14**
	23	34	1.7	60		**CMP063/040**	**B14**
	19	40	1.3	75		**CMP063/040**	**B14**
	18	34	1.0	80	**CM040**		**B5/B14**
	16	45	1.6	90		**CMP063/040**	**B14**
	14	38	0.8	100	**CM040**		**B5/B14**
	12	56	1.1	120		**CMP063/040**	**B14**
	35	22	3.5	40	**CM050**		**B5/B14**
	28	26	2.8	50	**CM050**		**B5/B14**
	23	29	2.3	60	**CM050**		**B5/B14**
	23	34	3.0	60		**CMP063/050**	**B14**
	19	40	2.3	75		**CMP063/050**	**B14**
	18	35	1.7	80	**CM050**		**B5/B14**
	16	47	2.7	90		**CMP063/050**	**B14**
	14	40	1.4	100	**CM050**		**B5/B14**
	12	57	1.9	120		**CMP063/050**	**B14**
	9.3	66	1.6	150		**CMP063/050**	**B14**
	7.8	74	1.3	180		**CMP063/050**	**B14**
	5.8	85	1.0	240		**CMP063/050**	**B14**
	14.0	43	2.7	100	**CM063**		**B5**
	9.3	69	2.8	150		**CMP063/063**	**B14**
	7.8	77	2.3	180		**CMP063/063**	**B14**
	5.8	90	1.7	240		**CMP063/063**	**B14**
	4.7	101	1.4	300		**CMP063/063**	**B14**
63B6 (900 min^{-1})	**180**	5	3.9	5	**CM030**		**B5/B14**
	120	8	3.0	7.5	**CM030**		**B5/B14**
	90	10	2.3	10	**CM030**		**B5/B14**
	60	14	1.7	15	**CM030**		**B5/B14**
	45	18	1.2	20	**CM030**		**B5/B14**
	36	22	1.0	25	**CM030**		**B5/B14**
	30	24	1.1	30	**CM030**		**B5/B14**
	23	30	0.8	40	**CM030**		**B5/B14**

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Technical data

0.12

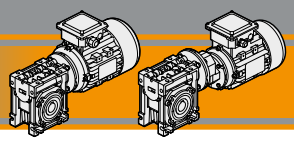
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
63B6 (900 min^{-1})	**60**	15	3.7	15	**CM040**		**B5/B14**
	45	19	2.4	20	**CM040**		**B5/B14**
	36	22	2.0	25	**CM040**		**B5/B14**
	30	25	2.2	30	**CM040**		**B5/B14**
	23	31	1.6	40	**CM040**		**B5/B14**
	18	36	1.3	50	**CM040**		**B5/B14**
	15	40	1.1	60	**CM040**		**B5/B14**
	15	50	1.3	60		**CMP063/040**	**B14**
	12	60	1.1	75		**CMP063/040**	**B14**
	11	47	0.9	80	**CM040**		**B5/B14**
	10	64	1.3	90		**CMP063/040**	**B14**
	7.5	78	0.9	120		**CMP063/040**	**B14**
	30	26	3.8	30	**CM050**		**B5/B14**
	23	32	2.7	40	**CM050**		**B5/B14**
	18	38	2.2	50	**CM050**		**B5/B14**
	15	42	1.8	60	**CM050**		**B5/B14**
	15	50	2.5	60		**CMP063/050**	**B14**
	12	59	1.9	75		**CMP063/050**	**B14**
	11	49	1.4	80	**CM050**		**B5/B14**
	10	65	2.3	90		**CMP063/050**	**B14**
	9	55	1.2	100	**CM050**		**B5/B14**
	7.5	79	1.6	120		**CMP063/050**	**B14**
	6.0	90	1.3	150		**CMP063/050**	**B14**
	5.0	99	1.1	180		**CMP063/050**	**B14**
	3.8	114	0.8	240		**CMP063/050**	**B14**
	11,3	53	2.4	80	**CM063**		**B5**
	9,0	60	2.0	100	**CM063**		**B5**
	7.5	82	2.9	120		**CMP063/063**	**B14**
	6.0	95	2.3	150		**CMP063/063**	**B14**
	5.0	106	1.9	180		**CMP063/063**	**B14**
	3.8	120	1.4	240		**CMP063/063**	**B14**
	3.0	135	1.2	300		**CMP063/063**	**B14**

0.18

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
63A2 (2800 min^{-1})	**560**	3	4.8	5	**CM030**		**B5/B14**
	373	4	3.7	7.5	**CM030**		**B5/B14**
	280	5	3.0	10	**CM030**		**B5/B14**
	187	8	2.1	15	**CM030**		**B5/B14**
	140	10	1.4	20	**CM030**		**B5/B14**
	112	12	1.3	25	**CM030**		**B5/B14**
	93	14	1.3	30	**CM030**		**B5/B14**
	70	17	0.9	40	**CM030**		**B5/B14**
	56	20	0.8	50	**CM030**		**B5/B14**
	140	10	3.0	20	**CM040**		**B5/B14**
	112	12	2.3	25	**CM040**		**B5/B14**
	93	14	2.7	30	**CM040**		**B5/B14**
	70	18	1.9	40	**CM040**		**B5/B14**
	56	21	1.5	50	**CM040**		**B5/B14**
	47	24	1.2	60	**CM040**		**B5/B14**
	47	27	1.7	60		**CMP063/040**	**B14**
	37	32	1.4	75		**CMP063/040**	**B14**
	35	29	0.9	80	**CM040**		**B5/B14**
	31	36	1.6	90		**CMP063/040**	**B14**
	23	43	1.1	120		**CMP063/040**	**B14**
	56	22	2.6	50	**CM050**		**B5/B14**
	47	25	2.1	60	**CM050**		**B5/B14**
	47	27	3.0	60		**CMP063/050**	**B14**
	37	32	2.3	75		**CMP063/050**	**B14**

0.18

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
63A2 (2800 min^{-1})	**35**	30	1.5	80	**CM050**		**B5/B14**
	31	37	2.7	90		**CMP063/050**	**B14**
	28	36	1.2	100	**CM050**		**B5/B14**
	23	45	1.9	120		**CMP063/050**	**B14**
	19	53	1.5	150		**CMP063/050**	**B14**
	16	60	1.3	180		**CMP063/050**	**B14**
	12	69	1.0	240		**CMP063/050**	**B14**
	35	32	2.7	80	**CM063**		**B5**
	28	37	2.2	100	**CM063**		**B5**
	19	55	2.7	150		**CMP063/063**	**B14**
	16	63	2.3	180		**CMP063/063**	**B14**
	12	75	1.7	240		**CMP063/063**	**B14**
	9.3	85	1.4	300		**CMP063/063**	**B14**
63B4 (1400 min^{-1})	**280**	5	3.4	5	**CM030**		**B5/B14**
	187	8	2.6	7.5	**CM030**		**B5/B14**
	140	10	2.0	10	**CM030**		**B5/B14**
	93	15	1.4	15	**CM030**		**B5/B14**
	70	18	1.0	20	**CM030**		**B5/B14**
	56	22	0.9	25	**CM030**		**B5/B14**
	47	25	0.9	30	**CM030**		**B5/B14**
	280	5	7.6	5	**CM040**		**B5/B14**
	187	8	5.6	7.5	**CM040**		**B5/B14**
	140	10	4.4	10	**CM040**		**B5/B14**
	93	15	3.0	15	**CM040**		**B5/B14**
	70	19	2.1	20	**CM040**		**B5/B14**
	56	23	1.7	25	**CM040**		**B5/B14**
	47	26	1.9	30	**CM040**		**B5/B14**
	35	32	1.3	40	**CM040**		**B5/B14**
	28	37	1.1	50	**CM040**		**B5/B14**
	23	43	0.8	60	**CM040**		**B5/B14**
	23	51	1.1	60		**CMP063/040**	**B14**
	19	60	0.9	75		**CMP063/040**	**B14**
	16	68	1.0	90		**CMP063/040**	**B14**
	35	33	2.3	40	**CM050**		**B5/B14**
	28	39	1.9	50	**CM050**		**B5/B14**
	23	44	1.6	60	**CM050**		**B5/B14**
	23	51	2.0	60		**CMP063/050**	**B14**
	19	60	1.5	75		**CMP063/050**	**B14**
	18	53	1.1	80	**CM050**		**B5/B14**
	16	70	1.8	90		**CMP063/050**	**B14**
	14	60	0.9	100	**CM050**		**B5/B14**
	12	85	1.3	120		**CMP063/050**	**B14**
	9.3	99	1.0	150		**CMP063/050**	**B14**
	7.8	110	0.9	180		**CMP063/050**	**B14**
	23	46	2.7	60	**CM063**		**B5**
	23	53	3.6	60		**CMP063/063**	**B14**
	19	63	2.7	75		**CMP063/063**	**B14**
	18	56	2.1	80	**CM063**		**B5**
	16	69	3.4	90		**CMP063/063**	**B14**
	14	64	1.8	100	**CM063**		**B5**
	12	87	2.4	120		**CMP063/063**	**B14**
	9.3	103	1.9	150		**CMP063/063**	**B14**
	7.8	115	1.6	180		**CMP063/063**	**B14**
	5.8	136	1.1	240		**CMP063/063**	**B14**
	4.7	152	0.9	300		**CMP063/063**	**B14**



Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.18							
71A6 (900 min^{-1})	**180**	8	5.7	5	**CM040**		**B5/B14**
	120	12	4.2	7.5	**CM040**		**B5/B14**
	90	16	3.3	10	**CM040**		**B5/B14**
	60	22	2.4	15	**CM040**		**B5/B14**
	45	28	1.6	20	**CM040**		**B5/B14**
	36	33	1.3	25	**CM040**		**B5/B14**
	30	38	1.5	30	**CM040**		**B5/B14**
	23	46	1.0	40	**CM040**		**B5/B14**
	36	34	2.2	25	**CM050**		**B5/B14**
	30	39	2.5	30	**CM050**		**B5/B14**
	23	47	1.8	40	**CM050**		**B5/B14**
	18	56	1.4	50	**CM050**		**B5/B14**
	15	63	1.2	60	**CM050**		**B5/B14**
	15	75	1.7	60		**CMP071/050**	**B14**
	12	88	1.3	75		**CMP071/050**	**B14**
	11	73	0.9	80	**CM050**		**B5/B14**
	10	98	1.5	90		**CMP071/050**	**B14**
	18	58	2.6	50	**CM063**		**B5/B14**
	15	66	2.1	60	**CM063**		**B5/B14**
	15	77	3.0	60		**CMP071/063**	**B14**
	12	91	2.3	75		**CMP071/063**	**B14**
	11	79	1.6	80	**CM063**		**B5/B14**
	10	101	2.8	90		**CMP071/063**	**B14**
	9	90	1.4	100	**CM063**		**B5/B14**
	7.5	124	2.0	120		**CMP071/063**	**B14**
	6.0	143	1.5	150		**CMP071/063**	**B14**
	5.0	158	1.3	180		**CMP071/063**	**B14**
	11	83	2.3	80	**CM070**		**B5**
	9	94	1.8	100	**CM070**		**B5**
	7.5	128	2.8	120		**CMP071/070**	**B14**
	6.0	149	2.1	150		**CMP071/070**	**B14**
	5.0	165	1.8	180		**CMP071/070**	**B14**
	3.8	193	1.3	240		**CMP071/070**	**B14**
	3.0	213	1.1	300		**CMP071/070**	**B14**
	11	84	2.7	80	**CM075**		**B5**
	9	96	2.1	100	**CM075**		**B5**
	7.5	130	3.3	120		**CMP071/075**	**B14**
	6.0	152	2.5	150		**CMP071/075**	**B14**
	5.0	168	2.1	180		**CMP071/075**	**B14**
	3.8	193	1.6	240		**CMP071/075**	**B14**
	3.0	213	1.3	300		**CMP071/075**	**B14**
	5.0	182	3.2	180		**CMP071/090**	**B14**
	3.8	211	2.4	240		**CMP071/090**	**B14**
	3.0	241	1.9	300		**CMP071/090**	**B14**
0.22							
63C4 (1400 min^{-1})	**280**	6	2.8	5	**CM030**		**B5/B14**
	187	10	2.1	7.5	**CM030**		**B5/B14**
	140	13	1.7	10	**CM030**		**B5/B14**
	93	18	1.2	15	**CM030**		**B5/B14**
	70	23	0.8	20	**CM030**		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.22							
63C4 (1400 min^{-1})	**280**	7	6.2	5	**CM040**		**B5/B14**
	187	10	4.5	7.5	**CM040**		**B5/B14**
	140	13	3.6	10	**CM040**		**B5/B14**
	93	18	2.5	15	**CM040**		**B5/B14**
	70	23	1.7	20	**CM040**		**B5/B14**
	56	28	1.4	25	**CM040**		**B5/B14**
	47	32	1.5	30	**CM040**		**B5/B14**
	35	39	1.1	40	**CM040**		**B5/B14**
	28	45	0.9	50	**CM040**		**B5/B14**
	23	62	0.9	60		**CMP063/040**	**B14**
	19	73	0.7	75		**CMP063/040**	**B14**
	16	83	0.9	90		**CMP063/040**	**B14**
	56	29	2,5	25	**CM050**		**B5/B14**
	47	32	2,7	30	**CM050**		**B5/B14**
	35	40	1.9	40	**CM050**		**B5/B14**
	28	47	1.5	50	**CM050**		**B5/B14**
	23	54	1.3	60	**CM050**		**B5/B14**
	23	63	1.6	60		**CMP063/050**	**B14**
	19	74	1.2	75		**CMP063/050**	**B14**
	18	65	0.9	80	**CM050**		**B5/B14**
	16	86	1.5	90		**CMP063/050**	**B14**
	14	74	0.8	100	**CM050**		**B5/B14**
	12	104	1.1	120		**CMP063/050**	**B14**
	9.3	121	0.9	150		**CMP063/050**	**B14**
	23	57	2.2	60	**CM063**		**B5**
	23	64	2.9	60		**CMP063/063**	**B14**
	19	77	2.2	75		**CMP063/063**	**B14**
	18	68	1.7	80	**CM063**		**B5**
	16	85	2.8	90		**CMP063/063**	**B14**
	14	78	1.5	100	**CM063**		**B5**
	12	106	1.9	120		**CMP063/063**	**B14**
	9.3	126	1.5	150		**CMP063/063**	**B14**
	7.8	140	1.3	180		**CMP063/063**	**B14**
	5.8	166	0.9	240		**CMP063/063**	**B14**
	4.7	185	0.8	300		**CMP063/063**	**B14**
0.25							
63B2 (2800 min^{-1})	**560**	4	3.4	5	**CM030**		**B5/B14**
	373	6	2.7	7.5	**CM030**		**B5/B14**
	280	7	2.2	10	**CM030**		**B5/B14**
	187	11	1.5	15	**CM030**		**B5/B14**
	140	14	1.0	20	**CM030**		**B5/B14**
	112	17	0.9	25	**CM030**		**B5/B14**
	93	19	1.0	30	**CM030**		**B5/B14**
	140	14	2.2	20	**CM040**		**B5/B14**
	112	17	1.6	25	**CM040**		**B5/B14**
	93	20	1.9	30	**CM040**		**B5/B14**
	70	25	1.4	40	**CM040**		**B5/B14**
	56	29	1.1	50	**CM040**		**B5/B14**
	47	34	0.9	60	**CM040**		**B5/B14**
	47	37	1.2	60		**CMP063/040**	**B14**
	37	44	1.0	75		**CMP063/040**	**B14**
	31	50	1.1	90		**CMP063/040**	**B14**
	23	60	0.8	120		**CMP063/040**	**B14**

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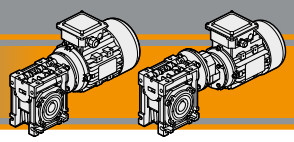
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.25							
63B2	**70**	25	2.3	40	**CM050**		**B5/B14**
(2800 min^{-1})	**56**	30	1.9	50	**CM050**		**B5/B14**
	47	35	1.5	60	**CM050**		**B5/B14**
	47	38	2.1	60		**CMP063/050**	**B14**
	37	45	1.7	75		**CMP063/050**	**B14**
	35	42	1.1	80	**CM050**		**B5/B14**
	31	51	1.9	90		**CMP063/050**	**B14**
	28	49	0.9	100	**CM050**		**B5/B14**
	23	62	1.4	120		**CMP063/050**	**B14**
	19	74	1.1	150		**CMP063/050**	**B14**
	16	83	0.9	180		**CMP063/050**	**B14**
	35	44	2.0	80	**CM063**		**B5**
	31	53	3.5	90		**CMP063/063**	**B14**
	28	51	1.6	100	**CM063**		**B5**
	23	65	2.5	120		**CMP063/063**	**B14**
	19	76	2.0	150		**CMP063/063**	**B14**
	16	87	1.6	180		**CMP063/063**	**B14**
	12	104	1.2	240		**CMP063/063**	**B14**
	9.3	118	1.0	300		**CMP063/063**	**B14**
71A4	**280**	8	5.5	5	**CM040**		**B5/B14**
(1400 min^{-1})	**187**	11	4.0	7.5	**CM040**		**B5/B14**
	140	14	3.1	10	**CM040**		**B5/B14**
	93	21	2.2	15	**CM040**		**B5/B14**
	70	27	1.5	20	**CM040**		**B5/B14**
	56	32	1.2	25	**CM040**		**B5/B14**
	47	36	1.3	30	**CM040**		**B5/B14**
	35	44	0.9	40	**CM040**		**B5/B14**
	70	27	2.7	20	**CM050**		**B5/B14**
	56	32	2.2	25	**CM050**		**B5/B14**
	47	37	2.4	30	**CM050**		**B5/B14**
	35	46	1.7	40	**CM050**		**B5/B14**
	28	54	1.3	50	**CM050**		**B5/B14**
	23	61	1.1	60	**CM050**		**B5/B14**
	23	71	1.4	60		**CMP071/050**	**B14**
	19	84	1.1	75		**CMP071/050**	**B14**
	18	74	0.8	80	**CM050**		**B5/B14**
	16	98	1.3	90		**CMP071/050**	**B14**
	28	56	2.4	50	**CM063**		**B5/B14**
	23	64	2.0	60	**CM063**		**B5/B14**
	23	73	2.6	60		**CMP071/063**	**B14**
	19	88	2.0	75		**CMP071/063**	**B14**
	18	78	1.5	80	**CM063**		**B5/B14**
	16	96	2.4	90		**CMP071/063**	**B14**
	14	89	1.3	100	**CM063**		**B5/B14**
	12	120	1.7	120		**CMP071/063**	**B14**
	9.3	143	1.3	150		**CMP071/063**	**B14**
	7.8	159	1.1	180		**CMP071/063**	**B14**
	18	82	1.9	80	**CM070**		**B5**
	16	99	3.1	90		**CMP071/070**	**B14**
	14	90	1.7	100	**CM070**		**B5**
	12	122	2.2	120		**CMP071/070**	**B14**
	9.3	143	1.8	150		**CMP071/070**	**B14**
	7.8	159	1.4	180		**CMP071/070**	**B14**
	5.8	189	1.1	240		**CMP071/070**	**B14**
	4.7	211	1.9	300		**CMP071/070**	**B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.25							
71A4	**18**	82	2.4	80	**CM075**		**B5**
(1400 min^{-1})	**16**	101	4.0	90		**CMP071/075**	**B14**
	14	96	1.9	100	**CM075**		**B5**
	12	124	2.9	120		**CMP071/075**	**B14**
	9.3	145	2.3	150		**CMP071/075**	**B14**
	7.8	162	1.9	180		**CMP071/075**	**B14**
	5.8	193	1.4	240		**CMP071/075**	**B14**
	4.7	216	1.1	300		**CMP071/075**	**B14**
	7.8	177	2.8	180		**CMP071/090**	**B14**
	5.8	209	2.2	240		**CMP071/090**	**B14**
	4.7	236	1.7	300		**CMP071/090**	**B14**
71B6	**180**	11	4.1	5	**CM040**		**B5/B14**
(900 min^{-1})	**120**	17	3.1	7.5	**CM040**		**B5/B14**
	90	22	2.4	10	**CM040**		**B5/B14**
	60	31	1.8	15	**CM040**		**B5/B14**
	45	39	1.1	20	**CM040**		**B5/B14**
	36	46	0.9	25	**CM040**		**B5/B14**
	30	53	1.1	30	**CM040**		**B5/B14**
	23	64	0.8	40	**CM040**		**B5/B14**
	45	40	2.0	20	**CM050**		**B5/B14**
	36	48	1.6	25	**CM050**		**B5/B14**
	30	54	1.8	30	**CM050**		**B5/B14**
	23	66	1.3	40	**CM050**		**B5/B14**
	18	78	1.0	50	**CM050**		**B5/B14**
	15	88	0.9	60	**CM050**		**B5/B14**
	15	105	1.2	60		**CMP071/050**	**B14**
	12	123	0.9	75		**CMP071/050**	**B14**
	10	136	1.1	90		**CMP071/050**	**B14**
	23	69	2.3	40	**CM063**		**B5/B14**
	18	81	1.9	50	**CM063**		**B5/B14**
	15	92	1.5	60	**CM063**		**B5/B14**
	15	108	2.1	60		**CMP071/063**	**B14**
	12	127	1.7	75		**CMP071/063**	**B14**
	11	110	1.2	80	**CM063**		**B5/B14**
	10	140	2.0	90		**CMP071/063**	**B14**
	9	125	1.0	100	**CM063**		**B5/B14**
	7.5	172	1.4	120		**CMP071/063**	**B14**
	6.0	199	1.1	150		**CMP071/063**	**B14**
	5.0	220	0.9	180		**CMP071/063**	**B14**
	18	84	2.6	50	**CM070**		**B5**
	15	96	2.2	60	**CM070**		**B5**
	11	115	1.6	80	**CM070**		**B5**
	10	145	2.9	90		**CMP071/070**	**B14**
	9	130	1.3	100	**CM070**		**B5**
	7.5	178	2.0	120		**CMP071/070**	**B14**
	6.0	207	1.5	150		**CMP071/070**	**B14**
	5.0	229	1.3	180		**CMP071/070**	**B14**
	3.8	268	0.9	240		**CMP071/070**	**B14**
	3.0	296	0.8	300		**CMP071/070**	**B14**



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Technical data

0.25

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
71B6 (900 min^{-1})	**15**	96	2.6	60	**CM075**		**B5**
	11	117	1.9	80	**CM075**		**B5**
	10	147	3.1	90		**CMP071/075**	**B14**
	9	133	1.5	100	**CM075**		**B5**
	7.5	181	2.4	120		**CMP071/075**	**B14**
	6.0	211	1.8	150		**CMP071/075**	**B14**
	5.0	234	1.5	180		**CMP071/075**	**B14**
	3.8	268	1.1	240		**CMP071/075**	**B14**
	3.0	296	0.9	300		**CMP071/075**	**B14**
	6.0	222	2.9	150		**CMP071/090**	**B14**
	5.0	253	2.3	180		**CMP071/090**	**B14**
	3.8	293	1.7	240		**CMP071/090**	**B14**
	3.0	335	1.4	300		**CMP071/090**	**B14**

0.37

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
71A2 (2800 min^{-1})	**560**	6	5.1	5	**CM040**		**B5/B14**
	373	8	3.7	7.5	**CM040**		**B5/B14**
	280	11	3.0	10	**CM040**		**B5/B14**
	187	16	2.2	15	**CM040**		**B5/B14**
	140	21	1.5	20	**CM040**		**B5/B14**
	112	25	1.1	25	**CM040**		**B5/B14**
	93	29	1.3	30	**CM040**		**B5/B14**
	70	37	0.9	40	**CM040**		**B5/B14**
	112	26	2.0	25	**CM050**		**B5/B14**
	93	30	2.3	30	**CM050**		**B5/B14**
	70	37	1.6	40	**CM050**		**B5/B14**
	56	45	1.3	50	**CM050**		**B5/B14**
	47	51	1.0	60	**CM050**		**B5/B14**
	47	56	1.4	60		**CMP071/050**	**B14**
	37	67	1.1	75		**CMP071/050**	**B14**
	31	76	1.3	90		**CMP071/050**	**B14**
	56	46	2.2	50	**CM063**		**B5/B14**
	47	53	1.8	60	**CM063**		**B5/B14**
	47	58	2.7	60		**CMP071/063**	**B14**
	37	70	2.0	75		**CMP071/063**	**B14**
	35	66	1.3	80	**CM063**		**B5/B14**
	31	78	2.4	90		**CMP071/063**	**B14**
	28	76	1.1	100	**CM063**		**B5/B14**
	23	96	1.7	120		**CMP071/063**	**B14**
	19	113	1.3	150		**CMP071/063**	**B14**
	16	129	1.1	180		**CMP071/063**	**B14**
	35	68	1.9	80	**CM070**		**B5**
	28	78	1.5	100	**CM070**		**B5**
	23	99	2.4	120		**CMP071/070**	**B14**
	19	117	1.8	150		**CMP071/070**	**B14**
	16	134	1.6	180		**CMP071/070**	**B14**
	12	160	1.2	240		**CMP071/070**	**B14**
	9.3	182	0.9	300		**CMP071/070**	**B14**
	35	68	2.2	80	**CM075**		**B5**
	28	80	1.7	100	**CM075**		**B5**
	23	101	2.8	120		**CMP071/075**	**B14**
	19	119	2.2	150		**CMP071/075**	**B14**
	16	134	1.9	180		**CMP071/075**	**B14**
	12	163	1.4	240		**CMP071/075**	**B14**
	9.3	186	1.1	300		**CMP071/075**	**B14**

0.37

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
71A2 (2800 min^{-1})	**16**	142	2.9	180		**CMP071/090**	**B14**
	12	175	2.2	240		**CMP071/090**	**B14**
	9.3	200	1.7	300		**CMP071/090**	**B14**
71B4 (1400 min^{-1})	**280**	11	3.7	5	**CM040**		**B5/B14**
	187	16	2.7	7.5	**CM040**		**B5/B14**
	140	21	2.1	10	**CM040**		**B5/B14**
	93	31	1.5	15	**CM040**		**B5/B14**
	70	39	1.0	20	**CM040**		**B5/B14**
	56	47	0.8	25	**CM040**		**B5/B14**
	47	53	0.9	30	**CM040**		**B5/B14**
	93	31	2.6	15	**CM050**		**B5/B14**
	70	40	1.8	20	**CM050**		**B5/B14**
	56	48	1.5	25	**CM050**		**B5/B14**
	47	55	1.6	30	**CM050**		**B5/B14**
	35	68	1.1	40	**CM050**		**B5/B14**
	28	80	0.9	50	**CM050**		**B5/B14**
	23	91	0.8	60	**CM050**		**B5/B14**
	23	105	1.0	60		**CMP071/050**	**B14**
	19	124	0.7	75		**CMP071/050**	**B14**
	16	145	0.9	90		**CMP071/050**	**B14**
	35	71	2.0	40	**CM063**		**B5/B14**
	28	83	1.6	50	**CM063**		**B5/B14**
	23	95	1.3	60	**CM063**		**B5/B14**
	23	108	1.7	60		**CMP071/063**	**B14**
	19	130	1.3	75		**CMP071/063**	**B14**
	18	115	1.0	80	**CM063**		**B5/B14**
	16	142	1.6	90		**CMP071/063**	**B14**
	14	131	0.9	100	**CM063**		**B5/B14**
	12	178	1.2	120		**CMP071/063**	**B14**
	9.3	211	0.9	150		**CMP071/063**	**B14**
	7.8	236	0.8	180		**CMP071/063**	**B14**
	28	86	2.2	50	**CM070**		**B5**
	23	98	1.8	60	**CM070**		**B5**
	23	110	2.6	60		**CMP071/070**	**B14**
	19	132	1.9	75		**CMP071/070**	**B14**
	18	121	1.3	80	**CM070**		**B5**
	16	147	2.3	90		**CMP071/070**	**B14**
	14	134	1.2	100	**CM070**		**B5**
	12	181	1.7	120		**CMP071/070**	**B14**
	9.3	211	1.3	150		**CMP071/070**	**B14**
	7.8	236	1.1	180		**CMP071/070**	**B14**
	5.8	279	0.8	240		**CMP071/070**	**B14**
	28	87	2.6	50	**CM075**		**B5**
	23	100	2.2	60	**CM075**		**B5**
	23	111	3.0	60		**CMP071/075**	**B14**
	19	134	2.2	75		**CMP071/075**	**B14**
	18	121	1.6	80	**CM075**		**B5**
	16	149	2.7	90		**CMP071/075**	**B14**
	14	141	1.3	100	**CM075**		**B5**
	12	184	2.0	120		**CMP071/075**	**B14**
	9.3	215	1.5	150		**CMP071/075**	**B14**
	7.8	240	1.3	180		**CMP071/075**	**B14**
	5.8	285	0.9	240		**CMP071/075**	**B14**
	4.7	319	0.8	300		**CMP071/075**	**B14**

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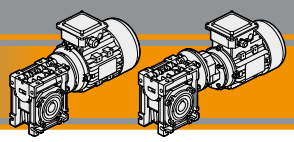
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.37							
71B4 (1400 min^{-1})	**18**	129	2.5	80	**CM090**		**B5**
	14	151	2.0	100	**CM090**		**B5**
	12	193	3.2	120		**CMP071/090**	**B14**
	9.3	226	2.4	150		**CMP071/090**	**B14**
	7.8	263	1.9	180		**CMP071/090**	**B14**
	5.8	309	1.5	240		**CMP071/090**	**B14**
	4.7	349	1.2	300		**CMP071/090**	**B14**
80A6 (900 min^{-1})	**180**	17	5.2	5	**CM050**		**B5/B14**
	120	25	3.7	7.5	**CM050**		**B5/B14**
	90	33	2.9	10	**CM050**		**B5/B14**
	60	47	2.0	15	**CM050**		**B5/B14**
	45	59	1.4	20	**CM050**		**B5/B14**
	36	71	1.1	25	**CM050**		**B5/B14**
	30	80	1.2	30	**CM050**		**B5/B14**
	45	61	2.5	20	**CM063**		**B5/B14**
	36	74	1.9	25	**CM063**		**B5/B14**
	30	82	2.3	30	**CM063**		**B5/B14**
	23	102	1.6	40	**CM063**		**B5/B14**
	18	120	1.3	50	**CM063**		**B5/B14**
	15	137	1.0	60	**CM063**		**B5/B14**
	15	159	1.4	60		**CMP080/063**	**B14**
	12	188	1.1	75		**CMP080/063**	**B14**
	10	208	1.4	90		**CMP080/063**	**B14**
	23	105	2.3	40	**CM070**		**B5/B14**
	18	124	1.7	50	**CM070**		**B5/B14**
	15	141	1.5	60	**CM070**		**B5/B14**
	15	164	2.1	60		**CMP080/070**	**B14**
	12	193	1.6	75		**CMP080/070**	**B14**
	11	170	1.1	80	**CM070**		**B5/B14**
	10	215	1.9	90		**CMP080/070**	**B14**
	7.5	263	1.4	120		**CMP080/070**	**B14**
	6.0	306	1.0	150		**CMP080/070**	**B14**
	18	126	2.1	50	**CM075**		**B5/B14**
	15	141	1.8	60	**CM075**		**B5/B14**
	15	164	2.5	60		**CMP080/075**	**B14**
	12	196	1.9	75		**CMP080/075**	**B14**
	11	173	1.3	80	**CM075**		**B5/B14**
	10	215	2.3	90		**CMP080/075**	**B14**
	9	196	1.0	100	**CM075**		**B5/B14**
	7.5	268	1.6	120		**CMP080/075**	**B14**
	11	188	2.0	80	**CM090**		**B5/B14**
	10	229	3.7	90		**CMP080/090**	**B14**
	9	216	1.6	100	**CM090**		**B5/B14**
	7.5	282	2.6	120		**CMP080/090**	**B14**
	6.0	329	2.0	150		**CMP080/090**	**B14**
	5.0	374	1.5	180		**CMP080/090**	**B14**
	6.0	346	3.4	150		**CMP080/110**	**B14**
	5.0	402	2.5	180		**CMP080/110**	**B14**
	3.8	480	1.8	240		**CMP080/110**	**B14**
	3.0	543	1.4	300		**CMP080/110**	**B14**
	3.8	471	2.4	240		**CMP080/130**	**B14**
	3.0	554	1.8	300		**CMP080/130**	**B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.55							
71B2 (2800 min^{-1})	**560**	8	3.4	5	**CM040**		**B5/B14**
	373	13	2.5	7.5	**CM040**		**B5/B14**
	280	16	2.0	10	**CM040**		**B5/B14**
	187	24	1.5	15	**CM040**		**B5/B14**
	140	31	1.0	20	**CM040**		**B5/B14**
	140	32	1.7	20	**CM050**		**B5/B14**
	112	38	1.3	25	**CM050**		**B5/B14**
	93	44	1.5	30	**CM050**		**B5/B14**
	70	56	1.1	40	**CM050**		**B5/B14**
	56	67	0.9	50	**CM050**		**B5/B14**
	47	83	1.0	60		**CMP071/050**	**B14**
	37	99	0.8	75		**CMP071/050**	**B14**
	31	113	0.9	90		**CMP071/050**	**B14**
	70	57	2.0	40	**CM063**		**B5/B14**
	56	68	1.5	50	**CM063**		**B5/B14**
	47	79	1.2	60	**CM063**		**B5/B14**
	47	86	1.8	60		**CMP071/063**	**B14**
	37	103	1.3	75		**CMP071/063**	**B14**
	35	98	0.9	80	**CM063**		**B5/B14**
	31	116	1.6	90		**CMP071/063**	**B14**
	23	143	1.1	120		**CMP071/063**	**B14**
	19	168	0.9	150		**CMP071/063**	**B14**
	47	81	1.8	60	**CM070**		**B5**
	47	87	2.6	60		**CMP071/070**	**B14**
	37	106	1.9	75		**CMP071/070**	**B14**
	35	101	1.3	80	**CM070**		**B5**
	31	119	2.3	90		**CMP071/070**	**B14**
	28	118	1.0	100	**CM070**		**B5**
	23	148	1.6	120		**CMP071/070**	**B14**
	19	174	1.2	150		**CMP071/070**	**B14**
	16	199	1.1	180		**CMP071/070**	**B14**
	12	238	0.8	240		**CMP071/070**	**B14**
	47	81	2.1	60	**CM075**		**B5**
	47	87	3.2	60		**CMP071/075**	**B14**
	37	106	2.3	75		**CMP071/075**	**B14**
	35	101	1.5	80	**CM075**		**B5**
	31	121	2.7	90		**CMP071/075**	**B14**
	28	118	1.2	100	**CM075**		**B5**
	23	150	1.9	120		**CMP071/075**	**B14**
	19	176	1.5	150		**CMP071/075**	**B14**
	16	199	1.3	180		**CMP071/075**	**B14**
	12	243	0.9	240		**CMP071/075**	**B14**
	35	107	2.4	80	**CM090**		**B5**
	28	126	1.8	100	**CM090**		**B5**
	23	157	3.2	120		**CMP071/090**	**B14**
	19	188	2.4	150		**CMP071/090**	**B14**
	16	212	2.0	180		**CMP071/090**	**B14**
	12	260	1.4	240		**CMP071/090**	**B14**
	9.3	298	1.1	300		**CMP071/090**	**B14**



Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.55							
71C4 (1400 min^{-1})	**280**	17	2.5	5	**CM040**		**B5/B14**
	187	24	1.8	7.5	**CM040**		**B5/B14**
	140	32	1.4	10	**CM040**		**B5/B14**
	93	46	1.0	15	**CM040**		**B5/B14**
	140	32	2.6	10	**CM050**		**B5/B14**
	93	46	1.8	15	**CM050**		**B5/B14**
	70	59	1.2	20	**CM050**		**B5/B14**
	56	71	1.0	25	**CM050**		**B5/B14**
	47	81	1.1	30	**CM050**		**B5/B14**
	35	101	0.8	40	**CM050**		**B5/B14**
	70	61	2.2	20	**CM063**		**B5/B14**
	56	73	1.8	25	**CM063**		**B5/B14**
	47	84	2.0	30	**CM063**		**B5/B14**
	35	105	1.4	40	**CM063**		**B5/B14**
	28	124	1.1	50	**CM063**		**B5/B14**
	23	142	0.9	60	**CM063**		**B5/B14**
	23	161	1.2	60		**CMP071/063**	**B14**
	19	193	0.9	75		**CMP071/063**	**B14**
	16	212	1.1	90		**CMP071/063**	**B14**
	12	265	0.8	120		**CMP071/063**	**B14**
	56	75	2.4	25	**CM070**		**B5**
	35	108	1.9	40	**CM070**		**B5**
	28	128	1.5	50	**CM070**		**B5**
	23	146	1.2	60	**CM070**		**B5**
	23	163	1.7	60		**CMP071/070**	**B14**
	19	196	1.3	75		**CMP071/070**	**B14**
	18	180	0.9	80	**CM070**		**B5**
	16	218	1.6	90		**CMP071/070**	**B14**
	12	269	1.1	120		**CMP071/070**	**B14**
	9.3	314	0.9	150		**CMP071/070**	**B14**
	35	110	2.3	40	**CM075**		**B5**
	28	129	1.8	50	**CM075**		**B5**
	23	149	1.5	60	**CM075**		**B5**
	23	165	2.0	60		**CMP071/075**	**B14**
	19	199	1.5	75		**CMP071/075**	**B14**
	18	180	1.1	80	**CM075**		**B5**
	16	222	1.8	90		**CMP071/075**	**B14**
	14	210	0.9	100	**CM075**		**B5**
	12	274	1.3	120		**CMP071/075**	**B14**
	9.3	320	1.0	150		**CMP071/075**	**B14**
	7.8	357	0.9	180		**CMP071/075**	**B14**
	18	192	1.7	80	**CM090**		**B5**
	16	232	3.0	90		**CMP071/090**	**B14**
	14	225	1.3	100	**CM090**		**B5**
	12	287	2.2	120		**CMP071/090**	**B14**
	9.3	336	1.6	150		**CMP071/090**	**B14**
	7.8	390	1.3	180		**CMP071/090**	**B14**
	5.8	459	1.0	240		**CMP071/090**	**B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.55							
80A4 (1400 min^{-1})	**280**	17	4.5	5	**CM050**		**B5/B14**
	187	24	3.2	7.5	**CM050**		**B5/B14**
	140	32	2.6	10	**CM050**		**B5/B14**
	93	46	1.8	15	**CM050**		**B5/B14**
	70	59	1.2	20	**CM050**		**B5/B14**
	56	71	1.0	25	**CM050**		**B5/B14**
	47	81	1.1	30	**CM050**		**B5/B14**
	70	61	2.2	20	**CM063**		**B5/B14**
	56	73	1.8	25	**CM063**		**B5/B14**
	47	84	2.0	30	**CM063**		**B5/B14**
	35	105	1.4	40	**CM063**		**B5/B14**
	28	124	1.1	50	**CM063**		**B5/B14**
	23	142	0.9	60	**CM063**		**B5/B14**
	23	161	1.2	60		**CMP080/063**	**B14**
	19	193	0.9	75		**CMP080/063**	**B14**
	16	212	1.1	90		**CMP080/063**	**B14**
	56	75	2.4	25	**CM070**		**B5/B14**
	35	108	1.9	40	**CM070**		**B5/B14**
	28	128	1.5	50	**CM070**		**B5/B14**
	23	146	1.2	60	**CM070**		**B5/B14**
	23	163	1.7	60		**CMP080/070**	**B14**
	19	196	1.3	75		**CMP080/070**	**B14**
	18	180	0.9	80	**CM070**		**B5/B14**
	16	218	1.6	90		**CMP080/070**	**B14**
	12	269	1.1	120		**CMP080/070**	**B14**
	35	110	2.3	40	**CM075**		**B5/B14**
	28	129	1.8	50	**CM075**		**B5/B14**
	23	149	1.5	60	**CM075**		**B5/B14**
	23	165	2.0	60		**CMP080/075**	**B14**
	19	199	1.5	75		**CMP080/075**	**B14**
	18	180	1.1	80	**CM075**		**B5/B14**
	16	222	1.8	90		**CMP080/075**	**B14**
	14	210	0.9	100	**CM075**		**B5/B14**
	12	274	1.3	120		**CMP080/075**	**B14**
	9	320	1.0	150		**CMP080/075**	**B14**
	23	158	2.2	60	**CM090**		**B5/B14**
	18	192	1.7	80	**CM090**		**B5/B14**
	16	232	3.0	90		**CMP080/090**	**B14**
	14	225	1.3	100	**CM090**		**B5/B14**
	12	287	2.2	120		**CMP080/090**	**B14**
	9.3	336	1.6	150		**CMP080/090**	**B14**
	7.8	390	1.3	180		**CMP080/090**	**B14**
	3.8	459	1.0	240		**CMP080/090**	**B14**
	18	204	2.8	80	**CM110**		**B5**
	14	240	2.2	100	**CM110**		**B5**
	9.3	358	2.8	150		**CMP080/110**	**B14**
	7.8	410	2.2	180		**CMP080/110**	**B14**
	5.8	503	1.5	240		**CMP080/110**	**B14**
	4.7	574	1.2	300		**CMP080/110**	**B14**
	7.8	424	2.6	180		**CMP080/130**	**B14**
	5.8	512	1.9	240		**CMP080/130**	**B14**
	4.7	585	1.5	300		**CMP080/130**	**B14**

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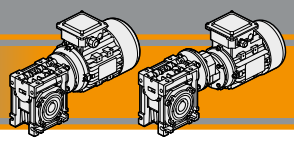
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.55							
80B6 (900 min^{-1})	**180**	26	3.4	5	**CM050**		**B5/B14**
	120	37	2.5	7.5	**CM050**		**B5/B14**
	90	49	1.9	10	**CM050**		**B5/B14**
	60	69	1.4	15	**CM050**		**B5/B14**
	45	88	0.9	20	**CM050**		**B5/B14**
	60	71	2.5	15	**CM063**		**B5/B14**
	45	91	1.7	20	**CM063**		**B5/B14**
	36	109	1.3	25	**CM063**		**B5/B14**
	30	123	1.5	30	**CM063**		**B5/B14**
	23	152	1.1	40	**CM063**		**B5/B14**
	18	178	0.8	50	**CM063**		
	15	237	1.0	60		**CMP080/063**	**B14**
	12	279	0.8	75		**CMP080/063**	**B14**
	10	309	0.9	90		**CMP080/063**	**B14**
	45	92	2.5	20	**CM070**		**B5/B14**
	36	112	1.8	25	**CM070**		**B5/B14**
	30	126	2.2	30	**CM070**		**B5/B14**
	23	156	1.5	40	**CM070**		**B5/B14**
	18	184	1.2	50	**CM070**		**B5/B14**
	15	210	1.0	60	**CM070**		**B5/B14**
	15	244	1.4	60		**CMP080/070**	**B14**
	12	287	1.1	75		**CMP080/070**	**B14**
	10	319	1.3	90		**CMP080/070**	**B14**
	7.5	391	0.9	120		**CMP080/070**	**B14**
	36	112	2.2	25	**CM075**		**B5/B14**
	30	128	2.6	30	**CM075**		**B5/B14**
	23	159	1.8	40	**CM075**		**B5/B14**
	18	187	1.4	50	**CM075**		**B5/B14**
	15	214	1.2	60	**CM075**		**B5/B14**
	15	244	1.7	60		**CMP080/075**	**B14**
	12	292	1.3	75		**CMP080/075**	**B14**
	11	257	0.9	80	**CM075**		**B5/B14**
	10	319	1.6	90		**CMP080/075**	**B14**
	7.5	398	1.1	120		**CMP080/075**	**B14**
	6.0	463	0.8	150		**CMP080/075**	**B14**
	15	228	1.8	60	**CM090**		**B5/B14**
	15	254	2.8	60		**CMP080/090**	**B14**
	12	305	2.1	75		**CMP080/090**	**B14**
	11	280	1.4	80	**CM090**		**B5/B14**
	10	340	2.5	90		**CMP080/090**	**B14**
	9	321	1.1	100	**CM090**		**B5/B14**
	7.5	419	1.8	120		**CMP080/090**	**B14**
	6.0	489	1.3	150		**CMP080/090**	**B14**
	5.0	556	1.0	180		**CMP080/090**	**B14**
	3.8	645	0.8	240		**CMP080/090**	**B14**
	11	294	2.2	80	**CM110**		**B5**
	9	344	1.7	100	**CM110**		**B5**
	7.5	439	3.0	120		**CMP080/110**	**B14**
	6.0	515	2.3	150		**CMP080/110**	**B14**
	5.0	597	1.7	180		**CMP080/110**	**B14**
	3.8	714	1.2	240		**CMP080/110**	**B14**
	3.0	806	1.0	300		**CMP080/110**	**B14**
	5.0	587	2.2	180		**CMP080/130**	**B14**
	3.8	700	1.6	240		**CMP080/130**	**B14**
	3.0	824	1.2	300		**CMP080/130**	**B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.75							
80A2 (2800 min^{-1})	**560**	12	4.6	5	**CM050**		**B5/B14**
	373	17	3.3	7.5	**CM050**		**B5/B14**
	280	23	2.7	10	**CM050**		**B5/B14**
	187	33	1.9	15	**CM050**		**B5/B14**
	140	43	1.3	20	**CM050**		**B5/B14**
	112	52	1.0	25	**CM050**		**B5/B14**
	93	60	1.1	30	**CM050**		**B5/B14**
	140	43	2.4	20	**CM063**		**B5/B14**
	112	53	1.8	25	**CM063**		**B5/B14**
	93	61	2.1	30	**CM063**		**B5/B14**
	70	78	1.4	40	**CM063**		**B5/B14**
	56	93	1.1	50	**CM063**		**B5/B14**
	47	107	0.9	60	**CM063**		**B5/B14**
	47	117	1.3	60		**CMP080/063**	**B14**
	37	141	1.0	75		**CMP080/063**	**B14**
	31	158	1.2	90		**CMP080/063**	**B14**
	56	96	1.6	50	**CM070**		**B5/B14**
	47	111	1.3	60	**CM070**		**B5/B14**
	47	119	1.9	60		**CMP080/070**	**B14**
	37	145	1.4	75		**CMP080/070**	**B14**
	35	139	0.9	80	**CM070**		**B5/B14**
	31	162	1.7	90		**CMP080/070**	**B14**
	23	202	1.2	120		**CMP080/070**	**B14**
	70	80	2.5	40	**CM075**		**B5/B14**
	56	96	1.9	50	**CM075**		**B5/B14**
	47	111	1.5	60	**CM075**		**B5/B14**
	47	119	2.3	60		**CMP080/075**	**B14**
	37	145	1.7	75		**CMP080/075**	**B14**
	35	139	1.1	80	**CM075**		**B5/B14**
	31	165	2.0	90		**CMP080/075**	**B14**
	28	161	0.9	100	**CM075**		**B5/B14**
	23	205	1.4	120		**CMP080/075**	**B14**
	19	241	1.1	150		**CMP080/075**	**B14**
	47	115	2.4	60	**CM090**		**B5/B14**
	35	145	1.8	80	**CM090**		**B5/B14**
	31	171	3.3	90		**CMP080/090**	**B14**
	28	171	1.3	100	**CM090**		**B5/B14**
	23	214	2.3	120		**CMP080/090**	**B5/B14**
	19	256	1.7	150		**CMP080/090**	**B14**
	16	289	1.4	180		**CMP080/090**	**B14**
	12	355	1.1	240		**CMP080/090**	**B14**
	28	179	2.2	100	**CM110**		**B5**
	19	271	3.0	150		**CMP080/110**	**B14**
	16	307	2.4	180		**CMP080/110**	**B14**
	12	379	1.7	240		**CMP080/110**	**B14**
	9.3	444	1.3	300		**CMP080/110**	**B14**
	16	316	2.9	180		**CMP080/130**	**B14**
	12	385	2.2	240		**CMP080/130**	**B14**
	9.3	444	1.7	300		**CMP080/130**	**B14**



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.75							
80B4 (1400 min^{-1})	**280**	23	3.3	5	**CM050**		**B5/B14**
	187	33	2.4	7.5	**CM050**		**B5/B14**
	140	43	1.9	10	**CM050**		**B5/B14**
	93	63	1.3	15	**CM050**		**B5/B14**
	70	81	0.9	20	**CM050**		**B5/B14**
	56	97	0.7	25	**CM050**		**B5/B14**
	47	111	0.8	30	**CM050**		**B5/B14**
	93	64	2.4	15	**CM063**		**B5/B14**
	70	83	1.6	20	**CM063**		**B5/B14**
	56	100	1.4	25	**CM063**		**B5/B14**
	47	115	1.4	30	**CM063**		**B5/B14**
	35	143	1.0	40	**CM063**		**B5/B14**
	28	169	0.8	50	**CM063**		**B5/B14**
	23	220	0.9	60		**CMP080/063**	**B14**
	19	263	0.7	75		**CMP080/063**	**B14**
	16	289	0.8	90		**CMP080/063**	**B14**
	70	85	2.4	20	**CM070**		**B5/B14**
	56	102	1.8	25	**CM070**		**B5/B14**
	47	118	2.1	30	**CM070**		**B5/B14**
	35	149	1.4	40	**CM070**		**B5/B14**
	28	177	1.1	50	**CM070**		**B5/B14**
	23	203	0.9	60	**CM070**		**B5/B14**
	23	223	1.3	60		**CMP080/070**	**B14**
	19	267	0.9	75		**CMP080/070**	**B14**
	16	298	1.1	90		**CMP080/070**	**B14**
	12	367	0.8	120		**CMP080/070**	**B14**
	70	85	2.8	20	**CM075**		**B5/B14**
	56	102	2.2	25	**CM075**		**B5/B14**
	47	118	2.4	30	**CM075**		**B5/B14**
	35	149	1.7	40	**CM075**		**B5/B14**
	28	177	1.3	50	**CM075**		**B5/B14**
	23	203	1.1	60	**CM075**		**B5/B14**
	23	226	1.5	60		**CMP080/075**	**B14**
	19	271	1.1	75		**CMP080/075**	**B14**
	18	246	0.8	80	**CM075**		**B5/B14**
	16	302	1.3	90		**CMP080/075**	**B14**
	12	373	1.0	120		**CMP080/075**	**B14**
	9	436	0.8	150		**CMP080/075**	**B14**
	35	156	2.8	40	**CM090**		**B5/B14**
	28	184	2.1	50	**CM090**		**B5/B14**
	23	212	1.6	60	**CM090**		**B5/B14**
	23	235	2.4	60		**CMP080/090**	**B14**
	19	282	1.8	75		**CMP080/090**	**B14**
	18	262	1.2	80	**CM090**		**B5/B14**
	16	316	2.2	90		**CMP080/090**	**B14**
	14	307	1.0	100	**CM090**		**B5/B14**
	12	391	1.6	120		**CMP080/090**	**B14**
	9.3	459	1.2	150		**CMP080/090**	**B14**
	7.8	535	0.9	180		**CMP080/090**	**B14**
	23	224	2.8	60	**CM110**		**B5**
	19	293	3.1	75		**CMP080/110**	**B14**
	18	278	2.0	80	**CM110**		**B5**
	16	325	3.5	90		**CMP080/110**	**B14**
	14	327	1.6	100	**CM110**		**B5**
	12	415	2.6	120		**CMP080/110**	**B14**
	9.3	489	2.0	150		**CMP080/110**	**B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.75							
80B4 (1400 min^{-1})	**7.8**	560	1.6	180		**CMP080/110**	**B14**
	5.8	686	1.1	240		**CMP080/110**	**B14**
	4.7	782	0.9	300		**CMP080/110**	**B14**
	14	327	2.2	100	**CM130**		**B5**
	9.3	504	2.4	150		**CMP080/130**	**B14**
	7.8	578	1.9	180		**CMP080/130**	**B14**
	5.8	698	1.4	240		**CMP080/130**	**B14**
	4.7	797	1.1	300		**CMP080/130**	**B14**
90S6 (900 min^{-1})	**180**	35	4.6	5	**CM063**		**B5/B14**
	120	51	3.3	7.5	**CM063**		**B5/B14**
	90	67	2.6	10	**CM063**		**B5/B14**
	60	97	1.8	15	**CM063**		**B5/B14**
	45	124	1.2	20	**CM063**		**B5/B14**
	36	149	0.9	25	**CM063**		**B5/B14**
	30	167	1.1	30	**CM063**		**B5/B14**
	45	127	1.8	20	**CM070**		**B5/B14**
	36	153	1.3	25	**CM070**		**B5/B14**
	30	174	1.6	30	**CM070**		**B5/B14**
	23	216	1.1	40	**CM070**		**B5/B14**
	15	332	1.0	60		**CMP090/070**	**B5/B14**
	12	392	0.8	75		**CMP090/070**	**B5/B14**
	10	435	1.0	90		**CMP090/070**	**B5/B14**
	8	533	0.7	120		**CMP090/070**	**B5/B14**
	60	98	2.6	15	**CM075**		**B5/B14**
	45	127	2.2	20	**CM075**		**B5/B14**
	36	153	1.6	25	**CM075**		**B5/B14**
	30	174	1.9	30	**CM075**		**B5/B14**
	23	216	1.3	40	**CM075**		**B5/B14**
	18	251	0.9	50	**CM075**		**B5/B14**
	15	332	1.2	60		**CMP090/075**	**B5/B14**
	12	398	0.9	75		**CMP090/075**	**B5/B14**
	10	435	1.1	90		**CMP090/075**	**B5/B14**
	8	543	0.8	120		**CMP090/075**	**B5/B14**
	23	229	2.2	40	**CM090**		**B5/B14**
	18	271	1.6	50	**CM090**		**B5/B14**
	15	310	1.4	60	**CM090**		**B5/B14**
	11	376	1.0	80	**CM090**		**B5/B14**
	15	346	2.1	60		**CMP090/090**	**B5/B14**
	12	415	1.5	75		**CMP090/090**	**B5/B14**
	10	463	1.8	90		**CMP090/090**	**B5/B14**
	8	571	1.3	120		**CMP090/090**	**B5/B14**
	6	667	1.0	150		**CMP090/090**	**B5/B14**
	5	758	0.8	180		**CMP090/090**	**B5/B14**
	18	283	2.8	50	**CM110**		**B5/B14**
	15	325	2.3	60	**CM110**		**B5/B14**
	15	360	3.4	60		**CMP090/110**	**B5/B14**
	12	433	2.7	75		**CMP090/110**	**B5/B14**
	11	401	1.6	80	**CM110**		**B5/B14**
	10	470	3.0	90		**CMP090/110**	**B5/B14**
	9	470	1.3	100	**CM110**		**B5/B14**
	8	599	2.2	120		**CMP090/110**	**B5/B14**
	6	702	1.7	150		**CMP090/110**	**B5/B14**
	5	814	1.3	180		**CMP090/110**	**B5/B14**
	4	973	0.9	240		**CMP090/110**	**B5/B14**
	3	1100	0.7	300		**CMP090/110**	**B5/B14**

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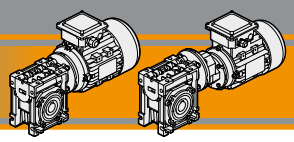
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.75							
90S6 (900 min^{-1})	**6**	714	2.1	150		**CMP090/130**	**B5/B14**
	5	800	1.7	180		**CMP090/130**	**B5/B14**
	4	955	1.3	240		**CMP090/130**	**B5/B14**
	3	1123	1.0	300		**CMP090/130**	**B5/B14**
1.1							
80B2 (2800 min^{-1})	**560**	17	3.2	5	**CM050**		**B5/B14**
	373	25	2.3	7.5	**CM050**		**B5/B14**
	280	33	1.8	10	**CM050**		**B5/B14**
	187	48	1.3	15	**CM050**		**B5/B14**
	140	63	0.9	20	**CM050**		**B5/B14**
	187	48	2.4	15	**CM063**		**B5/B14**
	140	63	1.6	20	**CM063**		**B5/B14**
	112	78	1.2	25	**CM063**		**B5/B14**
	93	89	1.4	30	**CM063**		**B5/B14**
	70	114	1.0	40	**CM063**		**B5/B14**
	47	172	0.9	60		**CMP080/063**	**B14**
	37	207	0.7	75		**CMP080/063**	**B14**
	31	232	0.8	90		**CMP080/063**	**B14**
	112	79	1.7	25	**CM070**		**B5/B14**
	70	117	1.4	40	**CM070**		**B5/B14**
	56	141	1.1	50	**CM070**		**B5/B14**
	47	162	0.9	60	**CM070**		**B5/B14**
	47	174	1.3	60		**CMP080/070**	
	37	212	1.0	75		**CMP080/070**	**B14**
	31	238	1.2	90		**CMP080/070**	**B14**
	23	296	0.8	120		**CMP080/070**	**B14**
	93	91	2.4	30	**CM075**		**B5/B14**
	70	117	1.7	40	**CM075**		**B5/B14**
	56	141	1.3	50	**CM075**		**B5/B14**
	47	162	1.1	60	**CM075**		**B5/B14**
	47	174	1.6	60		**CMP080/075**	**B14**
	37	212	1.1	75		**CMP080/075**	**B14**
	31	242	1.4	90		**CMP080/075**	**B14**
	23	300	1.0	120		**CMP080/075**	**B14**
	56	146	2.1	50	**CM090**		**B5/B14**
	47	169	1.6	60	**CM090**		**B5/B14**
	47	181	2.6	60		**CMP080/090**	**B14**
	37	221	1.9	75		**CMP080/090**	**B14**
	35	213	1.2	80	**CM090**		**B5/B14**
	31	251	2.3	90		**CMP080/090**	**B14**
	28	251	0.9	100	**CM090**		**B5/B14**
	23	313	1.6	120		**CMP080/090**	**B14**
	19	375	1.2	150		**CMP080/090**	**B14**
	16	424	1.0	180		**CMP080/090**	**B14**
	35	219	2.0	80	**CM110**		**B5**
	28	263	1.5	100	**CM110**		**B5**
	23	335	2.6	120		**CMP080/110**	**B14**
	19	397	2.0	150		**CMP080/110**	**B14**
	16	450	1.6	180		**CMP080/110**	**B14**
	12	556	1.2	240		**CMP080/110**	**B14**
	9.3	651	0.9	300		**CMP080/110**	**B14**
	19	403	2.5	150		**CMP080/130**	**B14**
	16	463	2.0	180		**CMP080/130**	**B14**
	12	565	1.5	240		**CMP080/130**	**B14**
	9.3	651	1.2	300		**CMP080/130**	**B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
1.1							
80C4 (1400 min^{-1})	**280**	33	2.2	5	**CM050**		**B5/B14**
	187	49	1.6	7.5	**CM050**		**B5/B14**
	140	64	1.3	10	**CM050**		**B5/B14**
	93	92	0.9	15	**CM050**		**B5/B14**
	280	34	4.0	5	**CM063**		**B5/B14**
	187	50	2.9	7.5	**CM063**		**B5/B14**
	140	65	2.3	10	**CM063**		**B5/B14**
	93	95	1.6	15	**CM063**		**B5/B14**
	70	122	1.1	20	**CM063**		**B5/B14**
	56	146	0.9	25	**CM063**		**B5/B14**
	47	169	1.0	30	**CM063**		**B5/B14**
	93	95	2.3	15	**CM070**		**B5/B14**
	70	125	1.6	20	**CM070**		**B5/B14**
	56	150	1.2	25	**CM070**		**B5/B14**
	47	173	1.4	30	**CM070**		**B5/B14**
	35	219	1.0	40	**CM070**		**B5/B14**
	23	326	0.9	60		**CMP080/070**	**B14**
	16	437	0.8	90		**CMP080/070**	**B14**
	70	125	1.9	20	**CM075**		**B5/B14**
	56	150	1.5	25	**CM075**		**B5/B14**
	47	173	1.7	30	**CM075**		**B5/B14**
	35	219	1.1	40	**CM075**		**B5/B14**
	28	259	0.9	50	**CM075**		**B5/B14**
	23	331	1.0	60		**CMP080/075**	**B14**
	19	397	0.8	75		**CMP080/075**	**B14**
	16	443	0.9	90		**CMP080/075**	**B14**
	35	228	1.9	40	**CM090**		**B5/B14**
	28	270	1.4	50	**CM090**		**B5/B14**
	23	311	1.1	60	**CM090**		**B5/B14**
	23	344	1.7	60		**CMP080/090**	**B14**
	19	414	1.2	75		**CMP080/090**	**B14**
	18	384	0.8	80	**CM090**		**B5/B14**
	16	463	1.5	90		**CMP080/090**	**B14**
	12	574	1.1	120		**CMP080/090**	**B14**
	9.3	673	0.8	150		**CMP080/090**	**B14**
	28	285	2.5	50	**CM110**		**B5**
	23	329	1.9	60	**CM110**		**B5**
	23	353	2.7	60		**CMP080/110**	**B14**
	19	430	2.1	75		**CMP080/110**	**B14**
	18	408	1.4	80	**CM110**		**B5**
	16	477	2.4	90		**CMP080/110**	**B14**
	14	480	1.1	100	**CM110**		**B5**
	12	609	1.8	120		**CMP080/110**	**B14**
	9.3	717	1.4	150		**CMP080/110**	**B14**
	7.8	821	1.1	180		**CMP080/110**	**B14**
	6.0	1006	0.8	240		**CMP080/110**	**B14**
	23	324	3.0	60	**CM130**		**B5**
	18	414	2.0	80	**CM130**		**B5**
	16	477	3.1	90		**CMP080/130**	**B14**
	14	480	1.5	100	**CM130**		**B5**
	12	600	2.3	120		**CMP080/130**	**B14**
	9.3	739	1.7	150		**CMP080/130**	**B14**
	7.8	847	1.3	180		**CMP080/130**	**B14**
	5.8	1024	0.9	240		**CMP080/130**	**B14**



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
1.1							
90S4 (1400 min^{-1})	**280**	34	4.0	5	**CM063**		**B5/B14**
	187	50	2.9	7.5	**CM063**		**B5/B14**
	140	65	2.3	10	**CM063**		**B5/B14**
	93	95	1.6	15	**CM063**		**B5/B14**
	70	122	1.1	20	**CM063**		**B5/B14**
	56	146	0.9	25	**CM063**		**B5/B14**
	47	169	1.0	30	**CM063**		**B5/B14**
	140	65	3.3	10	**CM070**		**B5/B14**
	93	95	2.3	15	**CM070**		**B5/B14**
	70	125	1.6	20	**CM070**		**B5/B14**
	56	150	1.2	25	**CM070**		**B5/B14**
	47	173	1.4	30	**CM070**		**B5/B14**
	35	219	1.0	40	**CM070**		**B5/B14**
	23	326	0.9	60		**CMP090/070**	**B5/B14**
	19	392	0.7	75		**CMP090/070**	**B5/B14**
	16	437	0.8	90		**CMP090/070**	**B5/B14**
	93	95	2.8	15	**CM075**		**B5/B14**
	70	125	1.9	20	**CM075**		**B5/B14**
	56	150	1.5	25	**CM075**		**B5/B14**
	47	173	1.7	30	**CM075**		**B5/B14**
	35	219	1.1	40	**CM075**		**B5/B14**
	28	259	0.9	50	**CM075**		**B5/B14**
	23	331	1.0	60		**CMP090/075**	**B5/B14**
	19	397	0.8	75		**CMP090/075**	**B5/B14**
	16	443	0.9	90		**CMP090/075**	**B5/B14**
	56	156	2.4	25	**CM090**		**B5/B14**
	47	178	2.7	30	**CM090**		**B5/B14**
	35	228	1.9	40	**CM090**		**B5/B14**
	28	270	1.4	50	**CM090**		**B5/B14**
	23	311	1.1	60	**CM090**		**B5/B14**
	23	344	1.7	60		**CMP090/090**	**B5/B14**
	19	414	1.2	75		**CMP090/090**	**B5/B14**
	18	384	0.8	80	**CM090**		**B5/B14**
	16	463	1.5	90		**CMP090/090**	**B5/B14**
	12	574	1.1	120		**CMP090/090**	**B5/B14**
	9	673	0.8	150		**CMP090/090**	**B5/B14**
	35	237	3.2	40	**CM110**		**B5/B14**
	28	285	2.5	50	**CM110**		**B5/B14**
	23	329	1.9	60	**CM110**		**B5/B14**
	23	353	2.7	60		**CMP090/110**	**B5/B14**
	19	430	2.1	75		**CMP090/110**	**B5/B14**
	18	408	1.4	80	**CM110**		**B5/B14**
	16	477	2.4	90		**CMP090/110**	**B5/B14**
	14	480	1.1	100	**CM110**		**B5/B14**
	12	609	1.8	120		**CMP090/110**	**B5/B14**
	9	717	1.4	150		**CMP090/110**	**B5/B14**
	8	821	1.1	180		**CMP090/110**	**B5/B14**
	6	1006	0.8	240		**CMP090/110**	**B5/B14**
	18	414	2.0	80	**CM130**		**B5**
	14	480	1.5	100	**CM130**		**B5**
	12	600	2.1	120		**CMP090/130**	**B5/B14**
	9	739	1.7	150		**CMP090/130**	**B5/B14**
	8	847	1.3	180		**CMP090/130**	**B5/B14**
	6	1024	1.0	240		**CMP090/130**	**B5/B14**
	5	1169	0.7	300		**CMP090/130**	**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
1.1							
90L6 (900 min^{-1})	**180**	52	3.1	5	**CM063**		**B5/B14**
	120	75	2.2	7.5	**CM063**		**B5/B14**
	90	98	1.8	10	**CM063**		**B5/B14**
	60	142	1.3	15	**CM063**		**B5/B14**
	45	182	0.8	20	**CM063**		**B5/B14**
	120	76	3.1	7.5	**CM070**		**B5/B14**
	90	99	2.5	10	**CM070**		**B5/B14**
	60	145	1.8	15	**CM070**		**B5/B14**
	45	187	1.2	20	**CM070**		**B5/B14**
	36	225	0.9	25	**CM070**		**B5/B14**
	30	256	1.1	30	**CM070**		**B5/B14**
	23	239	0.8	40	**CM070**		**B5/B14**
	15	487	0.7	60		**CMP090/070**	**B5/B14**
	10	638	0.7	90		**CMP090/070**	**B5/B14**
	60	145	2.2	15	**CM075**		**B5/B14**
	45	187	1.5	20	**CM075**		**B5/B14**
	36	225	1.1	25	**CM075**		**B5/B14**
	30	256	1.3	30	**CM075**		**B5/B14**
	23	317	0.9	40	**CM075**		**B5/B14**
	15	487	0.8	60		**CMP090/075**	**B5/B14**
	12	583	0.7	75		**CMP090/075**	**B5/B14**
	10	638	0.8	90		**CMP090/075**	**B5/B14**
	45	191	2.5	20	**CM090**		**B5/B14**
	36	233	1.8	25	**CM090**		**B5/B14**
	30	266	2.1	30	**CM090**		**B5/B14**
	23	336	1.5	40	**CM090**		**B5/B14**
	18	397	1.1	50	**CM090**		**B5/B14**
	15	455	0.9	60	**CM090**		**B5/B14**
	15	508	1.4	60		**CMP090/090**	**B5/B14**
	12	609	1.0	75		**CMP090/090**	**B5/B14**
	10	679	1.3	90		**CMP090/090**	**B5/B14**
	8	837	0.9	120		**CMP090/090**	**B5/B14**
	18	414	1.9	50	**CM110**		**B5/B14**
	15	476	1.5	60	**CM110**		**B5/B14**
	15	528	2.3	60		**CMP090/110**	**B5/B14**
	12	635	1.8	75		**CMP090/110**	**B5/B14**
	11	588	1.1	80	**CM110**		**B5/B14**
	10	690	2.0	90		**CMP090/110**	**B5/B14**
	9	689	0.9	100	**CM110**		**B5/B14**
	8	878	1.5	120		**CMP090/110**	**B5/B14**
	6	1029	1.1	150		**CMP090/110**	**B5/B14**
	5	1194	0.9	180		**CMP090/110**	**B5/B14**
	15	490	2.0	60	**CM130**		**B5**
	11	598	1.5	80	**CM130**		**B5**
	9	689	1.1	100	**CM130**		**B5**
	8	865	1.9	120		**CMP090/130**	**B5/B14**
	6	1047	1.4	150		**CMP090/130**	**B5/B14**
	5	1174	1.2	180		**CMP090/130**	**B5/B14**
	4	1400	0.9	240		**CMP090/130**	**B5/B14**

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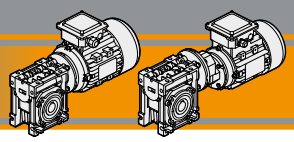
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
1.5							
90S2 (2800 min^{-1})	**560**	23	4.2	5	**CM063**		**B5/B14**
	373	35	3.0	7.5	**CM063**		**B5/B14**
	280	45	2.4	10	**CM063**		**B5/B14**
	187	66	1.7	15	**CM063**		**B5/B14**
	140	86	1.2	20	**CM063**		**B5/B14**
	112	106	0.9	25	**CM063**		**B5/B14**
	93	121	1.0	30	**CM063**		**B5/B14**
	187	67	2.5	15	**CM070**		**B5/B14**
	140	87	1.8	20	**CM070**		**B5/B14**
	112	107	1.3	25	**CM070**		**B5/B14**
	93	124	1.5	30	**CM070**		**B5/B14**
	70	160	1.1	40	**CM070**		**B5/B14**
	56	189	0.8	50	**CM070**		**B5/B14**
	47	238	1.0	60		**CMP090/070**	**B5/B14**
	37	290	0.7	75		**CMP090/070**	**B5/B14**
	31	325	0.8	90		**CMP090/070**	**B5/B14**
	140	87	2.1	20	**CM075**		**B5/B14**
	112	107	1.5	25	**CM075**		**B5/B14**
	93	124	1.8	30	**CM075**		**B5/B14**
	70	160	1.2	40	**CM075**		**B5/B14**
	56	192	0.9	50	**CM075**		**B5/B14**
	47	238	1.2	60		**CMP090/075**	**B5/B14**
	37	290	0.8	75		**CMP090/075**	**B5/B14**
	31	329	1.0	90		**CMP090/075**	**B5/B14**
	70	164	2.1	40	**CM090**		**B5/B14**
	56	200	1.5	50	**CM090**		**B5/B14**
	47	230	1.2	60	**CM090**		**B5/B14**
	47	247	1.9	60		**CMP090/090**	**B5/B14**
	37	301	1.4	75		**CMP090/090**	**B5/B14**
	35	287	0.9	80	**CM090**		**B5/B14**
	31	343	1.7	90		**CMP090/090**	**B5/B14**
	23	427	1.2	120		**CMP090/090**	**B5/B14**
	19	511	0.9	150		**CMP090/090**	**B5/B14**
	56	202	2.7	50	**CM110**		**B5/B14**
	47	236	2.1	60	**CM110**		**B5/B14**
	37	308	2.5	75		**CMP090/110**	**B5/B14**
	35	299	1.4	80	**CM110**		**B5/B14**
	31	347	2.8	90		**CMP090/110**	**B5/B14**
	28	358	1.1	100	**CM110**		**B5/B14**
	23	457	1.9	120		**CMP090/110**	**B5/B14**
	19	541	1.5	150		**CMP090/110**	**B5/B14**
	16	614	1.2	180		**CMP090/110**	**B5/B14**
	12	758	0.9	240		**CMP090/110**	**B5/B14**
	47	236	2.7	60	**CM130**		**B5**
	35	295	2.0	80	**CM130**		**B5**
	28	358	1.5	100	**CM130**		**B5**
	23	445	2.5	120		**CMP090/130**	**B5/B14**
	19	549	1.9	150		**CMP090/130**	**B5/B14**
	16	632	1.5	180		**CMP090/130**	**B5/B14**
	12	770	1.1	240		**CMP090/130**	**B5/B14**
	9	887	0.9	300		**CMP090/130**	**B5/B14**
90L4 (1400 min^{-1})	**280**	46	2.9	5	**CM063**		**B5/B14**
	187	68	2.1	7.5	**CM063**		**B5/B14**
	140	88	1.7	10	**CM063**		**B5/B14**
	93	129	1.2	15	**CM063**		**B5/B14**
	70	166	0.8	20	**CM063**		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
1.5							
90L4 (1400 min^{-1})	**140**	89	2.4	10	**CM070**		**B5/B14**
	93	129	1.7	15	**CM070**		**B5/B14**
	70	170	1.2	20	**CM070**		**B5/B14**
	56	205	0.9	25	**CM070**		**B5/B14**
	47	236	1.0	30	**CM070**		**B5/B14**
	93	129	2.1	15	**CM075**		**B5/B14**
	70	170	1.4	20	**CM075**		**B5/B14**
	56	205	1.1	25	**CM075**		**B5/B14**
	47	236	1.2	30	**CM075**		**B5/B14**
	35	299	0.8	40	**CM075**		**B5/B14**
	70	172	2.4	20	**CM090**		**B5/B14**
	56	212	1.7	25	**CM090**		**B5/B14**
	47	243	2.0	30	**CM090**		**B5/B14**
	35	311	1.4	40	**CM090**		**B5/B14**
	28	368	1.0	50	**CM090**		**B5/B14**
	23	424	0.8	60	**CM090**		**B5/B14**
	23	469	1.2	60		**CMP090/090**	**B5/B14**
	19	564	0.9	75		**CMP090/090**	**B5/B14**
	16	632	1.1	90		**CMP090/090**	**B5/B14**
	12	782	0.8	120		**CMP090/090**	**B5/B14**
	35	323	2.4	40	**CM110**		**B5/B14**
	28	389	1.8	50	**CM110**		**B5/B14**
	23	448	1.4	60	**CM110**		**B5/B14**
	23	481	2.0	60		**CMP090/110**	**B5/B14**
	19	587	1.5	75		**CMP090/110**	**B5/B14**
	18	557	1.0	80	**CM110**		**B5/B14**
	14	655	0.8	100	**CM110**		**B5/B14**
	16	650	1.8	90		**CMP090/110**	**B5/B14**
	12	830	1.3	120		**CMP090/110**	**B5/B14**
	9	978	1.0	150		**CMP090/110**	**B5/B14**
	8	1119	0.8	180		**CMP090/110**	**B5/B14**
	28	389	2.5	50	**CM130**		**B5**
	23	448	2.0	60	**CM130**		**B5**
	19	579	2.1	75		**CMP090/130**	**B5/B14**
	18	565	1.5	80	**CM130**		**B5**
	16	650	2.2	90		**CMP090/130**	**B5/B14**
	14	655	1.1	100	**CM130**		**B5**
	12	818	1.5	120		**CMP090/130**	**B5/B14**
	9	1008	1.2	150		**CMP090/130**	**B5/B14**
	8	1155	0.9	180		**CMP090/130**	**B5/B14**
	6	1396	0.7	240		**CMP090/130**	**B5/B14**
100LA6 (900 min^{-1})	**120**	104	2.3	7.5	**CM070**		**B5/B14**
	90	135	1.9	10	**CM070**		**B5/B14**
	60	198	1.3	15	**CM070**		**B5/B14**
	45	251	0.9	20	**CM070**		**B5/B14**
	120	104	2.7	7.5	**CM075**		**B5/B14**
	90	135	2.2	10	**CM075**		**B5/B14**
	60	198	1.6	15	**CM075**		**B5/B14**
	45	251	1.2	20	**CM075**		**B5/B14**
	36	306	0.8	25	**CM075**		**B5/B14**
	30	349	0.9	30	**CM075**		**B5/B14**



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
1.5							
100LA6 (900 min^{-1})	**60**	201	2.6	15	**CM090**		**B5/B14**
	45	261	1.8	20	**CM090**		**B5/B14**
	36	318	1.3	25	**CM090**		**B5/B14**
	30	363	1.6	30	**CM090**		**B5/B14**
	23	452	1.1	40	**CM090**		**B5/B14**
	45	267	3.1	20	**CM110**		**B5/B14**
	36	326	2.4	25	**CM110**		**B5/B14**
	30	372	2.6	30	**CM110**		**B5/B14**
	23	478	1.8	40	**CM110**		**B5/B14**
	18	565	1.4	50	**CM110**		**B5/B14**
	15	649	1.1	60	**CM110**		**B5/B14**
	23	471	2.3	40	**CM130**		**B5**
	18	581	1.8	50	**CM130**		**B5**
	15	669	1.5	60	**CM130**		**B5**
	11	815	1.1	80	**CM130**		**B5**
	9	939	0.8	100	**CM130**		**B5**
2.2							
90L2 (2800 min^{-1})	**373**	51	2.0	7.5	**CM063**		**B5/B14**
	280	66	1.7	10	**CM063**		**B5/B14**
	187	97	1.2	15	**CM063**		**B5/B14**
	140	126	0.8	20	**CM063**		**B5/B14**
	187	98	1.7	15	**CM070**		**B5/B14**
	140	128	1.2	20	**CM070**		**B5/B14**
	112	158	0.9	25	**CM070**		**B5/B14**
	93	182	1.0	30	**CM070**		**B5/B14**
	187	98	2.0	15	**CM075**		**B5/B14**
	140	128	1.4	20	**CM075**		**B5/B14**
	112	158	1.0	25	**CM075**		**B5/B14**
	93	182	1.2	30	**CM075**		**B5/B14**
	70	234	0.8	40	**CM075**		**B5/B14**
	140	129	2.4	20	**CM090**		**B5/B14**
	112	159	1.8	25	**CM090**		**B5/B14**
	93	187	2.1	30	**CM090**		**B5/B14**
	70	240	1.4	40	**CM090**		**B5/B14**
	56	293	1.0	50	**CM090**		**B5/B14**
	47	338	0.8	60	**CM090**		**B5/B14**
	47	362	1.3	60		**CMP090/090**	**B5/B14**
	37	441	1.0	75		**CMP090/090**	**B5/B14**
	31	503	1.1	90		**CMP090/090**	**B5/B14**
	23	627	0.8	120		**CMP090/090**	**B5/B14**
	70	243	2.4	40	**CM110**		**B5/B14**
	56	296	1.8	50	**CM110**		**B5/B14**
	47	347	1.4	60	**CM110**		**B5/B14**
	47	371	2.2	60		**CMP090/110**	**B5/B14**
	37	452	1.7	75		**CMP090/110**	**B5/B14**
	35	438	1.0	80	**CM110**		**B5/B14**
	31	510	1.9	90		**CMP090/110**	**B5/B14**
	23	671	1.3	120		**CMP090/110**	**B5/B14**
	19	794	1.0	150		**CMP090/110**	**B5/B14**
	16	900	0.8	180		**CMP090/110**	**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
2.2							
90L2 (2800 min^{-1})	**47**	347	1.8	60	**CM130**		**B5**
	35	432	1.3	80	**CM130**		**B5**
	28	525	1.0	100	**CM130**		**B5**
	23	653	1.7	120		**CMP090/130**	**B5/B14**
	19	805	1.3	150		**CMP090/130**	**B5/B14**
	16	927	1.0	180		**CMP090/130**	**B5/B14**
	12	1129	0.8	240		**CMP090/130**	**B5/B14**
100LA4 (1400 min^{-1})	**187**	100	2.0	7.5	**CM070**		**B5/B14**
	140	131	1.7	10	**CM070**		**B5/B14**
	93	189	1.2	15	**CM070**		**B5/B14**
	70	249	0.8	20	**CM070**		**B5/B14**
	187	100	2.4	7.5	**CM075**		**B5/B14**
	140	131	2.0	10	**CM075**		**B5/B14**
	93	189	1.4	15	**CM075**		**B5/B14**
	70	249	1.0	20	**CM075**		**B5/B14**
	56	300	0.8	25	**CM075**		**B5/B14**
	47	347	1.0	30	**CM075**		**B5/B14**
	140	132	2.8	10	**CM090**		**B5/B14**
	93	194	2.2	15	**CM090**		**B5/B14**
	70	252	1.6	20	**CM090**		**B5/B14**
	56	311	1.2	25	**CM090**		**B5/B14**
	47	356	1.4	30	**CM090**		**B5/B14**
	35	456	1.0	40	**CM090**		**B5/B14**
	70	255	2.9	20	**CM110**		**B5/B14**
	56	315	2.1	25	**CM110**		**B5/B14**
	47	360	2.2	30	**CM110**		**B5/B14**
	35	474	1.6	40	**CM110**		**B5/B14**
	28	570	1.2	50	**CM110**		**B5/B14**
	23	657	1.0	60	**CM110**		**B5/B14**
	35	456	2.3	40	**CM130**		**B5**
	28	563	1.7	50	**CM130**		**B5**
	23	657	1.4	60	**CM130**		**B5**
	18	828	1.0	80	**CM130**		**B5**
	14	960	0.8	100	**CM130**		**B5**
112M6 (900 min^{-1})	**120**	154	2.7	7.5	**CM090**		**B5/B14**
	90	203	2.2	10	**CM090**		**B5/B14**
	60	294	1.7	15	**CM090**		**B5/B14**
	45	383	1.2	20	**CM090**		**B5/B14**
	36	467	0.9	25	**CM090**		**B5/B14**
	30	532	1.1	30	**CM090**		**B5/B14**
	23	663	0.8	40	**CM090**		**B5/B14**
	45	388	2.1	20	**CM110**		**B5/B14**
	36	479	1.6	25	**CM110**		**B5/B14**
	30	546	1.8	30	**CM110**		**B5/B14**
	23	700	1.3	40	**CM110**		**B5/B14**
	18	829	1.0	50	**CM110**		**B5/B14**
	23	691	1.6	40	**CM130**		**B5**
	18	852	1.2	50	**CM130**		**B5**
	15	980	1.0	60	**CM130**		**B5**

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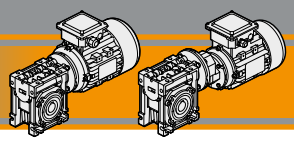
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
3.0							
100LA2 (2800 min^{-1})	**280**	91	1.7	10	**CM070**		**B5/B14**
	187	134	1.2	15	**CM070**		**B5/B14**
	140	174	0.9	20	**CM070**		**B5/B14**
	93	246	0.8	30	**CM070**		**B5/B14**
	373	69	2.5	7.5	**CM075**		**B5/B14**
	280	91	2.1	10	**CM075**		**B5/B14**
	187	134	1.5	15	**CM075**		**B5/B14**
	140	174	1.1	20	**CM075**		**B5/B14**
	112	215	0.8	25	**CM075**		**B5/B14**
	93	249	0.9	30	**CM075**		**B5/B14**
	187	135	2.4	15	**CM090**		**B5/B14**
	140	176	1.8	20	**CM090**		**B5/B14**
	112	217	1.3	25	**CM090**		**B5/B14**
	93	255	1.5	30	**CM090**		**B5/B14**
	70	327	1.0	40	**CM090**		**B5/B14**
	112	220	2.3	25	**CM110**		**B5/B14**
	93	252	2.5	30	**CM110**		**B5/B14**
	70	332	1.8	40	**CM110**		**B5/B14**
	56	404	1.3	50	**CM110**		**B5/B14**
	47	473	1.0	60	**CM110**		**B5/B14**
	56	404	1.7	50	**CM130**		**B5**
	47	473	1.3	60	**CM130**		**B5**
	35	589	0.9	80	**CM130**		**B5**
100LB4 (1400 min^{-1})	**187**	137	1.5	7.5	**CM070**		**B5/B14**
	140	178	1.2	10	**CM070**		**B5/B14**
	93	258	0.9	15	**CM070**		**B5/B14**
	187	137	1.7	7.5	**CM075**		**B5/B14**
	140	178	1.4	10	**CM075**		**B5/B14**
	93	258	1.0	15	**CM075**		**B5/B14**
	187	138	2.5	7.5	**CM090**		**B5/B14**
	140	180	2.1	10	**CM090**		**B5/B14**
	93	264	1.6	15	**CM090**		**B5/B14**
	70	344	1.2	20	**CM090**		**B5/B14**
	56	425	0.9	25	**CM090**		**B5/B14**
	47	485	1.0	30	**CM090**		**B5/B14**
	35	622	0.8	40	**CM090**		**B5/B14**
	93	264	2.7	15	**CM110**		**B5/B14**
	70	348	2.1	20	**CM110**		**B5/B14**
	56	430	1.6	25	**CM110**		**B5/B14**
	47	491	1.6	30	**CM110**		**B5/B14**
	35	647	1.2	40	**CM110**		**B5/B14**
	28	778	0.9	50	**CM110**		**B5/B14**
	47	485	2.2	30	**CM130**		**B5**
	35	622	1.7	40	**CM130**		**B5**
	28	767	1.3	50	**CM130**		**B5**
	23	896	1.0	60	**CM130**		**B5**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
3.0							
132S6 (900 min^{-1})	**120**	210	3.5	7.5	**CM110**		**B5/B14**
	90	277	2.9	10	**CM110**		**B5/B14**
	60	401	2.2	15	**CM110**		**B5/B14**
	45	528	1.5	20	**CM110**		**B5/B14**
	36	653	1.2	25	**CM110**		**B5/B14**
	30	735	1.3	30	**CM110**		**B5/B14**
	45	522	2.0	20	**CM130**		
	36	645	1.6	25	**CM130**		**B5/B14**
	30	735	1.6	30	**CM130**		**B5/B14**
	23	942	1.2	40	**CM130**		**B5/B14**
4.0							
112M2 (2800 min^{-1})	**373**	92	1.5	7.5	**CM070**		**B5/B14**
	280	121	1.3	10	**CM070**		**B5/B14**
	187	178	0.9	15	**CM070**		**B5/B14**
	373	92	1.9	7.5	**CM075**		**B5/B14**
	280	121	1.5	10	**CM075**		**B5/B14**
	187	178	1.1	15	**CM075**		**B5/B14**
	140	232	0.8	20	**CM075**		**B5/B14**
	280	123	2.3	10	**CM090**		**B5/B14**
	187	180	1.8	15	**CM090**		**B5/B14**
	140	235	1.3	20	**CM090**		**B5/B14**
	93	336	1.1	30	**CM090**		**B5/B14**
	70	437	0.8	40	**CM090**		**B5/B14**
	140	237	2.3	20	**CM110**		**B5/B14**
	112	293	1.7	25	**CM110**		**B5/B14**
	93	336	1.9	30	**CM110**		**B5/B14**
	70	442	1.3	40	**CM110**		**B5/B14**
	56	539	1.0	50	**CM110**		**B5/B14**
112M4 (1400 min^{-1})	**187**	182	1.1	7.5	**CM070**		**B5/B14**
	140	237	0.9	10	**CM070**		**B5/B14**
	187	182	1.3	7.5	**CM075**		**B5/B14**
	140	237	1.1	10	**CM075**		**B5/B14**
	93	344	0.8	15	**CM075**		**B5/B14**
	187	184	1.9	7.5	**CM090**		**B5/B14**
	140	240	1.6	10	**CM090**		**B5/B14**
	93	352	1.2	15	**CM090**		**B5/B14**
	70	458	0.9	20	**CM090**		**B5/B14**
	47	655	0.8	30	**CM090**		**B5/B14**
	140	240	2.8	10	**CM110**		**B5/B14**
	93	352	2.1	15	**CM110**		**B5/B14**
	70	464	1.6	20	**CM110**		**B5/B14**
	56	573	1.2	25	**CM110**		**B5/B14**
	47	655	1.2	30	**CM110**		**B5/B14**
	35	862	0.9	40	**CM110**		**B5/B14**
	70	458	2.0	20	**CM130**		**B5**
	56	566	1.6	25	**CM130**		**B5**
	47	647	1.6	30	**CM130**		**B5**
	35	829	1.3	40	**CM130**		**B5**
	28	1023	0.9	50	**CM130**		**B5**



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Technical data

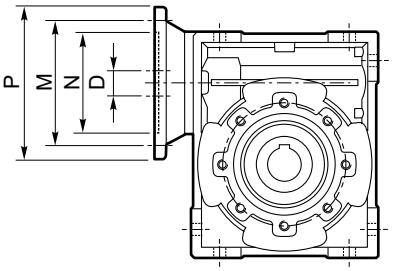
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
4.0							
132L6 (900 min^{-1})	**120**	280	2.6	7.5	**CM110**		**B5/B14**
	90	369	2.2	10	**CM110**		**B5/B14**
	60	535	1.6	15	**CM110**		**B5/B14**
	45	705	1.1	20	**CM110**		**B5/B14**
	36	870	0.9	25	**CM110**		**B5/B14**
	30	980	1.0	30	**CM110**		**B5/B14**
	45	696	1.5	20	**CM130**		**B5/B14**
	36	860	1.2	25	**CM130**		**B5/B14**
	30	980	1.2	30	**CM130**		**B5/B14**
5.5							
132SA2 (2800 min^{-1})	**373**	127	3.5	7.5	**CM110**		**B5/B14**
	280	167	2.9	10	**CM110**		**B5/B14**
	187	248	2.2	15	**CM110**		**B5/B14**
	140	326	1.6	20	**CM110**		**B5/B14**
	112	403	1.3	25	**CM110**		**B5/B14**
	93	461	1.4	30	**CM110**		**B5/B14**
	140	326	2.1	20	**CM130**		**B5/B14**
	112	403	1.6	25	**CM130**		**B5/B14**
	93	461	1.7	30	**CM130**		**B5/B14**
	70	600	1.3	40	**CM130**		**B5/B14**
132S4 (1400 min^{-1})	**187**	250	2.4	7.5	**CM110**		**B5/B14**
	140	330	2.0	10	**CM110**		**B5/B14**
	93	484	1.5	15	**CM110**		**B5/B14**
	70	638	1.2	20	**CM110**		**B5/B14**
	56	788	0.9	25	**CM110**		**B5/B14**
	47	912	0.9	30	**CM110**		**B5/B14**
	187	250	3.0	7.5	**CM130**		**B5/B14**
	140	330	2.5	10	**CM130**		**B5/B14**
	93	484	1.9	15	**CM130**		**B5/B14**
	70	630	1.4	20	**CM130**		**B5/B14**
	56	778	1.2	25	**CM130**		**B5/B14**
	47	889	1.2	30	**CM130**		**B5/B14**
	35	1141	0.9	40	**CM130**		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
7.5							
132SB2 (2800 min^{-1})	**373**	173	2.5	7.5	**CM110**		**B5/B14**
	280	228	2.2	10	**CM110**		**B5/B14**
	187	338	1.6	15	**CM110**		**B5/B14**
	140	445	1.2	20	**CM110**		**B5/B14**
	112	550	0.9	25	**CM110**		**B5/B14**
	93	629	1.0	30	**CM110**		**B5/B14**
	187	338	2.1	15	**CM130**		**B5/B14**
	140	445	1.5	20	**CM130**		**B5/B14**
	112	550	1.2	25	**CM130**		**B5/B14**
	93	629	1.3	30	**CM130**		**B5/B14**
	70	819	0.9	40	**CM130**		**B5/B14**
132MA4 (1400 min^{-1})	**187**	341	1.8	7.5	**CM110**		**B5/B14**
	140	450	1.5	10	**CM110**		**B5/B14**
	93	660	1.1	15	**CM110**		**B5/B14**
	70	870	0.9	20	**CM110**		**B5/B14**
	187	341	2.2	7.5	**CM130**		**B5/B14**
	140	450	1.8	10	**CM130**		**B5/B14**
	93	660	1.4	15	**CM130**		**B5/B14**
	70	860	1.1	20	**CM130**		**B5/B14**
	56	1062	0.9	25	**CM130**		**B5/B14**
	47	1213	0.9	30	**CM130**		**B5/B14**

Motori applicabili

IEC Motor adapters

	IEC	N	M	P	D	i											
						5	7.5	10	15	20	25	30	40	50	60	80	100
CM026	**56B14**	50	65	80	9												
CM030	**63B5**	95	115	140	11												
	63B14	60	75	90													
	56B5	80	100	120	9	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**			
	56B14	50	65	80													
CM040	**71B5**	110	130	160	14												
	71B14	70	85	105													
	63B5	95	115	140	11	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**				
	63B14	60	75	90													
	56B5	80	100	120	9	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**
	56B14	50	65	80													
CM050	**80B5**	130	165	200	19												
	80B14	80	100	120													
	71B5	110	130	160	14	**B**	**B**	**B**	**B**	**B**	**B**	**B**					
	71B14	70	85	105													
	63B5	95	115	140	11	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**	
	63B14	60	75	90													
CM063	**90B5**	130	165	200	24												
	90B14	95	115	140													
	80B5	130	165	200	19	**B**	**B**	**B**	**B**	**B**	**B**	**B**					
	80B14	80	100	120													
	71B5	110	130	160	14	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**		
	71B14	70	85	105													
	63B5	95	115	140	11								**BS**	**BS**	**BS**	**B**	**B**
CM070	**100/112B5**	180	215	250	28												
	100/112B14	110	130	160													
	90B5	130	165	200	24		**B**	**B**	**B**	**B**							
	90B14	95	115	140													
	80B5	130	165	200	19		**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**				
	80B14	80	100	120													
	71B5	110	130	160	14						**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**
CM075	**100/112B5**	180	215	250	28												
	100/112B14	110	130	160													
	90B5	130	165	200	24		**B**	**B**	**B**	**B**	**B**	**B**					
	90B14	95	115	140													
	80B5	130	165	200	19		**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**			
	80B14	80	100	120													
	71B5	110	130	160	14								**BS**	**BS**	**B**	**B**	**B**



N.B.

Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.

N.B. Grey areas indicate motor inputs available on each size of unit.

B/BS = Boccola di riduzione in acciaio

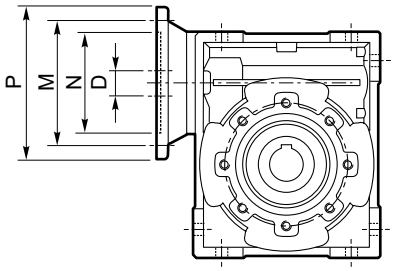
B/BS = Metal shaft sleeve

Nota: flange Nema disponibili a richiesta
Note: *Nema flange available on demand*

Motori applicabili

IEC Motor adapters

	IEC	N	M	P	D	i											
						5	7.5	10	15	20	25	30	40	50	60	80	100
CM090	100/112B5	180	215	250	28												
	100/112B14	110	130	160													
	90B5	130	165	200	24		B	B	B	B	B	B	B				
	90B14	95	115	140													
	80B5	130	165	200	19		BS	BS	BS	BS	BS	BS	BS	B	B	B	
	80B14	80	100	120													
	71B5	110	130	160	14									BS	BS	BS	B
CM110	132B5	230	265	300	38												
	132B14	130	165	200													
	100/112B5	180	215	250	28		B	B	B	B	B	B					
	100/112B14	110	130	160													
	90B5	130	165	200	24		BS	BS	BS	BS	BS	BS	B	B	B		
	90B14	95	115	140													
	80B5	130	165	200	19								BS	BS	BS	B	B
CM130	132B5	230	265	300	38												
	132B14	130	165	200													
	100/112B5	180	215	250	28		B	B	B	B	B	B	B				
	90B5	130	165	200	24		BS	BS	BS	BS	BS	BS	BS	B	B	B	B
	80B5	130	165	200	19									BS	BS	BS	BS



N.B.

Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.

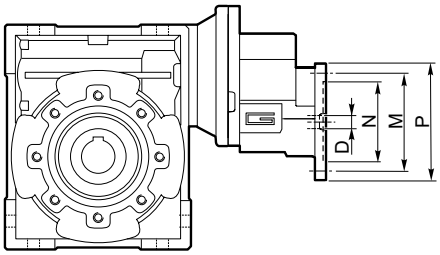
N.B. Grey areas indicate motor inputs available on each size of unit.

B/BS = Boccola di riduzione in acciaio

B/BS = Metal shaft sleeve

Nota: flange Nema disponibili a richiesta
Note: *Nema flange available on demand*

CMP	IEC	N	M	P	D	i (i_1 x i_2)							
						60 (3x20)	75 (3x25)	90 (3x30)	120 (3x40)	150 (3x50)	180 (3x60)	240 (3x80)	300 (3x100)
056/030	56 B14	50	65	80	9								
056/040						B	B	B	B				
063/040	63 B14	60	75	90	11								
063/050						B	B	B					
063/063						BS	BS	BS	B	B	B		
071/050	71 B14	70	85	105	14								
071/063						B	B	B					
071/070						B	B	B	B				
071/075						B	B	B	B				
071/090						BS	BS	BS	B	B	B		
080/063	80 B14	80	100	120	19								
080/070													
080/075													
080/090						B	B	B					
080/110						BS	BS	B	B	B	B		
080/130						BS	BS	BS	BS	B	B	B	B
090/070	90 B14 90 B5	95 130	115 165	140 200	24								
090/075													
090/090						B	B	B					
090/110						BS	BS	B	B	B	B		
090/130						BS	BS	BS	BS	B	B	B	B



N.B.

Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.

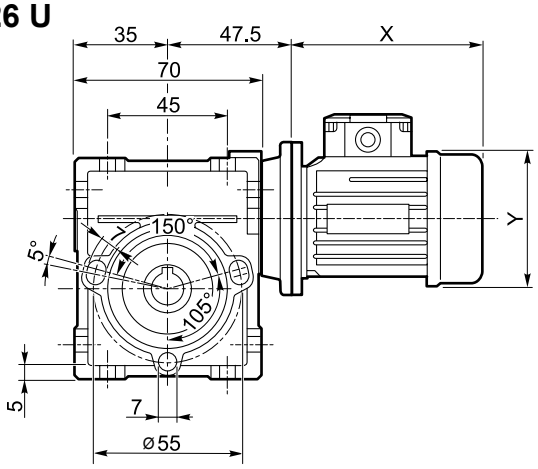
N.B. Grey areas indicate motor inputs available on each size of unit.

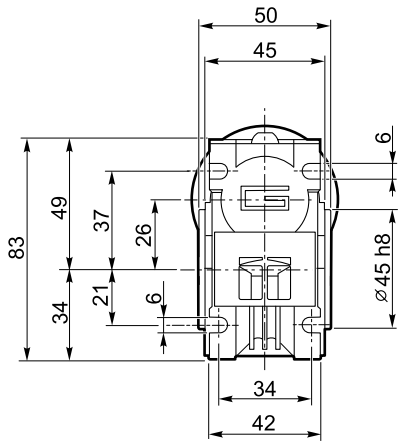
B/BS = Boccola di riduzione in acciaio

B/BS = Metal shaft sleeve

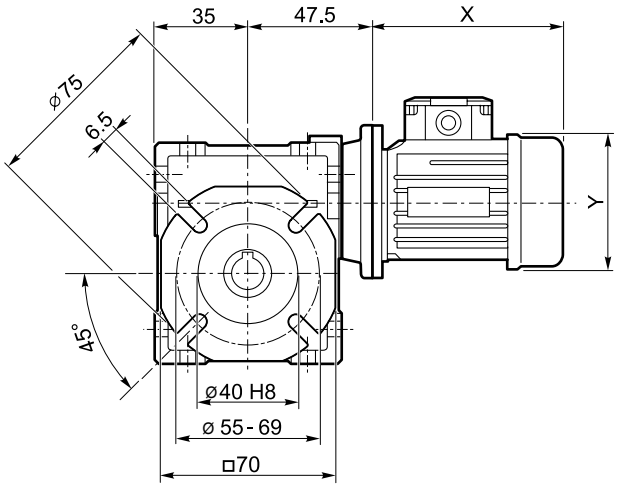
Dimensioni — *Dimensions*

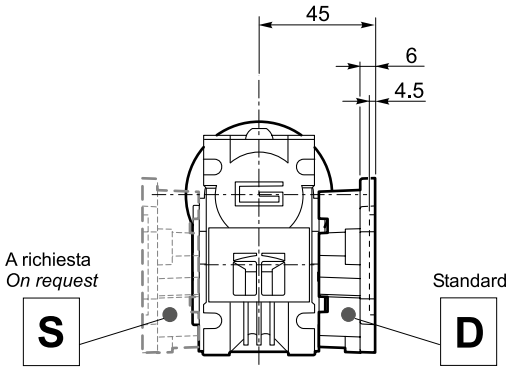
CM 026 U





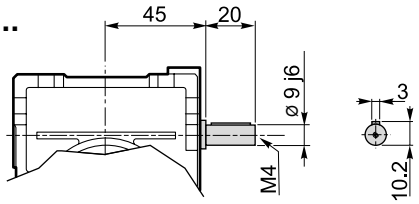
CM 026 F

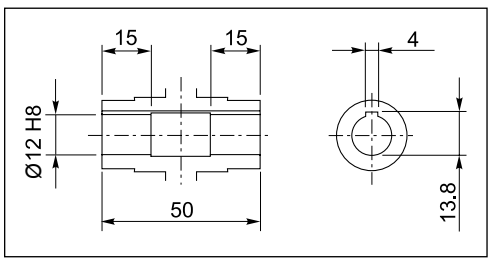




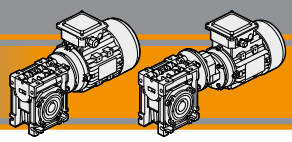
Kg
0.8

CMIS 026 ..



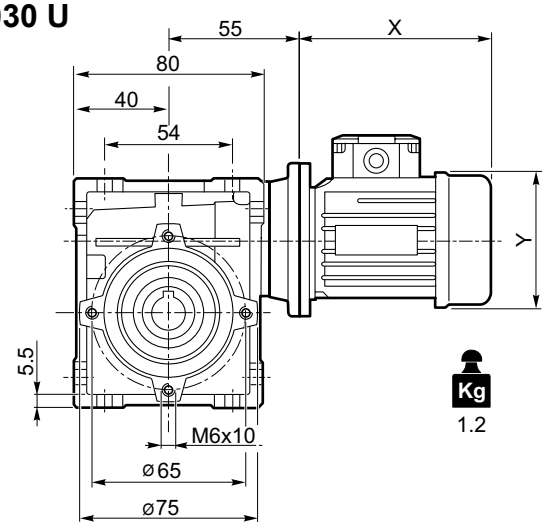


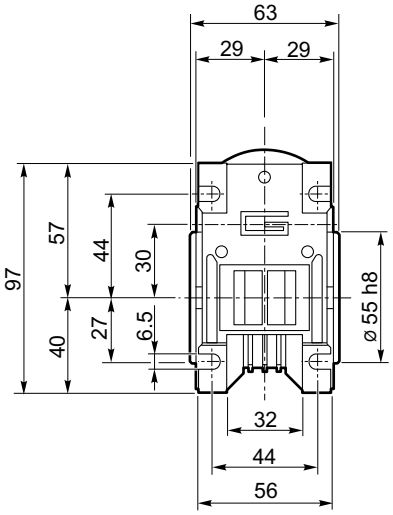
Albero lento cavo / *Hollow output shaft*



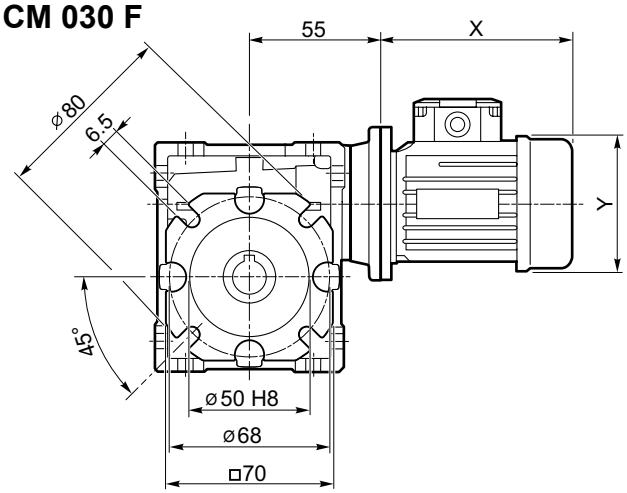
Dimensioni — *Dimensions*

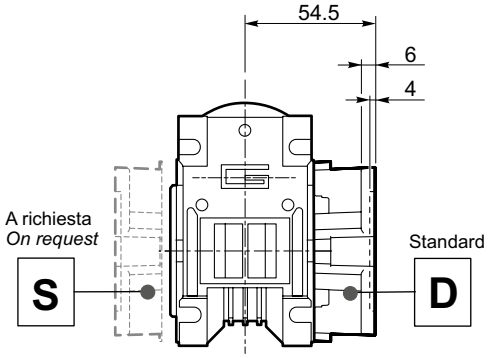
CM 030 U

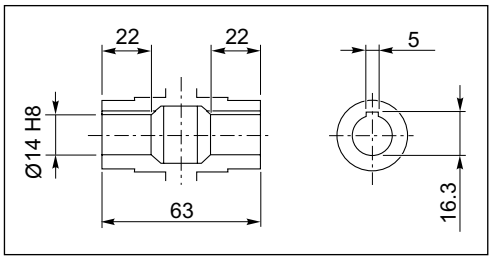




CM 030 F

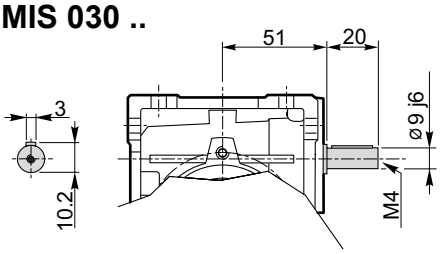




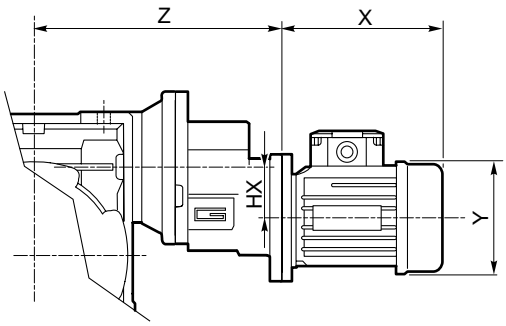


Albero lento cavo / *Hollow output shaft*

CMIS 030 ..



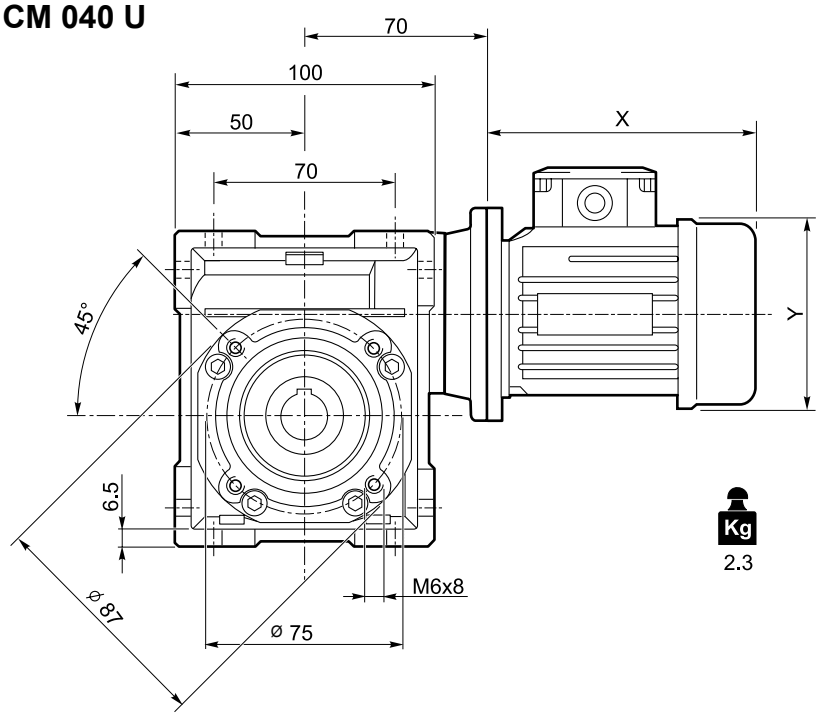
CMP ..

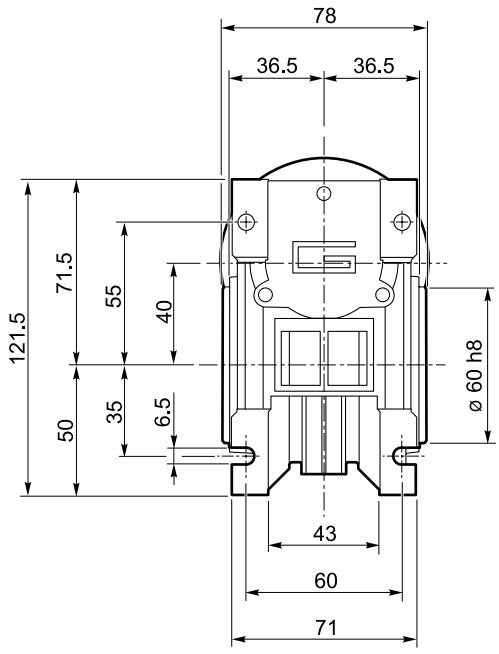


	HX	Z	Kg
056/030	30.5	124	2.1

Dimensioni ***Dimensions***

CM 040 U





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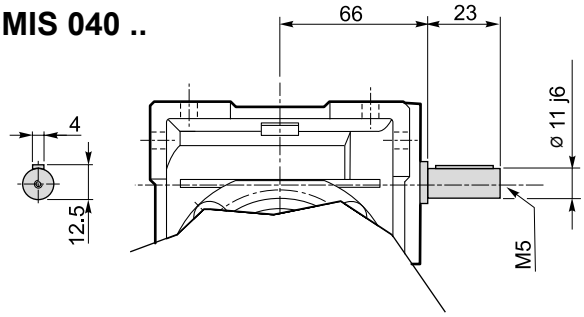
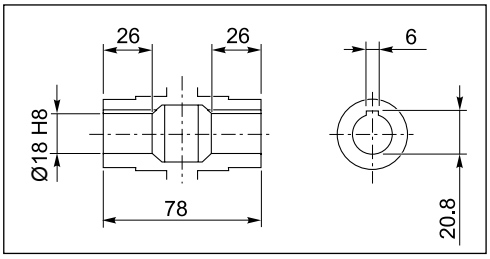
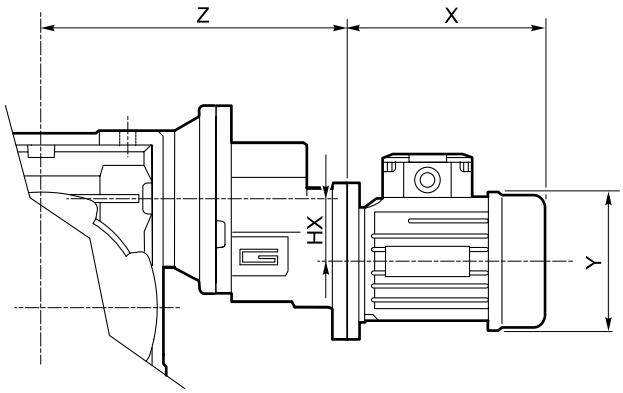


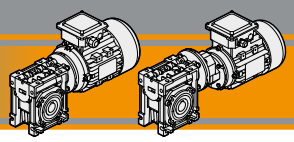


Albero lento cavo / *Hollow output shaft*

CMP ..

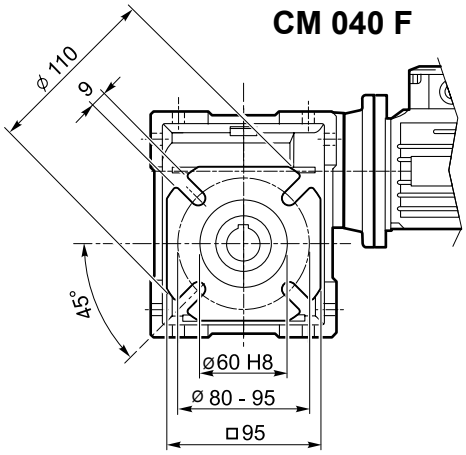


	HX	Z	Kg
056/040	30.5	139	3.2
063/040	30.5	142	3.3

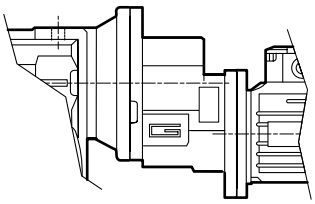


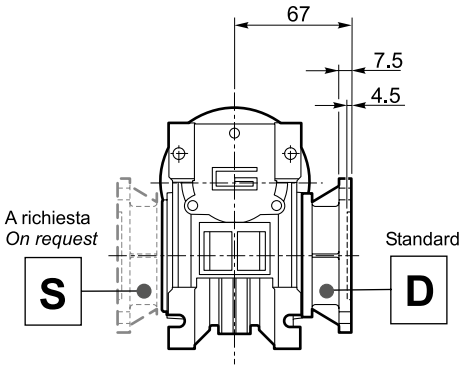
Dimensioni ***Dimensions***

CM 040 F



CMP../040 F





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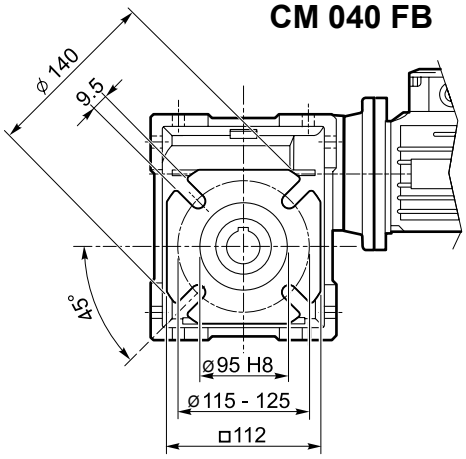

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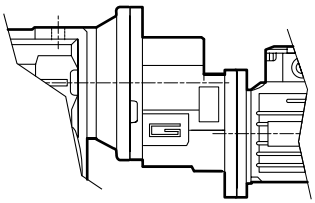

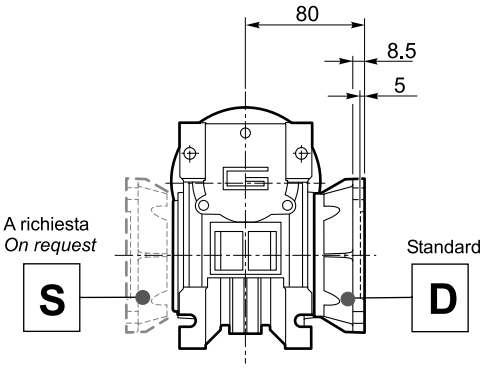

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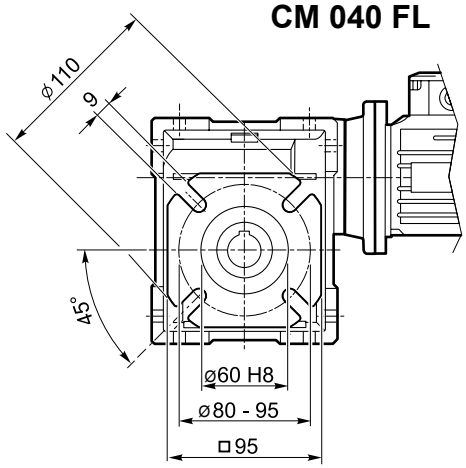

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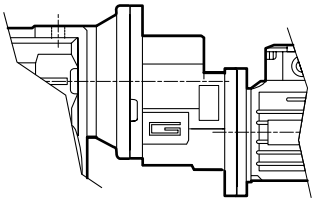
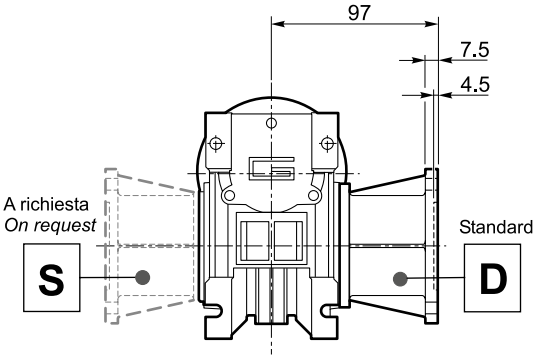
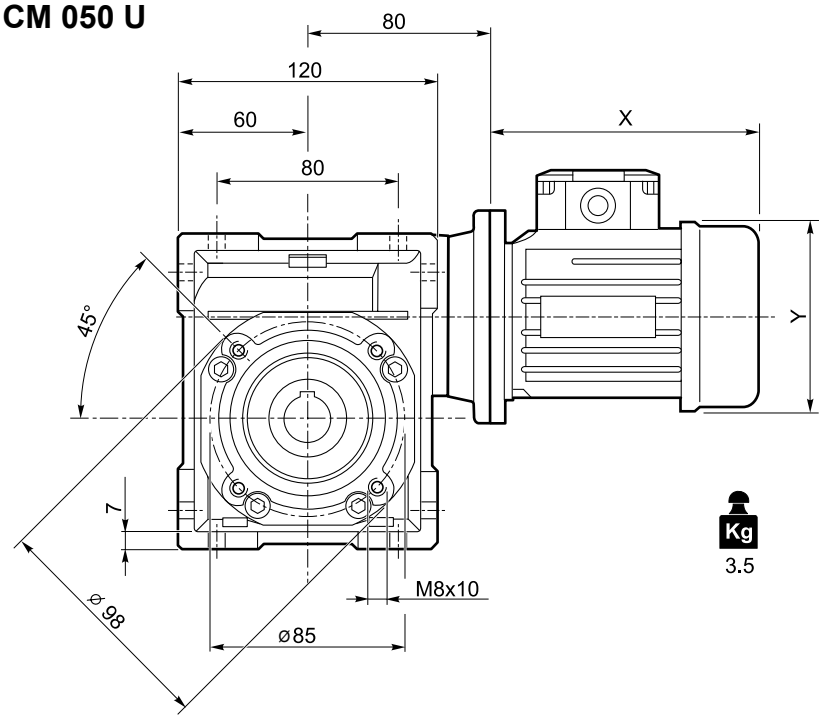
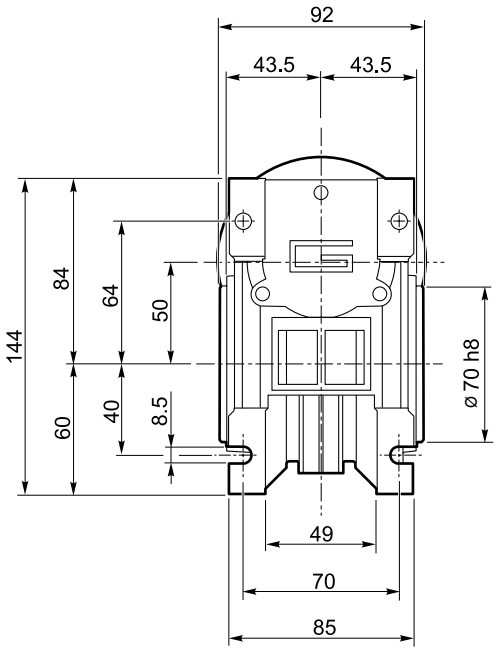




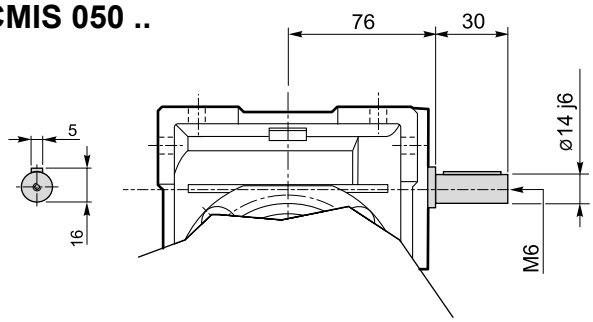
Dimensioni ***Dimensions***

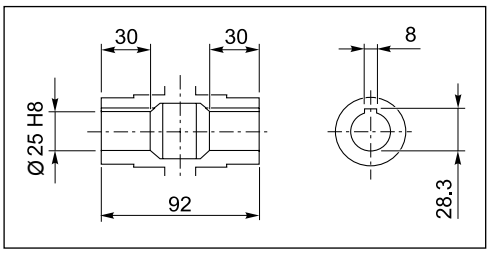
CM 050 U





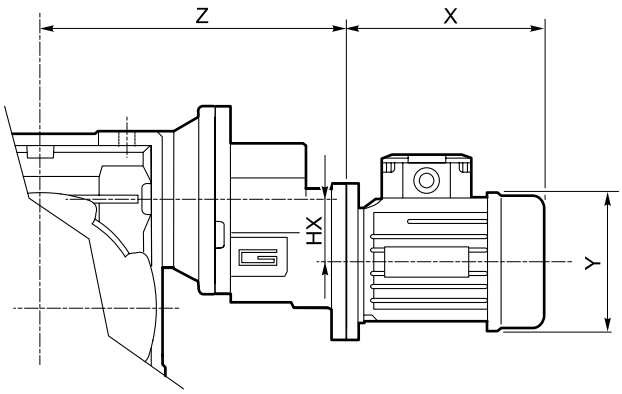
CMIS 050 ..



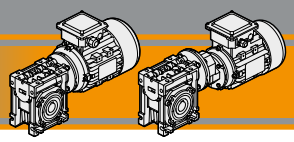


Albero lento cavo / *Hollow output shaft*

CMP ..

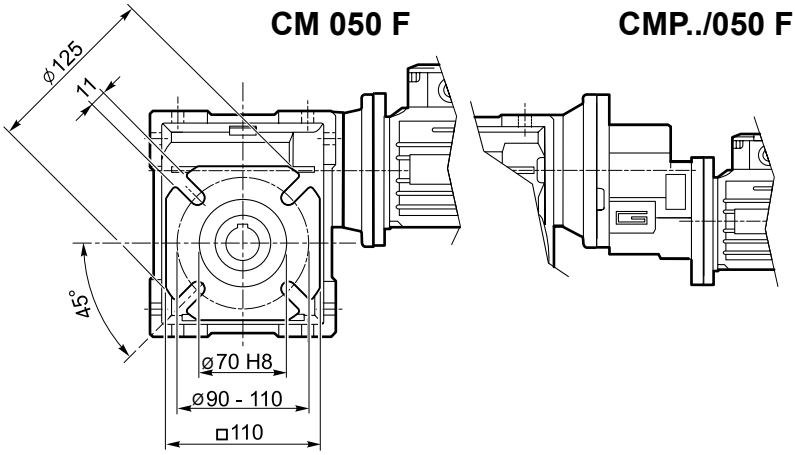


	HX	Z	Kg
063/050	30.5	152	4.5
071/050	41	169	5.5

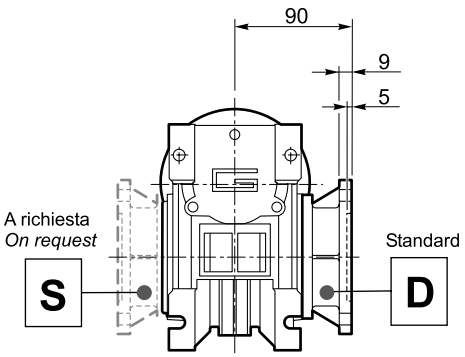


Dimensioni ***Dimensions***

CM 050 F



CMP../050 F



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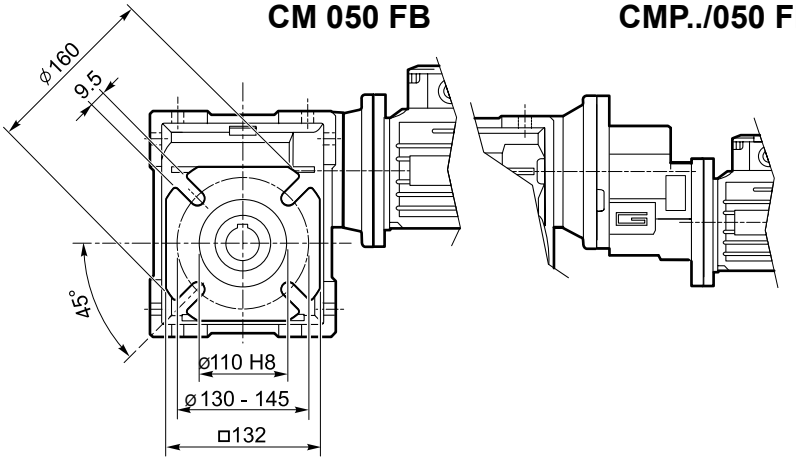

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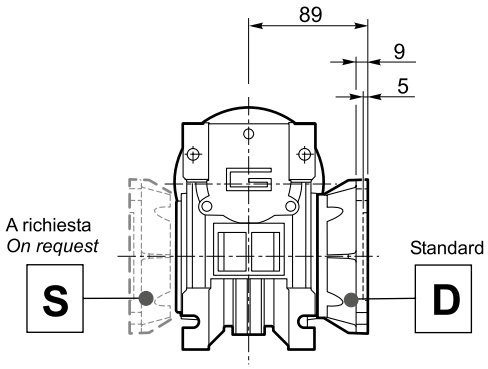
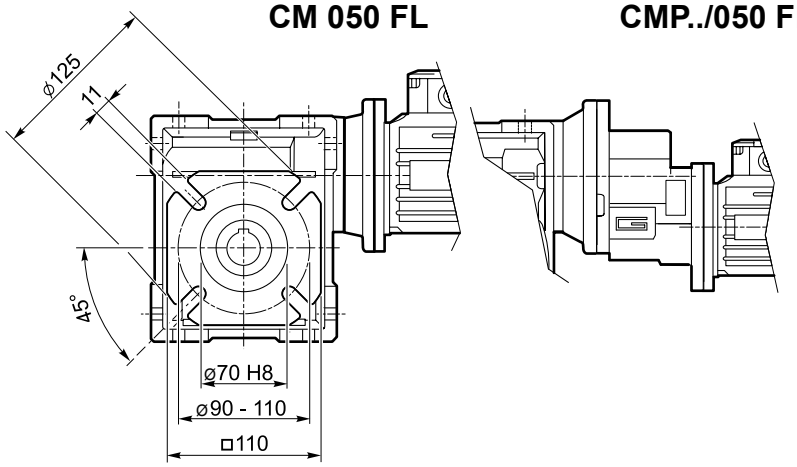
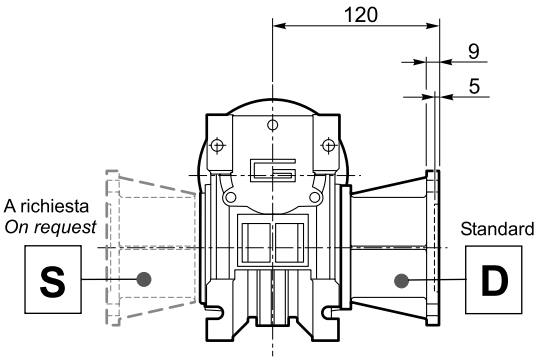


CM 050 FL

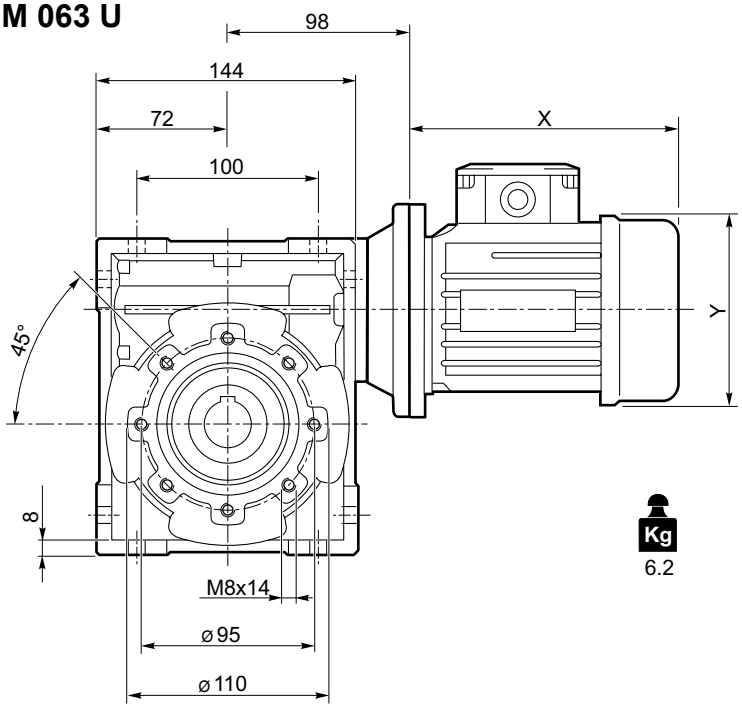


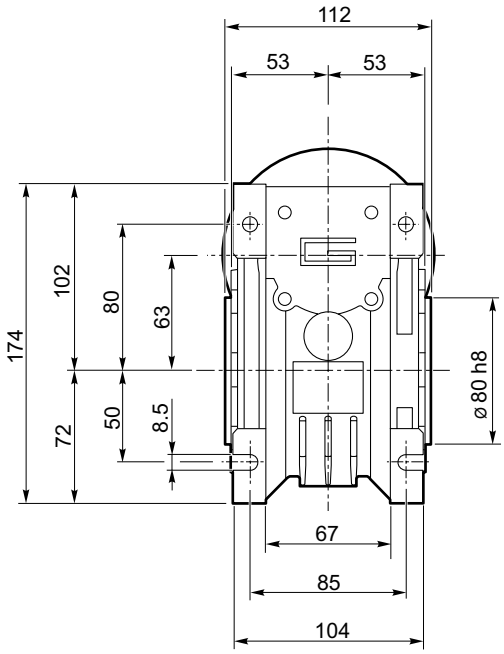
CMP../050 FL



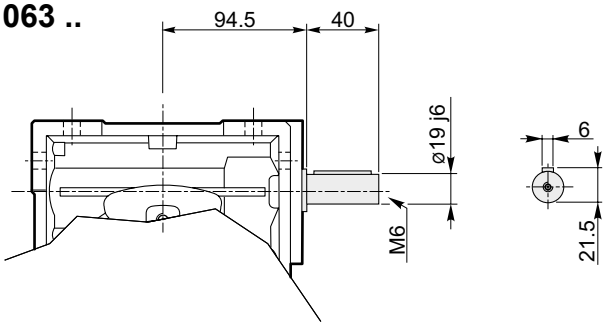
Dimensioni ***Dimensions***

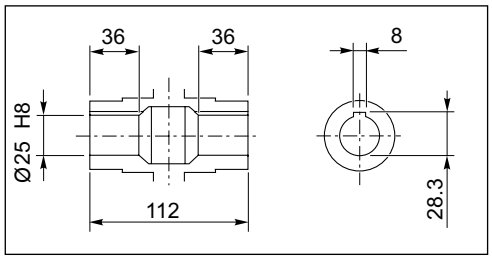
CM 063 U





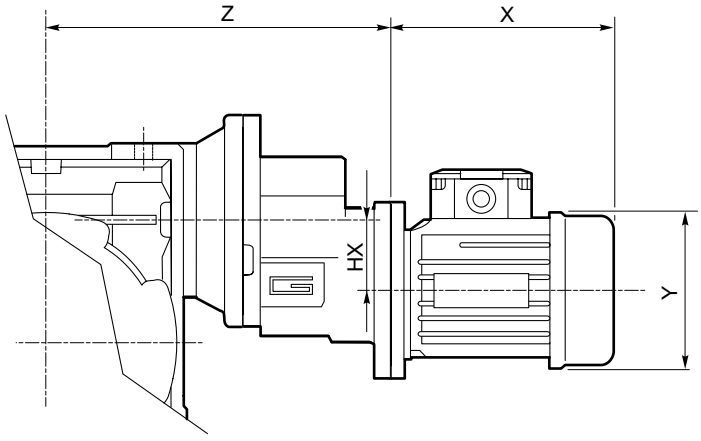
CMIS 063 ..



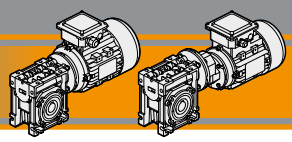


Albero lento cavo / *Hollow output shaft*

CMP ..

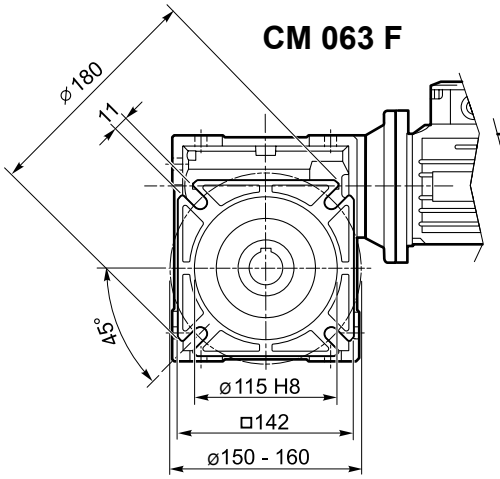


	HX	Z	Kg
063/063	30.5	170	7.2
071/063	41	187	8.2
080/063	41	198	9.0

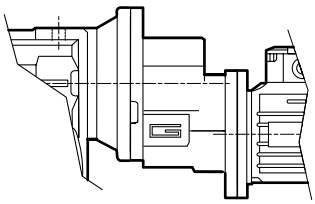


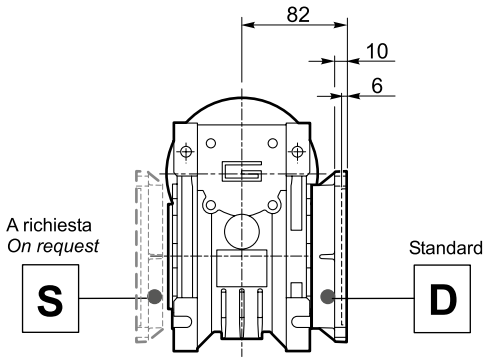
Dimensioni ***Dimensions***

CM 063 F

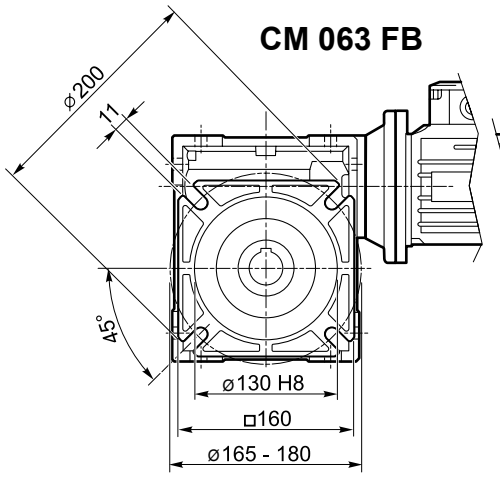


CMP../063 F

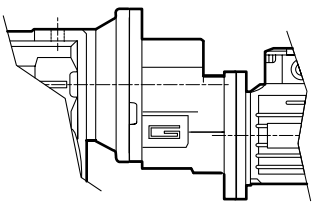


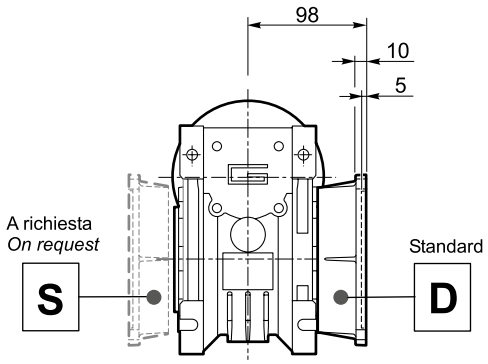


CM 063 FB

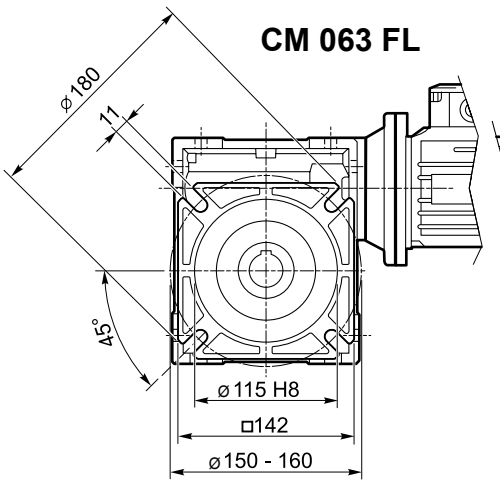


CMP../063 FB

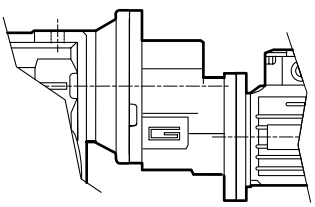


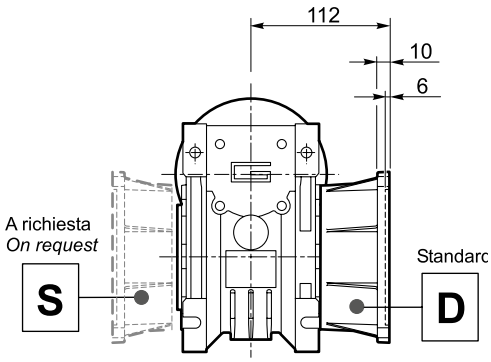


CM 063 FL



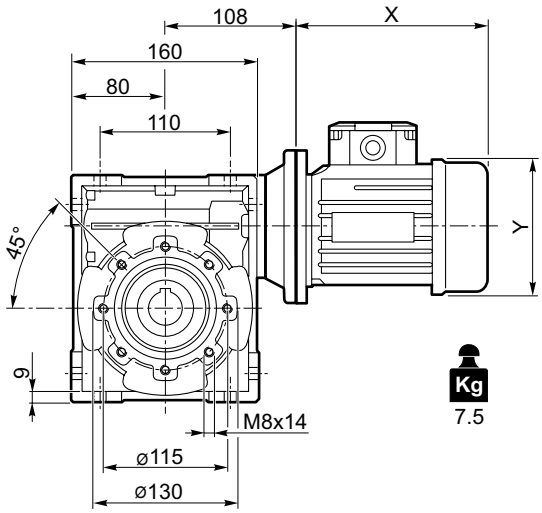
CMP../063 FL

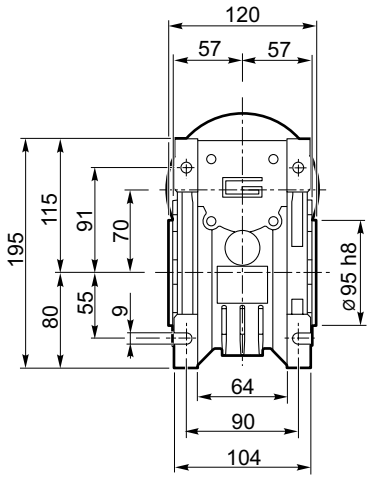




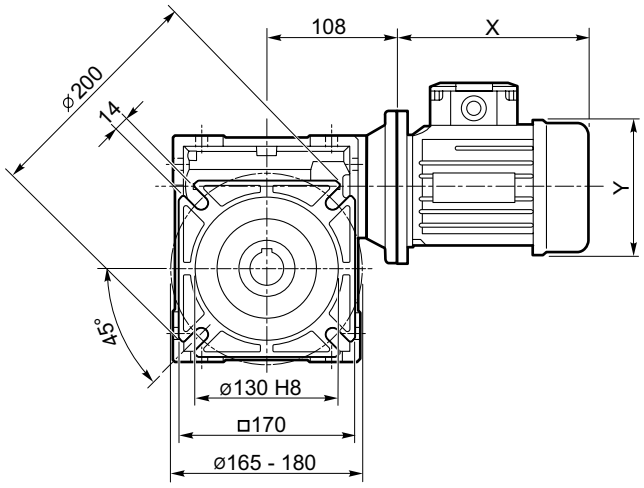
Dimensioni ***Dimensions***

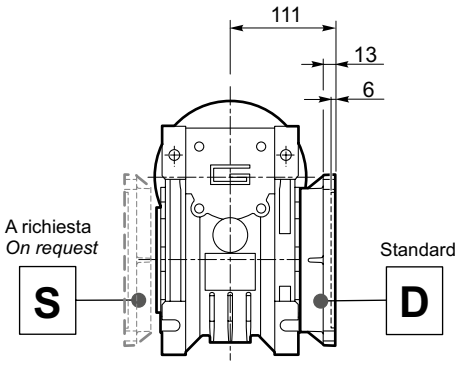
CM 070 U



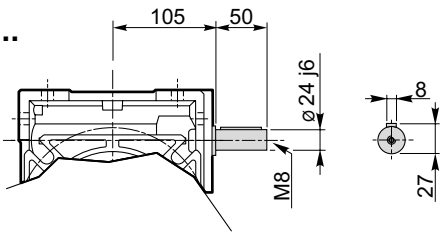


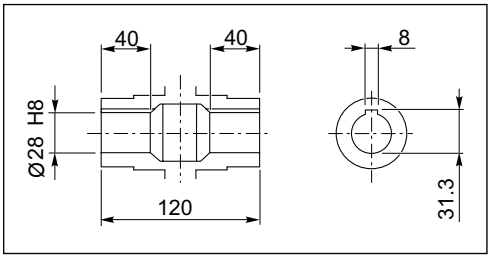
CM 070 F





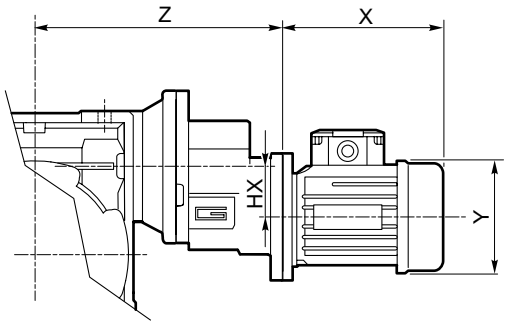
CMIS 070 ..



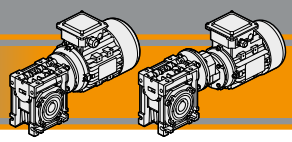


Albero lento cavo / *Hollow output shaft*

CMP ..

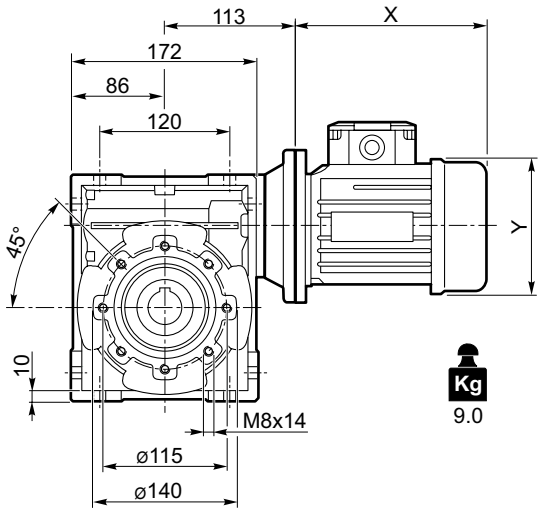


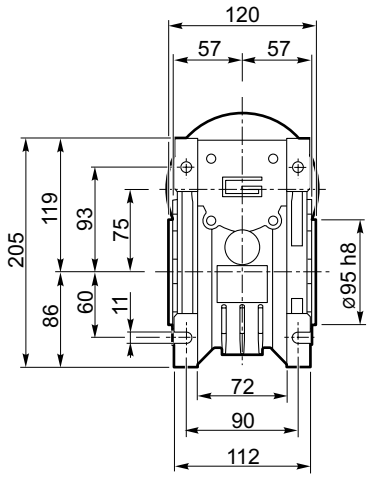
	HX	Z	Kg
071/070	41	197	9
080/070	41	208	9.8
090/070	36.5	262	10.5



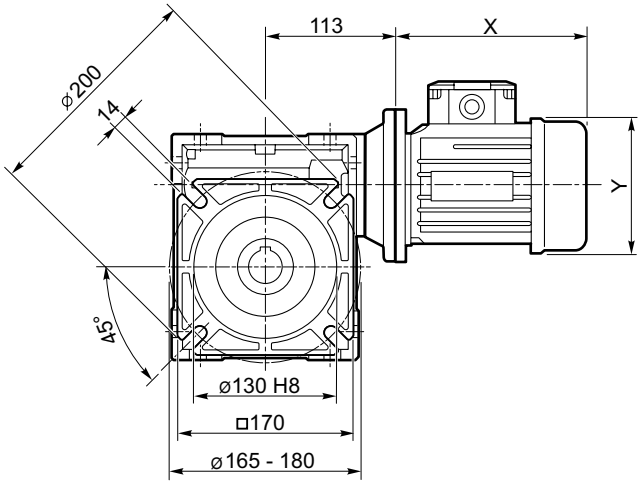
Dimensioni ***Dimensions***

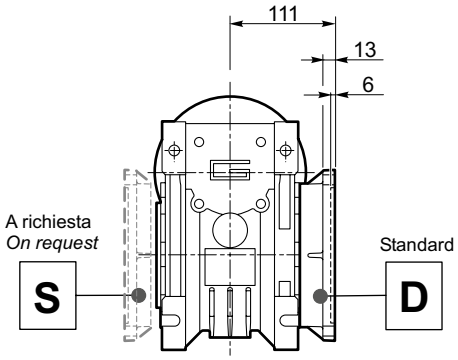
CM 075 U



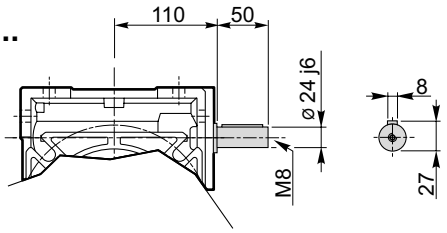


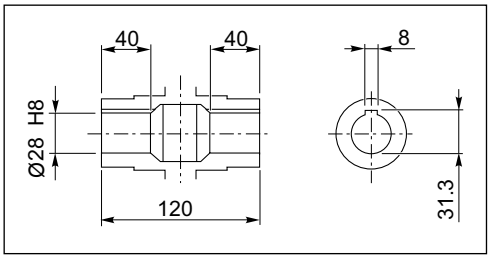
CM 075 F





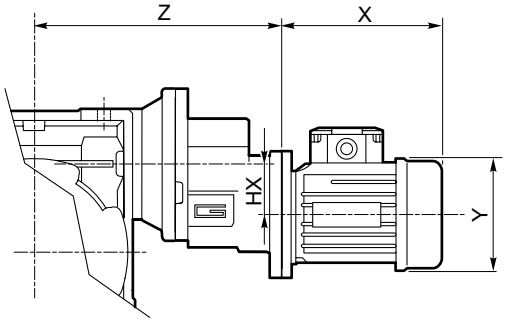
CMIS 075 ..





Albero lento cavo / *Hollow output shaft*

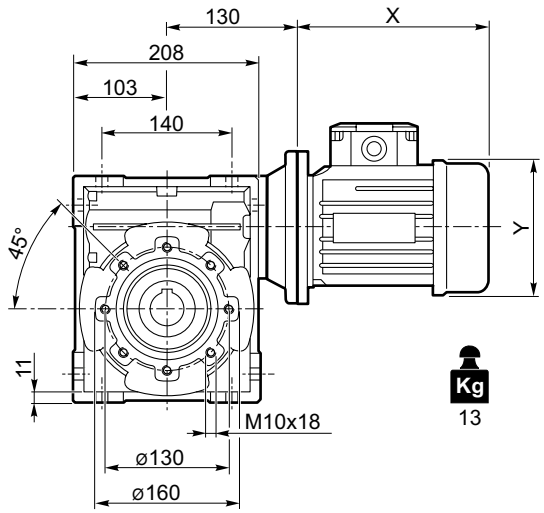
CMP ..

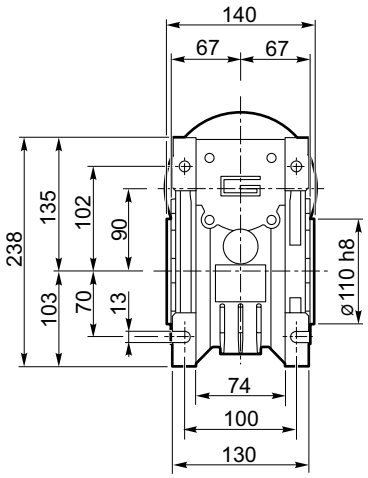


	HX	Z	Kg
071/075	41	202	11.0
080/075	41	213	11.8
090/075	36.5	267	12.5

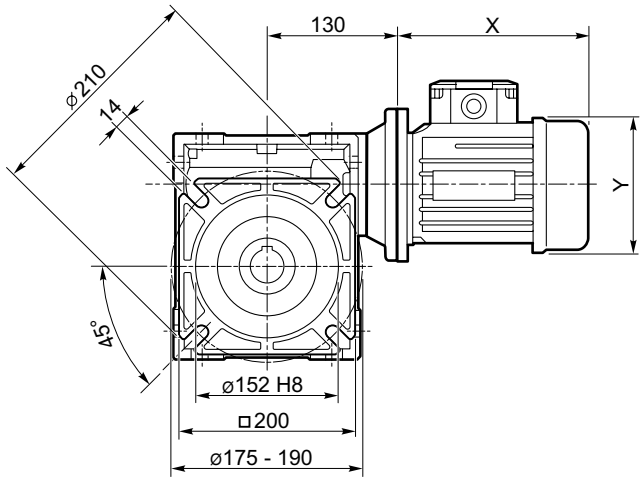
Dimensioni ***Dimensions***

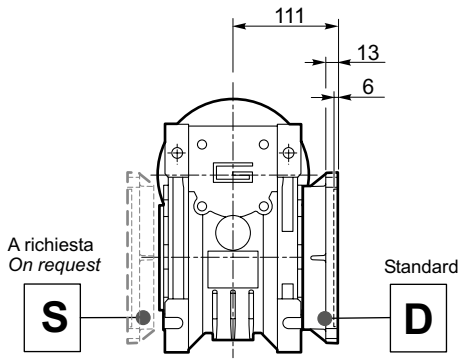
CM 090 U



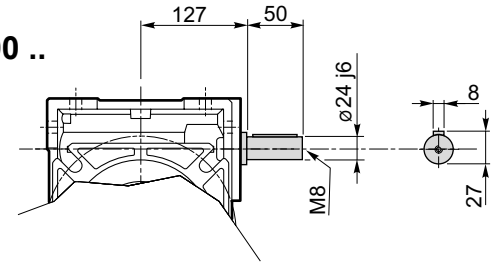


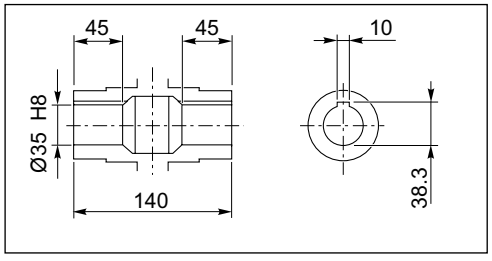
CM 090 F





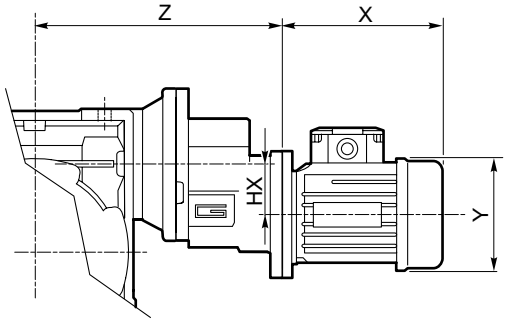
CMIS 090 ..



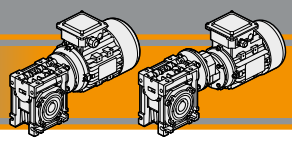


Albero lento cavo / *Hollow output shaft*

CMP ..

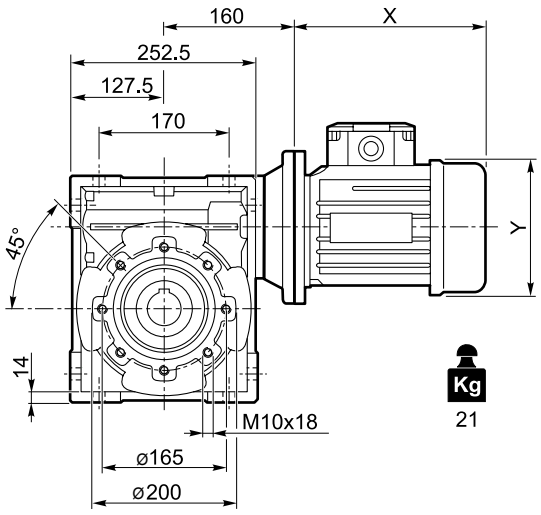


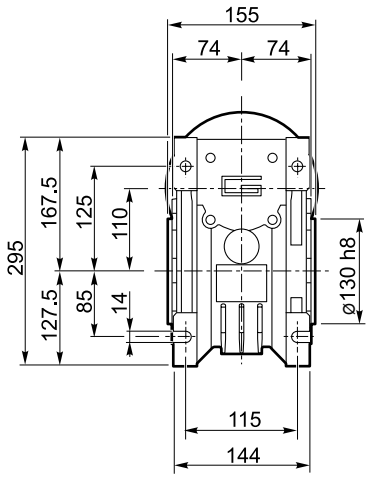
	HX	Z	Kg
071/090	41	219	15.0
080/090	41	230	15.8
090/090	36.5	284	16.5



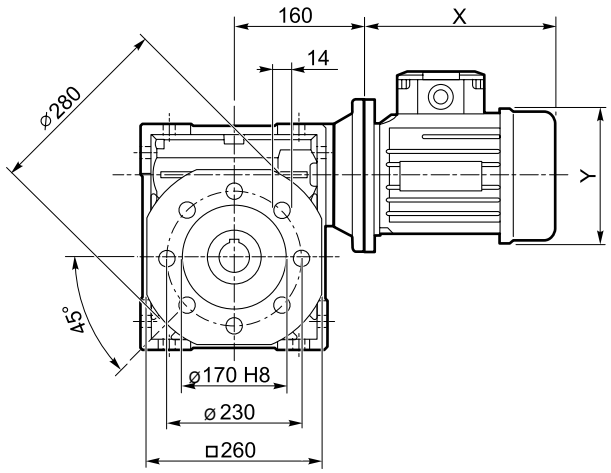
Dimensioni ***Dimensions***

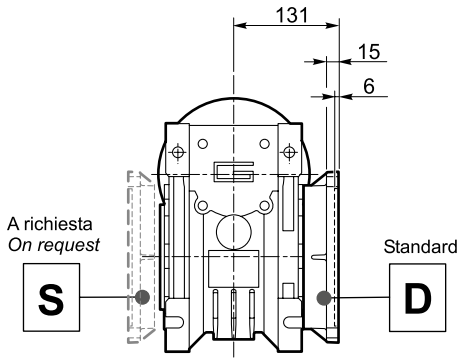
CM 110 U



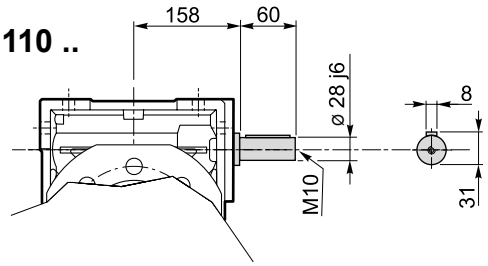


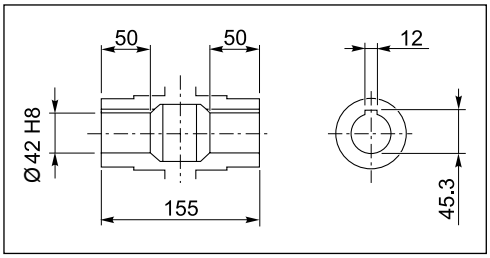
CM 110 F





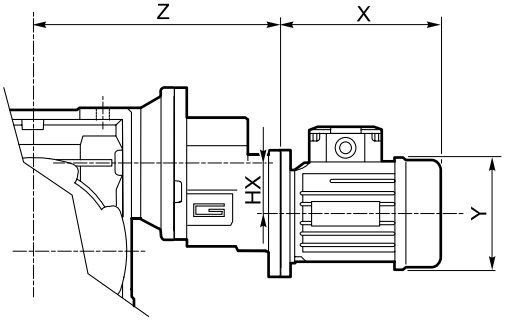
CMIS 110 ..





Albero lento cavo / *Hollow output shaft*

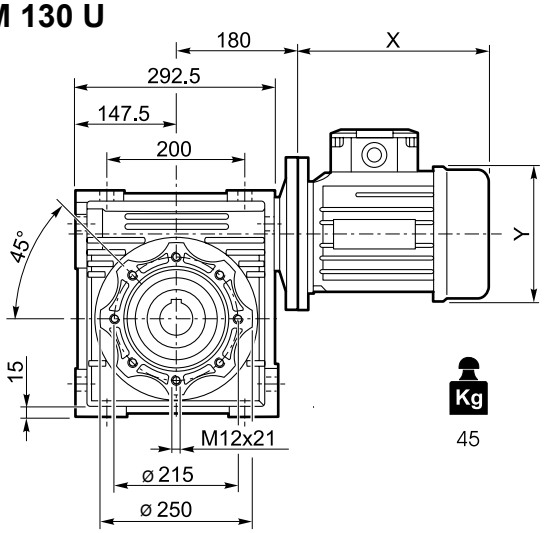
CMP ..

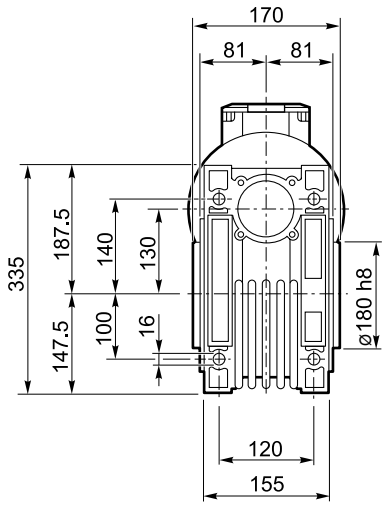


	HX	Z	Kg
080/110	41	260	23.8
090/110	36.5	314	24.5

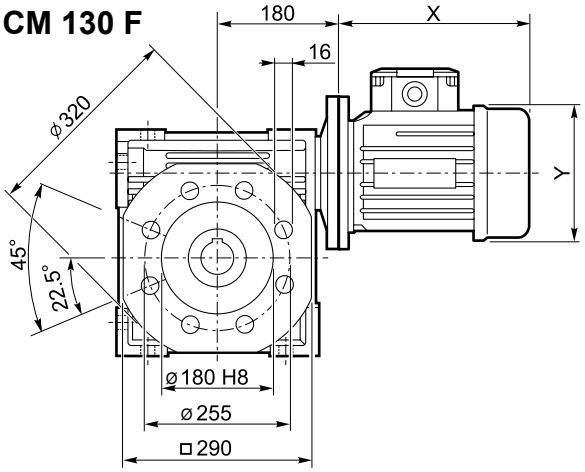
Dimensioni ***Dimensions***

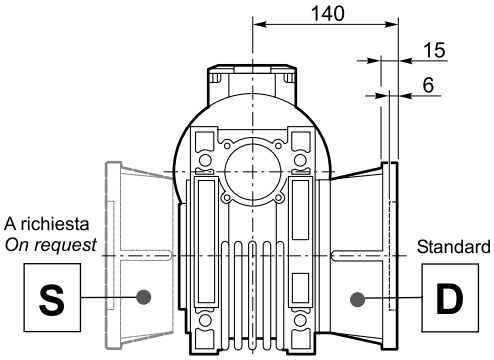
CM 130 U

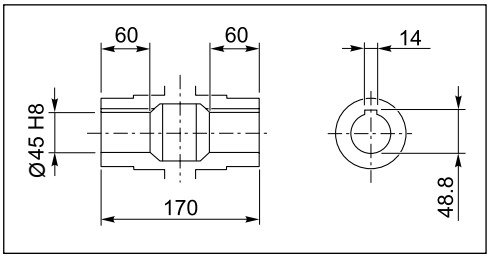




CM 130 F

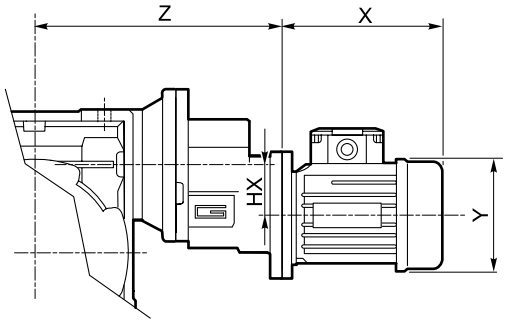




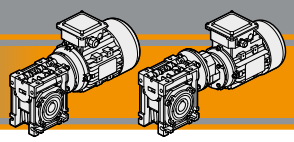


Albero lento cavo / *Hollow output shaft*

CMP ..

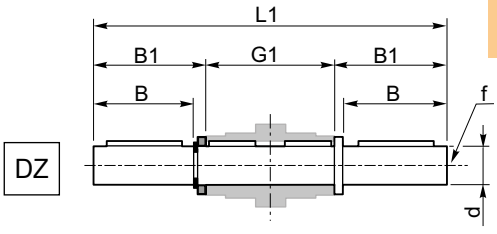


	HX	Z	Kg
080/130	41	280	47.8
090/130	36.5	334	48.5

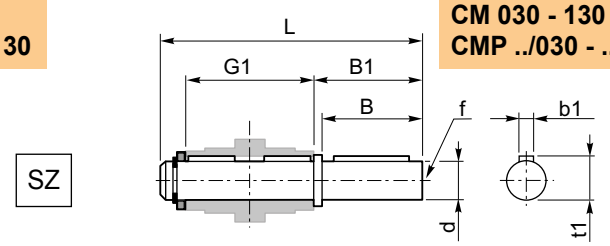


Accessori / *Accessories*

Albero lento semplice e doppio / *Single and double output shaft*



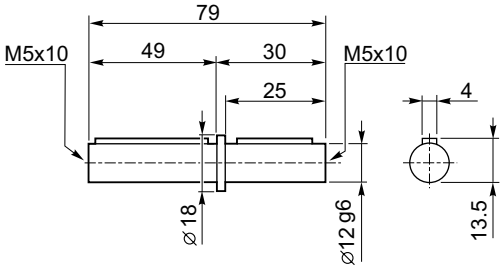
CM 030 - 130
CMP ../030 - ../130



CM 030 - 130
CMP ../030 - ../130

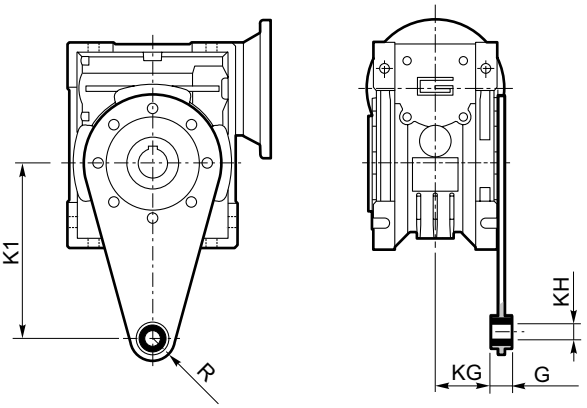
CM	CMP	d h7	B	B1	G1	L	L1	f	b1	t1
030	056/030	14	30	32.5	63	102	128	M6	5	16
040	056/040 063/040	18	40	43	78	128	164	M6	6	20.5
050	063/050 071/050	25	50	53.5	92	153	199	M10	8	28
063	063/063 071/063 080/063	25	50	53.5	112	173	219	M10	8	28
070	071/070 080/070 090/070	28	60	63.5	120	192	247	M10	8	31
075	071/075 080/075 090/075	28	60	63.5	120	192	247	M10	8	31
090	071/090 080/090 090/090	35	80	84.5	140	234	309	M12	10	38
110	080/110 090/110	42	80	84.5	155	249	324	M16	12	45
130	080/130 090/130	45	80	85	170	265	340	M16	14	48.5

CM 026



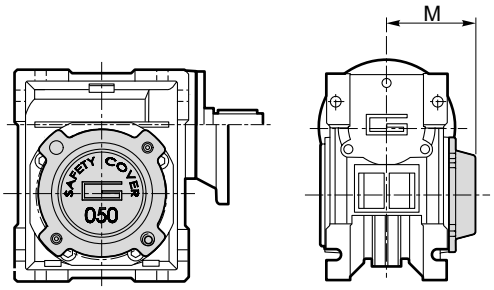
Braccio di reazione / *Torque arm*

CM	CMP	K1	G	KG	KH	R
030	056/030	85	14	23	8	15
040	056/040 063/040	100	14	31	10	18
050	063/050 071/050	100	14	38	10	18
063	063/063 071/063 080/063	150	14	47.5	10	18
070	071/070 080/070 090/070	200	25	46.5	20	30
075	071/075 080/075 090/075	200	25	46.5	20	30
090	071/090 080/090 090/090	200	25	56.5	20	30
110	080/110 090/110	250	30	62	25	35
130	080/130 090/130	250	30	69	25	35



SC - *Safety Cover*

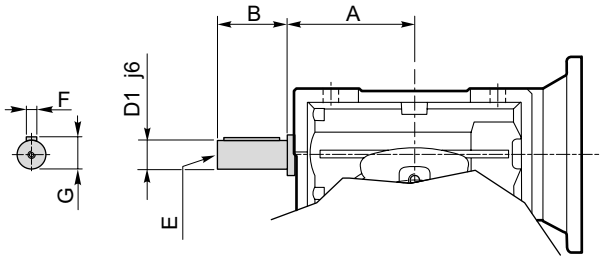
CM	CMP	M
030	056/030	47
040	056/040 063/040	54.5
050	063/050 071/050	62.5
063	063/063 071/063 080/063	73
070	071/070 080/070 090/070	75
075	071/075 080/075 090/075	79
090	071/090 080/090 090/090	94
110	080/110 090/110	102
130	080/130 090/130	117



Opzioni *Options*

VS - Vite sporgente / *Extended input shaft*

CM	CMP	A	B	D_1 j6	E	F	G
030	056/030	45	20	9	M4	3	10.2
040	056/040 063/040	53	23	11	M5	4	12.5
050	063/050 071/050	64	30	14	M6	5	16
063	063/063 071/063 080/063	75	40	19	M6	6	21.5
070	071/070 080/070 090/070	84	40	19	M6	6	21.5
075	071/075 080/075 090/075	90	50	24	M8	8	27
090	071/090 080/090 090/090	108	50	24	M8	8	27
110	080/110 090/110	135	60	28	M10	8	31
130	080/130 090/130	—	—	—	—	—	—



Costruito su richiesta
Built on request

TRANSTECNO®
the modular gearmotor

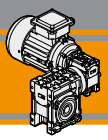
CMM

CMM

CMM Alù

Motoriduttori combinati a vite senza fine
Double reduction wormgearmotors

TRANSTECNO · GENUINE · PRODUCTS ·



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Caratteristiche tecniche

Technical features

I motoriduttori combinati a vite senza fine della serie CMM hanno le seguenti caratteristiche principali :

- Carcassa in alluminio nelle grandezze 026, 030, 040, 050, 063, 070, 075, 090 e 110. La grandezza 130 è costruita con carcassa in ghisa;
- Le grandezze 090, 110 e 130 sono fornite con cuscinetti a rulli conici sulla vite;
- Lubrificazione permanente con olio sintetico.

CMM double reduction worm gearmotors range have the following main features:

- Die-cast aluminum housing on sizes 026, 030, 040, 050, 063, 070, 075, 090 and 110. Cast iron housing on size 130;
- Double taper roller bearing on sizes 090, 110 and 130;
- Permanent synthetic oil long-life lubrication.

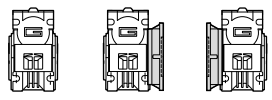
Designazione

Classification

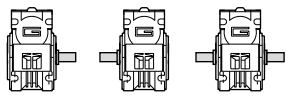
RIDUTTORE / *GEARBOX*

CMM	030/063	FD	20	71	B5	SZDX	BRSX	90	M1	US1	VS
Tipo *Type*	Grandezza *Size*	Versione *Version*	Rapporto *Ratio*	IEC	Forma costruttiva Version	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*	Pos. di montaggio Mounting position	*Esecuzione di montaggio Mounting execution*	Opzioni *Options*
CMM **CMMIS**	**026/026** **026/030** **026/040** **026/050** **030/040** **030/050** **030/063** **040/063** **040/070** **040/075** **040/090** **050/110** **063/130**	**U** **FD** **FS** **FBD** **FBS** **FLD** **FLS**	vedi tabelle- *see tables*	**56..** **—** **90..**	**B5** **B14**	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX**	**0°** **90°** **180°** **270°**	**M1** (B3) **M2** (V6) **M3** (B8) **M4** (V5) **M6** (B6) **M5** (B7)	**UB1** **UB2** **US1** **US2** **UV1** **UV2** **UC1** **UC2**	**VS1** **VS2**

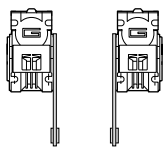
Versione Riduttore *Gearbox Version*



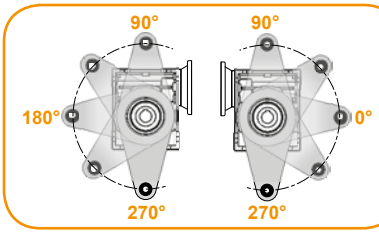
Albero di uscita *Output shaft*



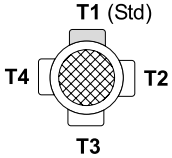
Braccio di reazione *Torque arm*



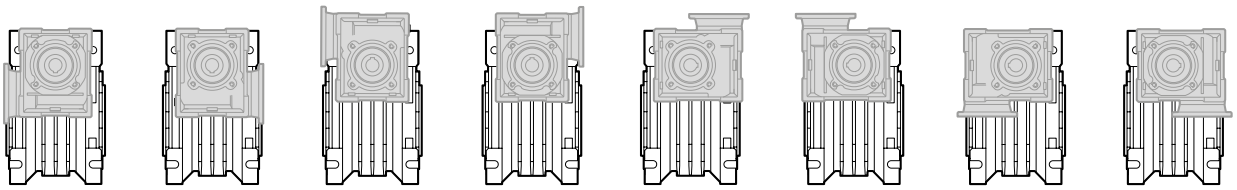
Angolo *Angle*



MOTORE CM / *CM MOTOR*

0.25kW	4p	3ph	230/400V	50Hz	T1
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*
IEC Vedi tabelle *See tables*	**2p** **4p** **6p** **8p**	**1ph** **3ph**	**230V** **230/400V**	**50Hz** **60Hz**	**T1** (Std)  **T4** **T2** **T3**

Esecuzioni di montaggio — *Mounting executions*



UB1 UB2 US1 US2 UV1 UV2 UC1 UC2

Simbologia — *Symbols*

n_1	[min^{-1}]	Velocità in ingresso / *Input speed*	M_2	[Nm]	Coppia in uscita in funzione di P_1 / *Output torque referred to P_1*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*	sf		Fattore di servizio / *Service factor*
i		Rapporto di riduzione / *Ratio*	R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
P_1	[kW]	Potenza in entrata / *Input power*	A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*

Combinazioni rapporti — *Combination ratio*

CMM 026/026 - CMM 026/030 - CMM 026/040 - CMM 026/050												
	i (i_1 x i_2)											
	150	**225**	**300**	**450**	**600**	**900**	**1200**	**1500**	**1800**	**2400**	**3000**	**3600**
i_1	10	15	10	15	20	30	40	50	60	60	60	60
i_2	15	15	30	30	30	30	30	30	30	40	50	60

CMM 030/040 - CMM 030/050 - CMM 030/063 - CMM 040/063 - CMM 040/070 - CMM 040/075 - CMM 040/090 - CMM 050/110 - CMM 063/130																
	i (i_1 x i_2)															
	75	**100**	**150**	**200**	**250**	**300**	**400**	**500**	**600**	**750**	**900**	**1200**	**1500**	**1800**	**2400**	**3000**
i_1	7.5	10	10	10	10	10	10	10	20	25	30	40	50	60	60	60
i_2	10	10	15	20	25	30	40	50	30	30	30	30	30	30	40	50

Lubrificazione

Tutti i motoriduttori nelle taglie 26, 30, 40, 50, 63, 70, 75, 90, 110 sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di monatggio e non necessitano di manutenzione. Per la taglia 130 la lubrificazione dipende dalla posizione di montaggio

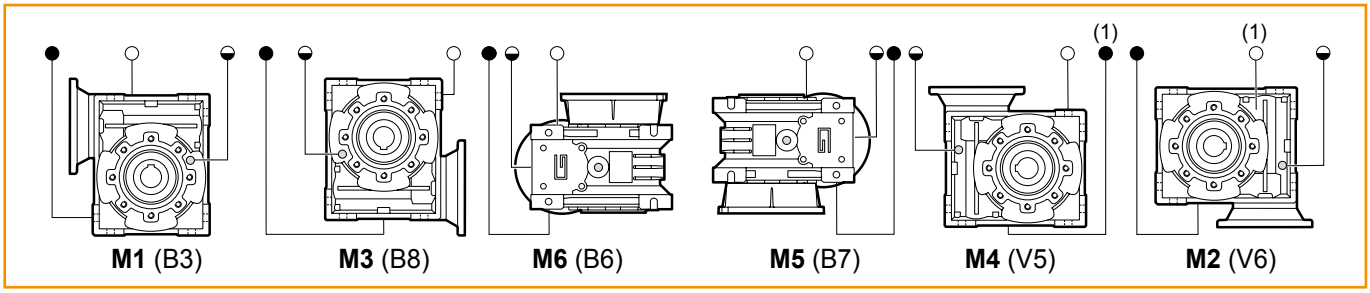
Lubrication

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors size 26, 30, 40, 50, 63, 70, 75, 90, 110 in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance. Only for size 130, the lubrication depended of mounting positions

	Quantità di olio (litri) / ***Oil quantity*** *(litres)*					
	M1 (B3)	**M3** (B8)	**M6** (B6)	**M5** (B7)	**M4** (V5)	**M2** (V6)
CM130	4.5	3.3	3.5	3.5	4.5	3.3

Lubrificato a vita
Life lubrication

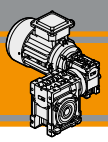
Posizioni di montaggio / *Mounting positions*



(standard)

(1): Tappo in posizione posteriore / *Plug in backside position*

◯ Sfiato e tappo di riempimento / *Breather and filling plug*
◒ Livello olio / *Oil level plug*
● Tappo di scarico / *Oil drain plug*



Dati tecnici

Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.06						
56A4 (1400 min^{-1})	**9.3**	33	0.8	150	**CMM**	**B14**
	6.2	33	0.8	225	**026/026**	**B14**
	4.7	34	0.8	300		**B14**
	3.1	34	0.8	450		**B14**
	2.3	34	0.8	600		**B14**
	1.6	34	0.8	900		**B14**
	1.2	34	0.8	1200		**B14**
	0.9	34	0.8	1500		**B14**
	0.8	34	0.8	1800		**B14**
	0.6	28	0.8	2400		**B14**
	0.5	25	0.8	3000		**B14**
	0.4	23	0.8	3600		**B14**
	9.3	34	1.1	150	**CMM**	**B14**
	6.2	48	0.8	225	**026/030**	**B14**
	4.7	50	0.8	300		**B14**
	3.1	50	0.8	450		**B14**
	2.3	50	0.8	600		**B14**
	1.6	50	0.8	900		**B14**
	1.2	50	0.8	1200		**B14**
	0.93	50	0.8	1500		**B14**
	0.78	50	0.8	1800		**B14**
	0.58	43	0.8	2400		**B14**
	0.47	38	0.8	3000		**B14**
	0.39	34	0.8	3600		**B14**
	9.3	35	2.5	150	**CMM**	**B14**
	6.2	50	1.8	225	**026/040**	**B14**
	4.7	58	1.5	300		**B14**
	3.1	82	1.1	450		**B14**
	2.3	104	0.9	600		**B14**
	1.6	113	0.8	900		**B14**
	1.2	113	0.8	1200		**B14**
	0.93	113	0.8	1500		**B14**
	0.78	113	0.8	1800		**B14**
	0.58	93	0.8	2400		**B14**
	0.47	85	0.8	3000		**B14**
	0.39	78	0.8	3600		**B14**
	9.3	37	4.4	150	**CMM**	**B14**
	6.2	52	3.1	225	**026/050**	**B14**
	4.7	59	2.7	300		**B14**
	3.1	83	1.9	450		**B14**
	2.3	105	1.5	600		**B14**
	1.6	141	1.1	900		**B14**
	1.2	174	0.9	1200		**B14**
	0.93	203	0.8	1500		**B14**
	0.78	203	0.8	1800		**B14**
	0.58	169	0.8	2400		**B14**
	0.47	156	0.8	3000		**B14**
	0.39	141	0.8	3600		**B14**
	9.3	36	2.4	150	**CMM**	**B5/B14**
	7.0	46	1.6	200	**030/040**	**B5/B14**
	5.6	55	1.2	250		**B5/B14**
	4.7	59	1.5	300		**B5/B14**
	3.5	72	1.0	400		**B5/B14**
	2.8	81	0.8	500		**B5/B14**
	2.3	105	0.9	600		**B5/B14**
	1.9	113	0.8	750		**B5/B14**
	1.6	113	0.8	900		**B5/B14**
	1.2	113	0.8	1200		**B5/B14**
	0.93	113	0.8	1500		**B5/B14**
	0.78	113	0.8	1800		**B5/B14**
	0.58	93	0.8	2400		**B5/B14**
	0.47	85	0.8	3000		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.06						
56A4 (1400 min^{-1})	**3.5**	73	1.9	400	**CMM**	**B5/B14**
	2.8	83	1.5	500	**030/050**	**B5/B14**
	2.3	107	1.5	600		**B5/B14**
	1.9	128	1.3	750		**B5/B14**
	1.6	143	1.1	900		**B5/B14**
	1.2	203	0.8	1200		**B5/B14**
	0.93	203	0.8	1500		**B5/B14**
	0.78	203	0.8	1800		**B5/B14**
	0.58	169	0.8	2400		**B5/B14**
	0.47	156	0.8	3000		**B5/B14**
	2.8	86	2.7	500	**CMM**	**B5/B14**
	2.3	111	2.8	600	**030/063**	**B5/B14**
	1.9	133	2.3	750		**B5/B14**
	1.6	148	2.1	900		**B5/B14**
	1.2	183	1.7	1200		**B5/B14**
	0.93	214	1.5	1500		**B5/B14**
	0.78	243	1.3	1800		**B5/B14**
	0.58	292	0.9	2400		**B5/B14**
	0.47	290	0.8	3000		**B5/B14**
	2.8	86	2.7	500	**CMM**	**B5/B14**
	2.3	115	2.7	600	**040/063**	**B5/B14**
	1.9	136	2.3	750		**B5/B14**
	1.6	155	2.0	900		**B5/B14**
	1.2	192	1.6	1200		**B5/B14**
	0.93	221	1.4	1500		**B5/B14**
	0.78	256	1.2	1800		**B5/B14**
	0.58	308	0.8	2400		**B5/B14**
	0.47	290	0.8	3000		**B5/B14**
	1.17	172	2.6	1200	**CMM**	**B5/B14**
	0.93	221	2.0	1500	**040/070**	**B5/B14**
	0.78	256	1.8	1800		**B5/B14**
	0.58	308	1.2	2400		**B5/B14**
	0.47	356	0.9	3000		**B5/B14**
	0.93	221	2.5	1500	**CMM**	**B5/B14**
	0.78	256	2.1	1800	**040/075**	**B5/B14**
	0.58	313	1.5	2400		**B5/B14**
	0.47	356	1.1	3000		**B5/B14**
	0.58	330	2.5	2400	**CMM**	**B5/B14**
	0.47	385	1.8	3000	**040/090**	**B5/B14**
0.09						
56B4 (1400 min^{-1})	**9.3**	53	1.6	150	**CMM**	**B14**
	6.2	74	1.2	225	**026/040**	**B14**
	4.7	87	1.0	300		**B14**
	9.3	55	2.9	150	**CMM**	**B14**
	6.2	78	2.1	225	**026/050**	**B14**
	4.7	89	1.8	300		**B14**
	3.1	125	1.3	450		**B14**
	2.3	158	1.0	600		**B14**
	19	29	2.9	75	**CMM**	**B5/B14**
	14	39	2.2	100	**030/040**	**B5/B14**
	9.3	53	1.6	150		**B5/B14**
	7.0	69	1.1	200		**B5/B14**
	4.7	88	1.0	300		**B5/B14**

Verificare sempre che la coppia M_2 utilizzata non ecceda il valore indicato nelle caselle in grigio.
Please check that the output torque M_2 does not exceed the value in the grey areas.

Dati tecnici

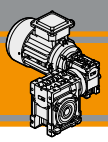
Technical data

0.09

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
56B4 (1400 min^{-1})	**19**	30	5.2	75	**CMM**	**B5/B14**
	14	39	4.0	100	**030/050**	**B5/B14**
	9.3	56	2.9	150		**B5/B14**
	7.0	70	2.0	200		**B5/B14**
	5.6	83	1.5	250		**B5/B14**
	4.7	90	1.8	300		**B5/B14**
	3.5	109	1.2	400		**B5/B14**
	2.8	124	1.0	500		**B5/B14**
	2.3	160	1.0	600		**B5/B14**
	1.9	192	0.8	750		**B5/B14**
	7.0	69	3.8	200	**CMM**	**B5/B14**
	5.6	81	2.8	250	**030/063**	**B5/B14**
	4.7	93	3.3	300		**B5/B14**
	3.5	111	2.3	400		**B5/B14**
	2.8	129	1.8	500		**B5/B14**
	2.3	166	1.9	600		**B5/B14**
	1.9	199	1.6	750		**B5/B14**
	1.6	222	1.4	900		**B5/B14**
	1.2	274	1.1	1200		**B5/B14**
	0.93	320	1.0	1500		**B5/B14**
	0.78	365	0.9	1800		**B5/B14**
	7.0	69	3.8	200	**CMM**	**B5/B14**
	5.6	81	2.8	250	**040/063**	**B5/B14**
	4.7	93	3.3	300		**B5/B14**
	3.5	111	2.3	400		**B5/B14**
	2.8	129	1.8	500		**B5/B14**
	2.3	172	1.8	600		**B5/B14**
	1.9	204	1.5	750		**B5/B14**
	1.6	232	1.3	900		**B5/B14**
	1.2	287	1.1	1200		**B5/B14**
	0.93	320	1.0	1500		**B5/B14**
	0.78	385	0.8	1800		**B5/B14**
	2.8	129	2.6	500	**CMM**	**B5/B14**
	2.3	172	2.6	600	**040/070**	**B5/B14**
	1.9	204	2.2	750		**B5/B14**
	1.6	232	2.0	900		**B5/B14**
	1.2	259	1.8	1200		**B5/B14**
	0.93	332	1.4	1500		**B5/B14**
	0.78	385	1.2	1800		**B5/B14**
	1.6	232	2.4	900	**CMM**	**B5/B14**
	1.2	287	1.9	1200	**040/075**	**B5/B14**
	0.93	332	1.6	1500		**B5/B14**
	0.78	385	1.4	1800		**B5/B14**
	0.58	470	1.0	2400		**B5/B14**
	1.2	302	3.1	1200	**CMM**	**B5/B14**
	0.93	348	2.7	1500	**040/090**	**B5/B14**
	0.78	404	2.3	1800		**B5/B14**
	0.58	496	1.6	2400		**B5/B14**
	0.47	577	1.2	3000		**B5/B14**

0.12

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
63A4 (1400 min^{-1})	**19**	39	2.1	75	**CMM**	**B5/B14**
	14	52	1.6	100	**030/040**	**B5/B14**
	9.3	71	1.2	150		**B5/B14**
	7.0	92	0.8	200		**B5/B14**
	19	40	3.9	75	**CMM**	**B5/B14**
	14	52	3.0	100	**030/050**	**B5/B14**
	9.3	74	2.2	150		**B5/B14**
	7.0	94	1.5	200		**B5/B14**
	5.6	110	1.1	250		**B5/B14**
	4.7	120	1.4	300		**B5/B14**
	3.5	146	0.9	400		**B5/B14**
	7.0	92	2.8	200	**CMM**	**B5/B14**
	5.6	108	2.1	250	**030/063**	**B5/B14**
	4.7	124	2.5	300		**B5/B14**
	3.5	149	1.8	400		**B5/B14**
	2.8	172	1.3	500		**B5/B14**
	2.3	221	1.4	600		**B5/B14**
	1.9	265	1.2	750		**B5/B14**
	1.6	296	1.0	900		**B5/B14**
	1.2	365	0.8	1200		**B5/B14**
	7.0	92	2.8	200	**CMM**	**B5/B14**
	5.6	108	2.1	250	**040/063**	**B5/B14**
	4.7	124	2.5	300		**B5/B14**
	3.5	149	1.8	400		**B5/B14**
	2.8	172	1.3	500		**B5/B14**
	2.3	230	1.3	600		**B5/B14**
	1.9	273	1.1	750		**B5/B14**
	1.6	309	1.0	900		**B5/B14**
	1.2	383	0.8	1200		**B5/B14**
	3.5	149	2.6	400	**CMM**	**B5/B14**
	2.8	172	2.0	500	**040/070**	**B5/B14**
	2.3	230	2.0	600		**B5/B14**
	1.9	273	1.7	750		**B5/B14**
	1.6	309	1.5	900		**B5/B14**
	1.2	383	1.2	1200		**B5/B14**
	0.93	442	1.0	1500		**B5/B14**
	0.78	513	0.9	1800		**B5/B14**
	2.8	172	2.3	500	**CMM**	**B5/B14**
	2.3	230	2.4	600	**040/075**	**B5/B14**
	1.9	273	2.0	750		**B5/B14**
	1.6	309	1.8	900		**B5/B14**
	1.2	383	1.4	1200		**B5/B14**
	0.93	442	1.2	1500		**B5/B14**
	0.78	513	1.1	1800		**B5/B14**
	1.6	325	2.9	900	**CMM**	**B5/B14**
	1.2	402	2.3	1200	**040/090**	**B5/B14**
	0.93	464	2.0	1500		**B5/B14**
	0.78	538	1.8	1800		**B5/B14**
	0.58	661	1.2	2400		**B5/B14**
	0.47	769	0.9	3000		**B5/B14**
	0.78	566	2.8	1800	**CMM**	**B5/B14**
	0.58	719	2.0	2400	**050/110**	**B5/B14**
	0.47	855	1.5	3000		**B5/B14**



Dati tecnici

Technical data

0.18

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
63B4 (1400 min^{-1})	**19**	59	1.4	75	**CMM**	**B5/B14**
	14	77	1.1	100	**030/040**	**B5/B14**
	9.3	107	0.8	150		**B5/B14**
	19	59	2.6	75	**CMM**	**B5/B14**
	14	78	2.0	100	**030/050**	**B5/B14**
	9.3	111	1.4	150		**B5/B14**
	7.0	140	1.0	200		**B5/B14**
	5.6	165	0.7	250		**B5/B14**
	4.7	179	0.9	300		**B5/B14**
	19	60	4.8	75	**CMM**	**B5/B14**
	14	79	3.6	100	**030/063**	**B5/B14**
	9.3	110	2.8	150		**B5/B14**
	7.0	138	1.9	200		**B5/B14**
	5.6	162	1.4	250		**B5/B14**
	4.7	186	1.7	300		**B5/B14**
	3.5	223	1.2	400		**B5/B14**
	2.8	258	0.9	500		**B5/B14**
	2.3	332	0.9	600		**B5/B14**
	19	61	4.7	75	**CMM**	**B5/B14**
	14	79	3.6	100	**040/063**	**B5/B14**
	9.3	110	2.8	150		**B5/B14**
	7.0	138	1.9	200		**B5/B14**
	5.6	162	1.4	250		**B5/B14**
	4.7	186	1.7	300		**B5/B14**
	3.5	223	1.2	400		**B5/B14**
	2.8	258	0.9	500		**B5/B14**
	2.3	345	0.9	600		**B5/B14**
	7.0	140	2.8	200	**CMM**	**B5/B14**
	5.6	168	2.0	250	**040/070**	**B5/B14**
	4.7	186	2.4	300		**B5/B14**
	3.5	223	1.7	400		**B5/B14**
	2.8	258	1.3	500		**B5/B14**
	2.3	345	1.3	600		**B5/B14**
	1.9	409	1.1	750		**B5/B14**
	1.6	464	1.0	900		**B5/B14**
	5.6	168	2.4	250	**CMM**	**B5/B14**
	4.7	186	2.9	300	**040/075**	**B5/B14**
	3.5	227	2.1	400		**B5/B14**
	2.8	258	1.6	500		**B5/B14**
	2.3	345	1.6	600		**B5/B14**
	1.9	409	1.3	750		**B5/B14**
	1.6	464	1.2	900		**B5/B14**
	1.2	575	1.0	1200		**B5/B14**
	2.8	278	2.5	500	**CMM**	**B5/B14**
	2.3	362	2.6	600	**040/090**	**B5/B14**
	1.9	429	2.2	750		**B5/B14**
	1.6	487	1.9	900		**B5/B14**
	1.2	603	1.6	1200		**B5/B14**
	0.93	696	1.4	1500		**B5/B14**
	0.78	808	1.2	1800		**B5/B14**
	1.2	632	2.5	1200	**CMM**	**B5/B14**
	0.93	743	2.1	1500	**050/110**	**B5/B14**
	0.78	849	1.9	1800		**B5/B14**
	0.58	1079	1.3	2400		**B5/B14**
	0.47	1282	1.0	3000		**B5/B14**
	0.93	802	2.6	1500	**CMM**	**B5/B14**
	0.78	919	2.2	1800	**063/110**	**B5/B14**
	0.58	1170	1.6	2400		**B5/B14**
	0.47	1416	1.1	3000		**B5/B14**

0.22

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
63C4 (1400 min^{-1})	**19**	72	1.2	75	**CMM**	**B5/B14**
	14	95	0.9	100	**030/040**	**B5/B14**
	19	73	2.1	75	**CMM**	**B5/B14**
	14	96	1.6	100	**030/050**	**B5/B14**
	9.3	136	1.2	150		**B5/B14**
	7.0	171	0.8	200		**B5/B14**
	19	74	3.9	75	**CMM**	**B5/B14**
	14	97	3.0	100	**030/063**	**B5/B14**
	9.3	134	2.3	150		**B5/B14**
	7.0	169	1.5	200		**B5/B14**
	5.6	199	1.2	250		**B5/B14**
	4.7	227	1.4	300		**B5/B14**
	3.5	272	1.0	400		**B5/B14**
	19	75	3.9	75	**CMM**	**B5/B14**
	14	97	3.0	100	**040/063**	**B5/B14**
	9.3	134	2.3	150		**B5/B14**
	7.0	169	1.5	200		**B5/B14**
	5.6	199	1.2	250		**B5/B14**
	4.7	227	1.4	300		**B5/B14**
	3.5	272	1.0	400		**B5/B14**
	7.0	171	2.3	200	**CMM**	**B5/B14**
	5.6	205	1.7	250	**040/070**	**B5/B14**
	4.7	227	2.0	300		**B5/B14**
	3.5	272	1.4	400		**B5/B14**
	2.8	315	1.1	500		**B5/B14**
	2.3	421	1.1	600		**B5/B14**
	1.9	500	0.9	750		**B5/B14**
	5.6	205	2.0	250	**CMM**	**B5/B14**
	4.7	227	2.4	300	**040/075**	**B5/B14**
	3.5	277	1.7	400		**B5/B14**
	2.8	315	1.3	500		**B5/B14**
	2.3	421	1.3	600		**B5/B14**
	1.9	500	1.1	750		**B5/B14**
	1.6	567	1.0	900		**B5/B14**
	3.5	292	2.8	400	**CMM**	**B5/B14**
	2.8	340	2.0	500	**040/090**	**B5/B14**
	2.3	442	2.1	600		**B5/B14**
	1.9	525	1.8	750		**B5/B14**
	1.6	596	1.6	900		**B5/B14**
	1.2	737	1.3	1200		**B5/B14**
	0.93	851	1.1	1500		**B5/B14**
	0.78	987	1.0	1800		**B5/B14**
	1.9	547	2.9	750	**CMM**	**B5/B14**
	1.6	622	2.6	900	**050/110**	**B5/B14**
	1.2	791	1.8	1200		**B5/B14**
	0.93	908	1.8	1500		**B5/B14**
	0.78	1037	1.5	1800		**B5/B14**
	0.58	1318	1.1	2400		**B5/B14**
	1.2	832	2.5	1200	**CMM**	**B5/B14**
	0.93	981	2.1	1500	**063/130**	**B5/B14**
	0.78	1123	1.8	1800		**B5/B14**
	0.58	1430	1.3	2400		**B5/B14**
	0.47	1730	0.9	3000		**B5/B14**

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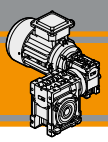
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.25						
71A4 (1400 min^{-1})	**19**	85	3.4	75	**CMM**	**B5/B14**
	14	110	2.6	100	**040/063**	**B5/B14**
	9.3	153	2.0	150		**B5/B14**
	7.0	192	1.4	200		**B5/B14**
	5.6	226	1.0	250		**B5/B14**
	4.7	258	1.2	300		**B5/B14**
	3.5	309	0.8	400		**B5/B14**
	19	86	4.9	75	**CMM**	**B5/B14**
	14	112	3.7	100	**040/070**	**B5/B14**
	9.3	155	2.8	150		**B5/B14**
	7.0	195	2.0	200		**B5/B14**
	5.6	233	1.5	250		**B5/B14**
	4.7	258	1.8	300		**B5/B14**
	3.5	309	1.2	400		**B5/B14**
	2.8	358	0.9	500		**B5/B14**
	2.3	479	0.9	600		**B5/B14**
	7.0	198	2.4	200	**CMM**	**B5/B14**
	5.6	233	1.8	250	**040/075**	**B5/B14**
	4.7	258	2.1	300		**B5/B14**
	3.5	315	1.5	400		**B5/B14**
	2.8	358	1.1	500		**B5/B14**
	2.3	479	1.1	600		**B5/B14**
	1.9	568	1.0	750		**B5/B14**
	1.6	645	0.8	900		**B5/B14**
	5.6	247	2.9	250	**CMM**	**B5/B14**
	4.7	271	3.5	300	**040/090**	**B5/B14**
	3.5	332	2.4	400		**B5/B14**
	2.8	387	1.8	500		**B5/B14**
	2.3	503	1.9	600		**B5/B14**
	1.9	596	1.6	750		**B5/B14**
	1.6	677	1.4	900		**B5/B14**
	1.2	838	1.1	1200		**B5/B14**
	0.93	967	1.0	1500		**B5/B14**
	2.8	420	3.0	500	**CMM**	**B5/B14**
	2.3	517	3.1	600	**050/110**	**B5/B14**
	1.9	622	2.6	750		**B5/B14**
	1.6	707	2.3	900		**B5/B14**
	1.2	878	1.8	1200		**B5/B14**
	0.93	1031	1.5	1500		**B5/B14**
	0.78	1179	1.4	1800		**B5/B14**
	0.58	1498	1.0	2400		**B5/B14**
	1.2	945	2.2	1200	**CMM**	**B5/B14**
	0.93	1114	1.9	1500	**063/130**	**B5/B14**
	0.78	1276	1.6	1800		**B5/B14**
	0.58	1624	1.1	2400		**B5/B14**
	0.47	1966	0.8	3000		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.37						
71B4 (1400 min^{-1})	**19**	125	2.3	75	**CMM**	**B5/B14**
	14	163	1.8	100	**040/063**	**B5/B14**
	9.3	226	1.3	150		**B5/B14**
	7.0	284	0.9	200		**B5/B14**
	19	127	3.3	75	**CMM**	**B5/B14**
	14	165	2.5	100	**040/070**	**B5/B14**
	9.3	229	1.9	150		**B5/B14**
	7.0	288	1.4	200		**B5/B14**
	5.6	345	1.0	250		**B5/B14**
	4.7	382	1.2	300		**B5/B14**
	9.3	232	2.3	150	**CMM**	**B5/B14**
	7.0	293	1.6	200	**040/075**	**B5/B14**
	5.6	345	1.2	250		**B5/B14**
	4.7	382	1.4	300		**B5/B14**
	3.5	466	1.0	400		**B5/B14**
	7.0	305	2.6	200	**CMM**	**B5/B14**
	5.6	366	1.9	250	**040/090**	**B5/B14**
	4.7	401	2.4	300		**B5/B14**
	3.5	492	1.7	400		**B5/B14**
	2.8	572	1.2	500		**B5/B14**
	2.3	744	1.3	600		**B5/B14**
	1.9	882	1.1	750		**B5/B14**
	1.6	1002	0.9	900		**B5/B14**
	5.6	386	3.3	250	**CMM**	**B5/B14**
	4.7	412	3.9	300	**050/110**	**B5/B14**
	3.5	523	2.8	400		**B5/B14**
	2.8	622	2.0	500		**B5/B14**
	2.3	766	2.1	600		**B5/B14**
	1.9	921	1.7	750		**B5/B14**
	1.6	1047	1.5	900		**B5/B14**
	1.2	1299	1.2	1200		**B5/B14**
	0.93	1526	1.0	1500		**B5/B14**
	0.78	1745	0.9	1800		**B5/B14**
	1.9	974	2.1	750	**CMM**	**B5/B14**
	1.6	1124	1.8	900	**063/130**	**B5/B14**
	1.2	1399	1.5	1200		**B5/B14**
	0.93	1649	1.3	1500		**B5/B14**
	0.78	1889	1.1	1800		**B5/B14**
0.55						
71C4 (1400 min^{-1})	**19**	186	1.5	75	**CMM**	**B5/B14**
	14	243	1.2	100	**040/063**	**B5/B14**
	9.3	336	0.9	150		**B5/B14**
	19	189	2.2	75	**CMM**	**B5/B14**
	14	246	1.7	100	**040/070**	**B5/B14**
	9.3	340	1.3	150		**B5/B14**
	7.0	429	0.9	200		**B5/B14**
	19	189	2.7	75	**CMM**	**B5/B14**
	14	246	2.0	100	**040/075**	**B5/B14**
	9.3	345	1.5	150		**B5/B14**
	7.0	435	1.1	200		**B5/B14**
	4.7	567	1.0	300		**B5/B14**
	9.3	355	2.5	150	**CMM**	**B5/B14**
	7.0	454	1.8	200	**040/090**	**B5/B14**
	5.6	544	1.3	250		**B5/B14**
	4.7	596	1.6	300		**B5/B14**
	3.5	731	1.1	400		**B5/B14**
	2.3	1106	0.9	600		**B5/B14**



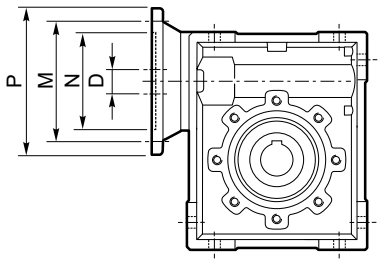
Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.55						
71C4 (1400 min^{-1})	**7.0**	472	3.0	200	**CMM**	**B5/B14**
	5.6	574	2.3	250	**050/110**	**B5/B14**
	4.7	612	2.6	300		**B5/B14**
	3.5	778	1.9	400		**B5/B14**
	2.8	925	1.4	500		**B5/B14**
	2.3	1138	1.4	600		**B5/B14**
	1.9	1369	1.2	750		**B5/B14**
	1.6	1556	1.0	900		**B5/B14**
	3.5	813	2.2	400	**CMM**	**B5/B14**
	2.8	984	1.6	500	**063/130**	**B5/B14**
	2.3	1203	1.7	600		**B5/B14**
	1.9	1449	1.4	750		**B5/B14**
	1.6	1671	1.2	900		**B5/B14**
	1.2	2080	1.0	1200		**B5/B14**
80A4 (1400 min^{-1})	**19**	198	6.7	75	**CMM**	**B5/B14**
	14	258	5.2	100	**050/110**	**B5/B14**
	9.3	364	4.1	150		**B5/B14**
	7.0	472	3.0	200		**B5/B14**
	5.6	574	2.3	250		**B5/B14**
	4.7	612	2.6	300		**B5/B14**
	3.5	778	1.9	400		**B5/B14**
	2.8	925	1.4	500		**B5/B14**
	2.3	1138	1.4	600		**B5/B14**
	1.9	1369	1.2	750		**B5/B14**
	1.6	1556	1.0	900		**B5/B14**
	3.5	813	2.2	400	**CMM**	**B5/B14**
	2.8	984	1.6	500	**063/130**	**B5/B14**
	2.3	1203	1.7	600		**B5/B14**
	1.9	1449	1.4	750		**B5/B14**
	1.6	1671	1.2	900		**B5/B14**
	1.2	2080	1.0	1200		**B5/B14**
0.75						
80B4 (1400 min^{-1})	**19**	270	4.9	75	**CMM**	**B5/B14**
	14	352	3.8	100	**050/110**	**B5/B14**
	9.3	496	3.0	150		**B5/B14**
	7.0	644	2.2	200		**B5/B14**
	5.6	783	1.7	250		**B5/B14**
	4.7	835	1.9	300		**B5/B14**
	3.5	1061	1.4	400		**B5/B14**
	2.8	1261	1.0	500		**B5/B14**
	2.3	1552	1.0	600		**B5/B14**
	1.9	1866	0.9	750		**B5/B14**
	7.0	660	2.7	200	**CMM**	**B5/B14**
	5.6	803	2.0	250	**063/130**	**B5/B14**
	4.7	871	2.4	300		**B5/B14**
	3.5	1109	1.6	400		**B5/B14**
	2.8	1342	1.2	500		**B5/B14**
	2.3	1641	1.3	600		**B5/B14**
	1.9	1975	1.0	750		**B5/B14**
	1.6	2279	0.9	900		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.1						
80C4 (1400 min^{-1})	**19**	397	3.4	75	**CMM**	**B5/B14**
	14	517	2.6	100	**050/110**	**B5/B14**
	9.3	727	2.0	150		**B5/B14**
	7.0	944	1.5	200		**B5/B14**
	5.6	1148	1.1	250		**B5/B14**
	4.7	1225	1.3	300		**B5/B14**
	3.5	1556	0.9	400		**B5/B14**
	7.0	968	1.9	200	**CMM**	**B5/B14**
	5.6	1178	1.4	250	**063/130**	**B5/B14**
	4.7	1278	1.6	300		**B5/B14**
	3.5	1626	1.1	400		**B5/B14**
	2.3	2407	0.9	600		**B5/B14**
90S4 (1400 min^{-1})	**19**	406	4.1	75	**CMM**	**B5/B14**
	14	529	3.2	100	**063/130**	**B5/B14**
	9.3	745	2.6	150		**B5/B14**
	7.0	968	1.9	200		**B5/B14**
	5.6	1178	1.4	250		**B5/B14**
	4.7	1278	1.6	300		**B5/B14**
	3.5	1626	1.1	400		**B5/B14**
	2.3	2407	0.9	600		**B5/B14**
1.5						
90L4 (1400 min^{-1})	**19**	554	3.0	75	**CMM**	**B5/B14**
	14	722	2.3	100	**063/130**	**B5/B14**
	9.3	1016	1.9	150		**B5/B14**
	7.0	1320	1.4	200		**B5/B14**
	5.6	1606	1.0	250		**B5/B14**
	4.7	1742	1.2	300		**B5/B14**
1.85						
90LB4 (1400 min^{-1})	**19**	683	2.5	75	**CMM**	**B5/B14**
	14	890	1.9	100	**063/130**	**B5/B14**
	9.3	1254	1.5	150		**B5/B14**
	7.0	1628	1.1	200		**B5/B14**
	4.7	2149	1.0	300		**B5/B14**

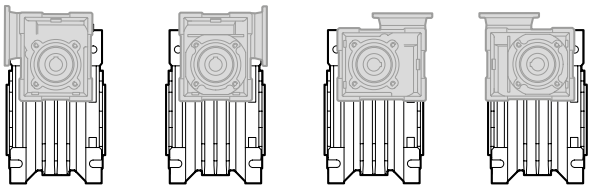
Motori applicabili

IEC Motor adapters



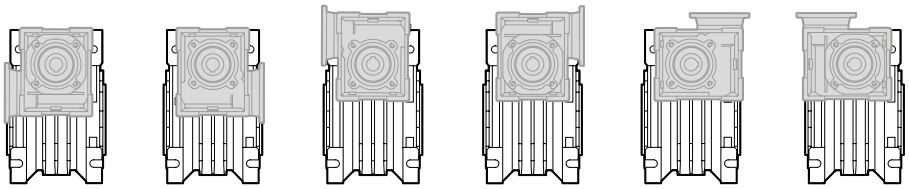
N.B.
Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.
Grey areas indicate motor inputs available on each size of unit.

B/BS = Boccola di riduzione in acciaio
B/BS = Metal shaft sleeve



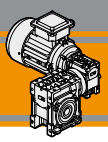
US1 **US2** **UV1** **UV2**

CMM	IEC	N	M	P	D	i_1						
						10	15	20	30	40	50	60
026/026	**56B14**	50	65	80	9							



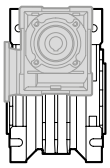
UB1 **UB2** **US1** **US2** **UV1** **UV2**

CMM	IEC	N	M	P	D	i_1						
						10	15	20	30	40	50	60
026/030 **026/040** **026/050**	**56B14**	50	65	80	9							

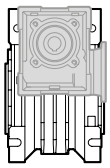


Motori applicabili

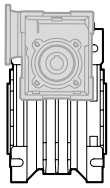
IEC Motor adapters



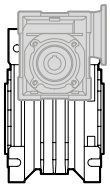
UB1



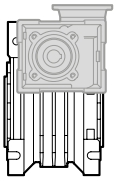
UB2



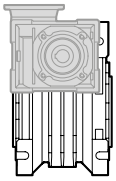
US1



US2

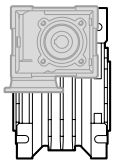


UV1

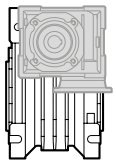


UV2

CMM	IEC	N	M	P	D	i_1								
						7.5	10	15	20	25	30	40	50	60
030/040 030/050 030/063	63B5	95	115	140	11									
	63B14	60	75	90										
	56B5	80	100	120	9	B	B	B	B	B	B	B	B	
	56B14	50	65	80										
040/063 040/070 040/075 040/090	71B5	110	130	160	14									
	71B14	70	85	105										
	63B5	95	115	140	11	B	B	B	B	B	B	B		
	63B14	60	75	90										
	56B5	80	100	120	9	BS	BS	BS	BS	BS	BS	BS	B	B
	56B14	50	65	80										
050/110	80B5	130	165	200	19									
	80B14	80	100	120										
	71B5	110	130	160	14	B	B	B	B	B	B			
	71B14	70	85	105										
	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	B	B	B
	63B14	60	75	90										
063/130	90B5	130	165	200	24									
	90B14	95	115	140										
	80B5	130	165	200	19	B	B	B	B	B	B			
	80B14	80	100	120										
	71B5	110	130	160	14	BS	BS	BS	BS	BS	BS	B	B	B
	71B14	70	85	105										
	63B5	95	115	140	11							BS	BS	BS



UC1



UC2

CMM	IEC	N	M	P	D	i_1								
						7.5	10	15	20	25	30	40	50	60
030/040 030/050	63B14	60	75	90	11									
	56B5	80	100	120	9	B	B	B	B	B	B	B	B	
	56B14	50	65	80										
030/063	63B5	95	115	140	11									
	63B14	60	75	90										
	56B5	80	100	120	9	B	B	B	B	B	B	B		
	56B14	50	65	80										
040/063 040/070 040/075 040/090	71B5	110	130	160	14									
	71B14	70	85	105										
	63B5	95	115	140	11	B	B	B	B	B	B	B		
	63B14	60	75	90										
	56B5	80	100	120	9	BS	BS	BS	BS	BS	BS	BS	B	B
	56B14	50	65	80										
050/110	80B14	80	100	120	19									
	71B5	110	130	160	14	B	B	B	B	B	B			
	71B14	70	85	105										
	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	B	B	B
	63B14	60	75	90										
063/130	90B14	95	115	140	24									
	80B14	80	100	120	19	B	B	B	B	B	B			
	71B5	110	130	160	14	BS	BS	BS	BS	BS	BS	B	B	B
	71B14	70	85	105										
	63B5	95	115	140	11							BS	BS	BS

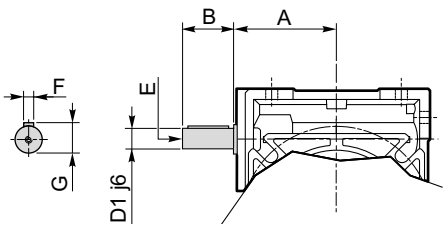
Dimensioni — *Dimensions*

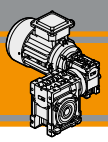
	CMM..U - CMM..F - CMM..FB - CMM..FL																
	A	C	D H8	E	F	G	G1	H	H1	I	I1	K	L	M	N h8	N1	N2
026/026	45	70	12	83	22	47.5	50	35	34	26	26	34	42	55	45	22.5	21
026/030	54	80	14	97	32	47.5	63	40	34	30	26	44	56	65	55	29	21
026/040	70	100	18	121.5	43	47.5	78	50	34	40	26	60	71	75	60	36.5	21
026/050	80	120	25	144	49	47.5	92	60	34	50	26	70	85	85	70	43.5	21

	CMM..U - CMM..F - CMM..FB - CMM..FL													
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg
026/026	6	—	37	49	49	5	15	21	76	7	—	4	13.8	1.6
026/030	6.5	75	44	57	49	5.5	22	27	81	M6x10(n.4)	90°	5	16.3	2.4
026/040	6.5	87	55	71.5	49	6.5	26	35	91.5	M6x8(n.4)	45°	6	20.8	3.5
026/050	8.5	98	64	84	49	7	30	40	100.5	M8x10(n.4)	45°	8	28.3	5.0

		CMM..F								CMM..FB								CMM..FL							
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ
026/026	45°	45	6	4.5	55-69	40	6.5(n.4)	75	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
026/030	45°	54.5	6	4	68	50	6.5(n.4)	80	70								—								
026/040	45°	67	7.5	4.5	80-95	60	9(n.4)	110	95	80	8.5	5	115-125	95	9.5(n.4)	140	112	97	7.5	4.5	80-95	60	9(n.4)	110	95
026/050	45°	90	9	5	90-110	70	11(n.4)	125	110	89	9	5	130-145	110	9.5(n.4)	160	132	120	9	5	90-110	70	11(n.4)	125	110

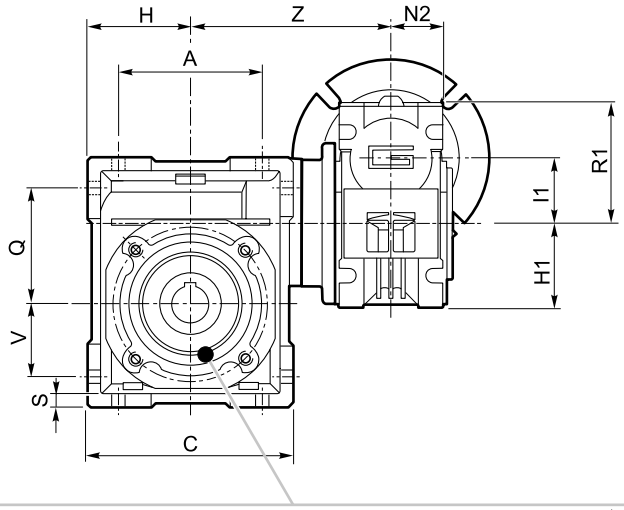
	CMMIS					
	A	B	D1 j6	E	F	M
026/026 026/030 026/040 026/050	45	20	9	M4	3	10.2

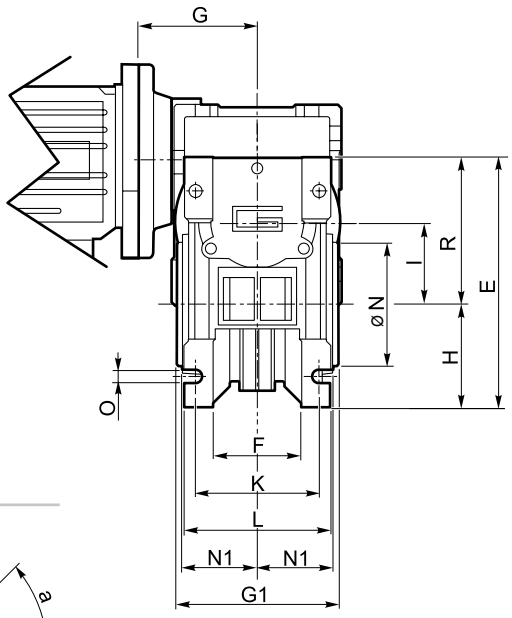


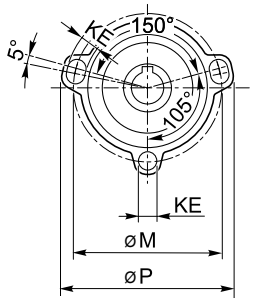


Dimensioni ***Dimensions***

CMM026/..U







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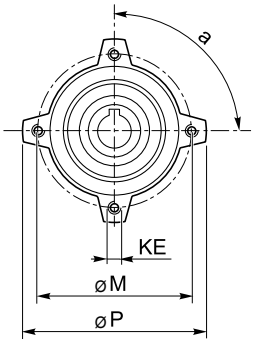

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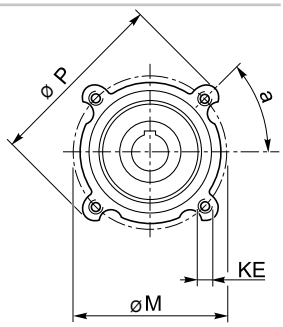
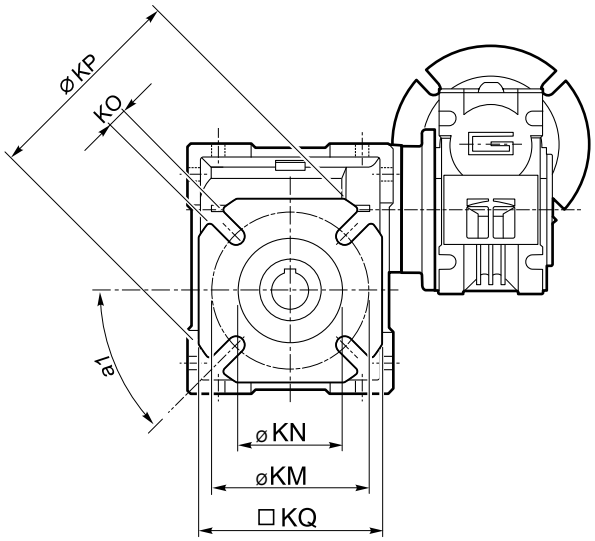
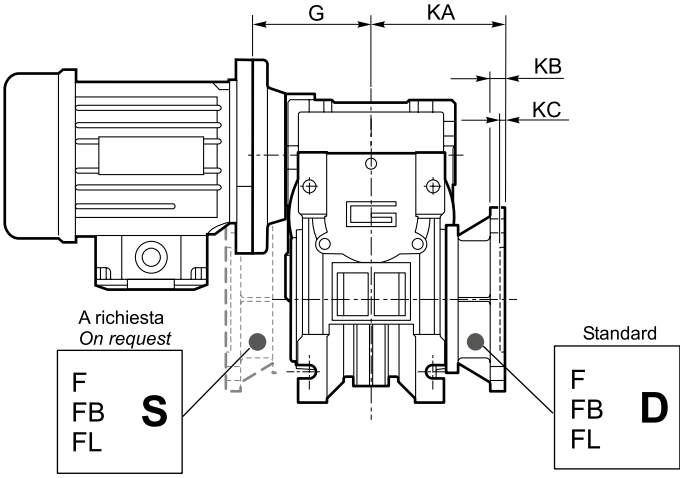
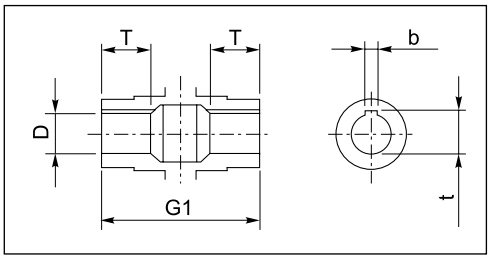


..026/040
..026/050



CMM026/..F
CMM026/..FB
CMM026/..FL





Albero lento cavo / *Hollow output shaft*

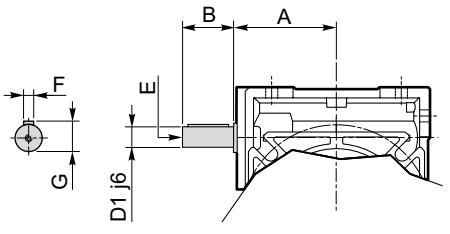
Dimensioni — *Dimensions*

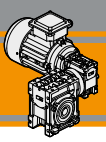
	CMM.. - CMM..F - CMM..FB - CMM..FL																
	A	C	D H8	E	F	G	G1	H	H1	I	I1	K	L	M	N h8	N1	N2
030/040	70	100	18	121.5	43	55	78	50	40	40	30	60	71	75	60	36.5	29
030/050	80	120	25	144	49	55	92	60	40	50	30	70	85	85	70	43.5	29
030/063	100	144	25	174	67	55	112	72	40	63	30	85	104	95	80	53	29
040/063	100	144	25	174	67	55	112	72	50	63	40	85	104	95	80	53	36.5
040/070	110	160	28	195	64	70	120	80	50	70	40	90	104	115	95	57	36.5
040/075	120	172	28	205	72	70	120	86	50	75	40	90	112	115	95	57	36.5
040/090	140	208	35	238	74	70	140	103	50	90	40	100	130	130	110	67	36.5
050/110	170	252.5	42	295	—	80	155	127.5	60	110	50	115	144	165	130	74	43.5
063/130	200	292.5	45	335	—	95	170	147.5	72	130	63	120	155	215	180	81	53

	CMM.. - CMM..F - CMM..FB - CMM..FL													
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg
030/040	6.5	87	55	71.5	57	6.5	26	35	122	M6x8(n.4)	45°	6	20.8 (21.8)	3.9
030/050	8.5	98	64	84	57	7	30	40	132	M8x14(n.4)	45°	8	28.3 (27.3)	5.0
030/063	8.5	110	80	102	57	8	36	50	145	M8x10(n.8)	45°	8	28.3	7.5
040/063	8.5	110	80	102	71.5	8	36	50	155.5	M8x10(n.8)	45°	8	28.3	9.2
040/070	9	130	91	115	71.5	9	40	55	160	M8x14(n.8)	45°	8	31.3	10.5
040/075	11	140	93	119	71.5	10	40	60	165	M8x14(n.8)	45°	8	31.3	12.0
040/090	13	160	102	135	71.5	11	45	70	182	M10x18(n.8)	45°	10	38.3	15.6
050/110	14	200	125	167.5	84	14	50	85	225	M10x18(n.8)	45°	12	45.3	30.2
063/130	16	250	140	187.5	102	15	60	100	245	M12x21(n.8)	45°	14	48.8	55.0

		CMM..F								CMM..FB								CMM..FL							
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ
030/040	45°	67	7.5	4	80-95	60	9(n.4)	110	95	80	8.5	5	115-125	95	9.5(n.4)	140	112	97	7.5	4.5	80-95	60	9(n.4)	110	95
030/050	45°	90	9	5	90-110	70	11(n.4)	125	110	89	9	5	130-145	110	9.5(n.4)	160	132	120	9	5	90-110	70	11(n.4)	125	110
030/063	45°	82	10	6	150-160	115	11(n.4)	180	142	98	10	5	165-180	130	11(n.4)	200	160	112	10	6	150-160	115	11(n.4)	180	142
040/063	45°	82	10	6	150-160	115	11(n.4)	180	142	98	10	5	165-180	130	11(n.4)	200	160	112	10	6	150-160	115	11(n.4)	180	142
040/070	45°	111	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
040/075	45°	111	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
040/090	45°	111	13	6	175-190	152	14(n.4)	210	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
050/110	45°	131	15	6	230	170	14(n.8)	280	260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
063/130	22.5°	140	15	6	255	180	16(n.8)	320	290	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

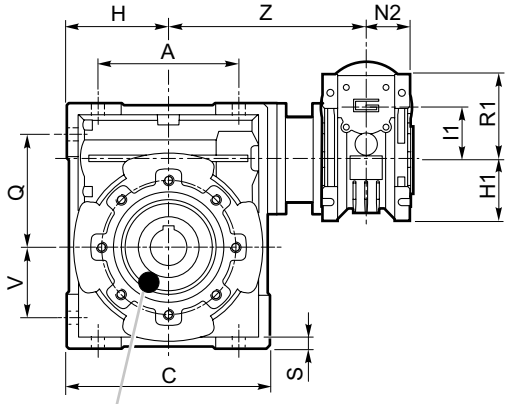
	CMMIS					
	A	B	D1 j6	E	F	M
030/040 030/050 030/063	51	20	9	M4	3	10.2
040/063 040/070 040/075 040/090	66	23	11	M5	4	12.5
050/110	76	30	14	M6	5	16
063/130	94.5	40	19	M6	6	21.5

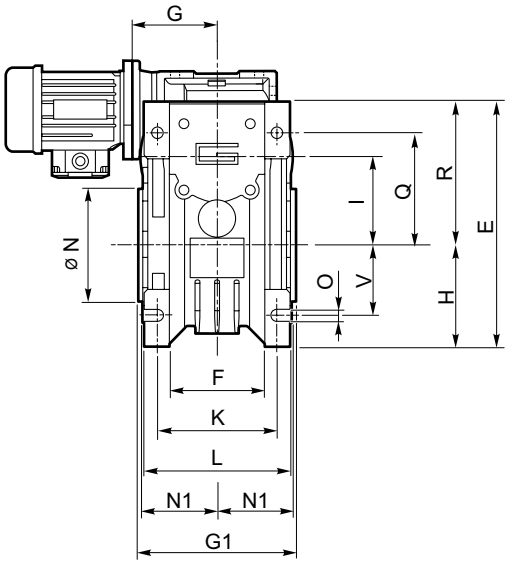


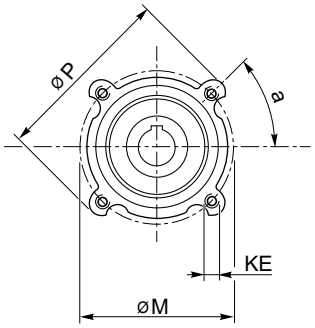


Dimensioni ***Dimensions***

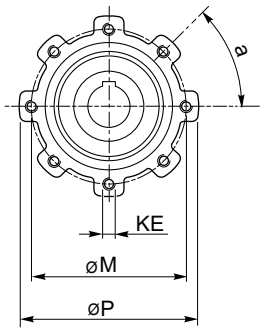
CMM..U



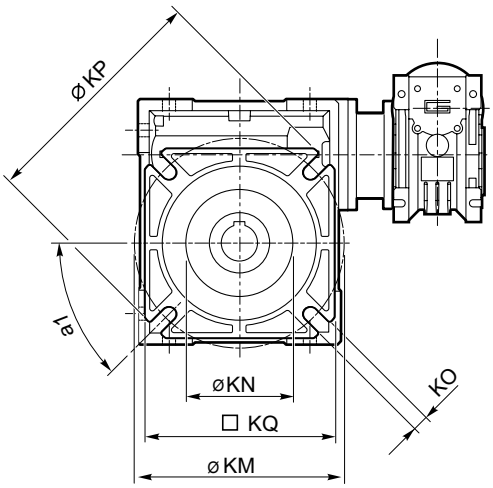




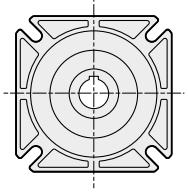
..030/040
..030/050



..030/063 ..040/063
..040/070 ..040/075
..040/090 ..050/110
..063/130

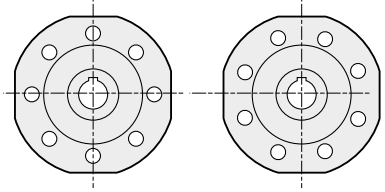


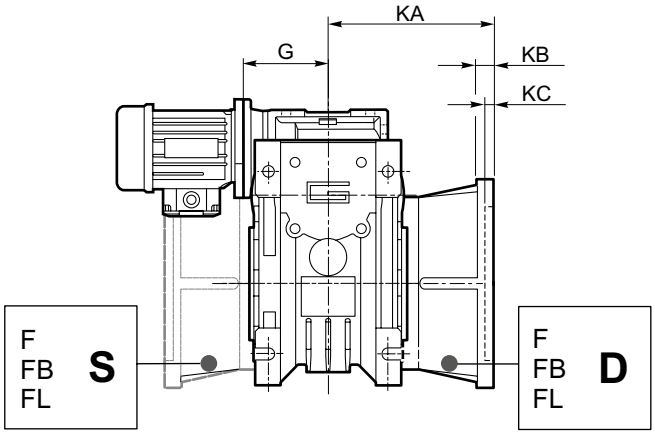
CMM..F **(../030 - ../090)**
CMM..FB **(../040 - ../063)**
CMM..FL **(../040 - ../063)**

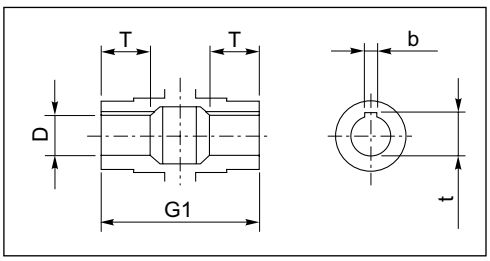


CMM..F

(../110 ../130)







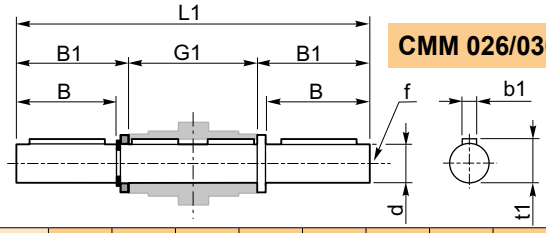
Albero lento cavo / *Hollow output shaft*

CMM

Accessori — *Accessories*

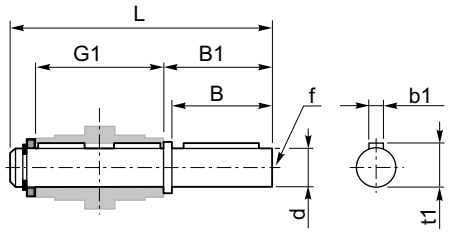
Albero lento semplice e doppio — *Single and double output shaft*

DZ

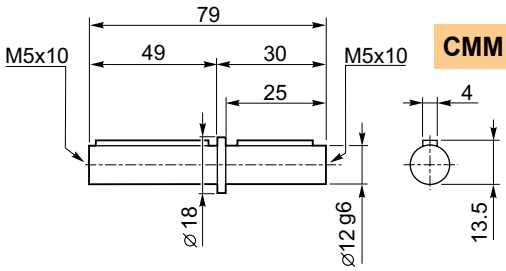


CMM 026/030 - CMM 063/130

SZ



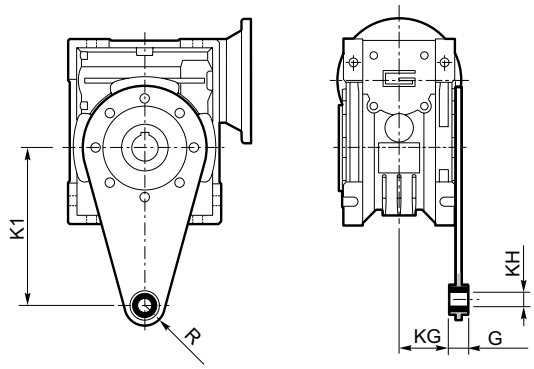
CMM	d h7	B	B1	G1	L	L1	f	b1	t1
026/030	14	30	32.5	63	102	128	M6	5	16
026/040 030/040	18	40	43	78	128	164	M6	6	20.5
026/050 030/050	25	50	53.5	92	153	199	M10	8	28
030/063 040/063	25	50	53.5	112	173	219	M10	8	28
040/070	28	60	63.5	120	192	247	M10	8	31
040/075	28	60	63.5	120	192	247	M10	8	31
040/090	35	80	84.5	140	234	309	M12	10	38
050/110	42	80	84.5	155	249	324	M16	12	45
063/130	45	80	85	170	265	340	M16	14	48.5



CMM 026/026

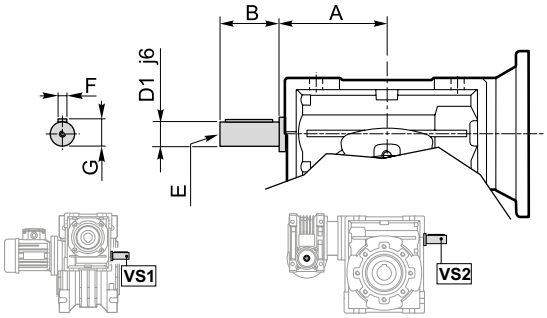
Braccio di reazione — *Torque arm*

CMM	K1	G	KG	KH	R
026/030	85	14	23	8	15
026/040 030/040	100	14	31	10	18
026/050 030/050	100	14	38	10	18
030/063 040/063	150	14	47.5	10	18
040/070	200	25	46.5	20	30
040/075	200	25	46.5	20	30
040/090	200	25	56.5	20	30
050/110	250	30	62	25	35
063/130	250	30	69	25	35



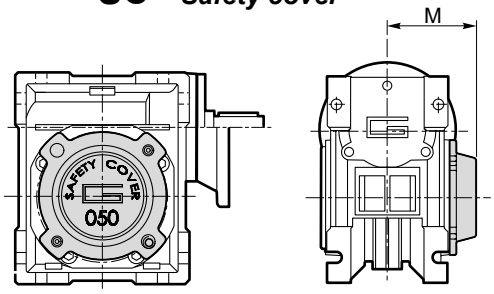
Opzioni — *Options*

VS1 - VS2 - Vite sporgente / *Extended input shaft*



CMM	VS1						VS2					
	A	B	D_1 j6	E	F	G	A	B	D_1 j6	E	F	G
026/030	—	—	—	—	—	—	45	20	9	M4	3	10.2
026/040	—	—	—	—	—	—	53	23	11	M5	4	12.5
026/050	—	—	—	—	—	—	64	30	14	M6	5	16
030/040	45	20	9	M4	3	10.2	53	23	11	M5	4	12.5
030/050	45	20	9	M4	3	10.2	64	30	14	M6	5	16
030/063	45	20	9	M4	3	10.2	75	40	19	M6	6	21.5
040/063	53	23	11	M5	4	12.5	75	40	19	M6	6	21.5
040/070	53	23	11	M5	4	12.5	84	40	19	M6	6	21.5
040/075	53	23	11	M5	4	12.5	90	50	24	M8	8	27
040/090	53	23	11	M5	4	12.5	108	50	24	M8	8	27
050/110	64	30	14	M6	5	16	135	60	28	M10	8	31
063/130	75	40	19	M6	6	21.5	—	—	—	—	—	—

SC - *Safety cover*



	CM								
	30	40	50	63	70	75	90	110	130
M	47	54.5	62.5	73	75	79	94	102	117

Costruito su richiesta
Built on request

TRANSTECNO®
the modular gearmotor

PU

PU

PU Alù

Motoriduttori ad ingranaggi cilindrici monostadio
Single stage helical gearmotors

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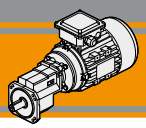

ENERGY SAVING

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Caratteristiche tecniche

I motoriduttori monostadio ad ingranaggi cilindrici della serie PU hanno le seguenti caratteristiche principali:

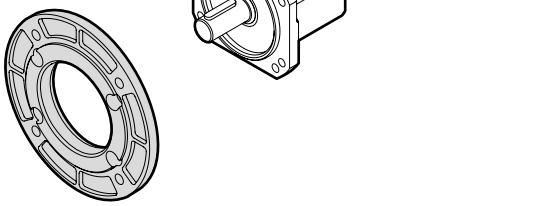
- Carcassa, flangia entrata e flangia uscita in pressofusione di alluminio;
- Ingranaggi rettificati;
- Lubrificazione permanente con olio sintetico.

Technical features

PU single stage helical gearmotor range has the following main features:

- *Die-cast aluminum housings, input and output flanges;*
- *Ground-hardened helical gears;*
- *Permanent synthetic oil long-life lubrication.*

ENERGY SAVING

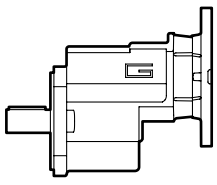


Designazione

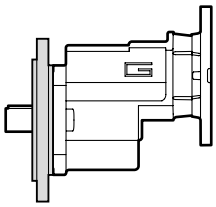
Classification

RIDUTTORE / *GEARBOX*						
PU	**01**	**FT1**	**5.70**	**71**	**B5**	**O3**
Tipo *Type*	Grandezza *Size*	Versione *Version*	Rapporto *Ratio*	IEC	Forma costruttiva *Version*	Diam. Albero uscita *Output shaft diam.*
PU	**01**	**U** **FT1** **FT2** **FT3**	**5.70** **8.57**	**63** **71** **80**	**B5** **B14**	

MOTORE / *MOTOR*					
0.25kW	**4p**	**3ph**	**230/400V**	**50Hz**	**T1**
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*
Vedi tabelle *See tables*	**2p** **4p** **6p** **8p**	**1ph** **3ph**	**230V** **230/400V**	**50Hz** **60Hz**	**T1** (Std) **T4** **T2** **T3**



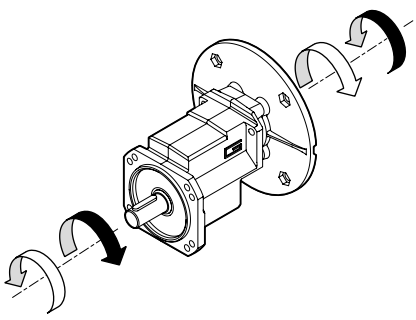
U



FT..

Sensi di rotazione

Direction of rotation

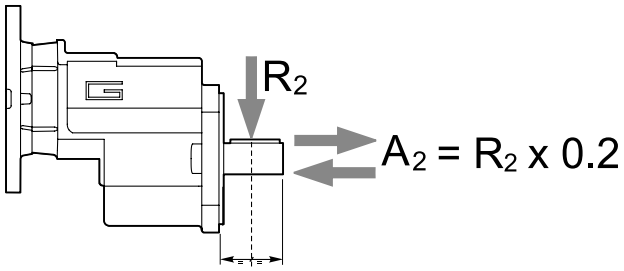


Lubrificazione / *Lubrication*

Tutti i motoriduttori della serie PU sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use PU range in all mounting positions.

Carichi radiali / *Radial loads*



n_2 [min^{-1}]	R_2 [N]
	PU 01
500	643
400	693
300	763
250	810
200	873
150	961
100	1100

Simbologia / *Symbols*

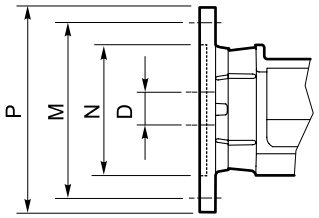
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*
i		Rapporto di riduzione / *Ratio*
P_1	[kW]	Potenza in entrata / *Input power*
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / *Output torque referred to P_1*
sf		Fattore di servizio / *Service factor*
R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*

Dati tecnici / *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.18						
63A4 (1400 min^{-1})	**246**	6.7	7.5	5.70	**PU01**	**B5/B14**
	163	10.0	5.0	8.57	**PU01**	**B5/B14**
0.22						
63B4 (1400 min^{-1})	**246**	8.2	6.1	5.70	**PU01**	**B5/B14**
	163	12.3	4.1	8.57	**PU01**	**B5/B14**
0.25						
71A4 (1400 min^{-1})	**246**	9.4	5.3	5.70	**PU01**	**B5/B14**
	163	14	2.8	8.57	**PU01**	**B5/B14**
0.37						
71B4 (1400 min^{-1})	**246**	14	3.6	5.70	**PU01**	**B5/B14**
	163	21	1.9	8.57	**PU01**	**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.55						
71C4 (1400 min^{-1})	**246**	21	2.4	5.70	**PU01**	**B5/B14**
	163	31	1.3	8.57	**PU01**	**B5/B14**
80A4 (1400 min^{-1})	**246**	21	2.4	5.70	**PU01**	**B5/B14**
	163	31	1.3	8.57	**PU01**	**B5/B14**
0.75						
80B4 (1400 min^{-1})	**246**	28	2.4	5.70	**PU01**	**B5/B14**
	163	42	0.9	8.57	**PU01**	**B5/B14**
1.1						
80B4 (1400 min^{-1})	**246**	41	1.2	5.7	**PU01**	**B5/B14**

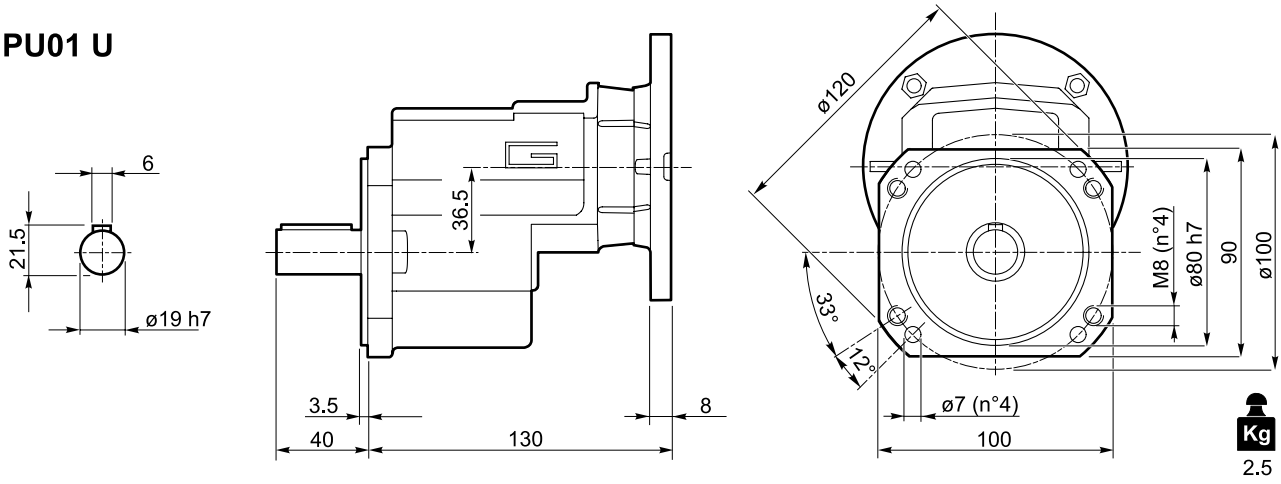
Motori applicabili — *IEC Motor adapters*



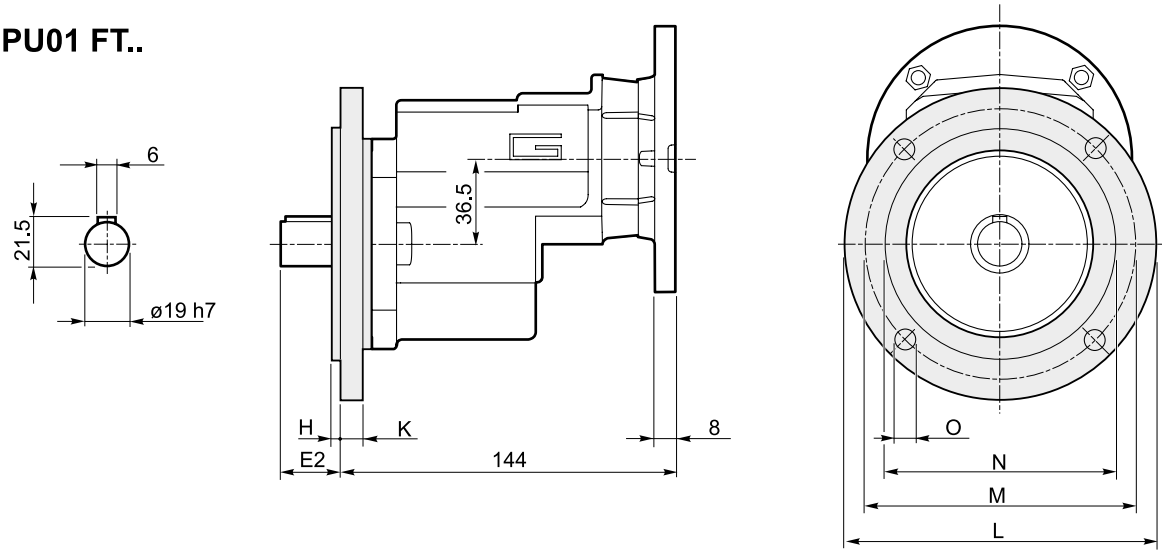
	IEC	N	M	P	D	i (rapporto / *ratio*)	
						5.70	8.57
PU01	80 B5	130	165	200	19		
	80 B14	80	100	120			
	71 B5	110	130	160	14	B	
	71 B14	70	85	105			
	63 B5	95	115	140	11	BS	
	63 B14	60	75	90			

Dimensioni — *Dimensions*

PU01 U



PU01 FT..



		Versione / *Version*							
		E_2	H	K	L	M	N f7	O	Peso / *Weight* [kg]
PU01	FT1	26	3	10	140	115	95	M8	0.3
	FT2	26	3.5	10	160	130	110	9	0.4
	FT3	26	3.5	10	200	165	130	11	0.5

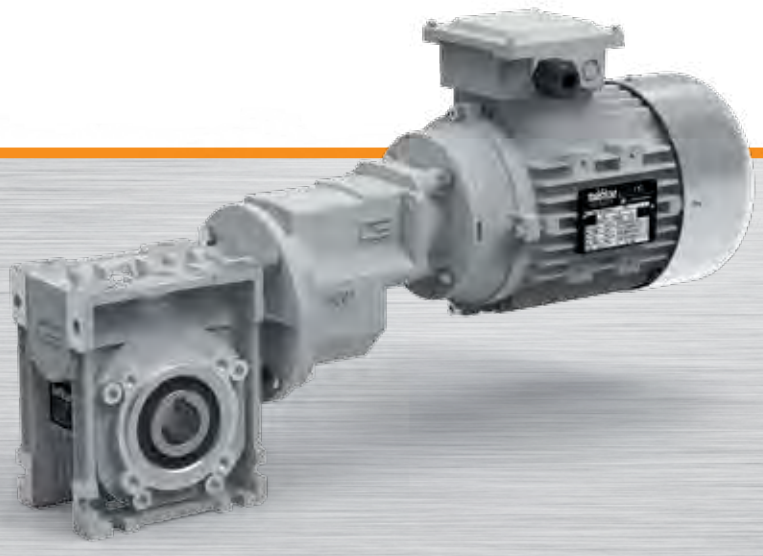
TRANSTECNO®
the modular gearmotor

CMPU

CMPU

CMPU Alù

Motoriduttori a vite senza fine con precoppia PU
PU pre-stage wormgearmotors



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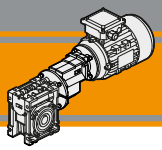

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Caratteristiche tecniche — *Technical features*

L'elevata modularità contraddistingue i motoriduttori a vite senza fine della serie CMPU: i diversi kit entrata ed uscita li rendono estremamente versatili.
Le caratteristiche principali della serie CMPU sono:

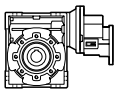
- Carcassa in alluminio pressofuso
- Le grandezze 090 è fornita con cuscinetti a rulli conici sulla vite
- Lubrificazione permanente con olio sintetico

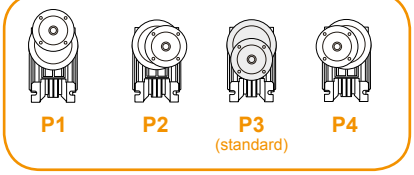
The high degree of modularity is a design feature of CMPU wormgearmotors range thanks to a wide selection of input and output kits. Main features of CMPU range are:

- *Die cast aluminium housing*
- *Double taper roller bearing on size 090*
- *Permanent synthetic oil long life lubrication*

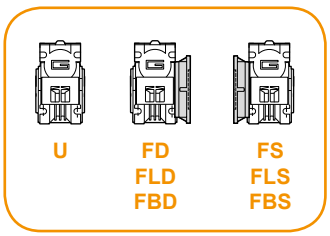
Designazione — *Classification*

RIDUTTORE A VITE SENZA FINE CON PRECOPPIA / *PRE-STAGE WORMGEARBOX*

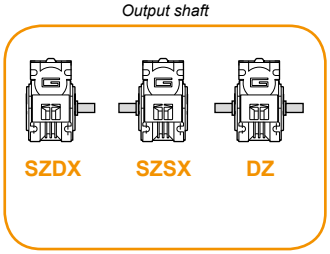
CMPU	01/050	U	57	71	B14	SZDX	BRSX	90	P4	M1	VS
Tipo *Type*	Grandezza *Size*	Versione riduttore *Gearbox Version*	Rapporto *Ratio*	IEC	Forma costruttiva *Version*	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*	*Pos. di montaggio precoppia Pre stage mounting position*	Pos. di montaggio Mounting position	Opzioni *Options*
CMPU 	**01/050** **01/063** **01/070** **01/075** **01/090**	**U** **FD** **FS** **FLD** **FLS** **FBD** **FBS**	Vedere tabella *See tables*	**63** **71** **80**	**B5** **B14**	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX**	**0°** **90°** **180°** **270°**	**P1** **P2** **P3** (standard) **P4**	**M1** (B3) **M2** (V6) **M3** (B8) **M4** (V5) **M6** (B6) **M5** (B7)	**VS**



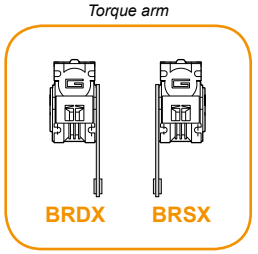
Versione Riduttore *Gearbox Version*



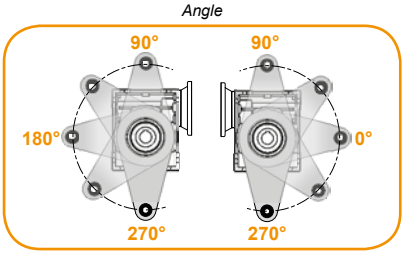
Albero di uscita *Output shaft*

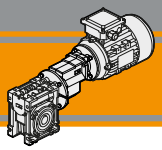


Braccio di reazione *Torque arm*



Angolo *Angle*



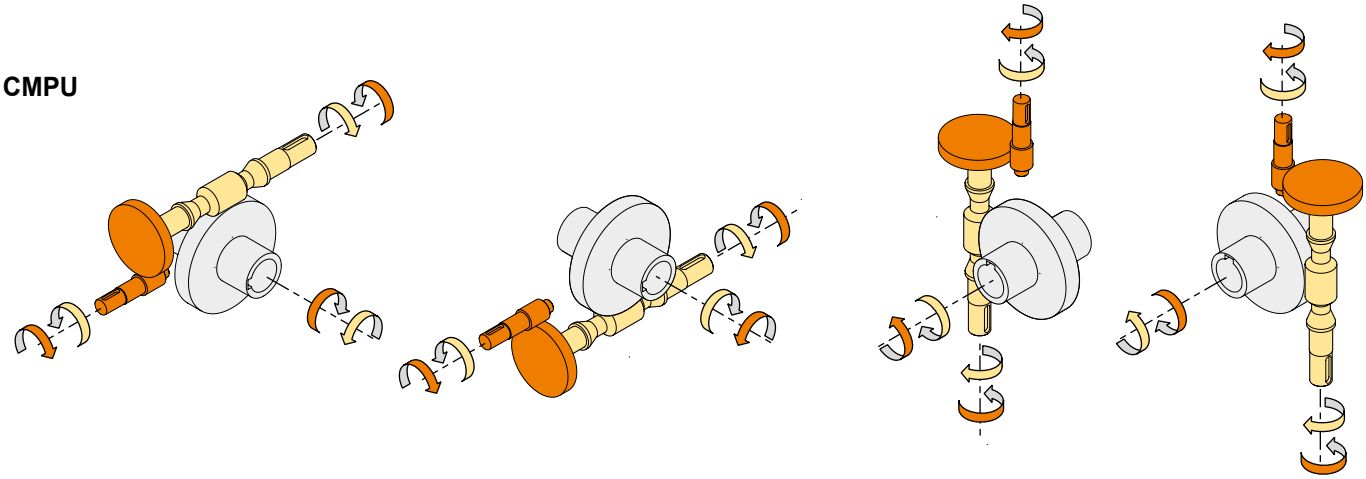


Designazione — *Classification*

MOTORE CM / *CM MOTOR*					
0.75kW	**4p**	**3ph**	**230/400V**	**50Hz**	**T1**
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*
Vedi tabelle *See tables*	**2p** **4p** **6p** **8p**	**1ph** **3ph**	**230V** **230/400V**	**50Hz** **60Hz**	**T1** (Std) **T4** **T2** **T3**

Sensi di rotazione — *Direction of rotation*

CMPU



Simbologia — *Symbols*

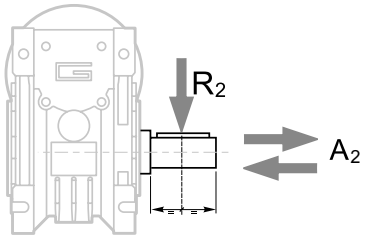
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*	M_2	[Nm]	Coppia in uscita in funzione di P_1 / *Output torque referred to P_1*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*	sf		Fattore di servizio / *Service factor*
i		Rapporto di riduzione / *Ratio*	R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
P_1	[kW]	Potenza in entrata / *Nominal input power*	A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*

Lubrificazione — *Lubrication*

Tutti i motoriduttori sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.

Carichi radiali — *Radial loads*

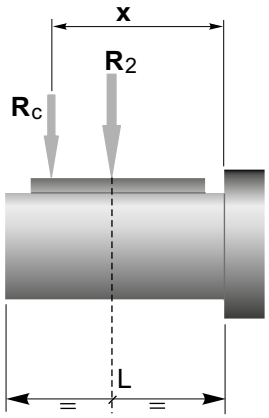


$A_2 = R_2 \times 0.2$

n_2 [min^{-1}]	R_2 [N]				
	CMPU 01/050	CMPU 01/063	CMPU 01/070	CMPU 01/075	CMPU 01/090
47	2805	3874	4141	4475	5009
35	3095	4273	4568	4937	5526
28	3334	4603	4921	5318	5953
23	3559	4915	5254	5678	6356
18	3862	5334	5702	6162	6897
14	4200	5800	6200	6700	7500

Quando il carico radiale risultante non è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:

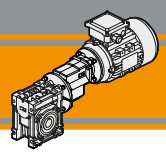


	CMPU				
	01/050	01/063	01/070	01/075	01/090
a	101	120	122	131	182
b	76	95	92	101	122
R_{2MAX}	4200	5800	6200	6700	7500

$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

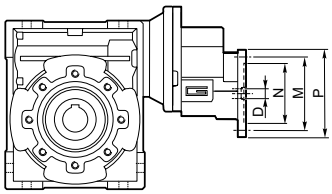
$$R \leq R_c$$

a, b = valori riportati nella tabella
a, b = values given in the table



Motori applicabili

IEC Motor adapters



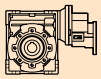
CMPU	IEC	N	M	P	D	i (i_1 x i_2)										
						28.5 (5,7x5)	**42.75** (5,7x7,5)	**57** (5,7x10)	**64.28** (8,57x7,5)	**85.5** (5,7x15)	**85.7** (8,57x10)	**114** (5,7x20)	**128.55** (8,57x15)	**142.5** (5,7x25)	**171** (5,7x30)	**214.25** (8,57x25)
01/050	63B5	95	115	140	11	**BS**	BS	BS	BS	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**
	63B14	60	75	90												
	71B5	110	130	160	14	**B**	B	B	B	**B**	**B**	**B**	**B**	**B**	**B**	**B**
	71B14	70	85	105												
	80B5	130	165	200	19											
	80B14	80	100	120												
01/063	63B5	95	115	140	11	**BS**	BS	BS	BS	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**
	63B14	60	75	90												
	71B5	110	130	160	14	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**
	71B14	70	85	105												
	80B5	130	165	200	19											
	80B14	80	100	120												
01/070	63B5	95	115	140	11	-	BS	BS	BS	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**
	63B14	60	75	90												
	71B5	110	130	160	14	-	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**
	71B14	70	85	105												
	80B5	130	165	200	19	-										
	80B14	80	100	120												
01/075	63B5	95	115	140	11	-	BS	BS	BS	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**
	63B14	60	75	90												
	71B5	110	130	160	14	-	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**
	71B14	70	85	105												
	80B5	130	165	200	19	-										
	80B14	80	100	120												
01/090	63B5	95	115	140	11	-	BS	BS	BS	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**
	63B14	60	75	90												
	71B5	110	130	160	14	-	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**
	71B14	70	85	105												
	80B5	130	165	200	19	-										
	80B14	80	100	120												

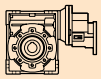
CMPU	IEC	N	M	P	D	i (i_1 x i_2)									
						228 (5,7x40)	**257.1** (8,57x30)	**285** (5,7x50)	**342.8** (8,57x40)	**428.5** (8,57x50)	**456** (5,7x80)	**514.2** (8,57x60)	**570** (5,7x100)	**685.6** (8,57x80)	**857** (8,57x100)
01/050	63B5	95	115	140	11		**BS**								
	63B14	60	75	90											
	71B5	110	130	160	14		**B**								
	71B14	70	85	105											
	80B5	130	165	200	19										
	80B14	80	100	120											
01/063	63B5	95	115	140	11	**BS**	**BS**	**BS**	**BS**	**BS**		**BS**			
	63B14	60	75	90											
	71B5	110	130	160	14	**B**	**B**	**B**	**B**	**B**		**B**			
	71B14	70	85	105											
	80B5	130	165	200	19										
	80B14	80	100	120											
01/070	63B5	95	115	140	11	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**
	63B14	60	75	90											
	71B5	110	130	160	14	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**
	71B14	70	85	105											
	80B5	130	165	200	19										
	80B14	80	100	120											
01/075	63B5	95	115	140	11	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**
	63B14	60	75	90											
	71B5	110	130	160	14	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**
	71B14	70	85	105											
	80B5	130	165	200	19										
	80B14	80	100	120											
01/090	63B5	95	115	140	11	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**
	63B14	60	75	90											
	71B5	110	130	160	14	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**
	71B14	70	85	105											
	80B5	130	165	200	19										
	80B14	80	100	120											

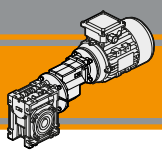
Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.
N.B. *Grey areas indicate motor inputs available on each size of unit.*

B/BS = Boccola di riduzione in acciaio
B/BS = Metal shaft sleeve

Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.18						
63B4	**49**	28	5.3	28.50	**CMPU01/050**	**B5/B14**
(1400 min^{-1})	**33**	41	3.8	42.75		**B5/B14**
	25	52	3.0	57.00		**B5/B14**
	22	61	2.5	64.28		**B5/B14**
	16	79	2.0	85.70		**B5/B14**
	12	93	1.5	114.00		**B5/B14**
	11	112	1.4	128.55		**B5/B14**
	9.8	110	1.1	142.50		**B5/B14**
	8.2	120	1.4	171.00		**B5/B14**
	22	62	4.7	64.28	**CMPU01/063**	**B5/B14**
	16	80	3.6	85.70		**B5/B14**
	12	92	2.8	114.00		**B5/B14**
	11	110	2.8	128.55		**B5/B14**
	9.8	108	2.1	142.50		**B5/B14**
	8.2	124	2.5	171.00		**B5/B14**
	6.5	163	1.4	214.25		**B5/B14**
	6.1	148	1.8	228.00		**B5/B14**
	5.4	186	1.7	257.10		**B5/B14**
	4.9	172	1.4	285.00		**B5/B14**
	4.1	223	1.2	342.80		**B5/B14**
	3.3	258	0.9	428.50		**B5/B14**
	12	93	4.2	114.00	**CMPU01/070**	**B5/B14**
	11	112	3.9	128.55		**B5/B14**
	9.8	112	3.1	142.50		**B5/B14**
	8.2	124	3.7	171.00		**B5/B14**
	6.5	168	2.0	214.25		**B5/B14**
	6.1	148	2.6	228.00		**B5/B14**
	5.4	186	2.4	257.10		**B5/B14**
	4.9	172	2.0	285.00		**B5/B14**
	4.1	223	1.7	342.80		**B5/B14**
	3.3	258	1.3	428.50		**B5/B14**
	3.1	220	1.2	456.00		**B5/B14**
	2.7	285	1.1	514.20		**B5/B14**
	2.5	247	0.9	570.00		**B5/B14**
	2.0	331	0.8	685.60		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.18						
63B4	**12**	95	4.9	114.00	**CMPU01/075**	**B5/B14**
(1400 min^{-1})	**11**	113	4.7	128.55		**B5/B14**
	9.8	112	3.7	142.50		**B5/B14**
	8.2	124	4.4	171.00		**B5/B14**
	6.5	168	2.4	214.25		**B5/B14**
	6.1	151	3.1	228.00		**B5/B14**
	5.4	186	2.9	257.10		**B5/B14**
	4.9	172	2.3	285.00		**B5/B14**
	4.1	227	2.1	342.80		**B5/B14**
	3.3	258	1.6	428.50		**B5/B14**
	3.1	220	1.5	456.00		**B5/B14**
	2.7	291	1.3	514.20		**B5/B14**
	2.5	247	1.2	570.00		**B5/B14**
	2.0	331	1.0	685.60		**B5/B14**
	1.6	372	0.8	857.00		**B5/B14**
	6.5	178	4.0	214.25	**CMPU01/090**	**B5/B14**
	6.1	159	5.1	228.00		**B5/B14**
	5.4	195	4.8	257.10		**B5/B14**
	4.9	186	3.7	285.00		**B5/B14**
	4.1	240	3.4	342.80		**B5/B14**
	3.3	279	2.5	428.50		**B5/B14**
	3.1	242	2.2	456.00		**B5/B14**
	2.7	316	2.0	514.20		**B5/B14**
	2.5	268	1.8	570.00		**B5/B14**
	2.0	364	1.5	685.60		**B5/B14**
	1.6	403	1.2	857.00		**B5/B14**



Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.22						
63C4 (1400 min^{-1})	**49**	34	4.4	28.50	**CMPU01/050**	**B5/B14**
	33	50	3.1	42.75		**B5/B14**
	25	64	2.4	57.00		**B5/B14**
	22	75	2.1	64.28		**B5/B14**
	16	96	1.6	85.70		**B5/B14**
	12	114	1.2	114.00		**B5/B14**
	11	136	1.2	128.55		**B5/B14**
	9.8	134	0.9	142.50		**B5/B14**
	8.2	146	1.1	171.00		**B5/B14**
	25	65	4.4	57.00	**CMPU01/063**	**B5/B14**
	22	76	3.9	64.28		**B5/B14**
	16	97	3.0	85.70		**B5/B14**
	12	112	2.3	114.00		**B5/B14**
	11	134	2.3	128.55		**B5/B14**
	9.8	132	1.7	142.50		**B5/B14**
	8.2	151	2.1	171.00		**B5/B14**
	6.5	198	1.2	214.25		**B5/B14**
	6.1	181	1.4	228.00		**B5/B14**
	5.4	227	1.4	257.10		**B5/B14**
	4.9	209	1.1	285.00		**B5/B14**
	4.1	272	1.0	342.80		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.22						
63C4 (1400 min^{-1})	**16**	98	4.3	85.70	**CMPU01/070**	**B5/B14**
	12	114	3.4	114.00		**B5/B14**
	11	136	3.2	128.55		**B5/B14**
	9.8	136	2.5	142.50		**B5/B14**
	8.2	151	3.0	171.00		**B5/B14**
	6.5	205	1.7	214.25		**B5/B14**
	6.1	181	2.1	228.00		**B5/B14**
	5.4	227	2.0	257.10		**B5/B14**
	4.9	209	1.6	285.00		**B5/B14**
	4.1	272	1.4	342.80		**B5/B14**
	3.3	315	1.1	428.5		**B5/B14**
	3.1	268	1.0	456.00		**B5/B14**
	2.7	348	0.9	514.20		**B5/B14**
	2.5	302	0.8	570.00		**B5/B14**
	16	98	5.1	85.70	**CMPU01/075**	**B5/B14**
	12	116	4.0	114.00		**B5/B14**
	11	138	3.8	128.55		**B5/B14**
	9.8	136	3.0	142.50		**B5/B14**
	8.2	151	3.6	171.00		**B5/B14**
	6.5	205	2.0	214.25		**B5/B14**
	6.1	184	2.5	228.00		**B5/B14**
	5.4	227	2.4	257.10		**B5/B14**
	4.9	209	1.9	285.00		**B5/B14**
	4.1	277	1.7	342.80		**B5/B14**
	3.3	315	1.3	428.5		**B5/B14**
	3.1	268	1.2	456.00		**B5/B14**
	2.7	355	1.1	514.20		**B5/B14**
	2.5	302	1.0	570.00		**B5/B14**
	2.0	403	0.8	685.60		**B5/B14**
	9.8	145	4.9	142.50	**CMPU01/090**	**B5/B14**
	6.5	217	3.3	214.25		**B5/B14**
	6.1	194	4.2	228.00		**B5/B14**
	5.4	238	4.0	257.10		**B5/B14**
	4.9	226	3.0	285.00		**B5/B14**
	4.1	292	2.8	342.80		**B5/B14**
	3.3	340	2.0	428.50		**B5/B14**
	3.1	295	1.8	456.00		**B5/B14**
	2.7	385	1.6	514.20		**B5/B14**
	2.5	327	1.5	570.00		**B5/B14**
	2.0	443	1.2	685.60		**B5/B14**
	1.6	491	1.0	857.00		**B5/B14**

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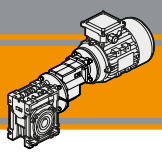
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.25						
71A4	**49**	39	3.9	28.5	**CMPU01/050**	**B5/B14**
(1400 min^{-1})	**33**	56	2.8	42.75		**B5/B14**
	25	72	2.1	57.00		**B5/B14**
	22	85	1.8	64.28		**B5/B14**
	16	109	1.4	85.70		**B5/B14**
	12	129	1.1	114.00		**B5/B14**
	11	154	1.0	128.55		**B5/B14**
	9.8	152	0.8	142.50		**B5/B14**
	8.2	165	1.0	171.00		**B5/B14**
	25	73	3.9	57.00	**CMPU01/063**	**B5/B14**
	22	86	3.4	64.28		**B5/B14**
	16	110	2.6	85.70		**B5/B14**
	12	127	2.0	114.00		**B5/B14**
	11	152	2.0	128.55		**B5/B14**
	9.8	150	1.5	142.50		**B5/B14**
	8.2	171	1.8	171.00		**B5/B14**
	6.5	225	1.0	214.25		**B5/B14**
	6.1	205	1.3	228.00		**B5/B14**
	5.4	257	1.2	257.10		**B5/B14**
	4.9	237	1.0	285.00		**B5/B14**
	4.1	308	0.8	342.80		**B5/B14**
	16	111	3.8	85.70	**CMPU01/070**	**B5/B14**
	12	129	3.0	114.00		**B5/B14**
	11	154	2.8	128.55		**B5/B14**
	9.8	154	2.2	142.50		**B5/B14**
	8.2	171	2.7	171.00		**B5/B14**
	6.5	232	1.5	214.25		**B5/B14**
	5.4	257	1.8	257.10		**B5/B14**
	6.1	205	1.8	228.00		**B5/B14**
	4.9	237	1.4	285.00		**B5/B14**
	4.1	308	1.2	342.80		**B5/B14**
	3.3	357	0.9	428.50		**B5/B14**
	3.1	304	0.9	456.00		**B5/B14**
	2.7	394	0.8	514.20		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.25						
71A4	**16**	111	4.5	85.70	**CMPU01/075**	**B5/B14**
(1400 min^{-1})	**12**	131	3.6	114.00		**B5/B14**
	11	156	3.4	128.55		**B5/B14**
	9.8	154	2.7	142.50		**B5/B14**
	8.2	171	3.2	171.00		**B5/B14**
	6.5	232	1.8	214.25		**B5/B14**
	5.4	257	2.1	257.10		**B5/B14**
	6.1	209	2.2	228.00		**B5/B14**
	4.9	237	1.7	285.00		**B5/B14**
	4.1	314	1.5	342.80		**B5/B14**
	3.3	357	1.1	428.50		**B5/B14**
	3.1	304	1.1	456.00		**B5/B14**
	2.7	403	0.9	514.20		**B5/B14**
	2.5	342	0.8	570.00		**B5/B14**
	9.8	164	4.3	142.50	**CMPU01/090**	**B5/B14**
	8.2	179	5.3	171.00		**B5/B14**
	6.5	246	2.9	214.25		**B5/B14**
	6.1	220	3.7	228.00		**B5/B14**
	5.4	270	3.5	257.10		**B5/B14**
	4.9	256	2.7	285.00		**B5/B14**
	4.1	331	2.5	342.80		**B5/B14**
	3.3	385	1.8	428.50		**B5/B14**
	3.1	334	1.6	456.00		**B5/B14**
	2.7	437	1.4	514.20		**B5/B14**
	2.5	370	1.3	570.00		**B5/B14**
	2.0	503	1.1	685.60		**B5/B14**
	1.6	557	0.9	857.00		**B5/B14**



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.37						
71B4	**49**	58	2.6	28.50	**CMPU01/050**	**B5/B14**
(1400 min^{-1})	**33**	83	1.9	42.75		**B5/B14**
	25	107	1.4	57.00		**B5/B14**
	22	125	1.2	64.28		**B5/B14**
	16	161	1.0	85.70		**B5/B14**
	49	58	4.8	28.50	**CMPU01/063**	**B5/B14**
	33	84	3.5	42.75		**B5/B14**
	25	108	2.6	57.00		**B5/B14**
	22	127	2.3	64.28		**B5/B14**
	16	163	1.8	85.70		**B5/B14**
	12	189	1.4	114.00		**B5/B14**
	11	225	1.3	128.55		**B5/B14**
	9.8	222	1.0	142.50		**B5/B14**
	8.2	253	1.2	171.00		**B5/B14**
	6.5	333	0.7	214.25		**B5/B14**
	6.1	304	0.9	228.00		**B5/B14**
	5.4	381	0.8	257.10		**B5/B14**
	4.9	352	0.7	285.00		**B5/B14**
	25	110	3.8	57.00	**CMPU01/070**	**B5/B14**
	22	129	3.1	64.28		**B5/B14**
	16	165	2.5	85.70		**B5/B14**
	12	191	2.0	114.00		**B5/B14**
	11	229	1.9	128.55		**B5/B14**
	9.8	229	1.5	142.50		**B5/B14**
	8.2	253	1.8	171.00		**B5/B14**
	6.5	344	1.0	214.25		**B5/B14**
	6.1	304	1.2	228.00		**B5/B14**
	5.4	381	1.2	257.10		**B5/B14**
	4.9	352	1.0	285.00		**B5/B14**
	4.1	457	0.8	342.80		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.37						
71B4	**25**	110	4.6	57.00	**CMPU01/075**	**B5/B14**
(1400 min^{-1})	**22**	129	3.8	64.28		**B5/B14**
	16	165	3.0	85.70		**B5/B14**
	12	194	2.4	114.00		**B5/B14**
	11	232	2.3	128.55		**B5/B14**
	9.8	229	1.8	142.50		**B5/B14**
	8.2	253	2.2	171.00		**B5/B14**
	6.5	344	1.2	214.25		**B5/B14**
	6.1	310	1.5	228.00		**B5/B14**
	5.4	381	1.4	257.10		**B5/B14**
	4.9	352	1.1	285.00		**B5/B14**
	4.1	466	1.0	342.80		**B5/B14**
	3.3	529	0.8	428.50		**B5/B14**
	16	169	4.4	85.70	**CMPU01/090**	**B5/B14**
	12	203	4.0	114.00		**B5/B14**
	11	238	3.7	128.55		**B5/B14**
	9.8	243	2.9	142.50		**B5/B14**
	8.2	266	3.5	171.00		**B5/B14**
	6.5	365	1.9	214.25		**B5/B14**
	6.1	327	2.5	228.00		**B5/B14**
	5.4	400	2.4	257.10		**B5/B14**
	4.9	380	1.8	285.00		**B5/B14**
	4.1	491	1.7	342.80		**B5/B14**
	3.3	571	1.2	428.50		**B5/B14**
	3.1	496	1.1	456.00		**B5/B14**
	2.7	648	1.0	514.20		**B5/B14**
	2.5	549	0.9	570.00		**B5/B14**

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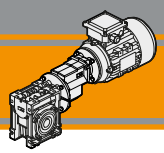
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.55						
71C4	**49**	86	1.7	28.50	**CMPU01/050**	**B5/B14**
(1400 min^{-1})	**33**	124	1.3	42.75		**B5/B14**
	25	159	1.0	57.00		**B5/B14**
	22	187	0.8	64.28		**B5/B14**
	49	86	3.2	28.50	**CMPU01/063**	**B5/B14**
	33	126	2.3	42.75		**B5/B14**
	25	161	1.8	57.00		**B5/B14**
	22	189	1.5	64.28		**B5/B14**
	16	243	1.2	85.70		**B5/B14**
	12	281	0.9	114.00		**B5/B14**
	11	335	0.9	128.55		**B5/B14**
	9.8	330	0.7	142.50		**B5/B14**
	8.2	377	0.8	171.00		**B5/B14**
	33	127	3.2	42.75	**CMPU01/070**	**B5/B14**
	25	163	2.6	57.00		**B5/B14**
	22	191	2.1	64.28		**B5/B14**
	16	246	1.7	85.70		**B5/B14**
	12	285	1.4	114.00		**B5/B14**
	11	340	1.3	128.55		**B5/B14**
	9.8	340	1.0	142.50		**B5/B14**
	8.2	377	1.2	171.00		**B5/B14**
	6.5	512	0.7	214.25		**B5/B14**
	6.1	452	0.8	228.00		**B5/B14**
	5.4	567	0.8	257.10		**B5/B14**
	33	127	3.8	42.75	**CMPU01/075**	**B5/B14**
	25	163	3.1	57.00		**B5/B14**
	22	191	2.5	64.28		**B5/B14**
	16	246	2.0	85.70		**B5/B14**
	12	289	1.6	114.00		**B5/B14**
	11	345	1.5	128.55		**B5/B14**
	9.8	340	1.2	142.50		**B5/B14**
	8.2	377	1.5	171.00		**B5/B14**
	6.5	512	0.8	214.25		**B5/B14**
	6.1	461	1.0	228.00		**B5/B14**
	5.4	567	1.0	257.10		**B5/B14**
	4.9	524	0.8	285.00		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.55						
80A4	**25**	168	4.5	57.00	**CMPU01/090**	**B5/B14**
(1400 min^{-1})	**22**	196	3.6	64.28		**B5/B14**
	16	252	3.0	85.70		**B5/B14**
	12	302	2.7	114.00		**B5/B14**
	11	354	2.5	128.55		**B5/B14**
	9.8	361	2.0	142.50		**B5/B14**
	8.2	396	2.4	171.00		**B5/B14**
	6.5	543	1.3	214.25		**B5/B14**
	6.1	486	1.7	228.00		**B5/B14**
	5.4	595	1.6	257.10		**B5/B14**
	4.9	566	1.2	285.00		**B5/B14**
	4.1	731	1.1	342.80		**B5/B14**
	3.3	850	0.8	428.50		**B5/B14**
	49	86	1.7	28.50	**CMPU01/050**	**B5/B14**
	33	124	1.3	42.75		**B5/B14**
	25	159	1.0	57.00		**B5/B14**
	22	187	0.8	64.28		**B5/B14**
	49	86	3.2	28.50	**CMPU01/063**	**B5/B14**
	33	126	2.3	42.75		**B5/B14**
	25	161	1.8	57.00		**B5/B14**
	22	189	1.5	64.28		**B5/B14**
	16	243	1.2	85.70		**B5/B14**
	12	281	0.9	114.00		**B5/B14**
	11	335	0.9	128.55		**B5/B14**
	9.8	330	0.7	142.50		**B5/B14**
	8.2	377	0.8	171.00		**B5/B14**
	33	127	3.2	42.75	**CMPU01/070**	**B5/B14**
	25	163	2.6	57.00		**B5/B14**
	22	191	2.1	64.28		**B5/B14**
	16	246	1.7	85.70		**B5/B14**
	12	285	1.4	114.00		**B5/B14**
	11	340	1.3	128.55		**B5/B14**
	9.8	340	1.0	142.50		**B5/B14**
	8.2	377	1.2	171.00		**B5/B14**
	6.5	512	0.7	214.25		**B5/B14**
	6.1	452	0.8	228.00		**B5/B14**
	5.4	567	0.8	257.10		**B5/B14**



Dati tecnici

Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.55						
80A4	**33**	127	3.8	42.75	**CMPU01/075**	**B5/B14**
(1400 min^{-1})	**25**	163	3.1	57.00		**B5/B14**
	22	191	2.5	64.28		**B5/B14**
	16	246	2.0	85.70		**B5/B14**
	12	289	1.6	114.00		**B5/B14**
	11	345	1.5	128.55		**B5/B14**
	9.8	340	1.2	142.50		**B5/B14**
	8.2	377	1.5	171.00		**B5/B14**
	6.5	512	0.8	214.25		**B5/B14**
	6.1	461	1.0	228.00		**B5/B14**
	5.4	567	1.0	257.10		**B5/B14**
	4.9	524	0.8	285.00		**B5/B14**
	25	168	4.5	57.00	**CMPU01/090**	**B5/B14**
	22	196	3.6	64.28		**B5/B14**
	16	252	3.0	85.70		**B5/B14**
	12	302	2.7	114.00		**B5/B14**
	11	354	2.5	128.55		**B5/B14**
	9.8	361	2.0	142.50		**B5/B14**
	8.2	396	2.4	171.00		**B5/B14**
	6.5	543	1.3	214.25		**B5/B14**
	6.1	486	1.7	228.00		**B5/B14**
	5.4	595	1.6	257.10		**B5/B14**
	4.9	566	1.2	285.00		**B5/B14**
	4.1	731	1.1	342.80		**B5/B14**
	3.3	850	0.8	428.50		**B5/B14**
0.75						
80B4	**49**	117	1.3	28.50	**CMPU01/050**	**B5/B14**
(1400 min^{-1})	**33**	169	0.9	42.75		**B5/B14**
	49	117	2.4	28.50	**CMPU01/063**	**B5/B14**
	33	172	1.7	42.75		**B5/B14**
	25	220	1.3	57.00		**B5/B14**
	22	258	1.1	64.28		**B5/B14**
	16	331	0.9	85.70		**B5/B14**
	12	383	0.7	114.00		**B5/B14**
	11	458	0.7	128.60		**B5/B14**
	33	174	2.3	42.75	**CMPU01/070**	**B5/B14**
	25	223	1.9	57.00		**B5/B14**
	22	261	1.5	64.28		**B5/B14**
	16	335	1.2	85.70		**B5/B14**
	12	389	1.0	114.00		**B5/B14**
	11	464	0.9	128.60		**B5/B14**
	9.8	465	0.7	142.50		**B5/B14**
	8.2	515	0.9	171.00		**B5/B14**

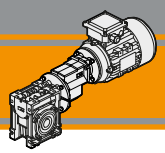
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.75						
80B4	**33**	174	2.8	42.75	**CMPU01/075**	**B5/B14**
(1400 min^{-1})	**25**	223	2.3	57.00		**B5/B14**
	22	261	1.9	64.28		**B5/B14**
	16	335	1.5	85.70		**B5/B14**
	12	395	1.2	114.00		**B5/B14**
	11	471	1.1	128.60		**B5/B14**
	9.8	465	0.9	142.50		**B5/B14**
	8.2	515	1.1	171.00		**B5/B14**
	6.1	629	0.7	228.00		**B5/B14**
	33	178	4.0	42.75	**CMPU01/090**	**B5/B14**
	25	229	3.3	57.00		**B5/B14**
	22	268	2.6	64.28		**B5/B14**
	16	344	2.2	85.70		**B5/B14**
	12	412	2.0	114.00		**B5/B14**
	11	484	1.8	128.55		**B5/B14**
	9.8	493	1.4	142.50		**B5/B14**
	8.2	541	1.7	171.00		**B5/B14**
	6.5	742	1.0	214.25		**B5/B14**
	6.1	664	1.2	228.00		**B5/B14**
	5.4	813	1.2	257.10		**B5/B14**
	4.9	772	0.9	285.00		**B5/B14**
	4.1	998	0.8	342.80		**B5/B14**
1.1						
80C4	**49**	172	0.9	28.50	**CMPU01/050**	**B5/B14**
(1400 min^{-1})	**49**	172	1.6	28.50	**CMPU01/063**	**B5/B14**
	33	251	1.2	42.75		**B5/B14**
	25	323	0.9	57.00		**B5/B14**
	16	446	0.7	85.50		**B5/B14**
	33	255	1.6	42.75	**CMPU01/070**	**B5/B14**
	25	327	1.3	57.00		**B5/B14**
	16	452	1.0	85.50		**B5/B14**
	33	255	1.9	42.75	**CMPU01/075**	**B5/B14**
	25	327	1.5	57.00		**B5/B14**
	16	459	1.2	85.50		**B5/B14**
	12	578	0.8	114.00		**B5/B14**
	33	261	2.7	42.75	**CMPU01/090**	**B5/B14**
	25	335	2.2	57.00		**B5/B14**
	16	471	1.8	85.50		**B5/B14**
	12	603	1.3	114.00		**B5/B14**
	9.8	723	1.0	142.50		**B5/B14**
	8.2	792	1.2	171.00		**B5/B14**
	6.1	972	0.8	228.00		**B5/B14**

Dimensioni — *Dimensions*

	CMPU.. - CMPU..F - CMPU..FB - CMPU..FL													
	A	C	D H8	E	F	G1	H	HX	I	K	L	M	N h8	N1
01/050	80	120	25	144	49	92	60	36.5	50	70	85	85	70	43.5
01/063	100	144	25	174	67	112	72	36.5	63	85	104	95	80	53
01/070	110	160	28	195	64	120	80	36.5	70	90	104	115	95	57
01/075	120	172	28	205	72	120	86	36.5	75	90	112	115	95	57
01/090	140	208	35	238	74	140	103	36.5	90	100	130	130	110	67

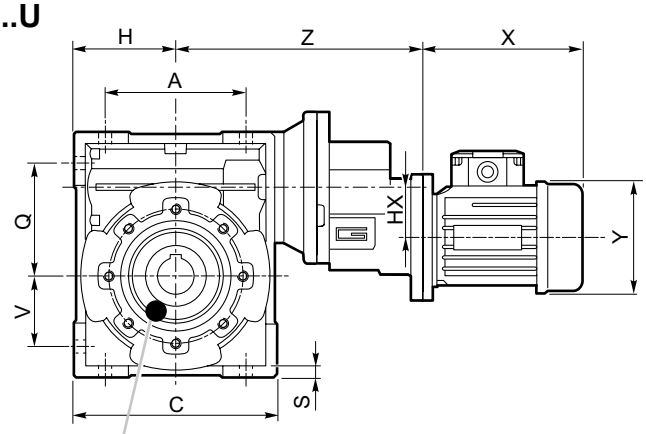
	CMPU.. - CMPU..F - CMPU..FB - CMPU..FL												
	O	P	Q	R	S	T	V	Z	KE	a	b	t	Kg
01/050	8.5	98	64	84	7	30	40	210	M8x10(n.4)	45°	8	28.3 (27.3)	6.0
01/063	8.5	110	80	102	8	36	50	228	M8x14(n.8)	45°	8	28.3	8.7
01/070	9	130	91	115	9	40	55	238	M8x14(n.8)	45°	8	31.3	10.0
01/075	11	140	93	119	10	40	60	243	M8x14(n.8)	45°	8	31.3	11.5
01/090	13	160	102	135	11	45	70	260	M10x18(n.8)	45°	10	38.3	15.5

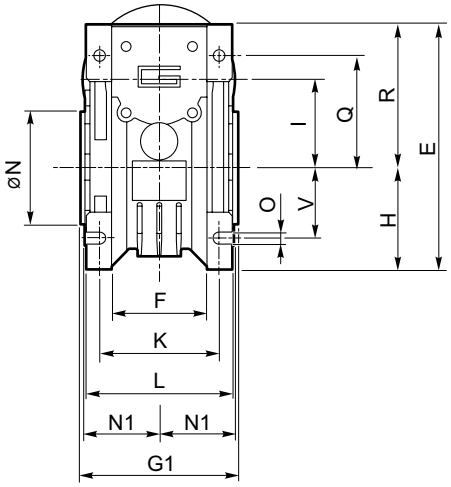
		CMPU..F								CMPU..FB							CMPU..FL							
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KA	KB	KC	KM	KN H8	KO	KP	KQ
01/050	45°	90	9	5	90-110	70	11(n.4)	125	110	89	9	5	130-145	110	9.5(n.4)	160	120	9	5	90-110	70	11(n.4)	125	110
01/063	45°	82	10	6	150-160	115	11(n.4)	180	142	98	10	5	165-180	130	11(n.4)	200	112	10	6	150-160	115	11(n.4)	180	142
01/070	45°	111	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
01/075	45°	111	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
01/090	45°	111	13	6	175-190	152	14(n.4)	210	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

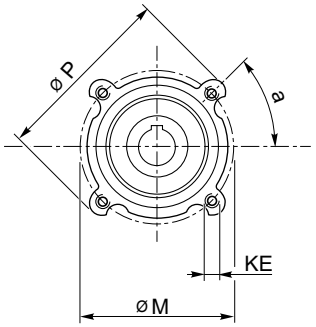


Dimensioni ***Dimensions***

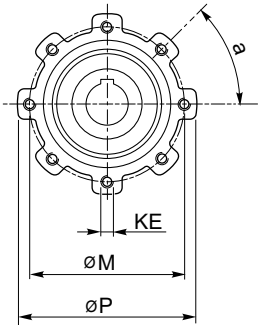
CMPU..U



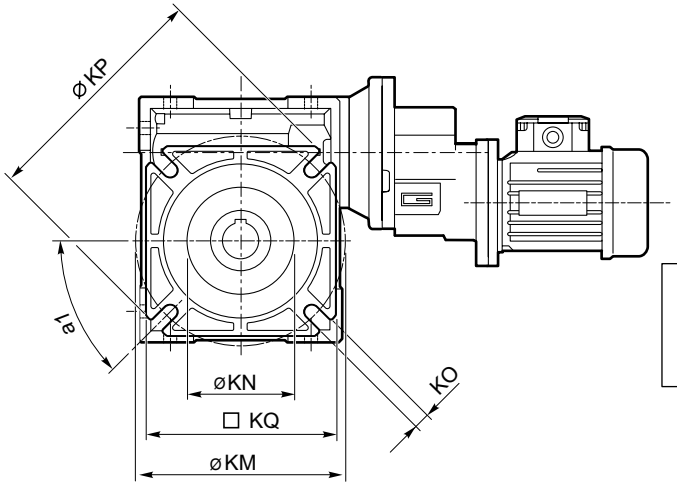


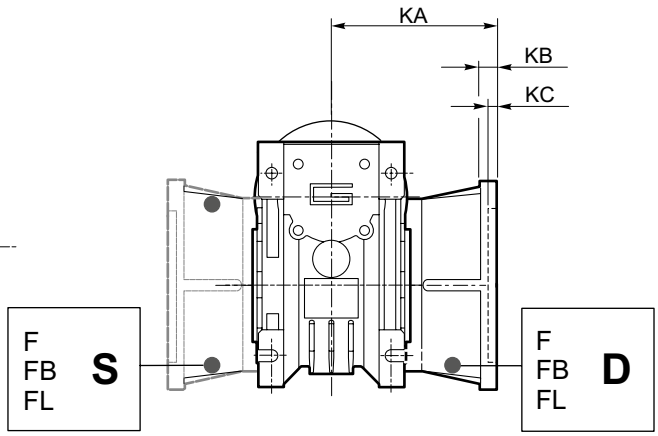


..01/050

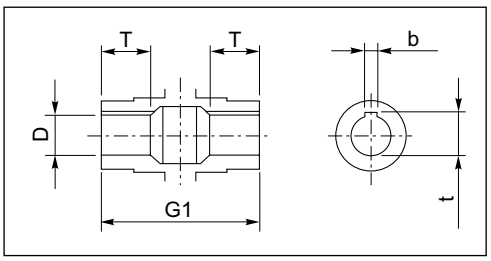


..01/063
..01/070
..01/075
..01/090





CMPU..F **(..01/050 - .. 01/090)**
CMPU..FB **(.. 01/050 - .. 01/063)**
CMPU..FL **(.. 01/050 - .. 01/063)**

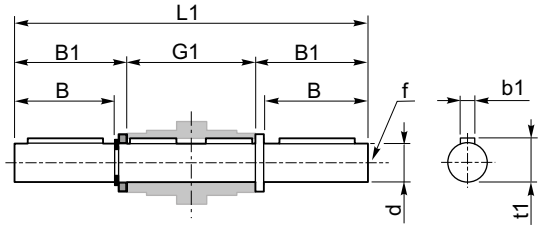


Albero lento cavo / *Hollow output shaft*

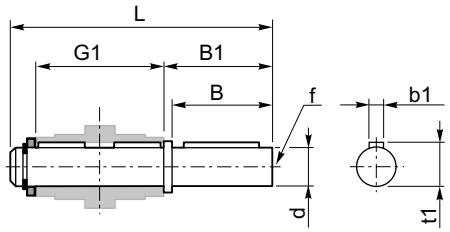
Accessori / *Accessories*

Albero lento semplice e doppio / ***Single and double output shaft***

DZ



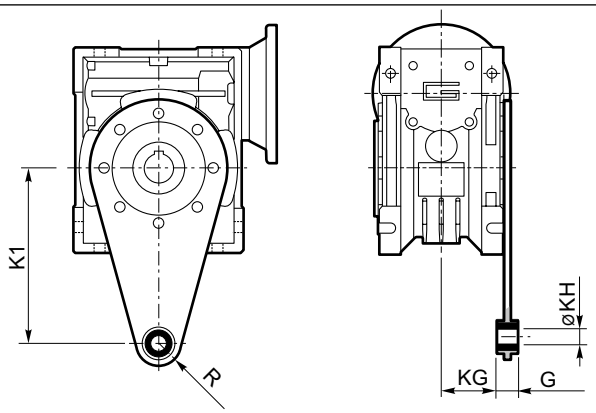
SZ



CMPU	d h7	B	B1	G1	L	L1	f	b1	t1
01/050	25	50	53.5	92	153	199	M10	8	28
01/063	25	50	53.5	112	173	219	M10	8	28
01/070	28	60	63.5	120	192	247	M10	8	31
01/075	28	60	63.5	120	192	247	M10	8	31
01/090	35	80	84.5	140	234	309	M12	10	38

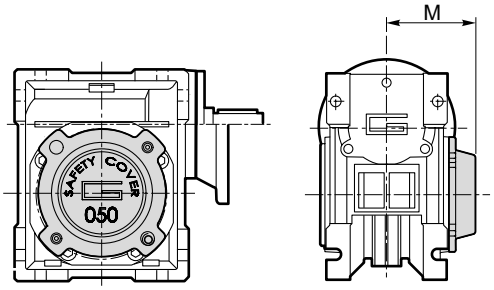
Braccio di reazione / ***Torque arm***

CMPU	K1	G	KG	KH	R
01/050	100	14	38	10	18
01/063	150	14	47.5	10	18
01/070	200	25	46.5	20	30
01/075	200	25	46.5	20	30
01/090	200	25	56.5	20	30



SC - *Safety Cover*

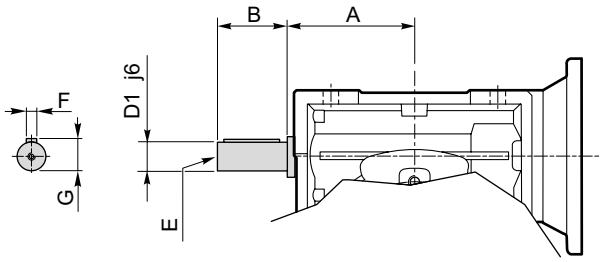
CMPU	M
01/050	62.5
01/063	73
01/070	75
01/075	79
01/090	94



Opzioni / *Options*

VS - Vite sporgente / *Extended input shaft*

CMPU	A	B	D_1 j6	E	F	G
01/050	64	30	14	M6	5	16
01/063	75	40	19	M6	6	21.5
01/070	84	40	19	M6	6	21.5
01/075	90	50	24	M8	8	27
01/090	108	50	24	M8	8	27



Costruito su richiesta
Built on request

TRANSTECNO®
the modular gearmotor

Appendice
Appendix

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Liste parti di ricambio	*Spare parts list*	
CMG..2	*CMG..2*	**M2**
CMG..3	*CMG..3*	**M3**
CMB..2	*CMB..2*	**M4**
CMB..3	*CMB..3*	**M5**
KFT105-FT105	*KFT105-FT105*	**M6**
FT146-FT196	*FT146-FT196*	**M7**
ATS..2	*ATS..2*	**M8**
ATS..3	*ATS..3*	**M9**
CM026..CM130	*CM026..CM130*	**M10**
PU	*PU*	**M11**
Boccole di riduzione in acciaio	*Metal shaft sleeves*	**M12**

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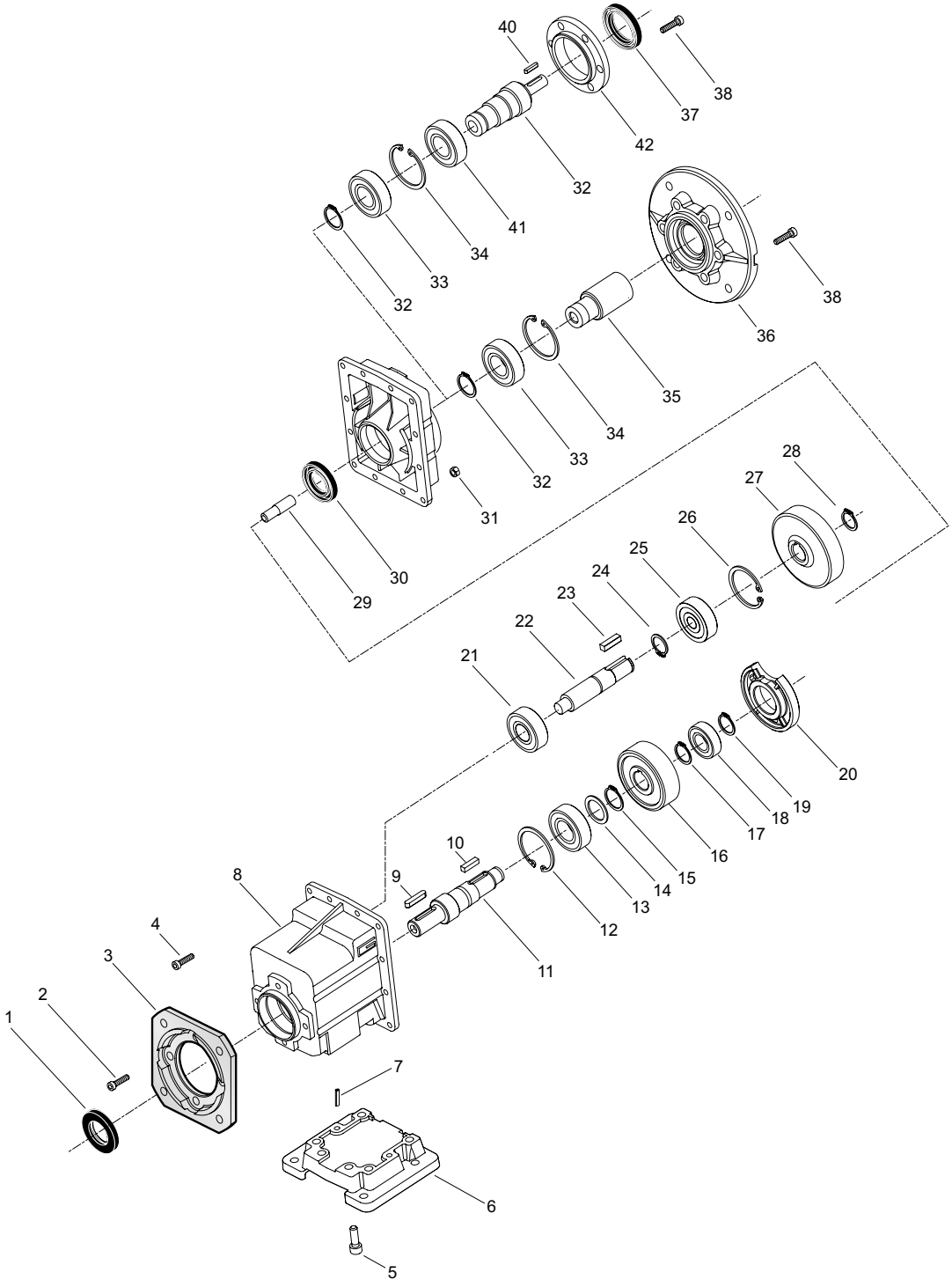
Lista parti di ricambio ***Spare parts list***

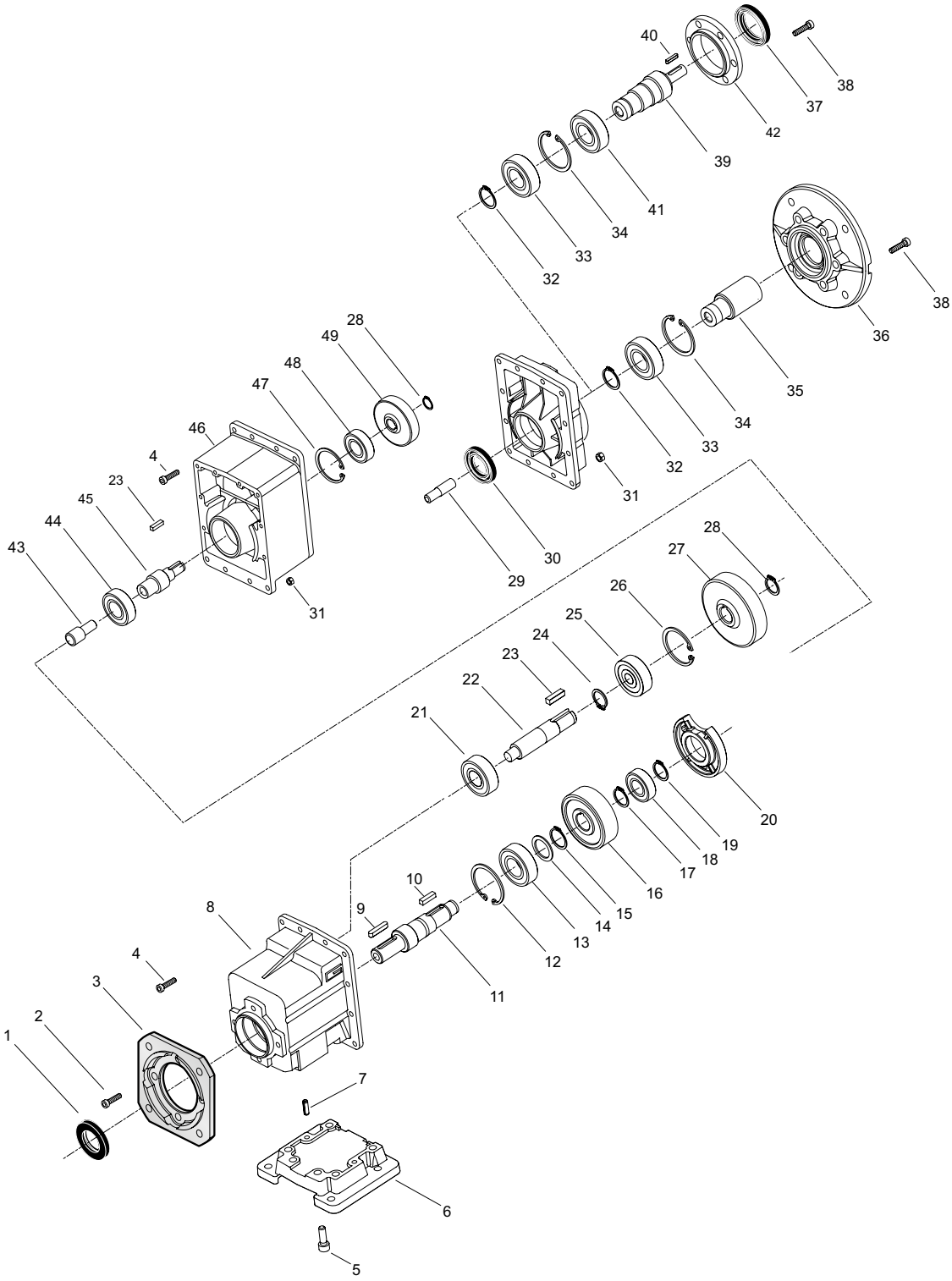
CMG..2



CMG	Anelli di tenuta / *Oil seals*		
	1	**30**	**37**
002	22/40/7	20/37/7	—
012	30/52/7	25/47/7	35/52/7
022	35/52/7	25/47/7	35/52/7
032	40/72/7	30/52/7	40/60/7
042	45/72/7	30/52/7	40/60/7

Lista parti di ricambio *Spare parts list*

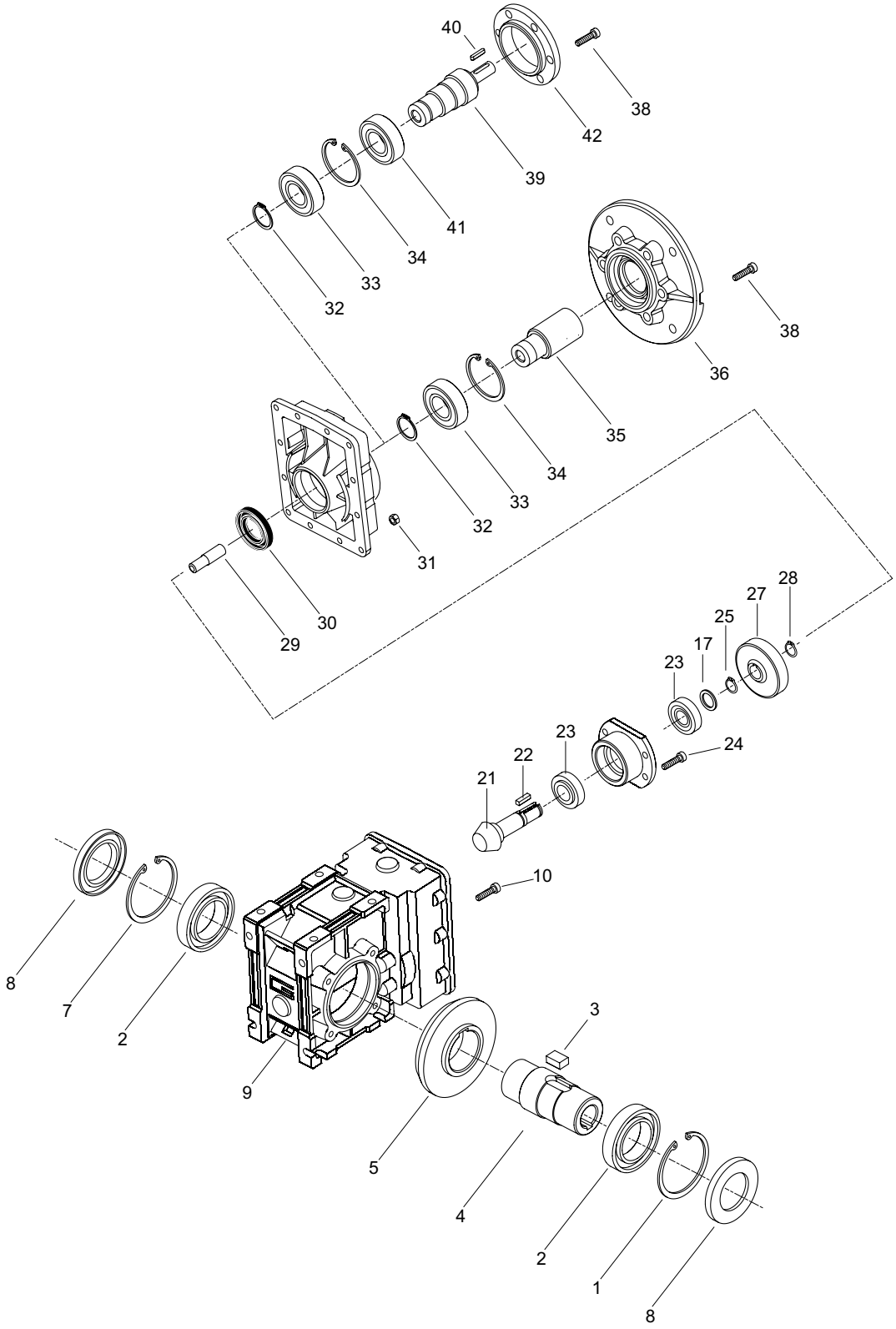
CMG..3



CMG	Anelli di tenuta / *Oil seals*		
	1	**30**	**37**
013	30/52/7	25/47/7	35/52/7
023	35/52/7	25/47/7	35/52/7
033	40/72/7	30/52/7	40/60/7
043	45/72/7	30/52/7	40/60/7

Lista parti di ricambio ***Spare parts list***

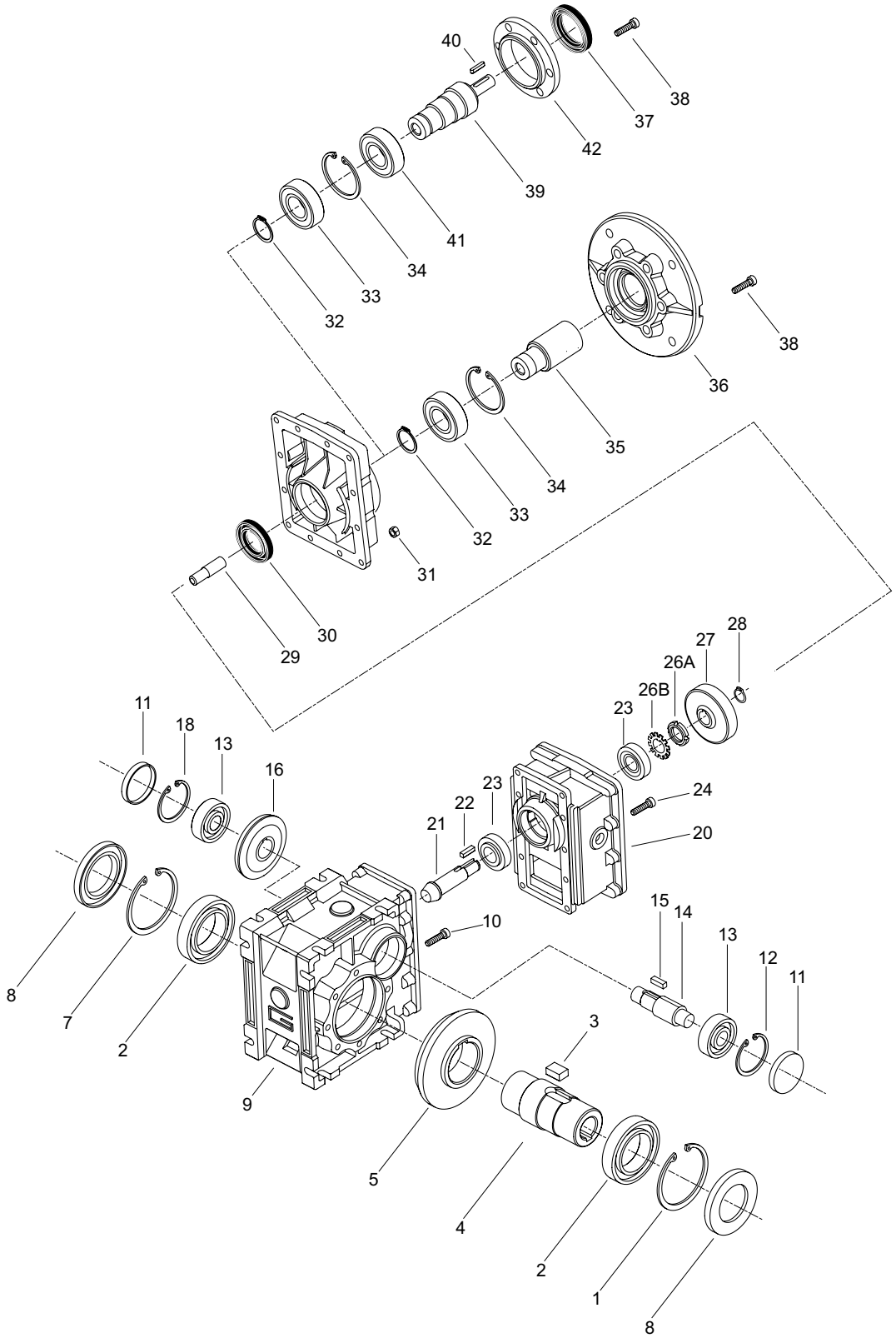
CMB ..2



CMB	Anelli di tenuta / *Oil seals*	
	8	**30**
402	30/55/7	20/37/7
502	40/62/7	20/37/7

Lista parti di ricambio ***Spare parts list***

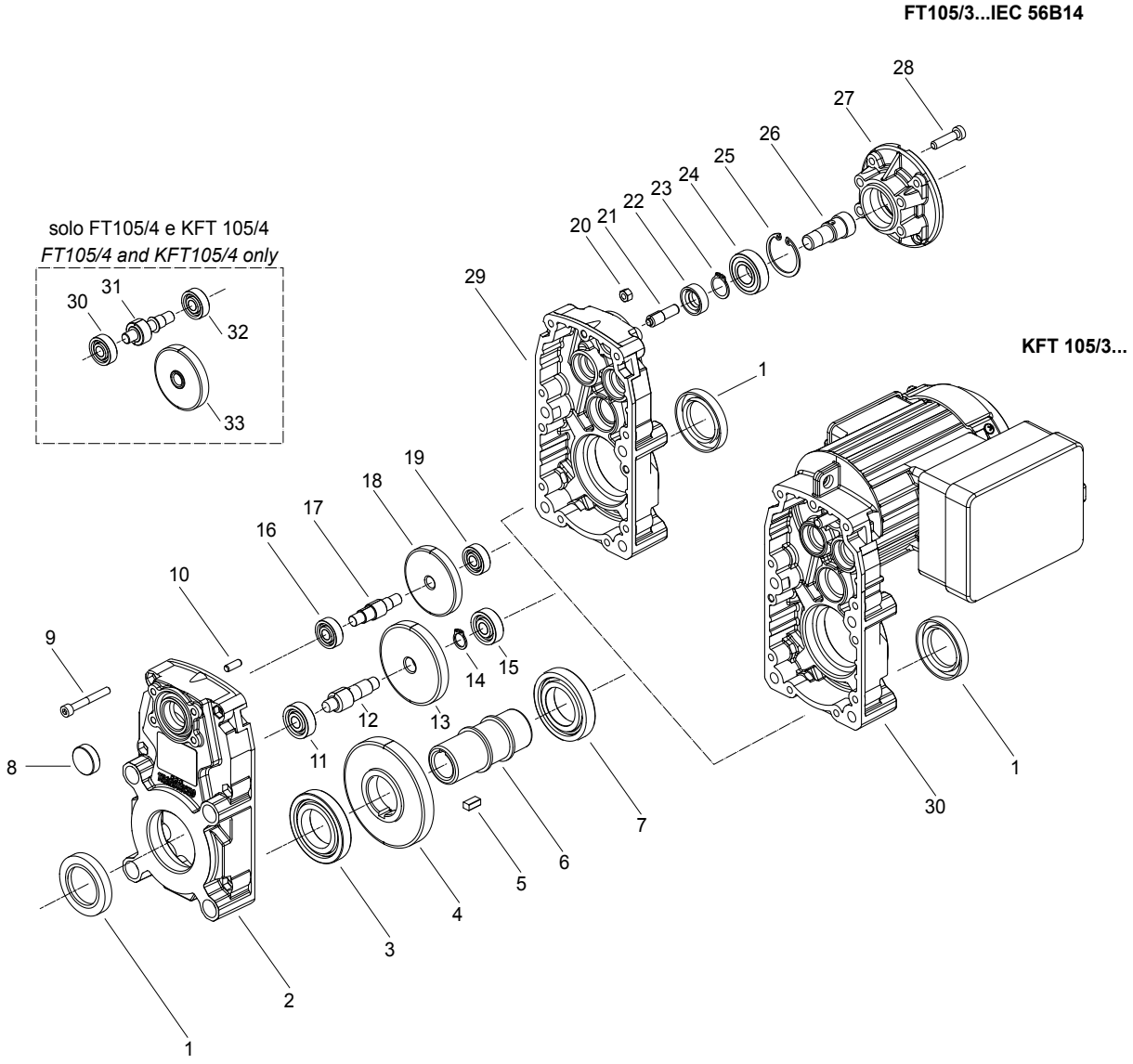
CMB ..3



CMB	Anelli di tenuta / *Oil seals*			RCA
	8	**30**	**37**	**11**
633	45/75/8	25/47/7	35/52/7	47/7
903	55/90/10	30/52/7	40/60/7	52/7

Lista parti di ricambio ***Spare parts list***

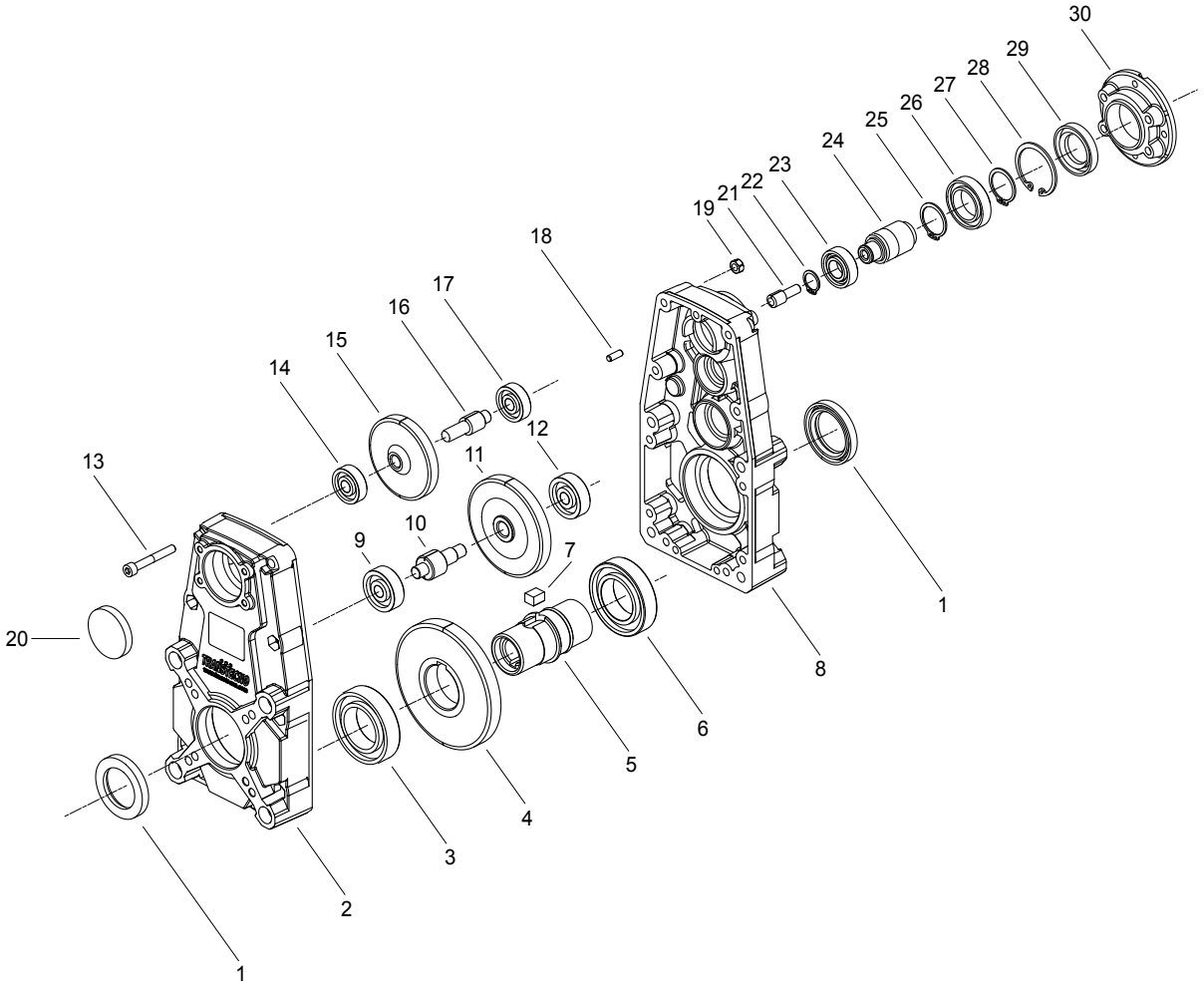
KFT105 - FT105



	Anelli di tenuta / *Oil seals*		RCA
	1	**8**	**22**
FT105	30/47/07	12/22/07	22x7
KFT105			

Lista parti di ricambio *Spare parts list*

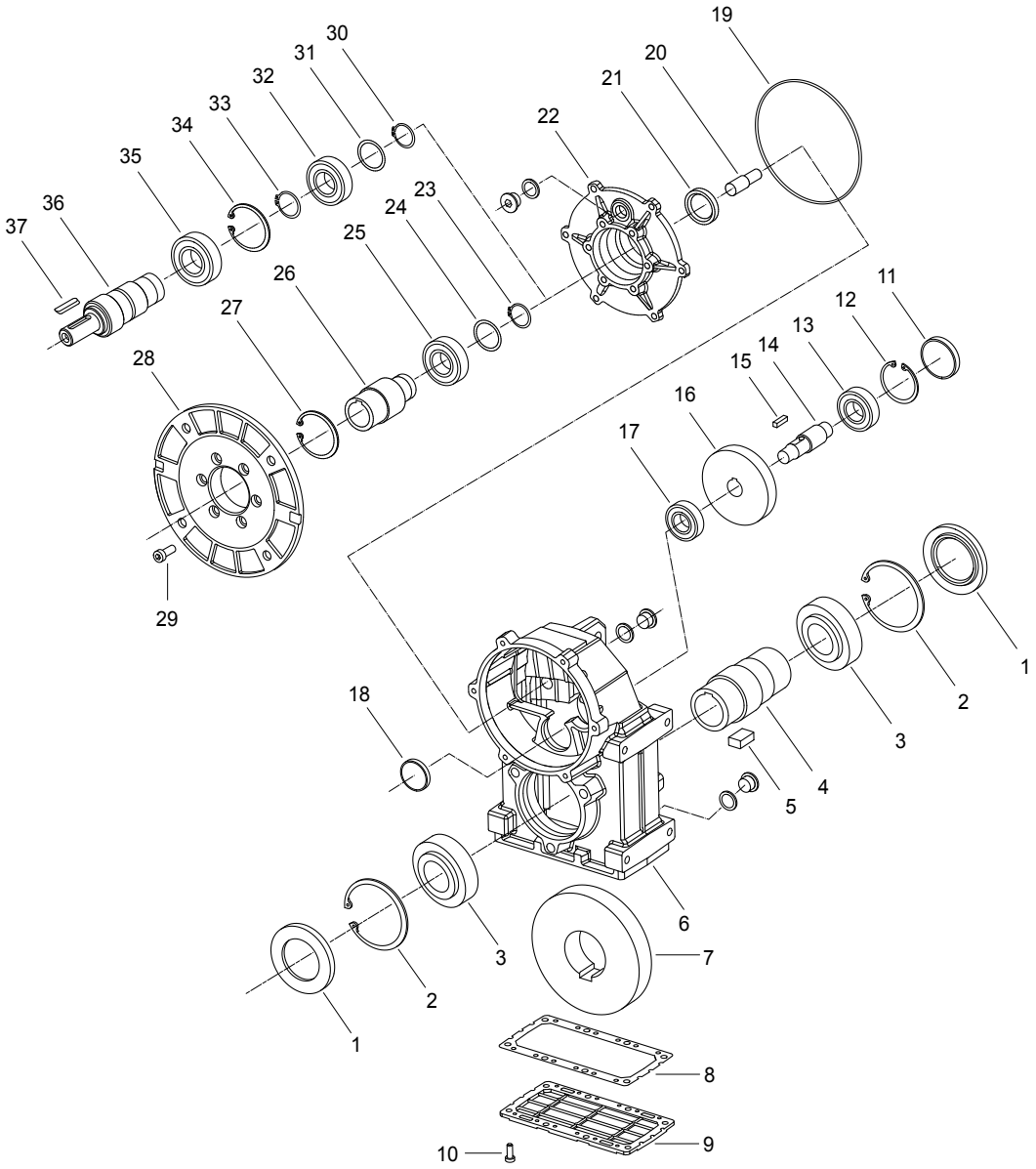
FT146 - FT196



FT	Anelli di tenuta / *Oil seals*		RCA
	1	**20**	**29**
146	35/52/07	25/42/07	42x7
196	50/72/08	30/47/08	47x7

Lista parti di ricambio ***Spare parts list***

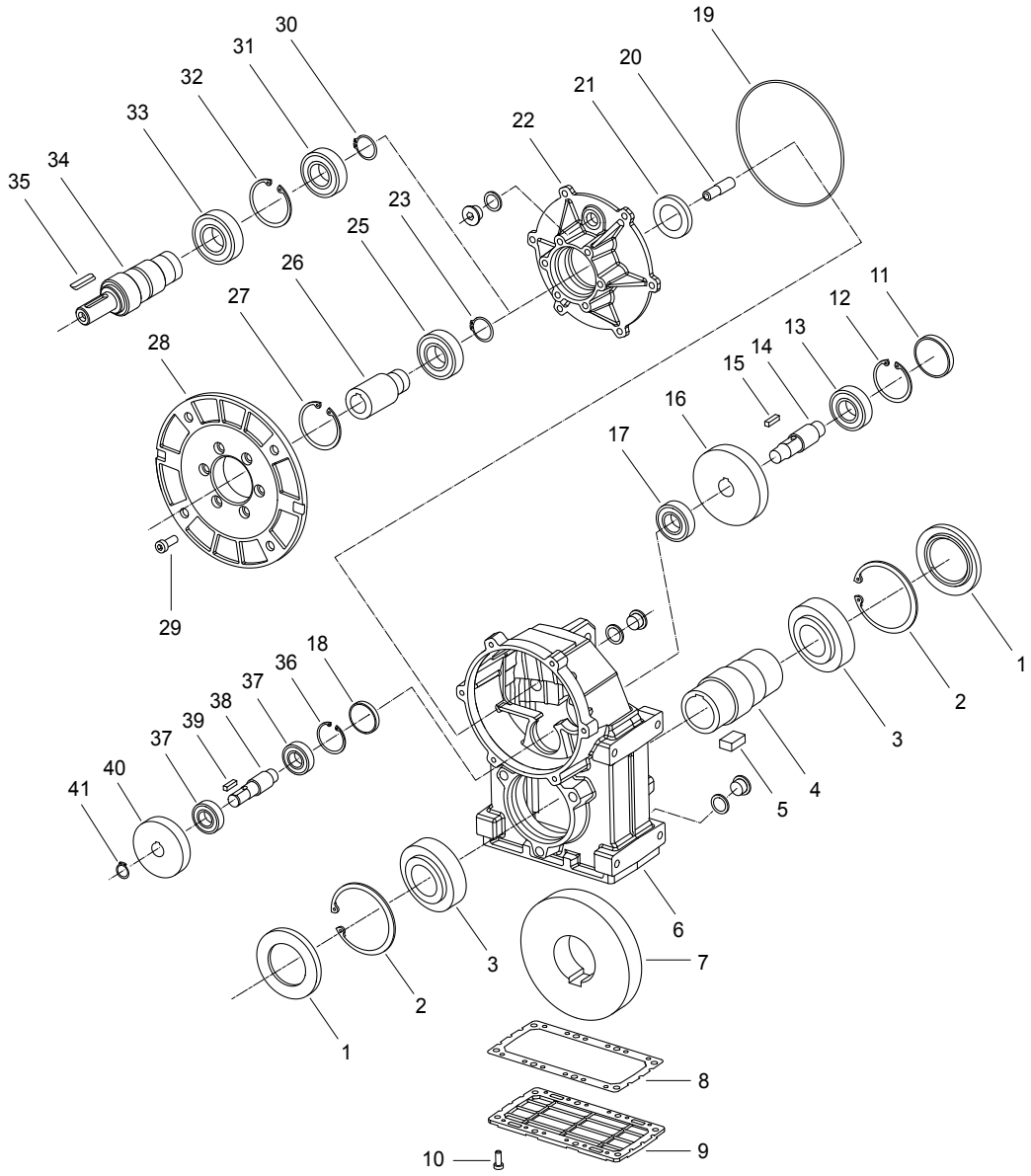
ATS ..2



ATS	Anelli di tenuta / *Oil seals*		RCA
	1	**21**	**11**
902	50/80/8	30/42/7	47x7
912	60/95/8	30/42/7	47x7

Lista parti di ricambio ***Spare parts list***

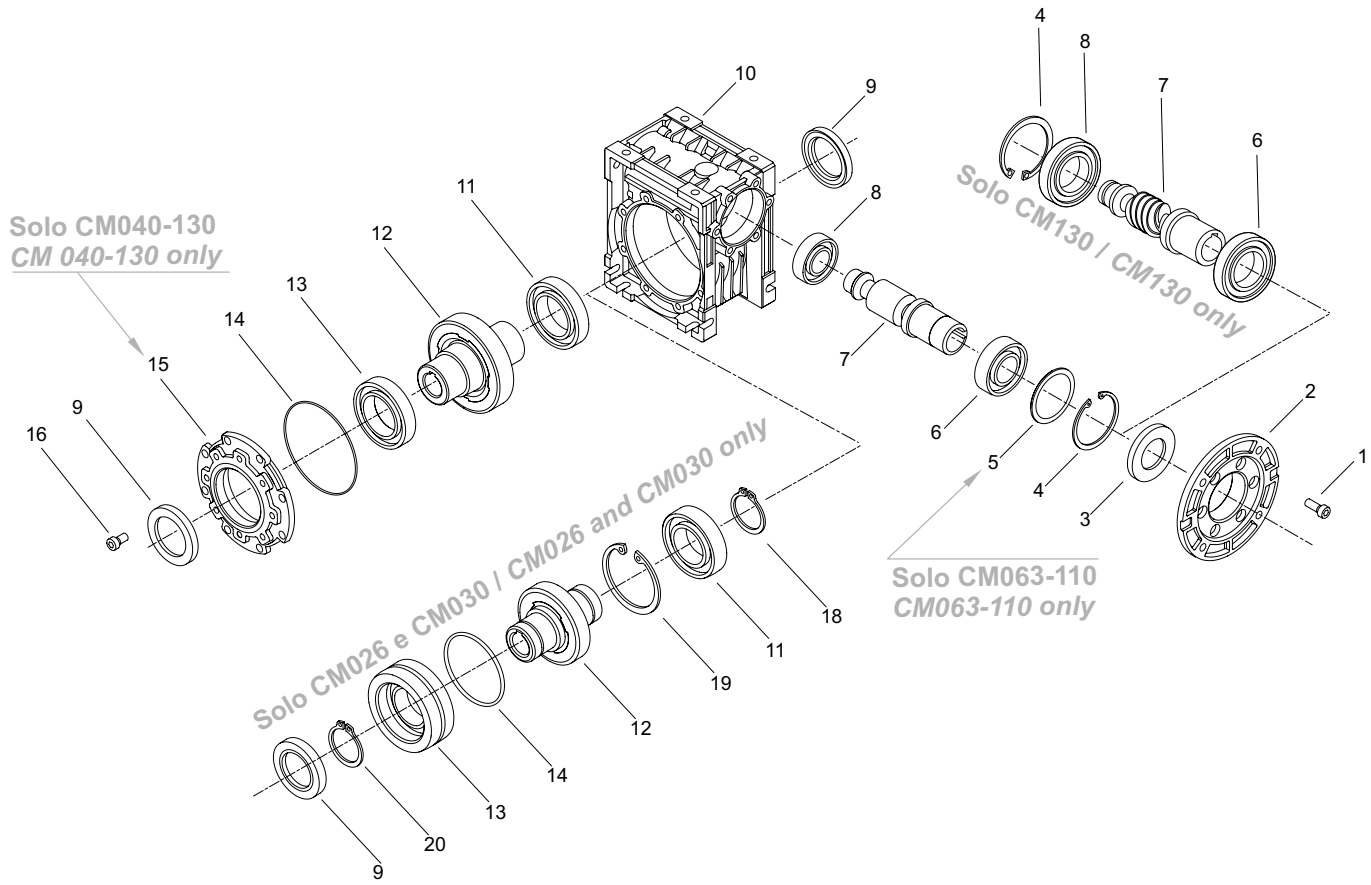
ATS ..3



ATS	Anelli di tenuta / *Oil seals*		RCA
	1	**21**	**11**
903	50/80/8	25/47/7	47x7
913	60/95/8	25/47/7	47x7

Lista parti di ricambio ***Spare parts list***

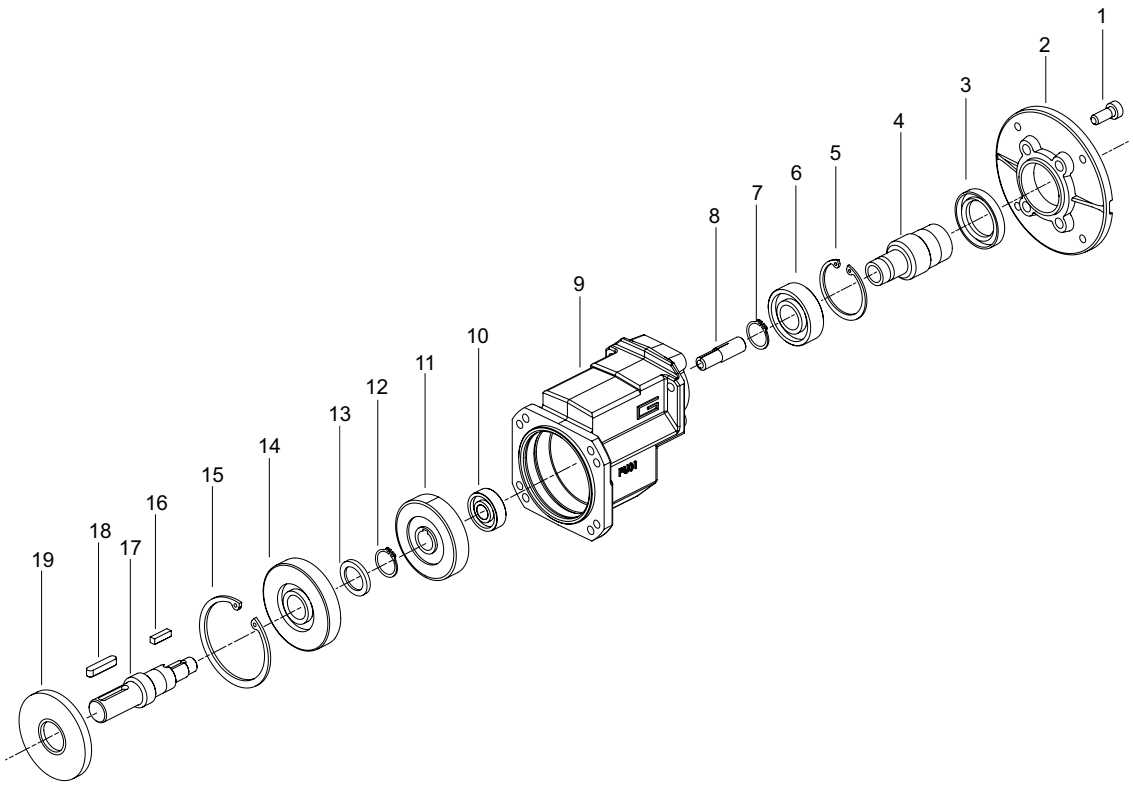
CM026..CM130



CM	Anelli di tenuta / *Oil seals*	
	3	**9**
026	15/28/7	20/32/5
030	20/37/7	25/40/7
040	25/42/7	30/47/7
050	30/47/7	40/55/7
063	35/62/7	45/65/8
070	40/68/8	45/65/8
075	40/68/7	50/72/8
090	40/68/7	60/85/8
110	50/80/8	65/85/10
130	50/65/8	70/90/10

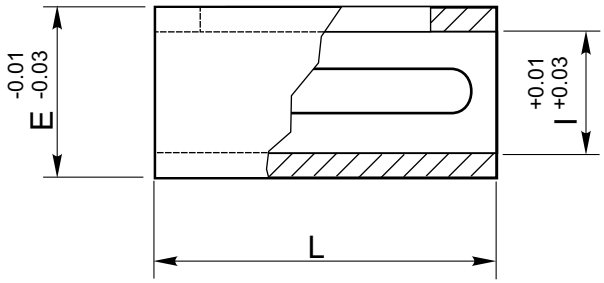
Lista parti di ricambio ***Spare parts list***

PU



PU	Anelli di tenuta / *Oil seals*	
	3	**19**
01	30/47/7	25/72/7

Boccole di riduzione in acciaio — *Metal shaft sleeves*



Tipo / Type	*Dimensioni mm. / Dimensions mm.*		
	E	**I**	**L**
B 0911	11	9	22
B 1114	14	11	28
B 1419	19	14	40
B 1924	24	19	50
B 2428	28	24	60
B 2838	38	28	70
BS 0914	14	9	26
BS 1119	19	11	35
BS 1424	24	14	40
BS 1928	28	19	40
BS 2438	38	24	70

Nota: Le boccole in acciaio sono fornite complete di linguette.
Note: The metal shaft sleeves are supplied complete with keys.

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