
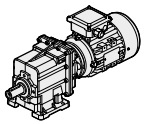

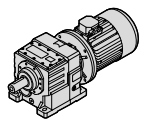




Motoriduttori ad ingranaggi cilindrici  
**Helical in-line gearmotors**





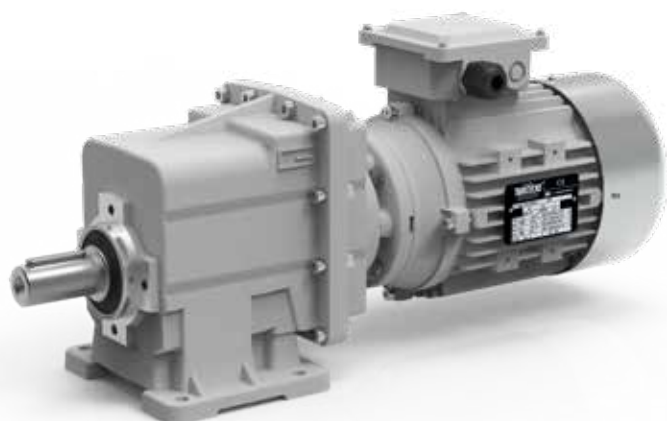
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Questo catalogo annulla e sostituisce ogni precedente edizione o revisione.  
Ci riserviamo inoltre il diritto di apportare modifiche senza preavviso.  
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Motoriduttori ad ingranaggi cilindrici CMG - ITH  
Helical in-line gearmotors CMG - ITH



CMG

Grandezza Sizes	Coppia nominale in uscita Nominal output torque Mn <sub>2</sub> [Nm]	Pag. Page
CMG002	70	B18
CMG012/3	120	B22
CMG022/3	200	B26
CMG032/3	300	B30
CMG042/3	500	B34



ITH

Grandezza Sizes	Coppia nominale in uscita Nominal output torque Mn <sub>2</sub> [Nm]	Pag. Page
ITH 112/3	700	C20
ITH 122/3	980	C22
ITH 132/3	1900	C24
ITH 142/3	3500	C26



<b>Indice</b>	<b>Index</b>	Pag. Page
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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<sup>-1</sup>]

### Input speed

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

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

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

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. 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.

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<sup>-1</sup>]

### 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:

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

### 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<sub>2</sub> [Nm]**

**Nominal torque**

Rappresenta la coppia in uscita trasmissibile dal riduttore in base alla velocità in entrata n<sub>1</sub> 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<sub>2</sub> (coppia trasmessa) e sf (fattore di servizio):

*This is the output torque that can be transmitted by the gearbox according to input speed n<sub>1</sub> 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<sub>2</sub> (output torque) and sf (service factor):*

$$Mn_2 = M_2 \cdot sf$$

**Coppia Trasmessa**

**M<sub>2</sub> [Nm]**

**Output torque**

E' la coppia trasmessa in uscita al riduttore. Dipende dalla potenza P<sub>1</sub> del motore installato, dal numero di giri in uscita n<sub>2</sub> 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<sub>1</sub> of the motor installed, output rpm n<sub>2</sub> 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**

**Efficiency**

I calcoli delle prestazioni sono stati effettuati in base al rendimento dinamico Rd dei riduttori.

*Efficiency is calculated based on dynamic efficiency Rd of the gearboxes.*

Nei riduttori ad ingranaggi il rendimento medio è del 94%.

*On helical gearboxes the average efficiency is 94%.*

**Potenza in entrata**

**P<sub>1</sub> [kW]**

**Input power**

E' la potenza motore applicata in entrata al riduttore e riferita alla velocità n<sub>1</sub>. Può essere calcolata come segue:

*This is the power applied by the motor at the gearbox input in reference to speed n<sub>1</sub>. 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.

<b>A - Uniforme</b>	$fa \leq 0.3$
<b>B - Medio</b>	$fa \leq 3$
<b>C - Forte</b>	$fa \leq 10$

<b>A - Uniform</b>	$fa \leq 0.3$
<b>B - Moderate shocks</b>	$fa \leq 3$
<b>C - Heavy shocks</b>	$fa \leq 10$

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

- Je (kgm<sup>2</sup>) momento d'inerzia esterno ridotto all'albero motore.
- Jm (kgm<sup>2</sup>) momento d'inerzia motore.

Se  $fa > 10$  interpellare il sn. Servizio Tecnico.

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

- Je (kgm<sup>2</sup>) moment of reduced external inertia at the drive-shaft
- Jm (kgm<sup>2</sup>) moment of inertia of motor.

If  $fa > 10$  call our Technical Service.

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

		sf								
		n. avviamenti/ora / n. start-up/hour								
h/d	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**

		sf								
		n. avviamenti/ora / n. start-up/hour								
h/d	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**

		sf								
		n. avviamenti/ora / n. start-up/hour								
h/d	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<sub>2</sub> [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.

*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.*

Il calcolo del carico radiale esterno R agente sull'albero del riduttore può essere determinato come segue:

*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<sub>2</sub> 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<sub>2</sub> 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<sub>2</sub> [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<sub>2</sub> 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<sub>2</sub> 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<sub>2</sub> contattate il ns. Servizio Tecnico.

*If axial load A that acts on the shaft is greater than A<sub>2</sub>, 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. A4 in base alla classe di carico, alle ore di funzionamento giornaliero e al numero di avviamenti orari.

*1. Determine the service factor sf for the desired application by referring to the charts given on page A4. 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 e n<sub>2</sub> il numero di giri richiesti in uscita al motoriduttore.

*where Rd stands for the dynamic efficiency and n<sub>2</sub> 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 <sup>-1</sup> ]	$M_2$ [Nm]	$sf$	$i$			$R_2$ [N]
<b>5.5</b>							
132s4 (1400 min <sup>-1</sup> )	<b>23</b>	2177	1.6	61.74	<b>ITH143</b>	<b>B5</b>	22500
	<b>21</b>	2353	1.5	66.73		<b>B5</b>	22500
	<b>18</b>	2801	1.2	79.43		<b>B5</b>	22500
	<b>16</b>	3028	1.2	85.85		<b>B5</b>	22500

Esempio / Example:

**Applicazione / Application:**

Nastro trasportatore / Conveyor belt

**P** : 5.5 kW  
**sf** : 1.6  
**n<sub>2</sub>** : 23 rpm

Motorizzazione scelta / Power unit selected:

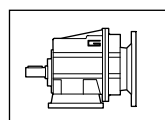
**ITH143 i = 61.74, P<sub>1</sub> = 5.5 kW, sf = 1.6**

## Lubrificazione

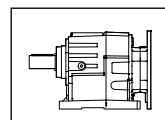
## Lubrication

I motoriduttori della serie CMG e ITH sono forniti completi di lubrificante sintetico viscosità 320 a lunga durata.

All unit sizes of CMG and ITH series are complete with a long life synthetic lubricant, viscosity 320.



**CMG**



**ITH**

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

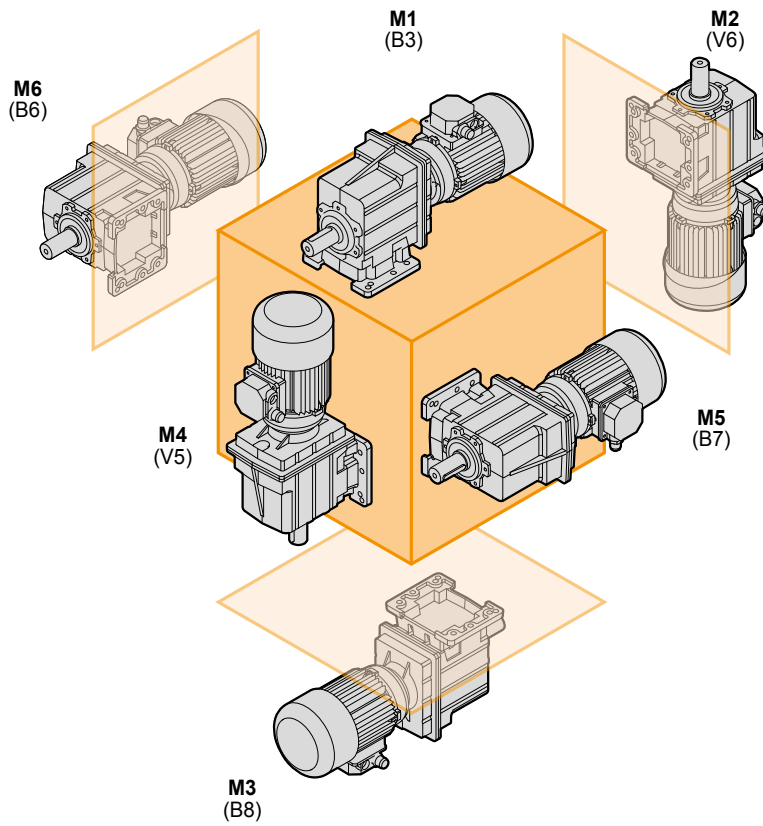
Nelle sezioni specifiche sono riportate le tabelle con le quantità indicative di lubrificante contenute e/o da immettere.

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

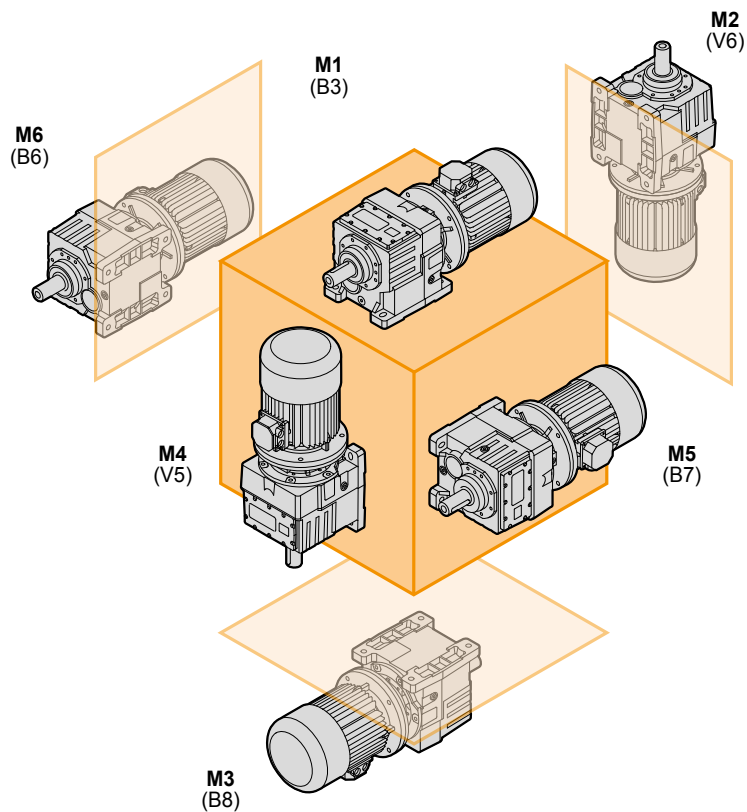
In fase di ordine è necessario specificare sempre la posizione di montaggio desiderata.

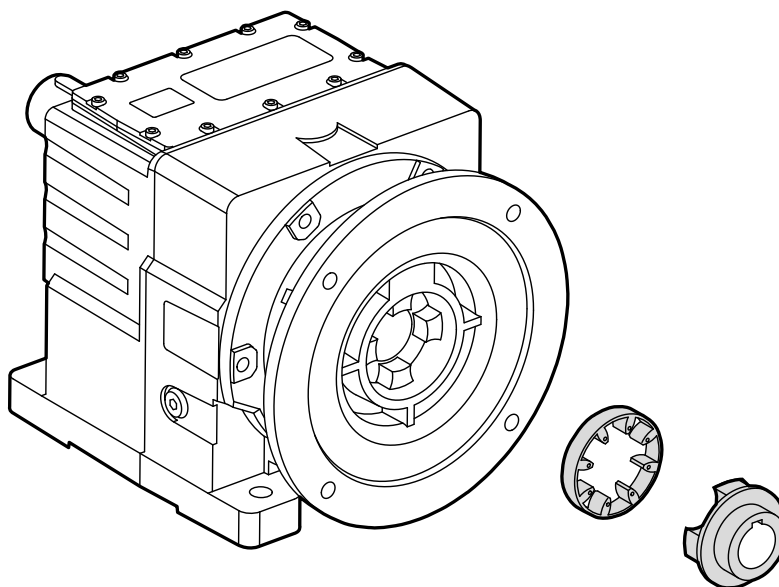
Always specify the desired installation position at the time of order.

CMG



ITH





Nella serie ITH, l'accoppiamento al motore tramite giunto elastico ha i seguenti vantaggi:

- Maggiore rigidità torsionale;
- Smorzamento delle vibrazioni;
- Smorzamento dei picchi d'inerzia del motore;
- Eliminazione dell'ossidazione tra l'albero motore ed il manicotto per tribocorrosione;
- Temperatura di funzionamento inferiore;
- Facilità di smontaggio del motore anche dopo lunghi periodi di utilizzo;

*In the ITH range, the motor connection by flexible coupling allows the following benefits:*

- Increasing torsional rigidity;*
- Reducing vibrations;*
- Cushioning motor start up jerks;*
- Eliminates fretting corrosion phenomenon between motor sleeve and electric motor shaft;*
- Lowering operating temperature;*
- Easy disassembly of the motor after long periods of use;*

**Temperatura di lavoro**

**Operating temperature**

La temperatura ambientale influisce sulle specifiche dei riduttori.

*The environmental temperature affects specifications of gearboxes.*

**Campo di temperatura standard / Standard temperature range**

<b>CMG</b>	-35°C / +50°C
<b>ITH</b>	-25°C / +50°C

**Campi di temperatura speciali / Special temperature range**

	<-35°C	<-15°C	>+50°C
<b>CMG00 - CMG04</b>	usare paraoli in silicone (VMQ) <i>use silicone (VMQ) oil seals</i>  usare lubrificante per basse temperature <i>use low temperature lubricant</i>		usare paraoli in Viton (FPM) <i>use Viton (FPM) oil seals</i>
<b>ITH</b>		dimezzare i carichi radiali in uscita <i>halve the output radial loads</i>	usare lubrificante per alte temperature <i>use high temperature lubricant</i>

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 antinfortunisti- che 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 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 assembly 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.

## 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  $<-25^{\circ}\text{C}$  o  $>+50^{\circ}\text{C}$

## Critical applications

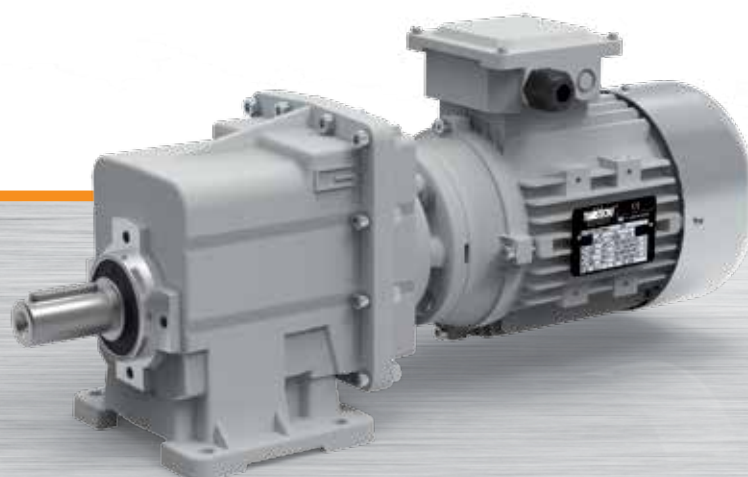
In these cases please contact the Technical Service

- 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  $<-25^{\circ}\text{C}$  or  $>+50^{\circ}\text{C}$

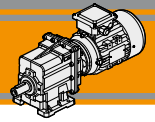




**Motoriduttori ad ingranaggi cilindrici**  
**Helical in-line gearmotors**



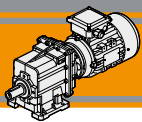




<b>Indice</b>	<b>Index</b>	Pag. Page
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Designazione	<i>Classification</i>	<b>B2</b>
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Lubrificazione	<i>Lubrication</i>	<b>B4</b>
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Questa sezione annulla 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](http://www.transtecno.com)**

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**CMG**

**Motoriduttori ad ingranaggi cilindrici**  
*Helical in-line gearmotors*

**Caratteristiche tecniche**

**Technical features**

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.

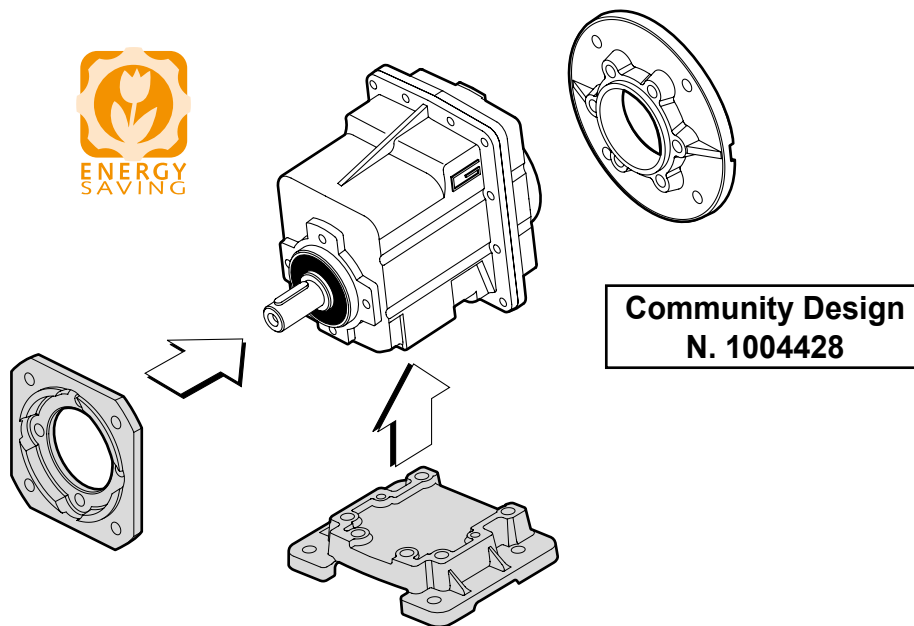
*The high degree of modularity is a design feature of CMG helical in-line gearmotors range. It is possible to set up the version required using flanges or feet.*

Caratteristiche comuni a tutta la serie:

*The main features of CMG range are:*

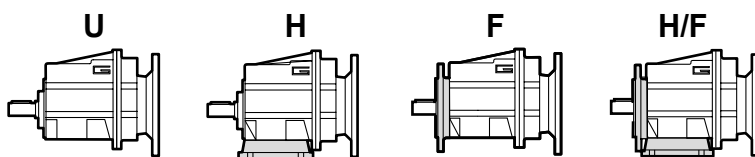
- Carcasa e flangia PAM in pressofusione di alluminio per le taglie 00, 01, 02, 03 e 04.
- Piedi e flange d'uscita in ghisa;
- Ingranaggi cilindrici a denti elicoidali, induriti e rettificati;
- Lubrificazione permanente con olio sintetico.

- *Die-cast aluminium 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.*




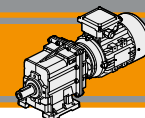
**Designazione**

**Classification**



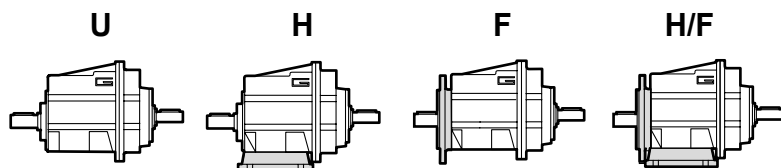
RIDUTTORE / GEARBOX

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



Designazione

Classification



CMG

RIDUTTORE / GEARBOX

CMGIS	01	2	U	9.81	D20
Tipo Type	Grandezza Size	Stadi Stages	Versione Version	Rapporto Ratio	Albero uscita Output shaft
CMGIS	00 01 02 03 04	2 3	U... H... F... H.../F...	vedi tabelle see tables	vedi tabelle see tables

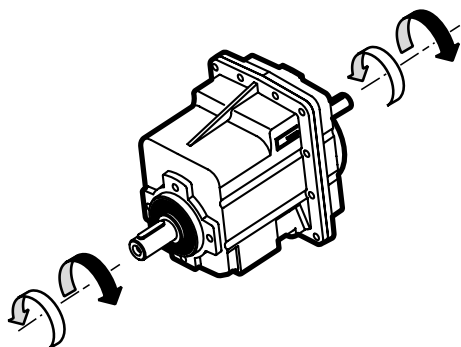
MOTORE / MOTOR

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

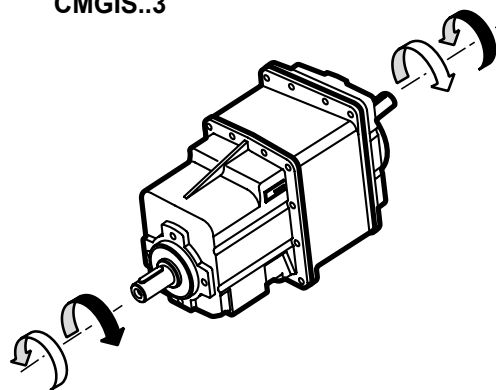
Sensi di rotazione

Direction of rotation

CMG...2  
CMGIS..2



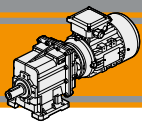
CMG...3  
CMGIS..3



Simbologia

Symbols

$n_1$	[min <sup>-1</sup> ]	Velocità in ingresso / Input speed
$n_2$	[min <sup>-1</sup> ]	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 $P_1$
$P_{n1}$	[kW]	Potenza nominale in entrata / Nominal input power
$M_{n2}$	[Nm]	Coppia nominale in uscita in funzione di $P_{n1}$ / Nominal output torque referred to $P_{n1}$
$sf$		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**

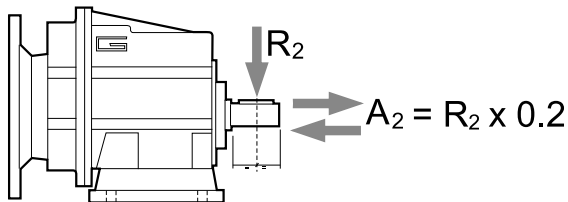
**Lubrication**

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**

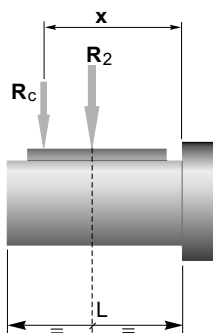
**Radial loads**



n <sub>2</sub> [min <sup>-1</sup> ]	R <sub>2</sub> [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:*

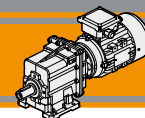


	CMG 00	CMG 01	CMG 02	CMG 03	CMG 04
<b>a</b>	73	104	117	132	150
<b>b</b>	53	84	92	102	115
<b>R<sub>2MAX</sub></b>	1300	2500	5000	6500	8000

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

$$R \leq R_c$$

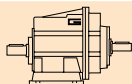
*a, b = valori riportati nella tabella*  
*a, b = values given in the table*



Dati tecnici

$n_1$  1400 min<sup>-1</sup>

Technical data


	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$	IEC Motori applicabili IEC Motor adapters			
					56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14
<b>CMGIS 002</b>								
	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.

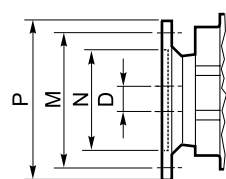
Highlighted areas indicate motor inputs available on each size of unit.

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

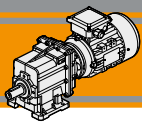
Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B11 alla pag. B17

 \* = 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.



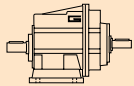
Dimensioni IEC / IEC Dimensions								
	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14
<b>N</b>	80	50	95	60	110	70	130	80
<b>M</b>	100	65	115	75	130	85	165	100
<b>P</b>	120	80	140	90	160	105	200	120
<b>D</b>	9		11		14		19	




**Dati tecnici**

**$n_1$  1400 min<sup>-1</sup>**


**Technical data**


	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$	IEC Motori applicabili IEC Motor adapters					
					56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14	90 B5/B14	
<b>CMGIS 012</b>										
	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				*		*

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$	IEC Motori applicabili IEC Motor adapters					
					56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14	90 B5/B14	
<b>CMGIS 013</b>										
	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.

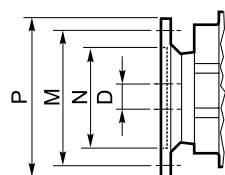
N.B.  
 Highlighted areas indicate motor inputs available on each size of unit.

 \* = 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.

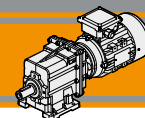
Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B11 alla pag. B17

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	90 B5	90 B14
<b>N</b>	80	50	95	60	110	70	130	80	130	95
<b>M</b>	100	65	115	75	130	85	165	100	165	115
<b>P</b>	120	80	140	90	160	105	200	120	200	140
<b>D</b>	9		11		14		19		24	

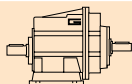





Dati tecnici

$n_1$  1400 min<sup>-1</sup>


Technical data

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$	IEC Motori applicabili IEC Motor adapters					
					56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14	90 B5/B14	
<b>CMGIS 022</b>										
	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						*

	21.9	200	0.49	64.01	IEC Motori applicabili IEC Motor adapters					
					56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14	90 B5/B14	
<b>CMGIS 023</b>										
	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.

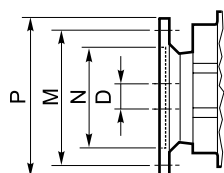
N.B.  
Highlighted areas indicate motor inputs available on each size of unit.

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

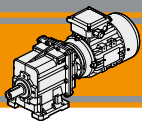
 \* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

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

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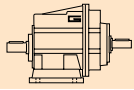
Dimensioni IEC / IEC Dimensions										
	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14
<b>N</b>	80	50	95	60	110	70	130	80	130	95
<b>M</b>	100	65	115	75	130	85	165	100	165	115
<b>P</b>	120	80	140	90	160	105	200	120	200	140
<b>D</b>	9		11		14		19		24	

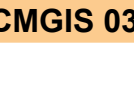


**Dati tecnici**

**$n_1$  1400 min<sup>-1</sup>**


**Technical data**


	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$	IEC Motori applicabili IEC Motor adapters					
					71 B5	80 B5/B14	90 B5/B14	100 B5/B14	112 B5/B14	
<b>CMGIS 032</b>										
	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		*	*		*

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$	IEC Motori applicabili IEC Motor adapters					
					56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14	90 B5/B14	
<b>CMGIS 033</b>										
	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.

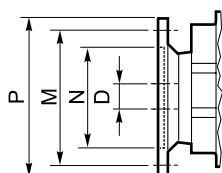
N.B.  
Highlighted areas indicate motor inputs available on each size of unit.  
**B** = Metal shaft sleeve.

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

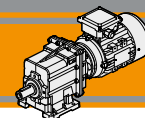
 \* = The service factor (**sf**) has to be selected depending on application: please contact our Technical Department.

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

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



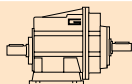
Dimensioni IEC / IEC Dimensions												
	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14	100/112 B5	100/112 B14
<b>N</b>	80	50	95	60	110	70	130	80	130	95	180	110
<b>M</b>	100	65	115	75	130	85	165	100	165	115	215	130
<b>P</b>	120	80	140	90	160	105	200	120	200	140	250	160
<b>D</b>	9		11		14		19		24		28	



Dati tecnici


$n_1$  1400 min<sup>-1</sup>

Technical data

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$	IEC Motori applicabili IEC Motor adapters					
					71 B5	80 B5/B14	90 B5/B14	100 B5/B14	112 B5/B14	
<b>CMGIS 042</b>										
	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			*		*


<b>CMGIS 043</b>					56 B5/B14	63 B5/B14	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.

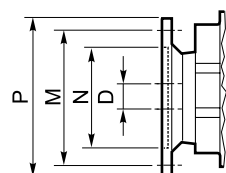
 \* = Il fattore di servizio (sf) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.

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

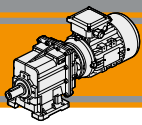
N.B.  
Highlighted areas indicate motor inputs available on each size of unit.  
B = Metal shaft sleeve.

 \* = 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												
	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14	100/112 B5	100/112 B14
N	80	50	95	60	110	70	130	80	130	95	180	110
M	100	65	115	75	130	85	165	100	165	115	215	130
P	120	80	140	90	160	105	200	120	200	140	250	160
D	9		11		14		19		24		28	

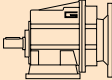

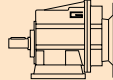



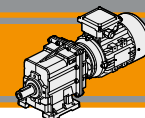
**CMG**

Motoriduttori ad ingranaggi cilindrici  
Helical in-line gearmotors

**Dati tecnici**

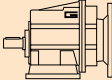

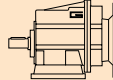

**Technical data**

$P_1$ [kW]	$n_2$ [min <sup>-1</sup> ]	$M_2$ [Nm]	sf	i			$P_1$ [kW]	$n_2$ [min <sup>-1</sup> ]	$M_2$ [Nm]	sf	i		
<b>0.06</b>							<b>0.06</b>						
56A4 (1400 min <sup>-1</sup> )	279	2	20.3	5.03	CMG002	B5/B14	56A4	6.2	87	3.5	225.47	CMG033	B5/B14
	230	2	16.7	6.10			56A4 (1400 min <sup>-1</sup> )	5.3	101	3.0	262.05		B5/B14
	187	3	13.6	7.49				4.3	125	2.4	325.79		B5/B14
	156	4	14.2	8.99				3.7	146	2.1	378.64		B5/B14
	138	4	12.5	10.16				3.3	164	1.8	427.03		B5/B14
	116	5	10.5	12.07								CMG043	B5/B14
	105	5	13.3	13.40			5.3	101	5.0	262.05	B5/B14		
	92.5	6	11.8	15.14			4.3	125	4.0	325.79	B5/B14		
	77.1	7	9.8	18.17			3.7	146	3.4	378.64	B5/B14		
	64.9	8	8.3	21.58			3.3	164	3.0	427.03	B5/B14		
	59.6	9	7.6	23.51									
	55.8	10	7.1	25.10									
	51.7	11	6.6	27.08									
	43.1	13	5.5	32.49									
	33.3	17	4.2	42.04									
	31.2	18	4.0	44.89									
	28.7	19	3.6	48.86									
	25.4	22	3.2	55.10									
	366.7	2	40.0	3.82	CMG012	B5/B14							
	302.3	2	33.0	4.63		B5/B14							
	246.1	2	26.8	5.69		B5/B14							
	181.4	3	26.4	7.72		B5/B14							
	152.7	4	22.2	9.17		B5/B14							
	142.7	4	20.8	9.81		B5/B14							
	121.7	5	22.1	11.50		B5/B14							
	117.6	5	21.4	11.90		B5/B14							
	101.4	5	22.1	13.80		B5/B14							
	95.7	6	20.9	14.62		B5/B14							
	78.4	7	17.1	17.86		B5/B14							
	73.4	7	16.0	19.07		B5/B14							
	70.6	8	15.4	19.83		B5/B14							
	59.4	9	13.0	23.56		B5/B14							
	47.4	12	10.3	29.56		B5/B14							
	39.5	14	8.6	35.47		B5/B14							
	30.5	18	6.7	45.89		B5/B14							
	28.6	19	6.2	49.00		B5/B14							
	26.3	21	5.7	53.33		B5/B14							
	23.3	24	5.1	60.15		B5/B14							
	22.1	24	4.9	63.22	CMG013	B5/B14							
	18.6	29	4.2	75.08		B5/B14							
	15.7	34	3.5	89.17		B5/B14							
	12.4	43	2.8	113.05		B5/B14							
	10.4	52	2.3	134.27		B5/B14							
	8.1	67	1.8	173.72		B5/B14							
	6.9	78	1.5	202.16		B5/B14							
	5.4	101	1.2	261.57		B5/B14							
	4.6	117	1.0	304.00		B5/B14							
	3.6	151	0.8	393.33		B5/B14							
	3.2	171	0.7	443.59		B5/B14							
	21.9	25	8.1	64.01	CMG023	B5/B14							
	18.4	29	6.8	76.02		B5/B14							
	15.5	35	5.8	90.29		B5/B14							
	12.2	44	4.5	114.46		B5/B14							
	10.3	52	3.8	135.95		B5/B14							
	8.0	68	3.0	175.89		B5/B14							
	6.8	79	2.5	204.69		B5/B14							
	5.3	102	2.0	264.84		B5/B14							
	4.5	118	1.7	307.80		B5/B14							
	3.5	153	1.3	398.25		B5/B14							
	3.1	173	1.2	449.14		B5/B14							
							56B4 (1400 min <sup>-1</sup> )	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
								366.7	2	26.7	3.82	CMG012	B5/B14
								302.3	3	22.0	4.63		B5/B14
								246.1	3	17.9	5.69		B5/B14
								181.4	5	17.6	7.72		B5/B14
								152.7	5	14.8	9.17		B5/B14
								142.7	6	13.8	9.81		B5/B14
								121.7	7	14.8	11.50		B5/B14
								117.6	7	14.3	11.90		B5/B14
								101.4	8	14.8	13.80		B5/B14
								95.7	9	13.9	14.62		B5/B14
								78.4	11	11.4	17.86		B5/B14
								73.4	11	10.7	19.07		B5/B14
								70.6	12	10.3	19.83		B5/B14
								59.4	14	8.6	23.56		B5/B14
								47.4	17	6.9	29.56		B5/B14
								39.5	21	5.7	35.47		B5/B14
								30.5	27	4.4	45.89		B5/B14
								28.6	29	4.2	49.00		B5/B14
								26.3	31	3.8	53.33		B5/B14
								23.3	35	3.4	60.15		B5/B14
								22.1	36	3.3	63.22	CMG013	B5/B14
								18.6	43	2.8	75.08		B5/B14
								15.7	51	2.3	89.17		B5/B14
								12.4	65	1.8	113.05		B5/B14
								10.4	77	1.5	134.27		B5/B14
								8.1	100	1.2	173.72		B5/B14
								6.9	117	1.0	202.16		B5/B14
								5.4	151	0.8	261.57		B5/B14



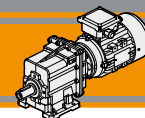
Dati tecnici

Technical data

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i				
<b>0.09</b>							<b>0.12</b>								
56B4 (1400 min <sup>-1</sup> )	21.9	37	5.4	64.01	CMG023	B5/B14	63A4 (1400 min <sup>-1</sup> )	5.4	171	0.7	261.57	CMG023	B5/B14		
	18.4	44	4.6	76.02			4.6	171	0.7	304.00	B5/B14				
15.5	52	3.8	90.29	3.6			171	0.7	393.33	B5/B14					
12.2	66	3.0	114.46	3.2			171	0.7	443.59	B5/B14					
10.3	78	2.5	135.95												
8.0	102	2.0	175.89					21.9	49	4.1	64.01				B5/B14
6.8	118	1.7	204.69					18.4	58	3.4	76.02				B5/B14
5.3	153	1.3	264.84					15.5	69	2.9	90.29				B5/B14
4.5	178	1.1	307.80					12.2	88	2.3	114.46				B5/B14
3.5	230	0.9	398.25					10.3	105	1.9	135.95				B5/B14
3.1	259	0.8	449.14			8.0	135	1.5	175.89		B5/B14				
						6.8	157	1.3	204.69		B5/B14				
						5.3	204	1.0	264.84		B5/B14				
12.1	67	4.5	115.74	CMG033	B5/B14	4.5	237	0.8	307.80		B5/B14				
9.9	81	3.7	140.81			3.5	285	0.7	398.25		B5/B14				
8.0	101	3.0	174.26			3.1	285	0.7	449.14		B5/B14				
6.2	130	2.3	225.47												
5.3	151	2.0	262.05												
4.3	188	1.6	325.79			19.2	56	5.4	72.83	CMG033	B5/B14				
3.7	219	1.4	378.64			14.4	75	4.0	97.45			B5/B14			
3.3	246	1.2	427.03			12.1	89	3.4	115.74			B5/B14			
						9.9	108	2.8	140.81			B5/B14			
8.0	101	5.0	174.26	CMG043	B5/B14	8.0	134	2.2	174.26				B5/B14		
6.2	130	3.8	225.47			6.2	173	1.7	225.47		B5/B14				
5.3	151	3.3	262.05			5.3	202	1.5	262.05		B5/B14				
4.3	188	2.7	325.79			4.3	251	1.2	325.79		B5/B14				
3.7	219	2.3	378.64			3.7	291	1.0	378.64		B5/B14				
3.3	246	2.03	427.03			3.3	329	0.9	427.03		B5/B14				
						19.2	56	8.9	72.83	CMG043	B5/B14				
						14.4	75	6.7	97.45			B5/B14			
						12.1	89	5.6	115.74			B5/B14			
						9.9	108	4.6	140.81			B5/B14			
						8.0	134	3.7	174.26			B5/B14			
						6.2	173	2.9	225.47	B5/B14					
						5.3	202	2.5	262.05	B5/B14					
						4.3	251	2.0	325.79	B5/B14					
						3.7	291	1.7	378.64	B5/B14					
						3.3	329	1.5	427.03	B5/B14					
<b>0.12</b>							<b>0.18</b>								
63A4 (1400 min <sup>-1</sup> )	279	4	10.1	5.03	CMG002	B5/B14	63B4 (1400 min <sup>-1</sup> )	279	6	6.8	5.03	CMG002	B5/B14		
	230	5	8.3	6.10			230	7	5.6	6.10	B5/B14				
187	6	6.8	7.49	187			9	4.5	7.49	B5/B14					
156	7	7.1	8.99	156			11	4.7	8.99	B5/B14					
138	8	6.3	10.16	138			12	4.2	10.16	B5/B14					
116	9	5.3	12.07	116			14	3.5	12.07	B5/B14					
105	11	6.7	13.40	105			16	4.4	13.40	B5/B14					
92.5	12	5.9	15.14	92.5			18	3.9	15.14	B5/B14					
77.1	14	4.9	18.17	77.1			21	3.3	18.17	B5/B14					
64.9	17	4.1	21.58	64.9			25	2.8	21.58	B5/B14					
59.6	18	3.8	23.51	59.6			28	2.5	23.51	B5/B14					
55.8	20	3.5	25.10	55.8			30	2.4	25.10	B5/B14					
51.7	21	3.3	27.08	51.7			32	2.2	27.08	B5/B14					
43.1	26	2.7	32.49	43.1			38	1.8	32.49	B5/B14					
33.3	33	2.1	42.04	33.3			50	1.4	42.04	B5/B14					
31.2	35	2.0	44.89	31.2			53	1.3	44.89	B5/B14					
28.7	38	1.8	48.86	28.7			58	1.2	48.86	B5/B14					
25.4	43	1.6	55.10	25.4			65	1.1	55.10	B5/B14					
59.4	19	6.5	23.56	CMG012			B5/B14	77.1	21	3.3	18.17				B5/B14
47.4	23	5.2	29.56		64.9	25		2.8	21.58		B5/B14				
39.5	28	4.3	35.47		59.6	28		2.5	23.51		B5/B14				
30.5	36	3.3	45.89		55.8	30		2.4	25.10		B5/B14				
28.6	39	3.1	49.00		51.7	32		2.2	27.08		B5/B14				
26.3	42	2.9	53.33												
23.3	47	2.5	60.15												
22.1	49	2.5	63.22	CMG013	B5/B14	43.1	38	1.8	32.49		B5/B14				
18.6	58	2.1	75.08			33.3	50	1.4	42.04		B5/B14				
15.7	69	1.7	89.17			31.2	53	1.3	44.89		B5/B14				
12.4	87	1.4	113.05			28.7	58	1.2	48.86		B5/B14				
10.4	103	1.2	134.27			25.4	65	1.1	55.10		B5/B14				
8.1	134	0.9	173.72												
6.9	156	0.8	202.16												

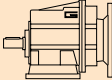

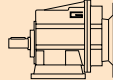

N.B.  
Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio  
N.B.  
Please check that the output torque M2 does not exceed the value in the grey areas





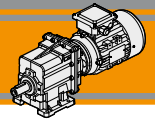
Dati tecnici

Technical data

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			
<b>0.25</b>							<b>0.37</b>							
71A4 (1400 min <sup>-1</sup> )	19.2	117	4.3	72.83	CMG043	B5/B14	71B4 (1400 min <sup>-1</sup> )	58.7	58	3.5	23.85	CMG022	B5/B14	
	14.4	156	3.2	97.45				46.8	73	2.8	29.93			B5/B14
	12.1	186	2.7	115.74				39.0	87	2.3	35.91			
	9.9	226	2.2	140.81				30.1	113	1.8	46.46			
	8.0	279	1.8	174.26				28.2	120	1.7	49.61			
	6.2	361	1.4	225.47				25.9	131	1.5	54.00			
	5.3	420	1.2	262.05				23.0	148	1.4	60.90			
	4.3	522	1.0	325.79										
3.7	607	0.8	378.64											
							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
<b>0.37</b>							<b>0.55</b>							
71B4 (1400 min <sup>-1</sup> )	279	12	3.3	5.03	CMG002	B5/B14	80A4 (1400 min <sup>-1</sup> )	279	18	2.2	5.03	CMG002	B5/B14	
	230	15	2.7	6.10				230	22	1.8	6.10			B5/B14
	187	18	2.2	7.49				187	27	1.5	7.49			
	156	22	2.3	8.99				156	32	1.5	8.99			
	138	25	2.0	10.16				138	37	1.4	10.16			
	116	29	1.7	12.07				116	43	1.2	12.07			
	105	32	2.2	13.40				105	48	1.5	13.40			
	92.5	37	1.9	15.14				92.5	55	1.3	15.14			
	77.1	44	1.6	18.17				77.1	65	1.1	18.17			
	64.9	52	1.3	21.58				64.9	78	0.9	21.58			
	59.6	57	1.2	23.51				59.6	85	0.8	23.51			
	55.8	61	1.2	25.10										
	51.7	66	1.1	27.08										
	43.1	79	0.9	32.49										
					CMG012	B5/B14		19.2	173	1.7	72.83	CMG033	B5/B14	
	367	9	6.5	3.82				14.4	231	1.3	97.45			B5/B14
	302	11	5.3	4.63				12.1	275	1.1	115.74			
	246	14	4.4	5.69				9.9	334	0.9	140.81			
	181	19	4.3	7.72				19.2	173	2.9	72.83			
	153	22	3.6	9.17				14.4	231	2.2	97.45			
	143	24	3.4	9.81				12.1	275	1.8	115.74			
	122	28	3.6	11.50				9.9	334	1.5	140.81			
	118	29	3.5	11.90				8.0	413	1.2	174.26			
	101	33	3.6	13.80				6.2	535	0.9	225.47			
95.7	35	3.4	14.62											
78.4	43	2.8	17.86											
73.4	46	2.6	19.07											
70.6	48	2.5	19.83											
59.4	57	2.1	23.56											
47.4	72	1.7	29.56											
39.5	86	1.4	35.47											
30.5	111	1.1	45.89											
28.6	119	1.0	49.00											
26.3	129	0.9	53.33											
23.3	146	0.8	60.15											
				CMG013	B5/B14	22.1	150	0.8	63.22	CMG043	B5/B14			
383	9	11.3	3.66			19.2	173	2.9	72.83			B5/B14		
316	11	9.3	4.43			14.4	231	2.2	97.45					
257	13	7.6	5.45			12.1	275	1.8	115.74					
189	18	6.7	7.39			9.9	334	1.5	140.81					
160	21	5.6	8.78			8.0	413	1.2	174.26					
141	24	5.0	9.93			6.2	535	0.9	225.47					
127	27	7.5	11.01											
116	29	6.8	12.05											
106	32	6.2	13.21											
94.6	36	5.6	14.81											
81.9	41	3.9	17.10											
76.7	44	3.6	18.26											
69.7	49	4.1	20.08											

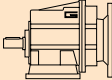

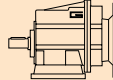



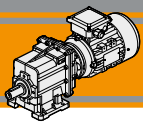




Dati tecnici

Technical data

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			
<b>0.75</b>							<b>1.1</b>							
80B4 (1400 min <sup>-1</sup> )	374	18	8.2	3.74	CMG032	B5/B14	90S4 (1400 min <sup>-1</sup> )	383	26	3.8	3.66	CMG022	B5/B14	
	311	22	6.8	4.50		B5/B14		316	32	3.1	4.43		B5/B14	
	255	27	5.6	5.48		B5/B14		257	39	2.5	5.45		B5/B14	
	222	31	5.8	6.31		B5/B14		189	53	2.3	7.39		B5/B14	
	177	39	4.6	7.93		B5/B14		160	63	1.9	8.78		B5/B14	
	154	45	4.0	9.08		B5/B14		141	72	1.7	9.93		B5/B14	
	128	54	3.4	10.93		B5/B14		127	79	2.5	11.01		B5/B14	
	111	62	4.0	12.60		B5/B14		116	87	2.3	12.05		B5/B14	
	105	65	3.8	13.30		B5/B14		106	95	2.1	13.21		B5/B14	
	91.5	75	3.7	15.30		B5/B14		94.6	107	1.9	14.81		B5/B14	
	76.9	89	3.1	18.21	B5/B14	81.9		123	1.3	17.10	B5/B14			
	72.8	94	3.0	19.24	B5/B14	76.7		132	1.2	18.26	B5/B14			
	66.2	104	2.7	21.15	B5/B14	69.7		145	1.4	20.08	B5/B14			
	56.0	123	2.4	24.99	B5/B14	58.7		172	1.2	23.85	B5/B14			
	45.8	150	2.0	30.57	B5/B14	46.8		216	0.9	29.93	B5/B14			
	40.9	168	1.8	34.20	B5/B14	39.0		259	0.8	35.91	B5/B14			
	36.2	190	1.6	38.63	B5/B14									
	31.7	217	1.4	44.18	B5/B14	374		27	5.6	3.74	CMG032	B5/B14		
	27.3	252	1.2	51.30	B5/B14	311		32	4.6	4.50		B5/B14		
	23.0	299	1.0	60.80	B5/B14	255		39	3.8	5.48		B5/B14		
						222		45	4.0	6.31		B5/B14		
	374	18	12.5	3.74	CMG042	B5/B14		177	57	3.2		7.93	B5/B14	
	311	22	10.4	4.50		B5/B14		154	65	2.8		9.08	B5/B14	
	255	27	8.5	5.48		B5/B14		128	79	2.3		10.93	B5/B14	
	222	31	8.4	6.31		B5/B14		111	91	2.8		12.60	B5/B14	
	177	39	6.7	7.93		B5/B14		105	96	2.6		13.30	B5/B14	
	154	45	6.3	9.08		B5/B14		91.5	110	2.5		15.30	B5/B14	
	128	54	5.2	10.93		B5/B14		76.9	131	2.1	18.21	B5/B14		
	111	62	5.7	12.60		B5/B14		72.8	139	2.0	19.24	B5/B14		
	105	65	5.4	13.30		B5/B14		66.2	152	1.8	21.15	B5/B14		
	91.5	75	5.6	15.30		B5/B14		56.0	180	1.7	24.99	B5/B14		
	76.9	89	4.7	18.21	B5/B14	45.8		220	1.4	30.57	B5/B14			
	72.8	94	4.4	19.24	B5/B14	40.9		246	1.2	34.20	B5/B14			
	66.2	104	4.1	24.99	B5/B14	36.2		278	1.1	38.63	B5/B14			
	56.0	123	3.3	30.57	B5/B14	31.7		318	0.9	44.18	B5/B14			
45.8	150	3.0	34.20	B5/B14										
40.9	168	2.6	38.63	B5/B14	374	27	8.5	3.74	CMG042	B5/B14				
36.2	190	2.3	44.18	B5/B14	311	32	7.1	4.50		B5/B14				
31.7	217	2.0	51.30	B5/B14	255	39	5.8	5.48		B5/B14				
27.3	252	1.6	60.80	B5/B14	222	45	5.7	6.31		B5/B14				
					177	57	4.6	7.93		B5/B14				
19.2	350	1.4	72.83	CMG043	B5/B14	154	65	4.3		9.08	B5/B14			
14.4	469	1.1	97.45		B5/B14	128	79	3.6		10.93	B5/B14			
12.1	557	0.9	115.74		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				
<b>1.1</b>							<b>1.1</b>							
90S4 (1400 min <sup>-1</sup> )	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								

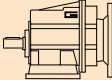

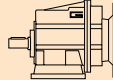



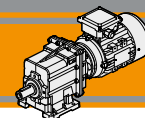
**CMG**

Motoriduttori ad ingranaggi cilindrici  
Helical in-line gearmotors

**Dati tecnici**

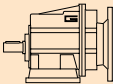

**Technical data**

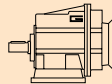

$P_1$ [kW]	$n_2$ [min <sup>-1</sup> ]	$M_2$ [Nm]	sf	i			$P_1$ [kW]	$n_2$ [min <sup>-1</sup> ]	$M_2$ [Nm]	sf	i				
<b>1.5</b>							<b>1.85</b>								
90L4 (1400 min <sup>-1</sup> )	<b>367</b>	38	1.6	3.82	<b>CMG012</b>	<b>B5/B14</b>	90LB4 (1400 min <sup>-1</sup> )	<b>367</b>	46	1.3	3.82	<b>CMG012</b>	<b>B5/B14</b>		
	<b>302</b>	45	1.3	4.63				<b>302</b>	56	1.1	4.63				
	<b>246</b>	56	1.1	5.69											
	<b>181</b>	76	1.1	7.72				<b>383</b>	44	2.3	3.66			<b>CMG022</b>	<b>B5/B14</b>
	<b>153</b>	90	0.9	9.17				<b>316</b>	54	1.9	4.43				
						<b>257</b>	66	1.5	5.45	<b>B5/B14</b>					
	<b>383</b>	36	2.8	3.66	<b>CMG022</b>	<b>B5/B14</b>	<b>189</b>	90	1.3	7.39	<b>B5/B14</b>				
	<b>316</b>	44	2.3	4.43				<b>160</b>	106	1.1	8.78	<b>B5/B14</b>			
	<b>257</b>	54	1.9	5.45				<b>141</b>	120	1.0	9.93	<b>B5/B14</b>			
	<b>189</b>	73	1.7	7.39				<b>127</b>	133	1.5	11.01	<b>B5/B14</b>			
	<b>160</b>	86	1.4	8.78				<b>116</b>	146	1.4	12.05	<b>B5/B14</b>			
	<b>141</b>	98	1.2	9.93							<b>CMG022</b>	<b>B5/B14</b>			
	<b>127</b>	108	1.8	11.01		<b>106</b>	160	1.2	13.21						
	<b>116</b>	118	1.7	12.05		<b>94.6</b>	179	1.1	14.81						
	<b>106</b>	130	1.5	13.21		<b>81.9</b>	207	0.8	17.10						
	<b>94.6</b>	145	1.4	14.81											
	<b>81.9</b>	168	1.0	17.10							<b>CMG032</b>	<b>B5/B14</b>			
	<b>76.7</b>	179	0.9	18.26		<b>374</b>	45	3.3	3.74						
	<b>69.7</b>	197	1.0	20.08		<b>311</b>	55	2.7	4.50				<b>B5/B14</b>		
	<b>58.7</b>	234	0.9	23.85		<b>255</b>	66	2.3	5.48				<b>B5/B14</b>		
						<b>222</b>	76	2.4	6.31				<b>B5/B14</b>		
	<b>374</b>	37	4.1	3.74	<b>CMG032</b>	<b>B5/B14</b>	<b>177</b>	96	1.9	7.93		<b>B5/B14</b>			
	<b>311</b>	44	3.4	4.50				<b>154</b>	110	1.6	9.08		<b>B5/B14</b>		
	<b>255</b>	54	2.8	5.48				<b>128</b>	132	1.4	10.93		<b>B5/B14</b>		
	<b>222</b>	62	2.9	6.31				<b>111</b>	153	1.6	12.60		<b>B5/B14</b>		
	<b>177</b>	78	2.3	7.93				<b>105</b>	161	1.6	13.30		<b>B5/B14</b>		
	<b>154</b>	89	2.0	9.08		<b>91.5</b>	185	1.5	15.30		<b>B5/B14</b>				
	<b>128</b>	107	1.7	10.93		<b>76.9</b>	221	1.3	18.21		<b>B5/B14</b>				
	<b>111</b>	124	2.0	12.60		<b>72.8</b>	233	1.2	19.24		<b>B5/B14</b>				
	<b>105</b>	131	1.9	13.30		<b>66.2</b>	256	1.1	21.15		<b>B5/B14</b>				
	<b>91.5</b>	150	1.9	15.30		<b>56.0</b>	303	1.0	24.99		<b>B5/B14</b>				
	<b>76.9</b>	179	1.6	18.21		<b>45.8</b>	370	0.8	30.57		<b>B5/B14</b>				
	<b>72.8</b>	189	1.5	19.24							<b>CMG042</b>	<b>B5/B14</b>			
	<b>66.2</b>	208	1.3	21.15		<b>374</b>	45	5.1	3.74						
	<b>56.0</b>	245	1.2	24.99		<b>311</b>	55	4.2	4.50						
	<b>45.8</b>	300	1.0	30.57		<b>255</b>	66	3.5	5.48						
	<b>40.9</b>	336	0.9	34.20		<b>222</b>	76	3.4	6.31						
	<b>36.2</b>	379	0.8	38.63		<b>177</b>	96	2.7	7.93		<b>B5/B14</b>				
						<b>154</b>	110	2.5	9.08		<b>B5/B14</b>				
	<b>374</b>	37	6.3	3.74	<b>CMG042</b>	<b>B5/B14</b>	<b>128</b>	132	2.1	10.93		<b>B5/B14</b>			
	<b>311</b>	44	5.2	4.50				<b>111</b>	153	2.3	12.60		<b>B5/B14</b>		
	<b>255</b>	54	4.3	5.48				<b>105</b>	161	2.2	13.30		<b>B5/B14</b>		
	<b>222</b>	62	4.2	6.31				<b>91.5</b>	185	2.3	15.30		<b>B5/B14</b>		
	<b>177</b>	78	3.3	7.93				<b>76.9</b>	221	1.9	18.21		<b>B5/B14</b>		
	<b>154</b>	89	3.1	9.08		<b>72.8</b>	233	1.8	19.24		<b>B5/B14</b>				
	<b>128</b>	107	2.6	10.93		<b>56.0</b>	303	1.7	24.99		<b>B5/B14</b>				
	<b>111</b>	124	2.8	12.60		<b>45.8</b>	370	1.3	30.57		<b>B5/B14</b>				
	<b>105</b>	131	2.7	13.30		<b>40.9</b>	414	1.2	34.20		<b>B5/B14</b>				
	<b>91.5</b>	150	2.8	15.30		<b>36.2</b>	468	1.1	38.63		<b>B5/B14</b>				
	<b>76.9</b>	179	2.3	18.21		<b>31.7</b>	535	0.9	44.18		<b>B5/B14</b>				
	<b>72.8</b>	189	2.2	19.24		<b>27.3</b>	621	0.8	51.30		<b>B5/B14</b>				
	<b>56.0</b>	245	2.0	24.99											
	<b>45.8</b>	300	1.7	30.57											
	<b>40.9</b>	336	1.5	34.20											
	<b>36.2</b>	379	1.3	38.63											
	<b>31.7</b>	434	1.2	44.18											
	<b>27.3</b>	504	1.0	51.30											

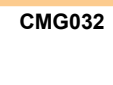



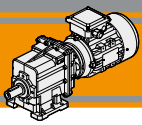
Dati tecnici

Technical data

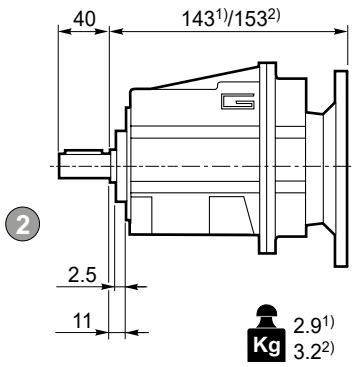
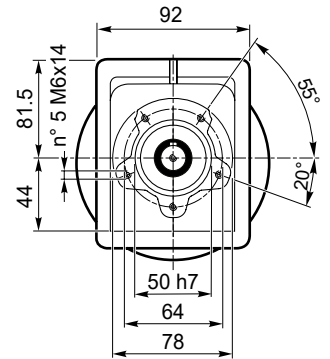
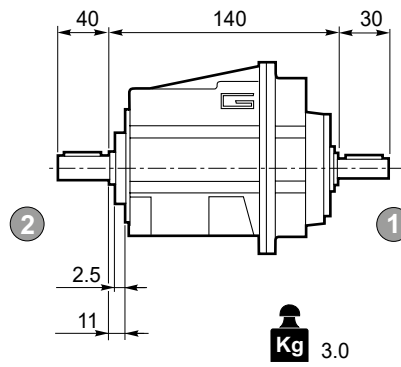
P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i		
<b>2.2</b>						
100LA4 (1400 min <sup>-1</sup> )	374	54	2.8	3.74	CMG032	B5/B14
	311	65	2.3	4.50		B5/B14
	255	79	1.9	5.48		B5/B14
	222	91	2.0	6.31		B5/B14
	177	114	1.6	7.93		B5/B14
	154	131	1.4	9.08		B5/B14
	128	157	1.1	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		
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	

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			
<b>4</b>							
112M4 (1400 min <sup>-1</sup> )	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		

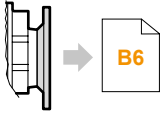
P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i		
<b>3</b>						
100LB4 (1400 min <sup>-1</sup> )	374	74	2.0	3.74	CMG032	B5/B14
	311	88	1.7	4.50		B5/B14
	255	108	1.4	5.48		B5/B14
	222	124	1.5	6.31		B5/B14
	177	156	1.2	7.93		B5/B14
	154	178	1.0	9.08		B5/B14
	128	215	0.8	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		

**CMG**

Motoriduttori ad ingranaggi cilindrici  
Helical in-line gearmotors

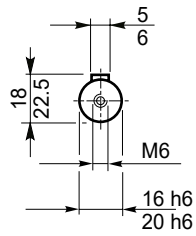
**Dimensioni****Dimensions****CMG 002 U****CMG 002 U****CMGIS 002 U**<sup>1</sup>IEC 63/71, <sup>2</sup>IEC 80

Flangia entrata  
Input flange



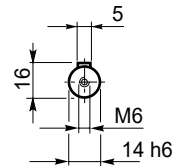
Albero uscita  
Output shaft

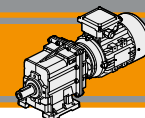
2



Albero entrata  
Input shaft

1



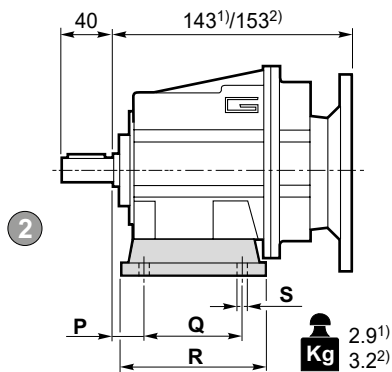


Dimensioni

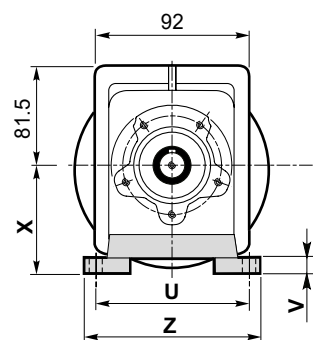
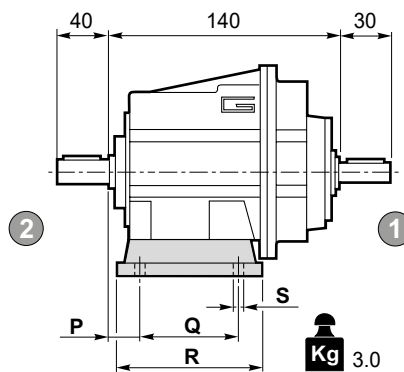
Dimensions

CMG 002 H..

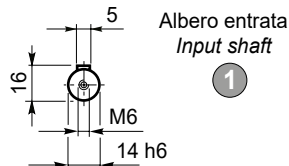
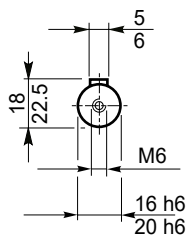
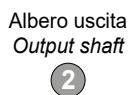
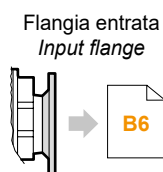
CMG 002 H..



CMGIS 002 H..

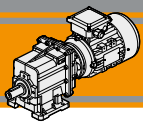


<sup>1)</sup>IEC 63/71, <sup>2)</sup>IEC 80



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

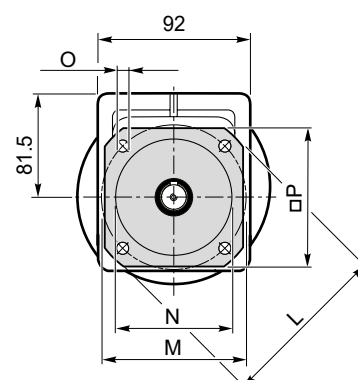
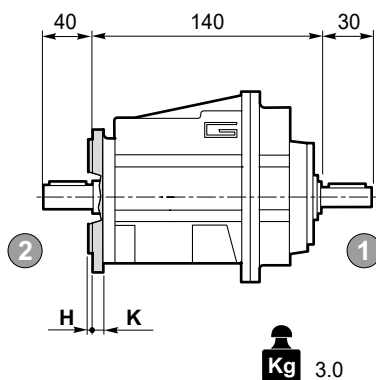
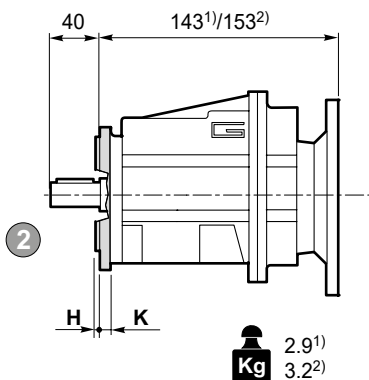
■ Preferenziale / Preferred



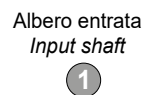
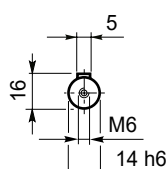
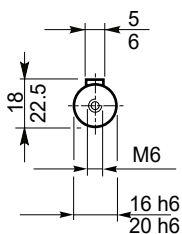
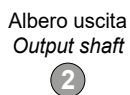
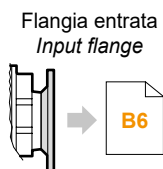
**CMG 002 F..**

**CMG 002 F..**

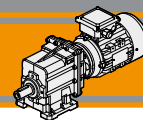
**CMGIS 002 F..**



<sup>1)</sup>IEC 63/71, <sup>2)</sup>IEC 80



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



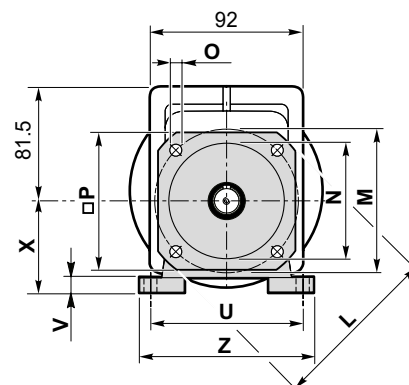
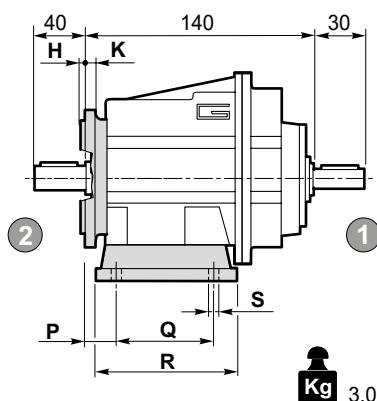
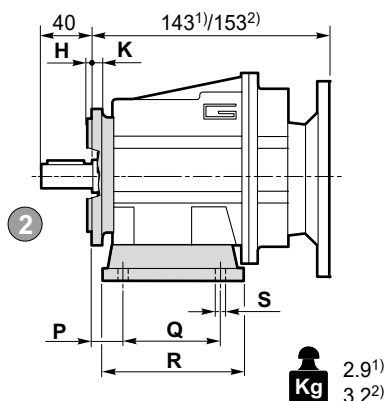
Dimensioni

Dimensions

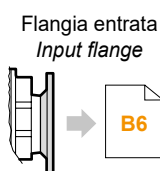
CMG 002 H../F..

CMG 002 H../F..

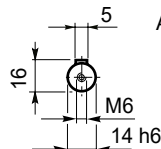
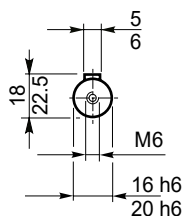
CMGIS 002 H../F..



¹)IEC 63/71, ²)IEC 80



Albero uscita  
Output shaft



Albero entrata  
Input shaft



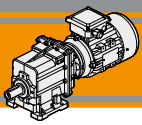
Versione H / H Version										Combinazioni possibili H/F Possible combinations H/F			
CMG CMGIS	P	Q	R	S	U	V	X	Z	Piede / Foot		F105	F120	F140
									Tipo Type	Peso / Weight [kg]			
002	18	60	80	9	100	10	60	120	H60	0.2	•	•	•
	18	80	104	9	110 - 120	10	75	145	H75	0.3	•	•	•
	18	50 - 87	110	9	110	10	85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

■ Preferenziale / Preferred

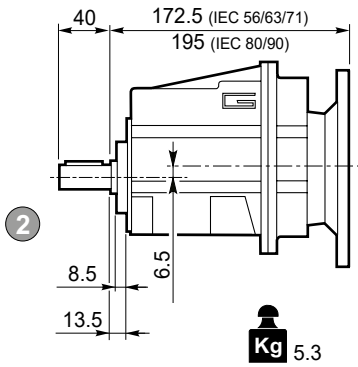
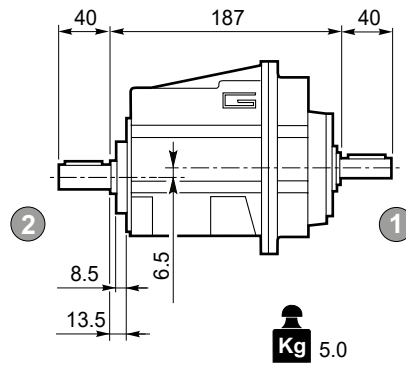
• Combinazioni possibili H/F / Possible combinations H/F

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

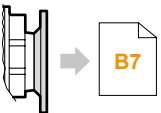


**CMG**

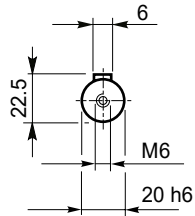
Motoriduttori ad ingranaggi cilindrici  
Helical in-line gearmotors

**Dimensioni****Dimensions****CMG 012 U - CMG 013 U****CMG 012 U****CMGIS 012 U**

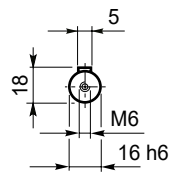
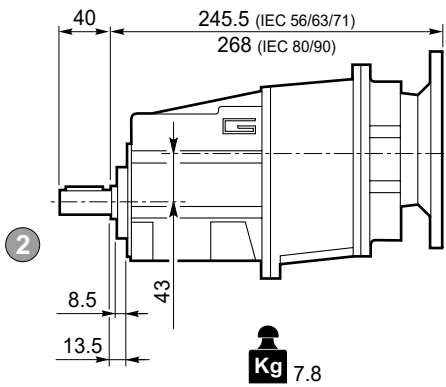
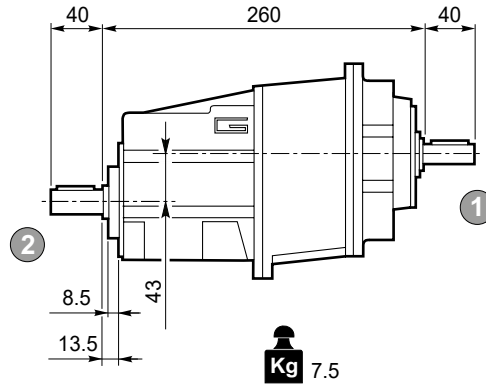
Flangia entrata  
Input flange



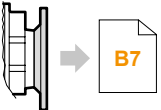
Albero uscita  
Output shaft



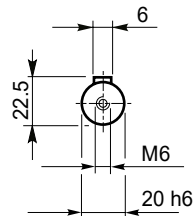
Albero entrata  
Input shaft

**CMG 013 U****CMGIS 013 U**

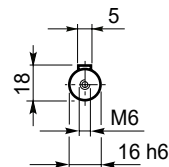
Flangia entrata  
Input flange



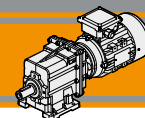
Albero uscita  
Output shaft



Albero entrata  
Input shaft





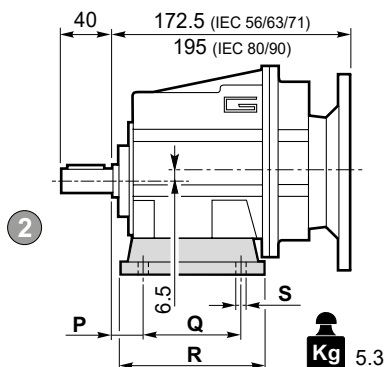


Dimensioni

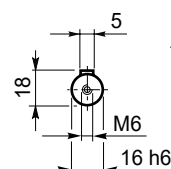
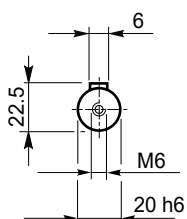
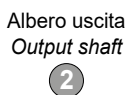
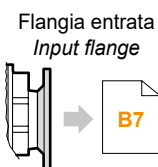
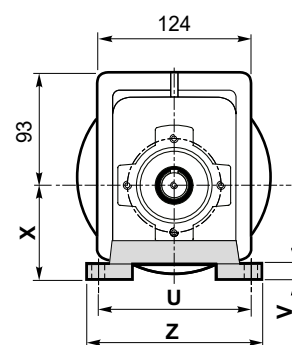
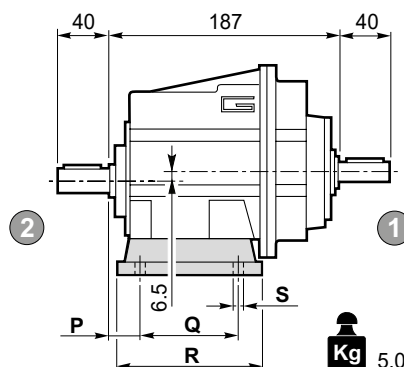
Dimensions

CMG 012 H.. - CMG 013 H..

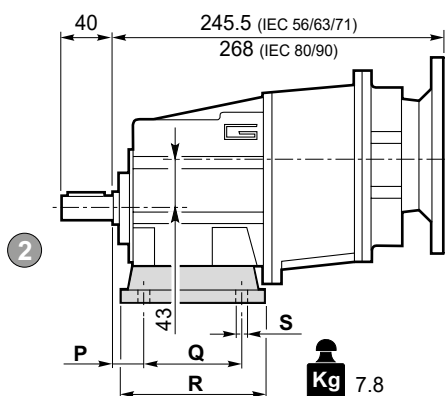
CMG 012 H..



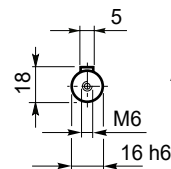
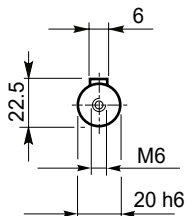
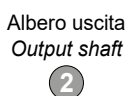
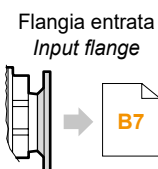
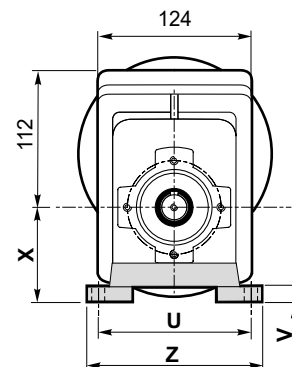
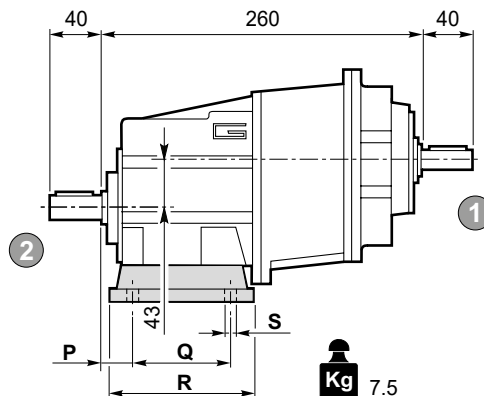
CMGIS 012 H..



CMG 013 H..



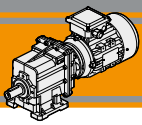
CMGIS 013 H..



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



**CMG**

Motoriduttori ad ingranaggi cilindrici  
Helical in-line gearmotors

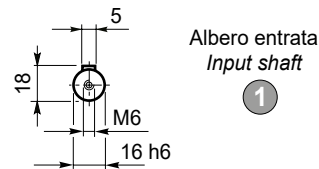
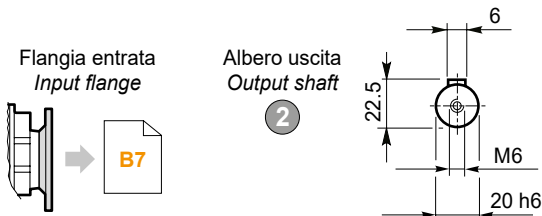
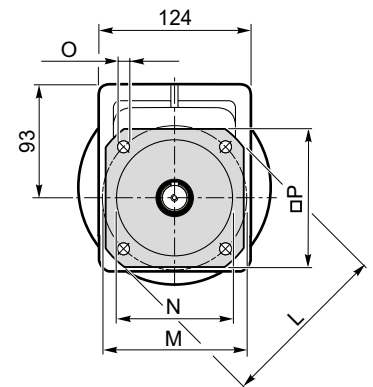
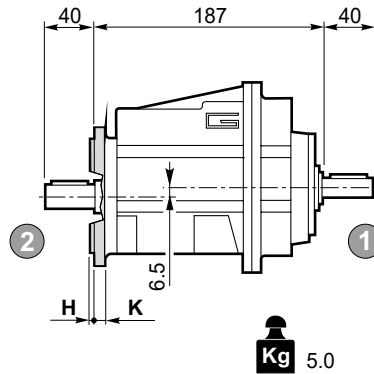
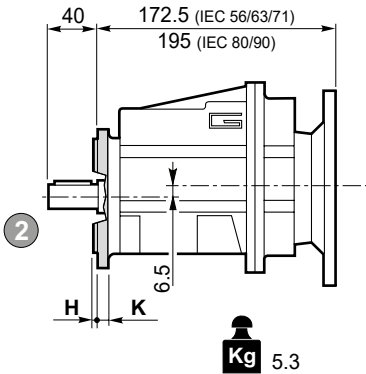
Dimensioni

Dimensions

**CMG 012 F.. - CMG 013 F..**

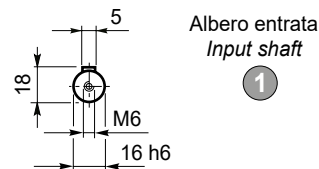
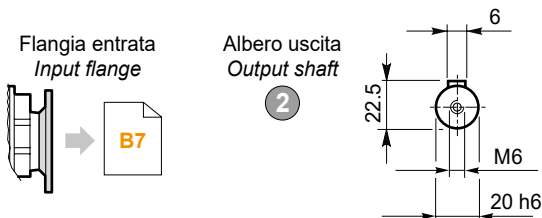
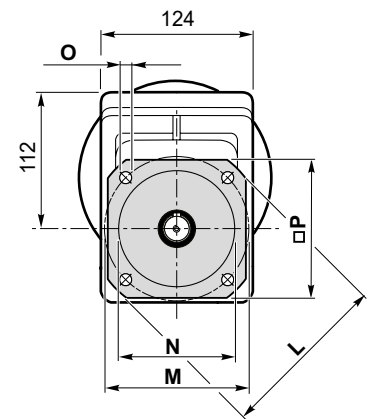
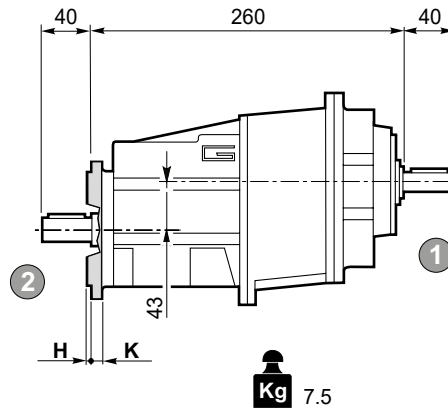
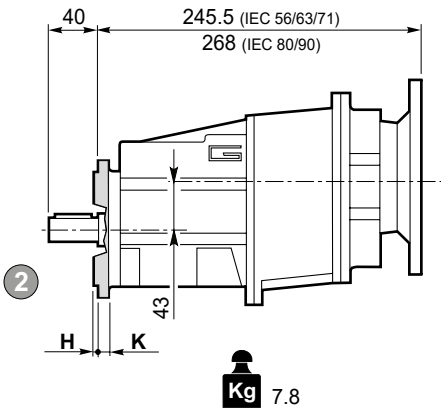
**CMG 012 F..**

**CMGIS 012 F..**

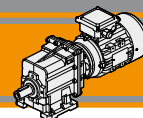


**CMG 013 F..**

**CMGIS 013 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



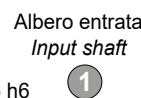
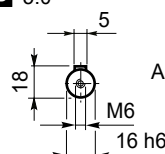
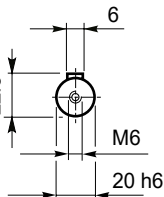
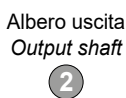
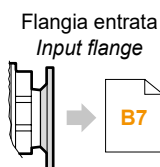
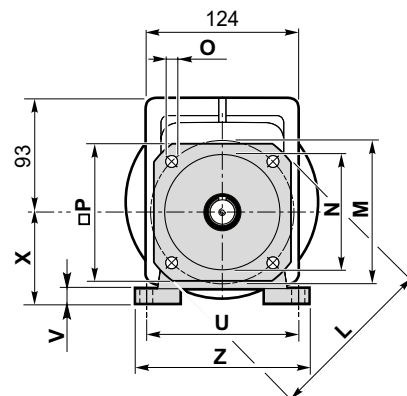
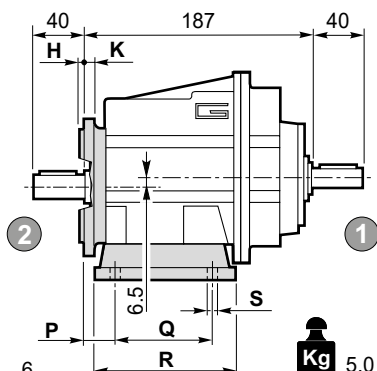
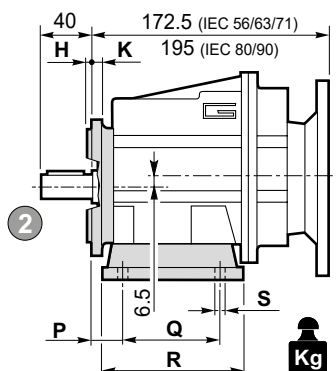
Dimensioni

Dimensions

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

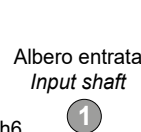
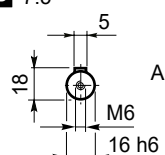
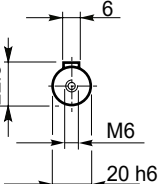
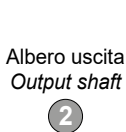
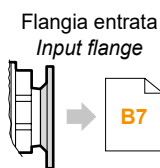
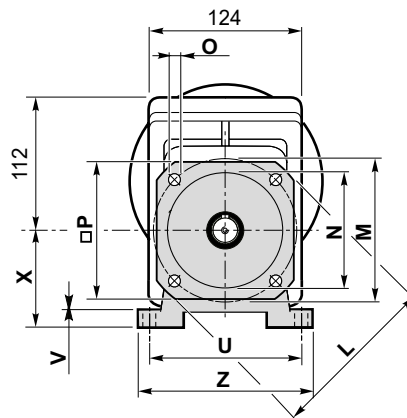
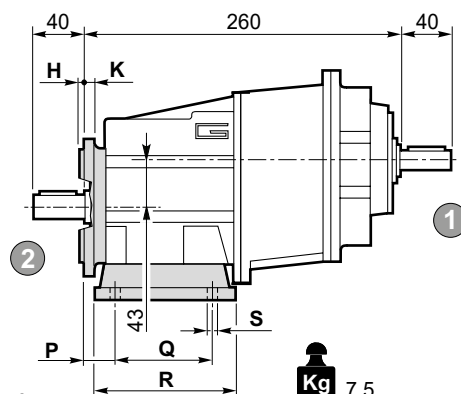
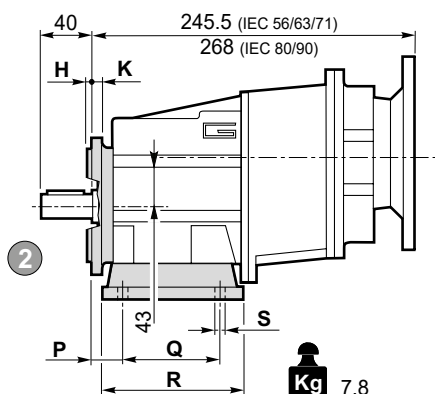
CMG 012 H../F..

CMGIS 012 H../F..



CMG 013 H../F..

CMGIS 013 H../F..



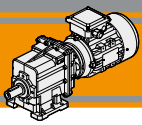
CMG CMGIS	Versione H / H Version								Piede / Foot		Combinazioni possibili H/F Possible combinations H/F			
	P	Q	R	S	U	V	X	Z	Tipo Type	Peso / Weight [kg]	F120	F140	F160	F200
	012 013	20	85	108	9	115	12	65	139	H65	0.7	•	•	•
	18	80	118	9	110	12	75	140	H75	1.0	•	•	•	•
	25	85	120	9	120	12	80	140	H80	1.1	•	•	•	•
	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

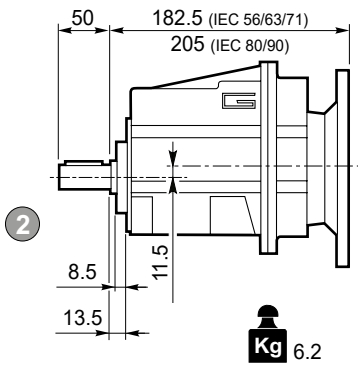
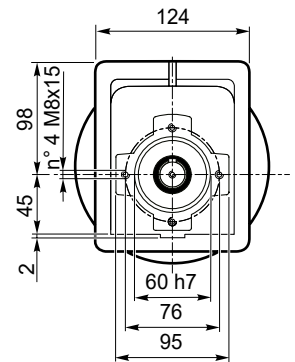
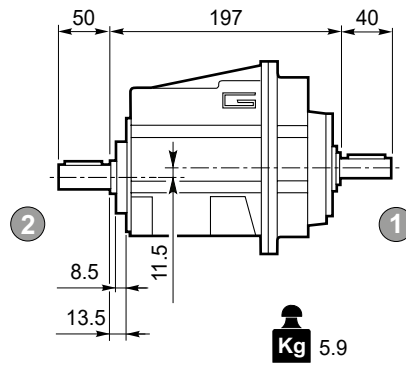
• Combinazioni possibili H/F / Possible combinations H/F

CMG CMGIS	Versione F / F Version							Flangia / Flange	
	H	K	L	M	N f7	O	P	Tipo / Type	Peso / Weight [kg]
	012 013	3	9	120	100	80	9	106	F120
	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

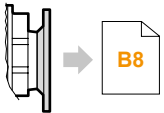


**CMG**

Motoriduttori ad ingranaggi cilindrici  
Helical in-line gearmotors

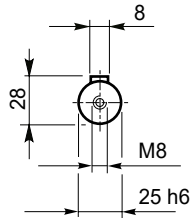
**Dimensioni****Dimensions****CMG 022 U - CMG 023 U****CMG 022 U****CMGIS 022 U**

Flangia entrata  
Input flange



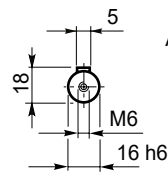
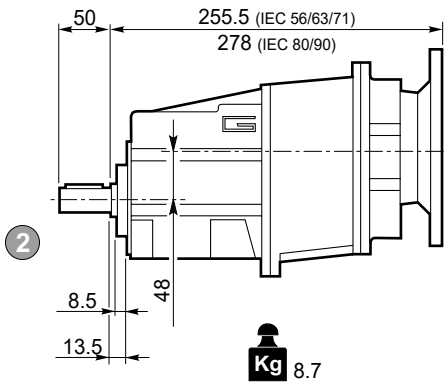
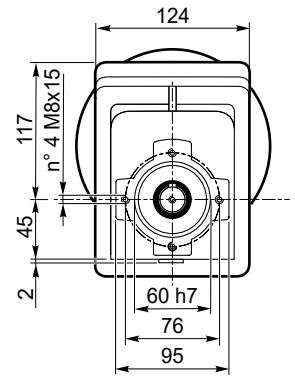
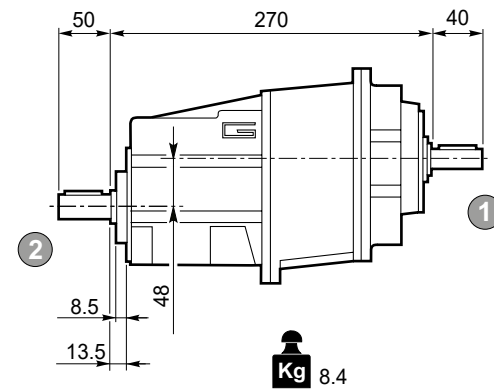
Albero uscita  
Output shaft

2

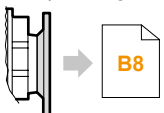


Albero entrata  
Input shaft

1

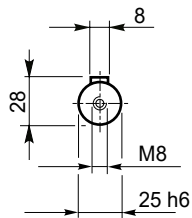
**CMG 023 U****CMGIS 023 U**

Flangia entrata  
Input flange



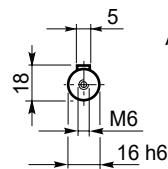
Albero uscita  
Output shaft

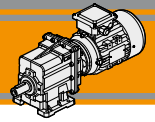
2



Albero entrata  
Input shaft

1





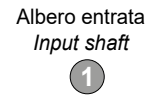
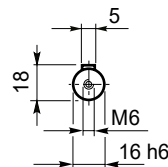
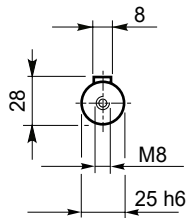
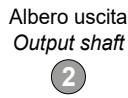
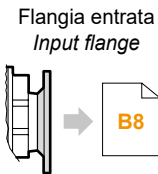
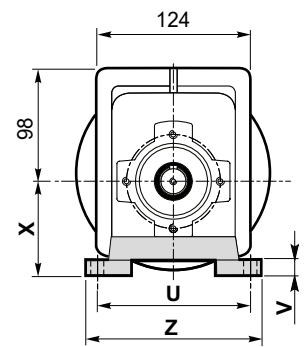
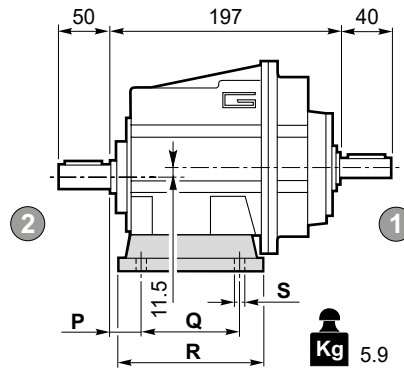
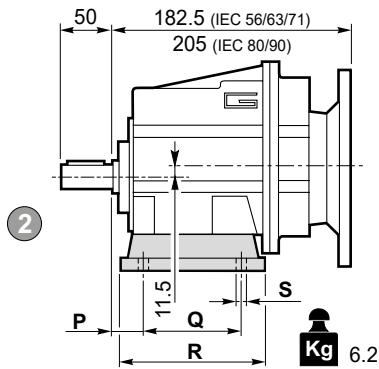
Dimensioni

Dimensions

CMG 022 H.. - CMG 023 H..

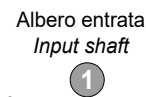
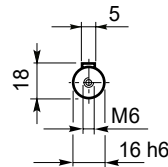
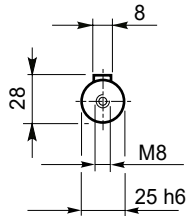
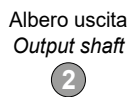
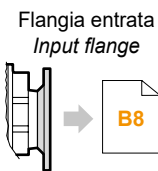
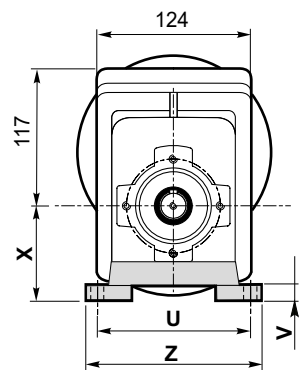
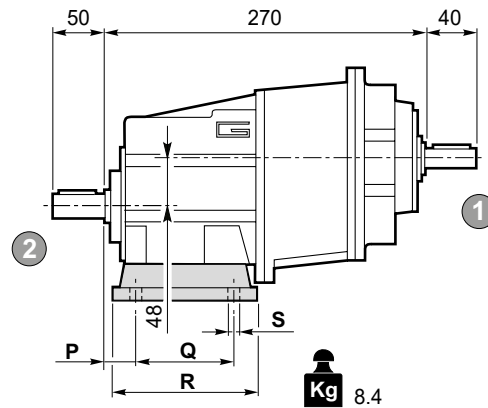
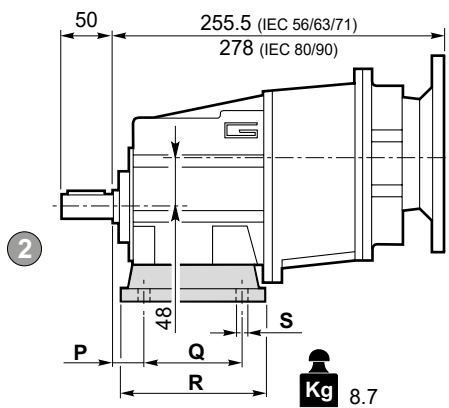
CMG 022 H..

CMGIS 022 H..



CMG 023 H..

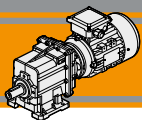
CMGIS 023 H..



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



**CMG**

Motoriduttori ad ingranaggi cilindrici  
Helical in-line gearmotors

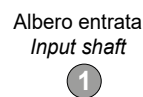
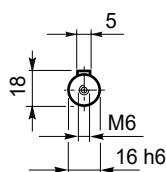
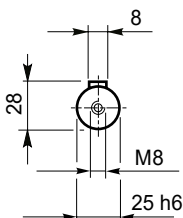
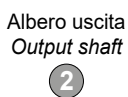
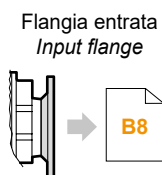
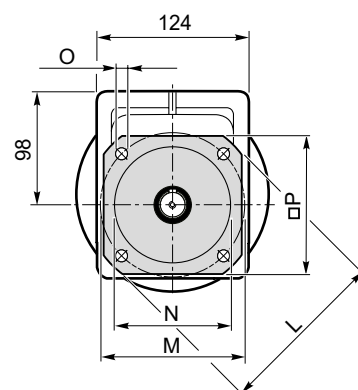
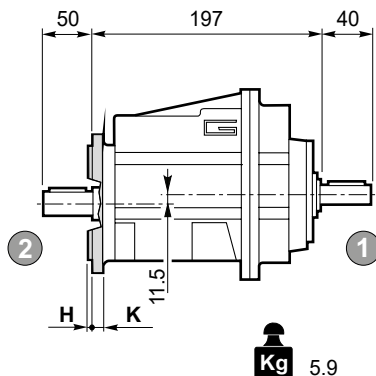
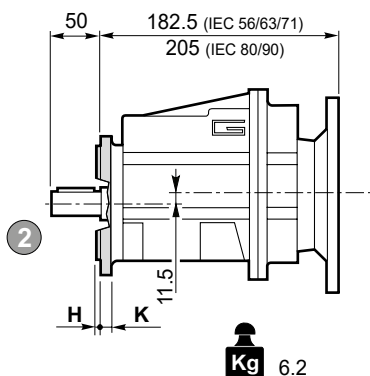
Dimensioni

Dimensions

**CMG 022 F.. - CMG 023 F..**

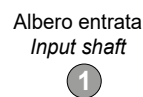
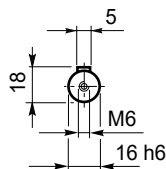
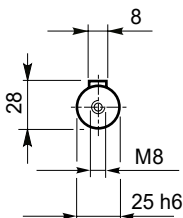
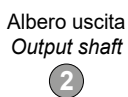
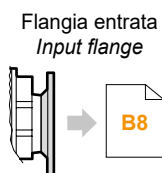
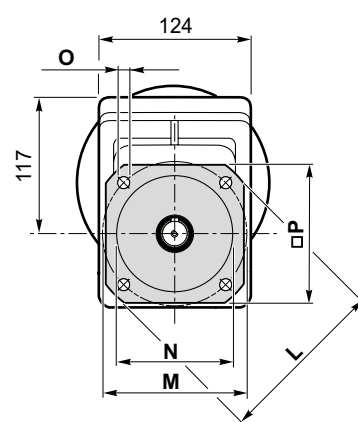
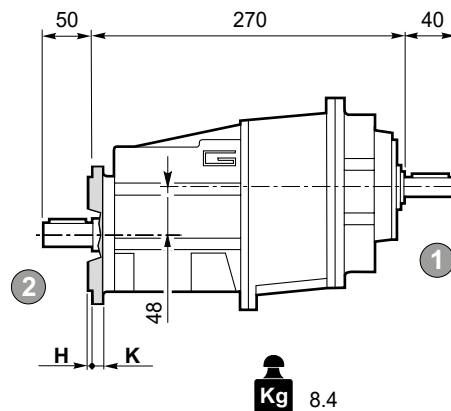
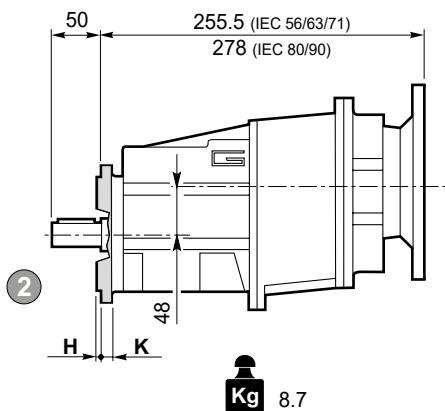
**CMG 022 F..**

**CMGIS 022 F..**



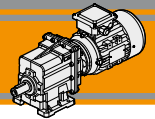
**CMG 023 F..**

**CMGIS 023 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



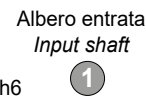
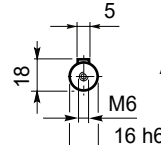
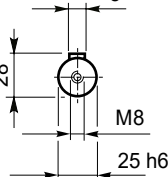
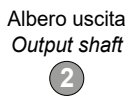
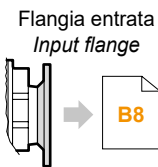
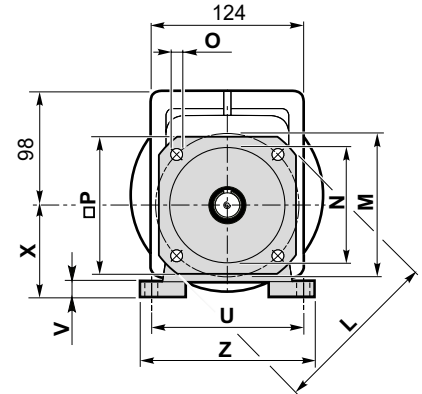
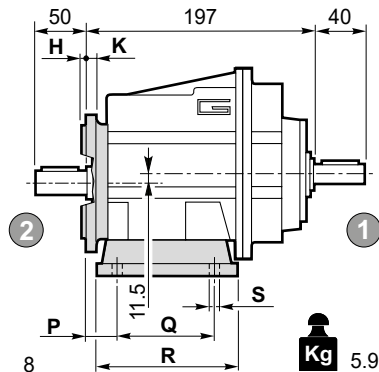
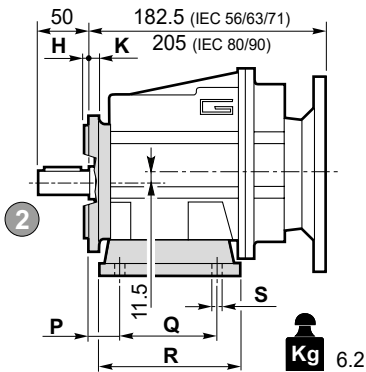
Dimensioni

Dimensions

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

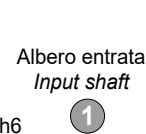
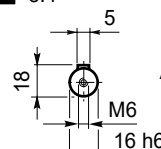
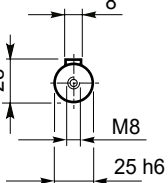
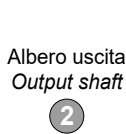
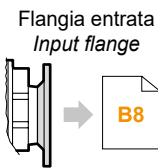
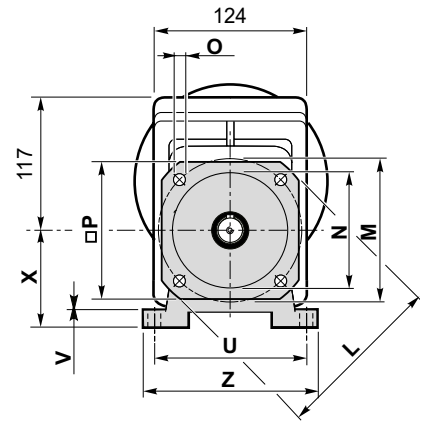
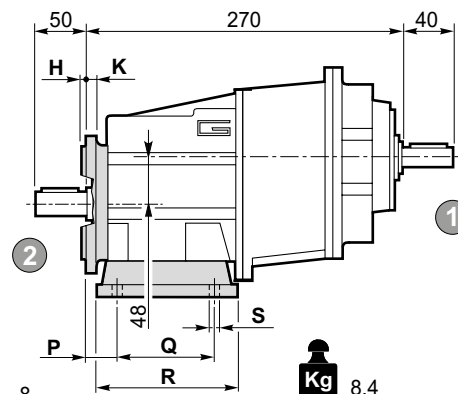
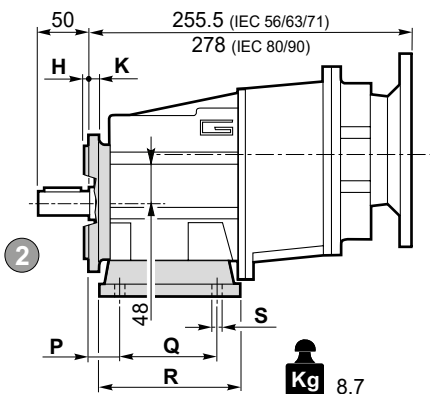
CMG 022 H../F..

CMGIS 022 H../F..



CMG 023 H../F..

CMGIS 023 H../F..

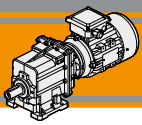
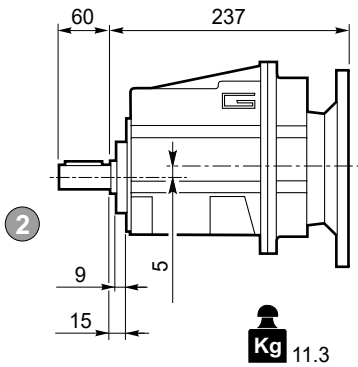
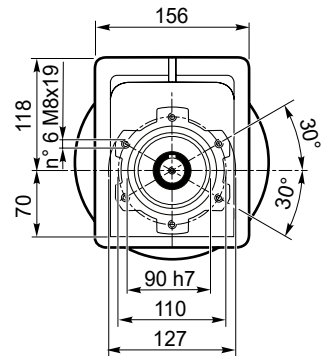
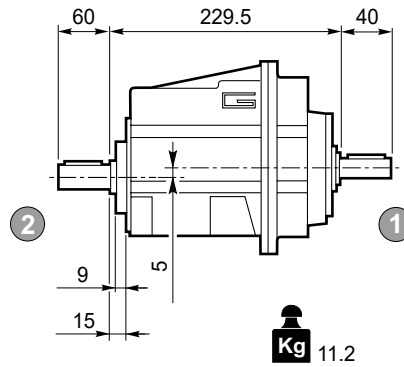
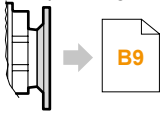
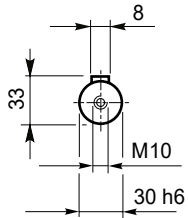
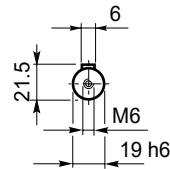
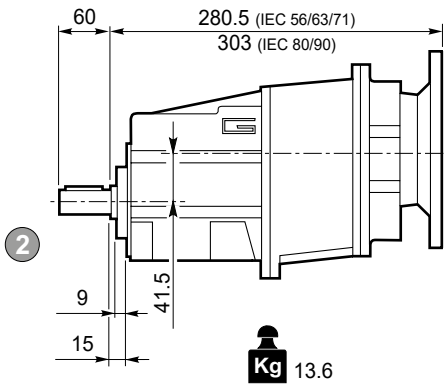
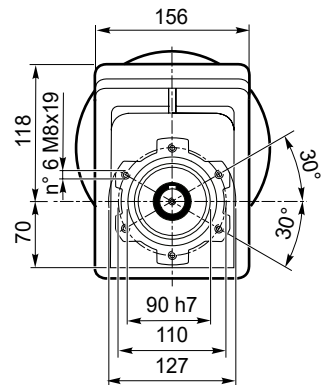
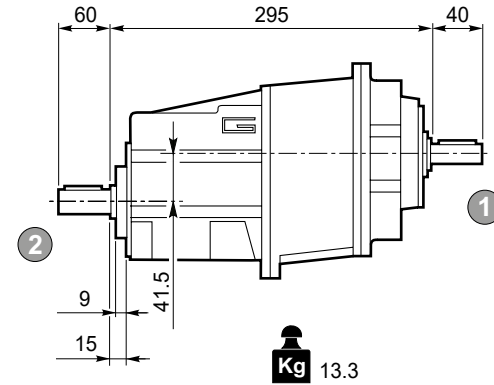
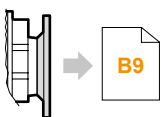
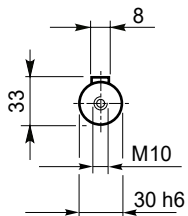
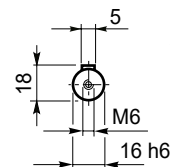


CMG CMGIS	Versione H / H Version								Piede / Foot		Combinazioni possibili H/F Possible combinations H/F			
	P	Q	R	S	U	V	X	Z	Typo	Peso / Weight [kg]	F120	F140	F160	F200
	022 023	20	85	108	9	115	12	65	139	H65	0.7	•	•	
18		80	118	9	110	12	75	140	H75	1.0	•	•	•	
25		85	120	9	120	12	80	140	H80	1.1	•	•	•	
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	•	•	•	•

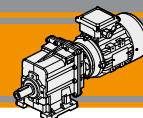
Preferenziale / Preferred

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

CMG CMGIS	Versione F / F Version							Flangia / Flange	
	H	K	L	M	N f7	O	P	Typo / Type	Peso / Weight [kg]
	022 023	3	9	120	100	80	9	106	F120
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 flangeAlbero uscita  
Output shaftAlbero entrata  
Input shaft**CMG 033 U****CMGIS 033 U**Flangia entrata  
Input flangeAlbero uscita  
Output shaftAlbero entrata  
Input shaft



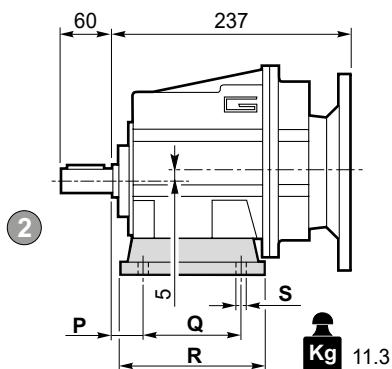


Dimensioni

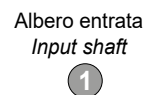
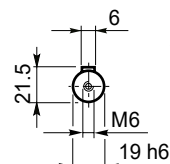
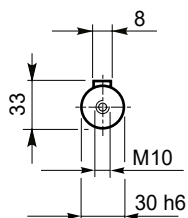
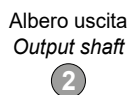
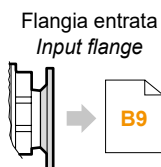
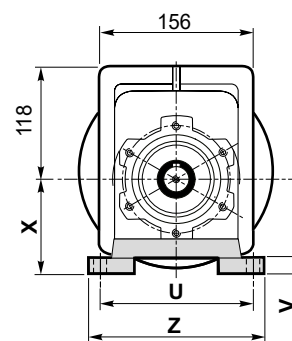
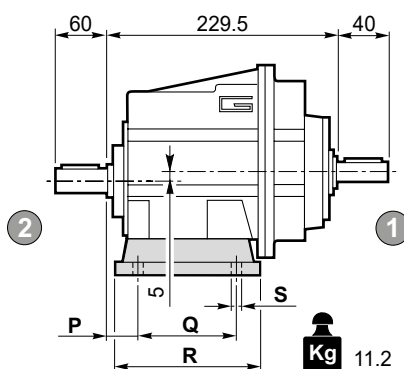
Dimensions

CMG 032 H.. - CMG 033 H..

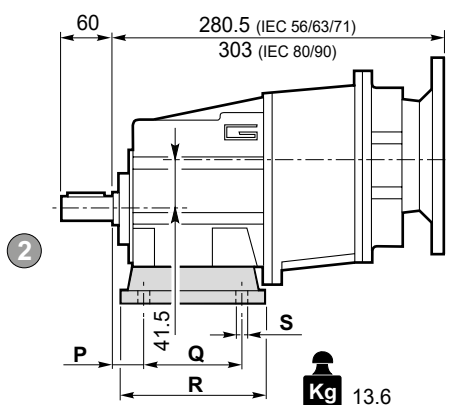
CMG 032 H..



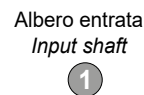
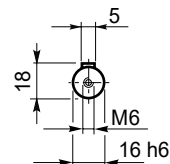
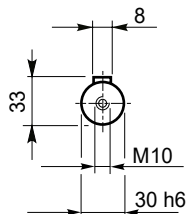
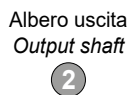
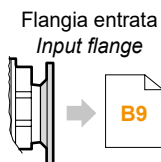
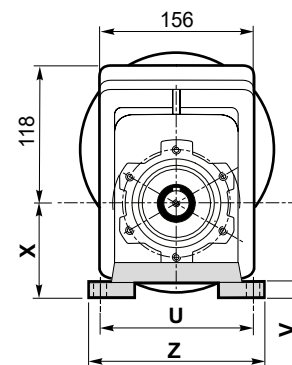
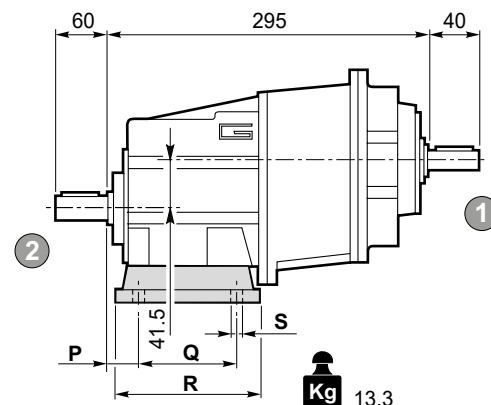
CMGIS 032 H..



CMG 033 H..



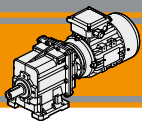
CMGIS 033 H..



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

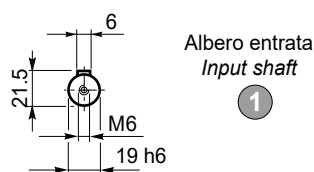
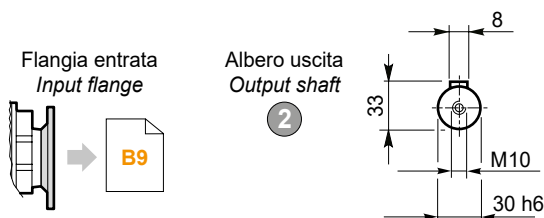
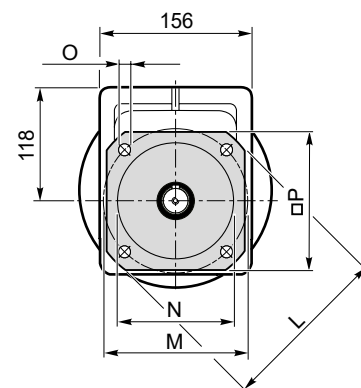
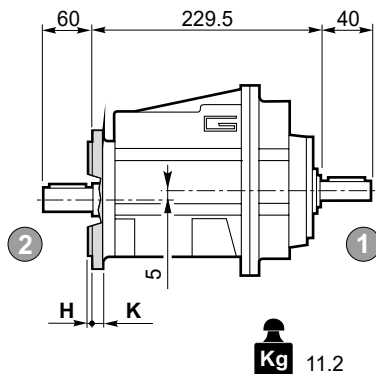
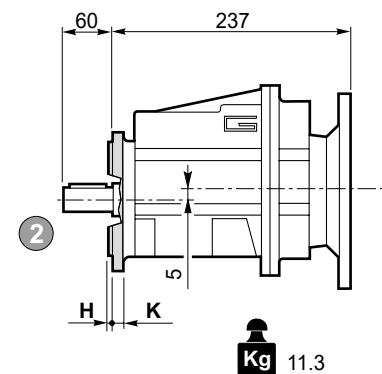
Preferenziale / Preferred



**CMG 032 F.. - CMG 033 F..**

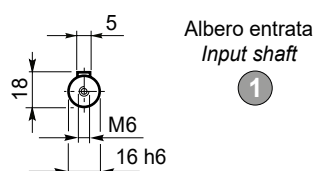
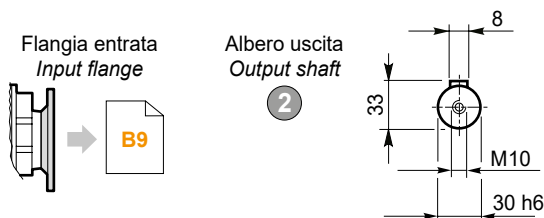
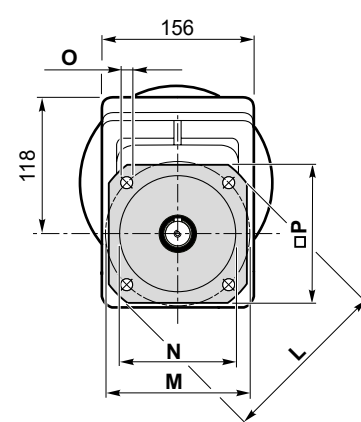
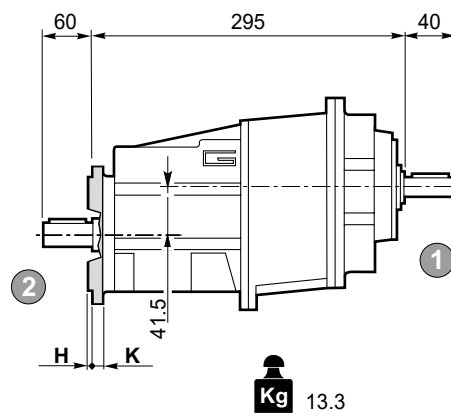
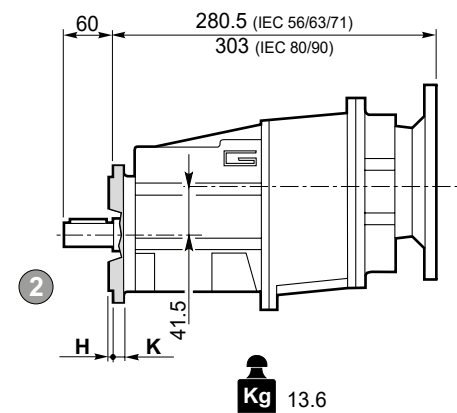
**CMG 032 F..**

**CMGIS 032 F..**

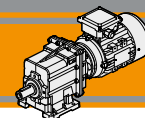


**CMG 033 F..**

**CMGIS 033 F..**

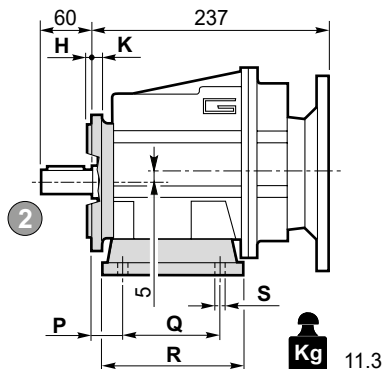


Versione F / F Version									
CMG CMGIS	H	K	L	M	N f7	O	P	Flangia / Flange	
								Tipo / Type	Peso / Weight [kg]
032 033	3.5	11	160	130	110	9	140	F160	1.0
	3.5	11	200	165	130	11	165	F200	1.8
	4	13	250	215	180	14	215	F250	2.9

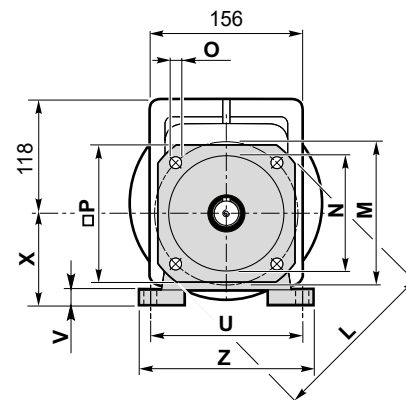
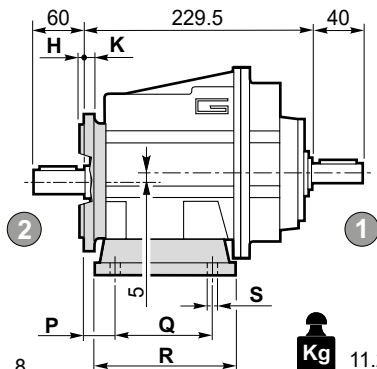


CMG 032 H../F.. - CMG 033 H../F..

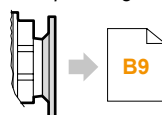
CMG 032 H../F..



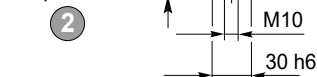
CMGIS 032 H../F..



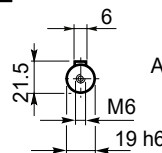
Flangia entrata  
Input flange



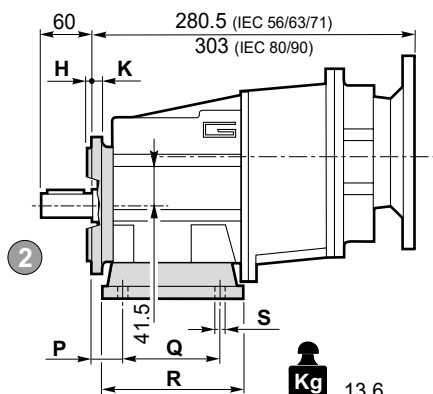
Albero uscita  
Output shaft



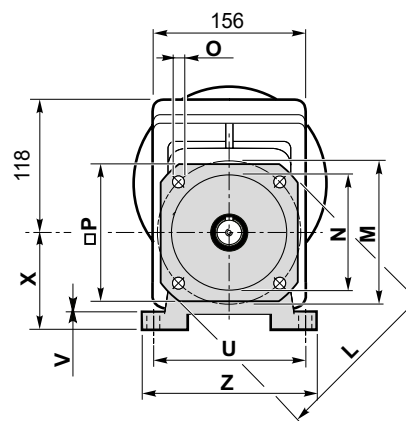
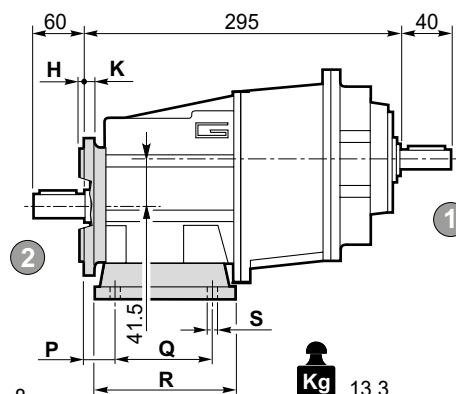
Albero entrata  
Input shaft



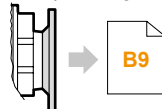
CMG 033 H../F..



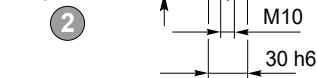
CMGIS 033 H../F..



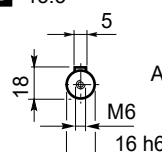
Flangia entrata  
Input flange



Albero uscita  
Output shaft



Albero entrata  
Input shaft

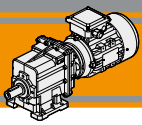
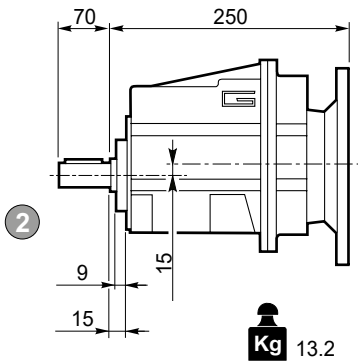
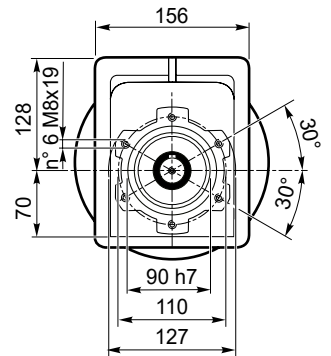
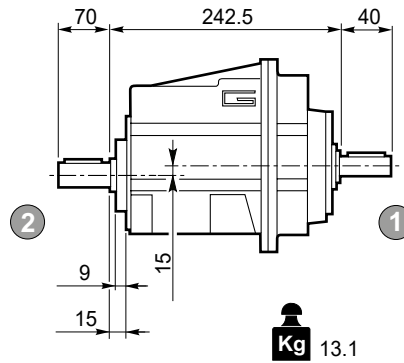
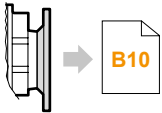
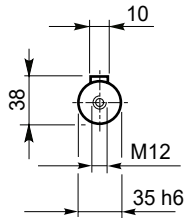
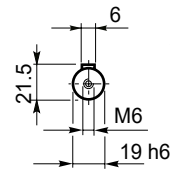
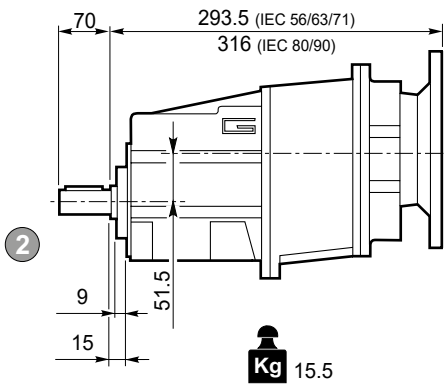
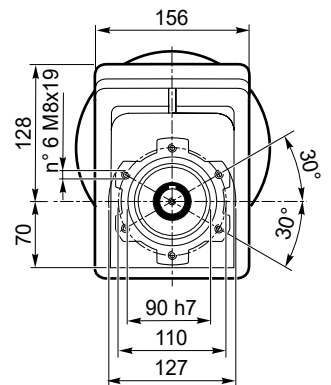
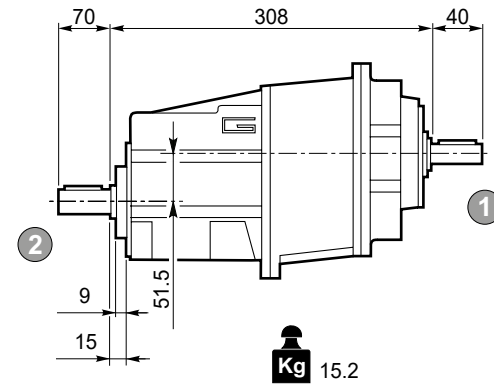
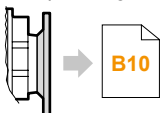
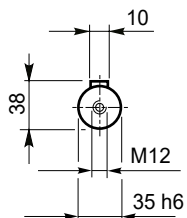
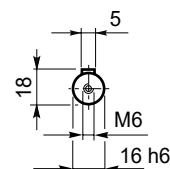


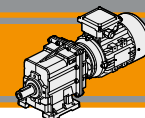
CMG CMGIS	Versione H / H Version									Combinazioni possibili H/F Possible combinations H/F			
	P	Q	R	S	U	V	X	Z	Piede / Foot		F160	F200	F250
									Tipo Type	Peso / Weight [kg]			
032 033	30	105	136	14	160	14	95	194	H95	1.5	•	•	
	30	100	150	11	150	14	110	185	H110	1.9	•	•	
	18	70			160								
	30	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

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

CMG CMGIS	Versione F / F Version								Flangia / Flange	
	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 flangeAlbero uscita  
Output shaftAlbero entrata  
Input shaft**CMG 043 U****CMGIS 043 U**Flangia entrata  
Input flangeAlbero uscita  
Output shaftAlbero entrata  
Input shaft

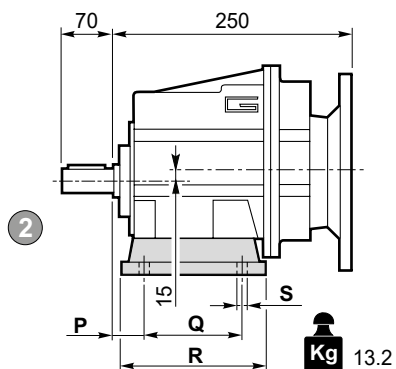


Dimensioni

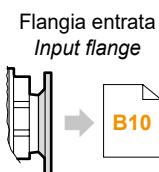
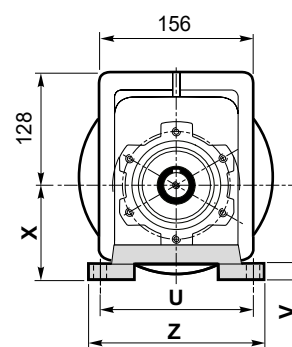
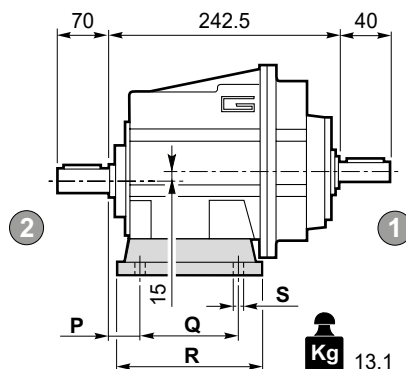
Dimensions

CMG 042 H.. - CMG 043 H..

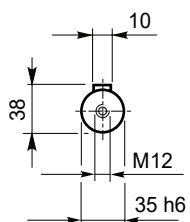
CMG 042 H..



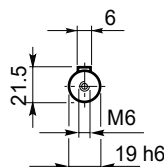
CMGIS 042 H..



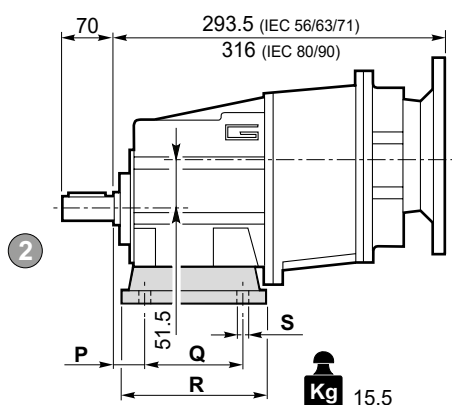
Albero uscita  
Output shaft



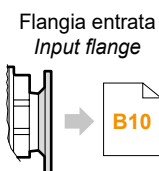
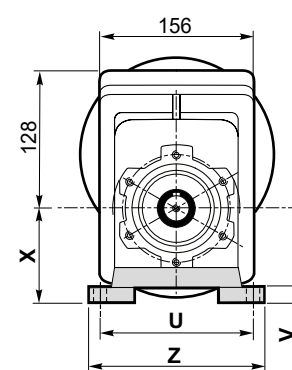
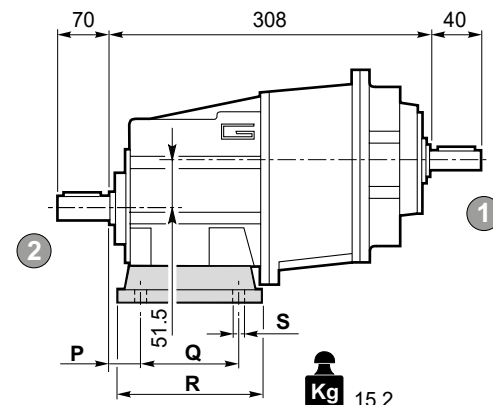
Albero entrata  
Input shaft



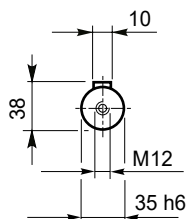
CMG 043 H..



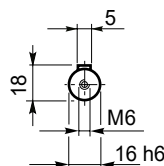
CMGIS 043 H..



Albero uscita  
Output shaft

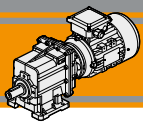


Albero entrata  
Input shaft



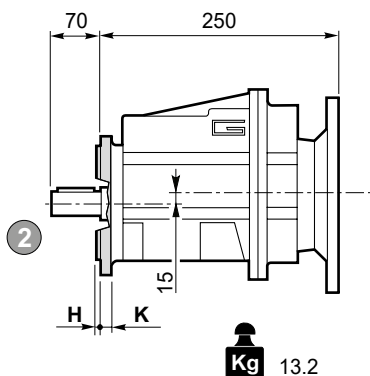
Versione H / H Version										
CMG CMGIS	P	Q	R	S	U	V	X	Z	Piede / Foot	
									Tipo / Type	Peso / Weight [kg]
042 043	30	105	136	14	160	14	95	194	H95	1.5
	30	100	150	11	150	14	110	185	H110	1.9
	18	70			160					
	30	165	195	14	135	14	115	170	H115	2.2
	35	110	160	14	170	14	120	210	H120	2.6
	19.5	149.5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

Preferenziale / Preferred

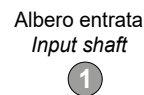
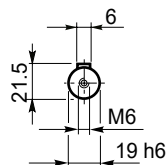
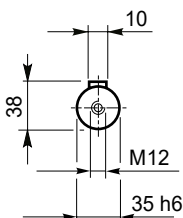
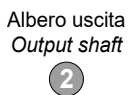
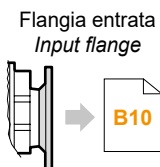
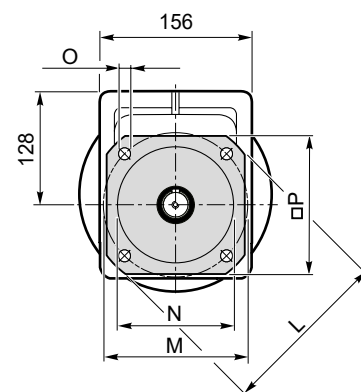
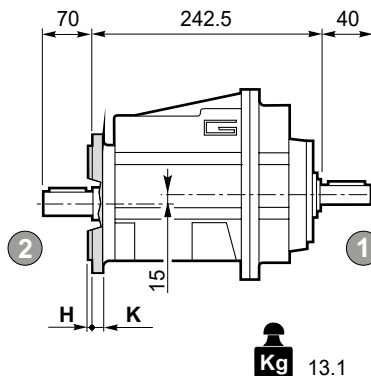


**CMG 042 F.. - CMG 043 F..**

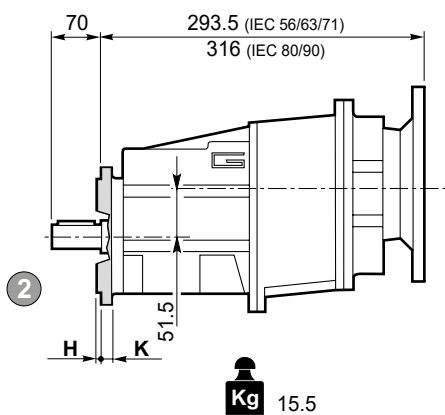
**CMG 042 F..**



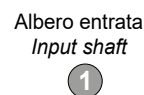
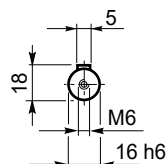
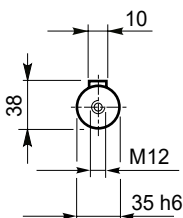
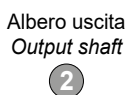
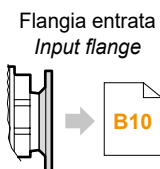
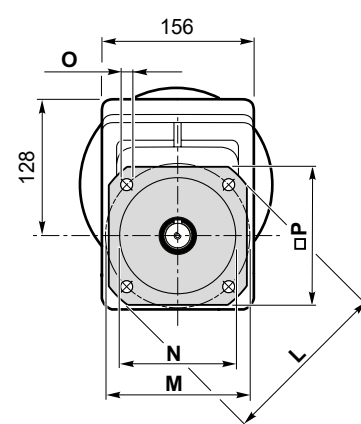
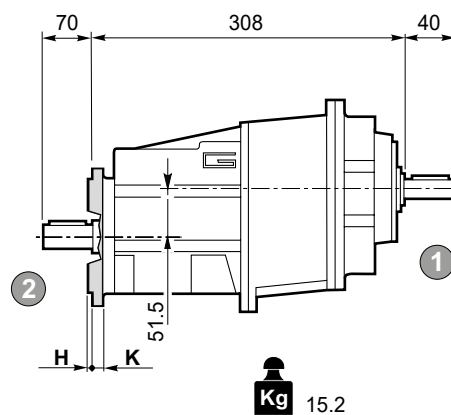
**CMGIS 042 F..**



**CMG 043 F..**

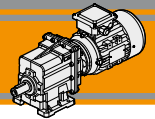


**CMGIS 043 F..**



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



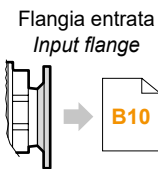
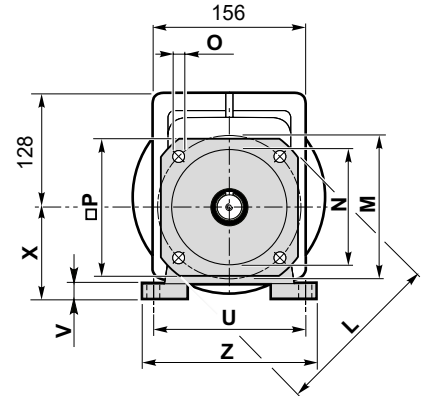
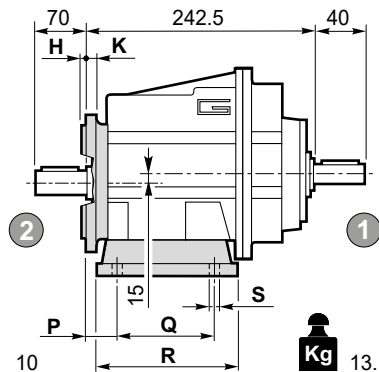
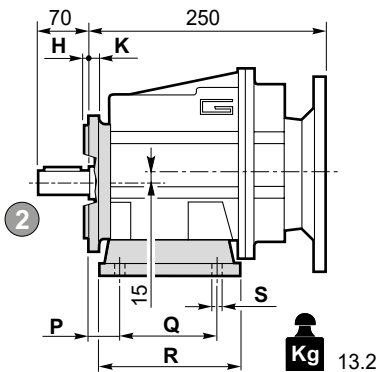
Dimensioni

Dimensions

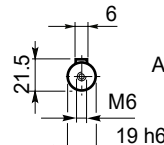
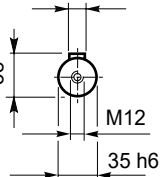
CMG 042 H../F.. - CMG 043 H../F..

CMG 042 H../F..

CMGIS 042 H../F..

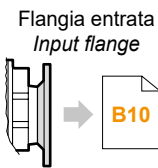
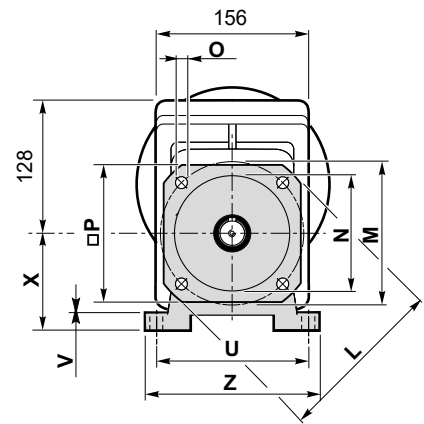
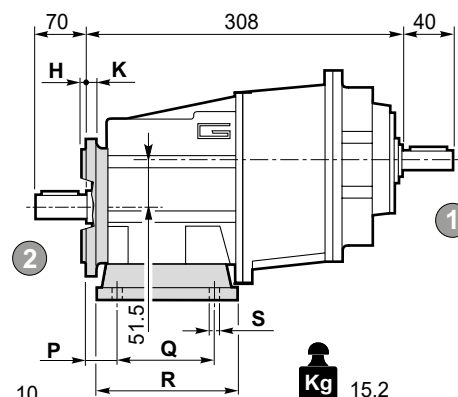
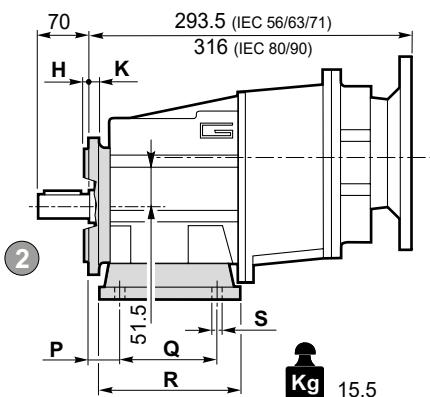


Albero uscita  
Output shaft

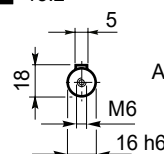
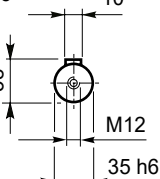


CMG 043 H../F..

CMGIS 043 H../F..



Albero uscita  
Output shaft

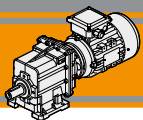


CMG CMGIS	Versione H / H Version									Combinazioni possibili H/F Possible combinations H/F			
	P	Q	R	S	U	V	X	Z	Piede / Foot		F160	F200	F250
									Tipo Type	Peso / Weight [kg]			
042 043	30	105	136	14	160	14	95	194	H95	1.5	•	•	
	30	100	150	11	150	14	110	185	H110	1.9	•	•	
	18	70			160								
	30	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

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

CMG CMGIS	Versione F / F Version								Flangia / Flange	
	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	



# Note/Notes

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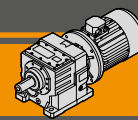
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Motoriduttori ad ingranaggi cilindrici  
**Helical in-line gearmotors**



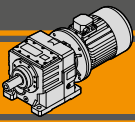




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Versioni	<i>Versions</i>	<b>C2</b>
Designazione	<i>Classification</i>	<b>C3</b>
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Simbologia	<i>Symbols</i>	<b>C3</b>
Lubrificazione	<i>Lubrication</i>	<b>C4</b>
Carichi radiali in entrata	<i>Input radial loads</i>	<b>C6</b>
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Dati tecnici	<i>Technical data</i>	<b>C7</b>
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**ITH**

**Motoriduttori ad ingranaggi cilindrici**  
**Helical in-line gearmotors**

**Caratteristiche tecniche**

**Technical features**

I motoriduttori della serie ITH sono dedicati ad applicazioni industriali che presentano carichi particolarmente gravosi. La costruzione robusta con carcassa in ghisa e l'elevata modularità dei diversi kit di entrata e di uscita li rendono adatti ad ogni tipo di applicazione.

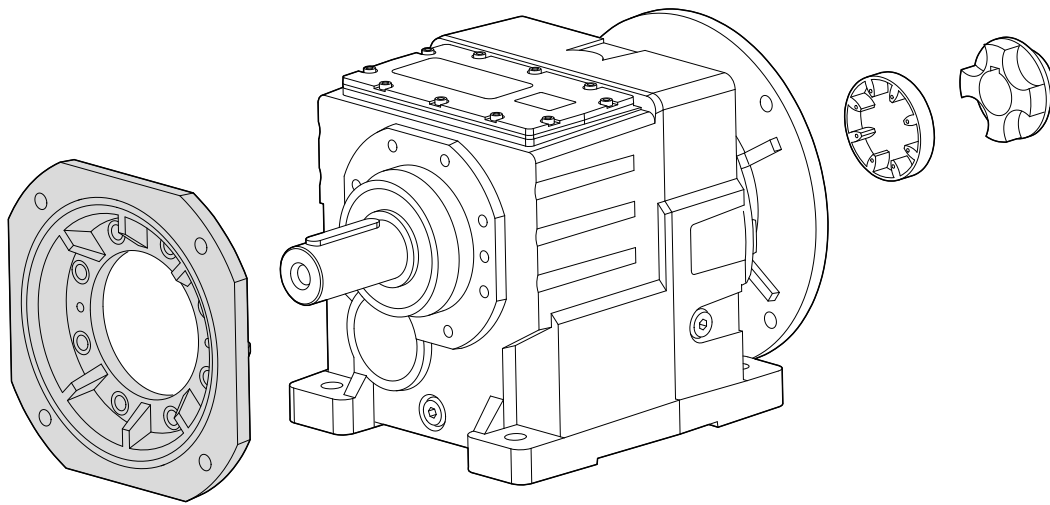
*The ITH gearmotors are intended for heavy duty applications. The robust one pieces casing of the main housing and the modular design of input and output sets increase application flexibility.*

Caratteristiche comuni a tutta la serie sono:

*The main features of ITH range are:*

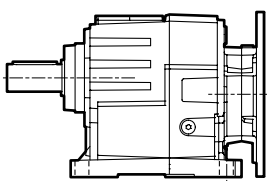
- Costruzione robusta con carcassa in ghisa;
- Elevata modularità;
- Lubrificazione con olio sintetico;
- Accoppiamento al motore tramite giunto elastico.
- Verniciatura a polvere epossidica RAL 7016 di spessore medio 0,10 – 0,15 mm.

- *Robust cast iron housings;*
- *High degree of modularity;*
- *Lubrication with synthetic oil;*
- *Coupled to motor with flexible coupling.*
- *Epoxy powder coating RAL 7016 average thickness 0,10 – 0,15 mm.*

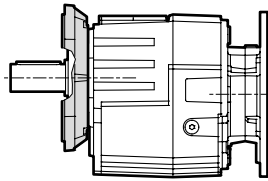


**Versioni**

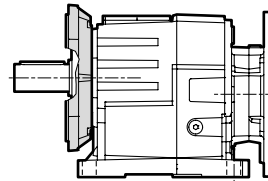
**Versions**



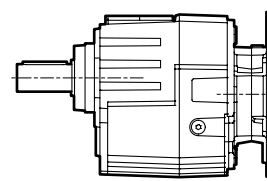
**U**



**F...**



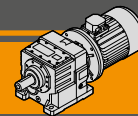
**U/F...**



**G**

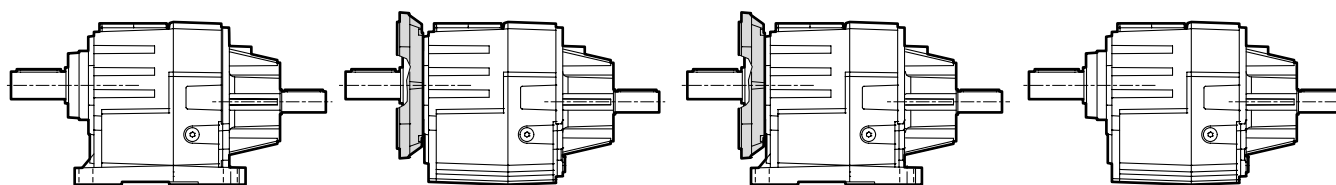
RIDUTTORE / GEARBOX

ITH	12	2	H	26.28	D40	132	B5	M1	CW
Tipo Type	Grandezza Size	Stadi Stages	Versione Version	Rapporto Ratio	Albero uscita Output shaft	IEC	Forma costruttiva Version	Pos. di montaggio Mounting position	Dispositivo antiretro Backstop device
	11 12 13 14	2 3	U F... U/F... G	vedi tabelle see tables	vedi tabelle see tables	71.. — 200..	B5 B14	M1 (B3) M2 (V6) M3 (B8) M4 (V5) M5 (B7) M6 (B6)	CW CCW



Designazione

Classification



U

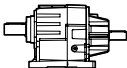
F...

U/F...

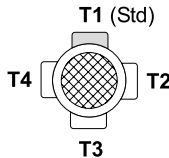
G

ITH

RIDUTTORE / GEARBOX

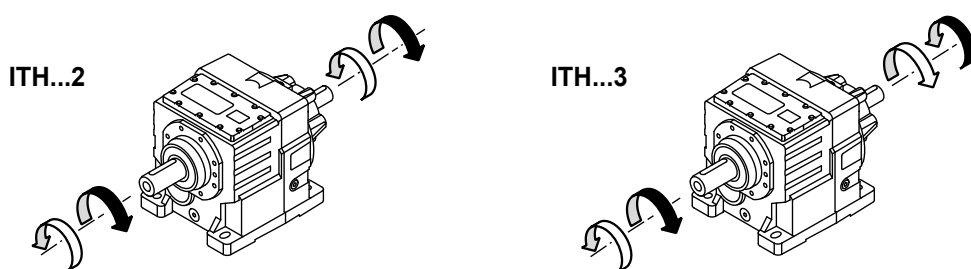
ITHIS	12	2	H	26.28	D40	M1
Tipo Type	Grandezza Size	Stadi Stages	Versione Version	Rapporto Ratio	Albero uscita Output shaft	Pos. di montaggio Mounting position
ITHIS 	11 12 13 14	2 3	U F... U/F... G	vedi tabelle see tables	vedi tabelle see tables	M1 (B3) M2 (V6) M3 (B8) M4 (V5) M5 (B7) M6 (B6)

MOTORE / MOTOR

5.5kW	4p	3ph	230/400V	50Hz	T1
Potenza Power	Poli Poles	Fasi Phases	Tensione Voltage	Frequenza Frequency	Pos. morsettiere Terminal box pos.
vedi tabelle see tables	2p 4p 6p 8p	1ph 3ph	230/400V 220/380V ... 230V	50Hz 60Hz	T1 (Std)  T4 T3

Sensi di rotazione

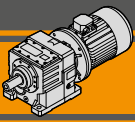
Direction of rotation



Simbologia

Symbols

$n_1$	[ $\text{min}^{-1}$ ]	Velocità in ingresso / Input speed
$n_2$	[ $\text{min}^{-1}$ ]	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 $P_1$
$P_{n1}$	[kW]	Potenza nominale in entrata / Nominal input power
$M_{n2}$	[Nm]	Coppia nominale in uscita in funzione di $P_{n1}$ / Nominal output torque referred to $P_{n1}$
$sf$		Fattore di servizio / Service factor
$R_1$	[N]	Carico radiale ammissibile in entrata / Permitted input radial load
$A_1$	[N]	Carico assiale ammissibile in entrata / Permitted input axial load
$R_2$	[N]	Carico radiale ammissibile in uscita / Permitted output radial load
$A_2$	[N]	Carico assiale ammissibile in uscita / Permitted output axial load

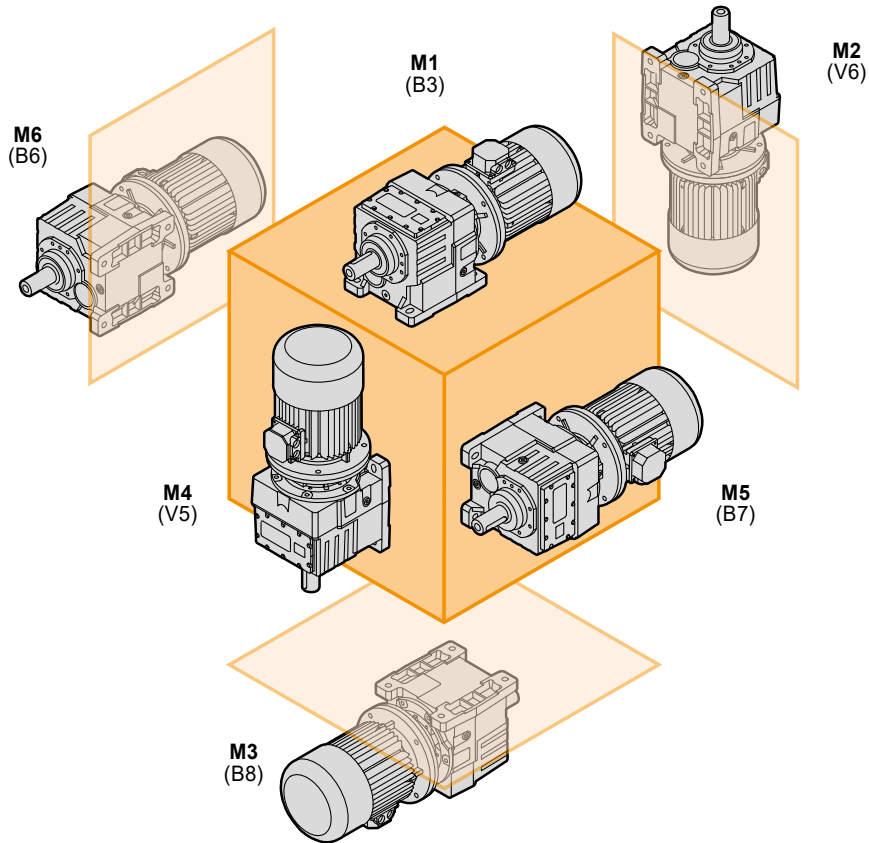


### Lubrificazione

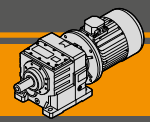
I motoriduttori della serie ITH sono forniti completi di lubrificante sintetico viscosità 320. La quantità di lubrificante dipende dalla posizione di montaggio.

### Lubrication

*ITH series gearmotors come complete with synthetic lubricant 320 viscosity. The lubricant quantity depends on mounting position.*



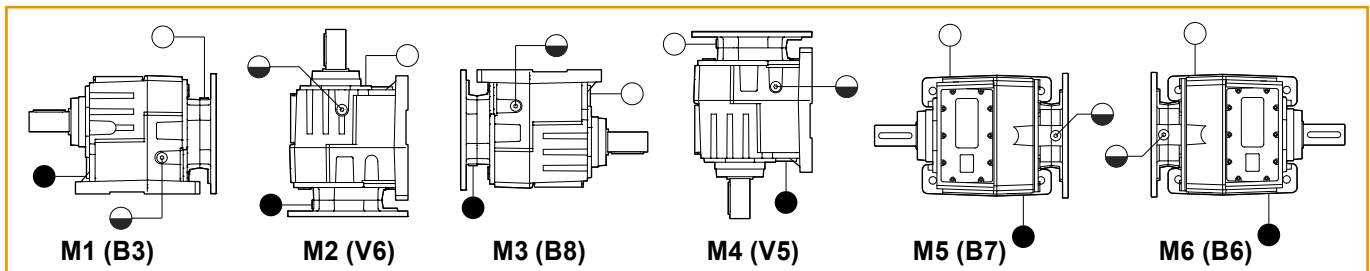
ITH	Quantità di olio (litri) / Oil quantity (litres)					
	M1 (B3)	M2 (V6)	M3 (B8)	M4 (V5)	M5 (B7)	M6 (B6)
112 113	1,1	3,9	3,7	3,4	2,4	2,4
122 123	1,7	5,0	4,3	4,3	3,1	2,9
132 133	4,5	9,5	8,3	8,6	5,9	5,7
142 143	8,1	14,5	11,5	14,4	9,4	9,0



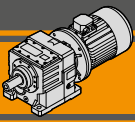
Lubrificazione

Lubrication

ITHIS	Quantità di olio (litri) / Oil quantity (litres)					
	M1 (B3)	M2 (V6)	M3 (B8)	M4 (V5)	M5 (B7)	M6 (B6)
112 113	1,3	4,3	3,9	3,4	2,6	2,6
122 123	1,9	5,4	4,5	4,3	3,3	3,1
132	3,7	10,2	8,7	8,6	6,3	6,1
133	3,5	9,9	8,5		6,1	5,9
142	7,3	15,2	11,9	14,4	9,8	9,4
143	7,1	14,9	11,7		9,6	9,2



- Sfiato e tappo di riempimento / Breather and filling plug
- ◐ Livello olio / Oil level plug
- Tappo di scarico / Oil drain plug



**Carichi radiali in entrata**

**Input Radial loads**

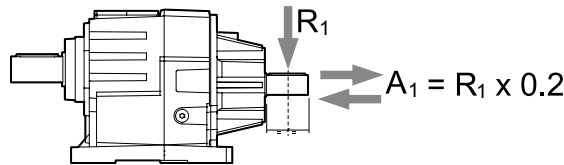
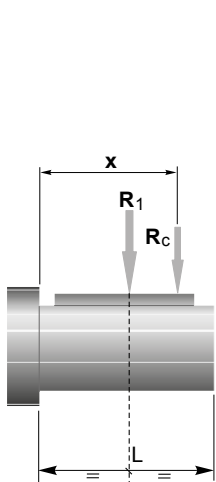
ITH 113	n <sub>1</sub> [min <sup>-1</sup> ]	Potenza motore/ Motor Power [kW]		
		1.1	1.5	1.85
R <sub>1</sub> [N]	1400	1250		
	900	1500		500
	500	1750	-	-

ITH 112 ITH 122 -123 ITH 133 - 143	n <sub>1</sub> [min <sup>-1</sup> ]	Potenza motore/ Motor Power [kW]			
		2.2	3.0	4.0	5.5
R <sub>1</sub> [N]	1400	1800			750
	900	2100		1200	-
	500	2500	-	-	-

ITH 132 ITH 142	n <sub>1</sub> [min <sup>-1</sup> ]	Potenza motore/ Motor Power [kW]					
		5.5	7.5	9.2	11.0	15.0	18.5
R <sub>1</sub> [N]	1400	3700				2800	1200
	900	4900			3300	650	-
	500	5250	3900	1300	-	-	-

I carichi radiali uscita massimi applicabili sono riportati nelle tabelle precedenti.  
Quando il carico radiale risultante non è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula:

*The radial loads maximum output applicable are indicated in the previous tables.*  
*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:*



	ITH 112	ITH 113	ITH 122	ITH 123	ITH 132	ITH 133	ITH 142	ITH 143
a	139	134	139		157	139	157	139
b	110	110	110		118	110	118	110

$$R_c = \frac{R_1 \cdot a}{(b+x)} \leq R_1$$

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

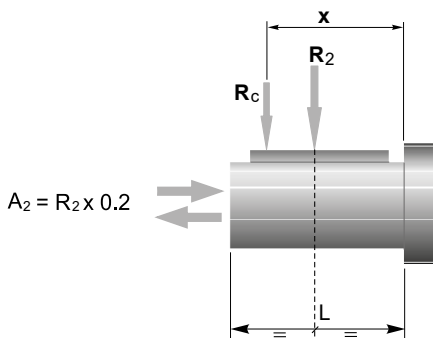
$$R \leq R_c$$

**Carichi radiali in uscita**

**Output Radial loads**

I carichi radiali uscita massimi applicabili sono riportati nelle tabelle dati tecnici.  
Quando il carico radiale risultante non è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula:

*The radial loads maximum output applicable are indicated in the technical data table.*  
*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:*



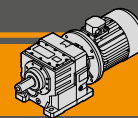
	ITH 112	ITH 113	ITH 122	ITH 123	ITH 132	ITH 133	ITH 142	ITH 143
a	184		208		247		286	
b	149		168		197		226	
R <sub>2MAX</sub>	8200		12500		18500		22500	

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

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

$$R \leq R_c$$




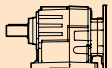


Dati tecnici

$n_1$  1400 min<sup>-1</sup>

Technical data

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$	$R_2$ [N]
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	IEC Motori applicabili IEC Motor adapters
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ITHIS 112

261	350	9.94	5.38	3437
216	350	8.26	6.47	3829
178	400	7.76	7.88	4111
164	400	7.15	8.54	4311
155	420	7.08	9.06	4381
136	420	6.24	10.28	4717
123	480	6.43	11.39	4734
112	480	5.86	12.52	5001
95	500	5.16	14.80	5408
77	530	4.47	18.10	5903
69	530	4.00	20.25	6302
60	600	3.90	23.52	6389
54	600	3.50	26.16	6798
49	650	3.45	28.77	6794
44	680	3.23	32.18	7003
39	680	2.86	36.35	7519
34	680	2.50	41.57	8130
29	600	1.90	48.27	8200
25	600	1.60	57.21	8200

ITH 112

71 B5	80 B5	90 B5/B14	100 B5/B14	112 B5/B14	132 B5/B14
					*
				*	
				*	
				*	
				*	
			*	*	
			*	*	

ITHIS 113


25	700	1.98	55.27	8200
21	700	1.61	67.61	8200
19	700	1.46	74.96	8200
15	700	1.19	91.70	8200
13	700	1.00	108.91	8200
10	700	0.80	136.65	8200
8.5	700	0.67	163.98	8200
8.1	700	0.63	173.44	8200
7.6	700	0.59	185.20	8200
6.9	700	0.54	201.58	8200
6.6	700	0.51	212.17	8200
6.2	700	0.48	226.55	8200
5.7	700	0.44	246.59	8200

ITH 113

71 B5	80 B5	90 B5/B14
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	*	*
	*	*

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

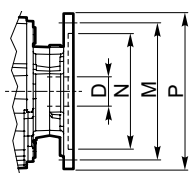
N.B.  
Highlighted areas indicate motor inputs available on each size of unit.

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

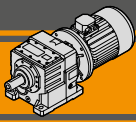
 \* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. C11 alla pag. C19.

Before selecting any gearbox, please read the performance values shown in the tables on page C11 to C19.




Dimensioni IEC / IEC Dimensions								
	71 B5	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14
N	110	130	130	95	180	110	230	130
M	130	165	165	115	215	130	265	165
P	160	200	200	140	250	160	300	200
D	14	19	24		28		38	

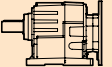


**Dati tecnici**

**$n_1$  1400 min<sup>-1</sup>**

**Technical data**

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$	$R_2$ [N]
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	<b>IEC Motori applicabili</b> <b>IEC Motor adapters</b>			
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**ITHIS 122**

271	550	16.25	5.17	4751
209	550	12.56	6.69	5522
180	600	11.76	7.79	5878
159	650	11.25	8.82	6149
139	750	11.36	10.08	6278
123	750	10.09	11.35	6727
105	850	9.76	13.30	6946
88	850	8.15	15.92	7713
82	850	7.59	17.11	8045
72	850	6.66	19.50	8683
65	900	6.41	21.43	8887
58	980	6.24	24.00	9005
53	980	5.70	26.28	9494
48	980	5.09	29.40	10136
43	980	4.63	32.31	10710
40	980	4.22	35.47	11309
34	980	3.58	41.78	12500
31	980	3.27	45.73	12500
28	980	2.97	50.40	12500

**ITH 122**

80 B5	90 B5/B14	100 B5/B14	112 B5/B14	132 B5/B14
				*
				*
			*	
			*	

**ITHIS 123**


25	980	2.73	56.00	12500
23	980	2.49	61.31	12500
20	980	2.17	70.53	12500
17	980	1.89	81.00	12500
16	980	1.72	88.68	12500
13	980	1.45	105.23	12500
12	980	1.33	115.21	12500
11	980	1.19	128.73	12500
9.7	980	1.06	144.00	12500
8.9	980	0.97	157.66	12500
7.9	980	0.86	178.10	12500
6.9	980	0.75	203.65	12500
6.5	980	0.71	216.00	12500
5.9	980	0.65	236.49	12500
5.5	980	0.60	256.00	12500
5.0	980	0.55	280.29	12500


**ITH 123**

71 B5	80 B5	90 B5/B14	100 B5/B14	112 B5/B14
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N.B.  
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.

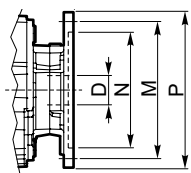
N.B.  
Highlighted areas indicate motor inputs available on each size of unit.

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

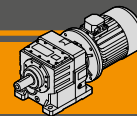
 \* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. C11 alla pag. C19.

Before selecting any gearbox, please read the performance values shown in the tables on page C11 to C19.




Dimensioni IEC / IEC Dimensions								
	71 B5	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14
<b>N</b>	110	130	130	95	180	110	230	130
<b>M</b>	130	165	165	115	215	130	265	165
<b>P</b>	160	200	200	140	250	160	300	200
<b>D</b>	14	19	24		28		38	

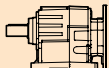


Dati tecnici

$n_1$  1400 min<sup>-1</sup>

Technical data

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$	$R_2$ [N]
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	IEC Motori applicabili IEC Motor adapters					
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ITHIS 132

$n_2$	$Mn_2$	$Pn_1$	$i$	$R_2$
278	850	25.8	5.03	10319
230	850	21.3	6.09	11532
203	900	19.9	6.91	12142
186	900	18.3	7.51	12746
167	900	16.4	8.36	13570
155	900	15.2	9.03	14195
136	950	14.1	10.30	14992
127	950	13.2	11.01	15581
113	1200	14.8	12.39	14811
95	1200	12.4	14.80	16426
93	1300	13.1	15.11	15778
75	1500	12.3	18.69	15950
69	1600	12.0	20.31	15734
55	1600	9.5	25.65	18031
51	1700	9.4	27.48	17571
46	1700	8.5	30.46	18500
40	1900	8.4	34.61	17356
37	1900	7.7	37.71	18247
33	1900	6.9	41.80	18500
31	1900	6.4	45.60	18500
28	1900	5.8	49.88	18500

ITH 132

80 B5	90 B5/B14	100 B5/B14	112 B5/B14	132 B5/B14	160 B5	180 B5
*	*	*	*			
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					*	*

ITHIS 133


$n_2$	$Mn_2$	$Pn_1$	$i$	$R_2$
23	1900	4.9	60.92	18500
22	1900	4.6	64.74	18500
19.8	1900	4.2	70.88	18500
17.9	1900	3.8	78.38	18500
16.1	1900	3.4	87.14	18500
14.6	1900	3.1	95.67	18500
12.7	1900	2.7	109.93	18500
11.6	1900	2.5	120.36	18500
10.4	1900	2.2	134.66	18500
9.5	1900	2.0	147.98	18500
8.6	1900	1.8	162.45	18500
7.3	1900	1.5	191.39	18500
6.7	1900	1.4	209.48	18500
6.1	1900	1.3	230.85	18500


ITH 133

80 B5	90 B5/B14	100 B5/B14	112 B5/B14	132 B5/B14
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N.B. Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.

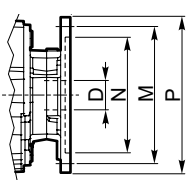
N.B. Highlighted areas indicate motor inputs available on each size of unit.

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

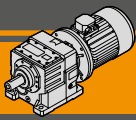
 \* = The service factor ( $sf$ ) has to be selected depending on application: please contact our Technical Department.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. C11 alla pag. C19.

Before selecting any gearbox, please read the performance values shown in the tables on page C11 to C19.



Dimensioni IEC / IEC Dimensions									
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5
N	130	130	95	180	110	230	130	250	250
M	165	165	115	215	130	265	165	300	300
P	200	200	140	250	160	300	200	350	350
D	19	24		28		38		42	48



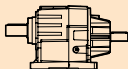
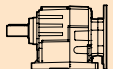
**ITH**

**Motoriduttori ad ingranaggi cilindrici**  
**Helical in-line gearmotors**

**Dati tecnici**

**$n_1$  1400 min<sup>-1</sup>**


**Technical data**


	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$	$R_2$ [N]		IEC Motori applicabili IEC Motor adapters				
<b>ITHIS 142</b>						<b>ITH 142</b>					
						<b>100 B5/B14</b>	<b>112 B5/B14</b>	<b>132 B5/B14</b>	<b>160 B5</b>	<b>180 B5</b>	<b>200 B5</b>
	<b>228</b>	1800	44.68	6.15	14955						
	<b>190</b>	1800	37.40	7.35	16494						
	<b>158</b>	2000	34.38	8.88	17248	*	*				
	<b>144</b>	2000	31.34	9.75	18150						
	<b>135</b>	2100	30.99	10.35	18181	*	*				
	<b>120</b>	2100	27.54	11.65	19402						
	<b>110</b>	2200	26.30	12.78	19769						*
	<b>99</b>	2300	24.95	14.08	20171						*
	<b>85</b>	2300	21.42	16.40	21936						*
	<b>79</b>	2800	24.11	17.73	19026						*
	<b>69</b>	2800	21.12	20.24	20463						*
	<b>54</b>	3200	18.80	25.99	19654						*
	<b>50</b>	3200	17.39	28.10	20514					*	*
	<b>43</b>	3200	15.11	32.35	22168					*	*
	<b>38</b>	3200	13.18	37.09	22500					*	*
	<b>32</b>	3200	11.22	43.57	22500					*	*
	<b>30</b>	3200	10.32	47.35	22500						
	<b>27</b>	3200	9.44	51.76	22500						

<b>ITHIS 143</b>						<b>ITH 143</b>				
						<b>80 B5</b>	<b>90 B5/B14</b>	<b>100 B5/B14</b>	<b>112 B5/B14</b>	<b>132 B5/B14</b>
	<b>23</b>	3500	8.84	61.74	22500					
	<b>21</b>	3500	8.18	66.73	22500					
	<b>18</b>	3500	6.87	79.43	22500					
	<b>16</b>	3500	6.36	85.85	22500					
	<b>13</b>	3500	4.90	111.40	22500					*
	<b>12</b>	3500	4.53	120.42	22500					*
	<b>11</b>	3500	4.14	131.84	22500					*
	<b>9.5</b>	3500	3.70	147.51	22500					*
	<b>8.6</b>	3500	3.37	162.10	22500					*
	<b>7.9</b>	3500	3.07	177.95	22500					*
	<b>7.2</b>	3500	2.81	193.96	22500					
	<b>6.7</b>	3500	2.64	209.65	22500					
	<b>6.1</b>	3500	2.38	229.46	22500					
	<b>5.5</b>	3500	2.16	252.87	22500					

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

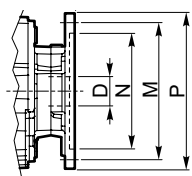
N.B.  
Highlighted areas indicate motor inputs available on each size of unit.

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

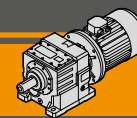
 \* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. C11 alla pag. C19.

Before selecting any gearbox, please read the performance values shown in the tables on page C11 to C19.







<b>Dimensioni IEC / IEC Dimensions</b>										
	<b>80 B5</b>	<b>90 B5</b>	<b>90 B14</b>	<b>100/112 B5</b>	<b>100/112 B14</b>	<b>132 B5</b>	<b>132 B14</b>	<b>160 B5</b>	<b>180 B5</b>	<b>200 B5</b>
<b>N</b>	130	130	95	180	110	230	130	250	250	300
<b>M</b>	165	165	115	215	130	265	165	300	300	350
<b>P</b>	200	200	140	250	160	300	200	350	350	400
<b>D</b>	19	24		28		38		42	48	55



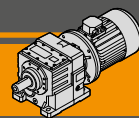
Dati tecnici

Technical data

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			R <sub>2</sub> [N]	P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			R <sub>2</sub> [N]		
<b>0.25</b>								<b>0.55</b>									
71A4 (1400 min <sup>-1</sup> )	54	43	14	26.16	ITH112	B5	8200	80A4 (1400 min <sup>-1</sup> )	260	19	18	5.38	ITH112	B5	4411		
	39	60	11	36.35		B5	8200		216	23	15	6.47		B5	4901		
	34	68	10	41.57		B5	8200		178	28	14	7.88		B5	5479		
	29	79	7.6	48.27		B5	8200		164	31	13	8.54		B5	5736		
	24	94	6.4	57.21		B5	8200		155	33	13	9.06		B5	5928		
										136	37	11		10.28	B5	6363	
		25	89	7.9	55.27	ITH113	B5		8200		123	41	12	11.39	ITH113	B5	6737
		21	108	6.5	67.61		B5		8200		112	45	11	12.52		B5	7098
		19	120	5.8	74.96		B5		8200		95	53	9.4	14.80		B5	7783
		15	147	4.8	91.70		B5		8200		77	65	8.1	18.10		B5	8200
		13	175	4.0	108.91		B5		8200		69	73	7.3	20.25		B5	8200
		10	219	3.2	136.65		B5		8200		60	85	7.1	23.52		B5	8200
		8.5	263	2.7	163.98	B5	8200			54	94	6.4	26.16	B5	8200		
		8.1	278	2.5	173.44	B5	8200			49	104	6.3	28.77	B5	8200		
		7.6	297	2.4	185.20	B5	8200			44	116	5.9	32.18	B5	8200		
		6.9	323	2.2	201.58	B5	8200			39	131	5.2	36.35	B5	8200		
		6.6	340	2.1	212.17	B5	8200			34	150	4.5	41.57	B5	8200		
		6.2	363	1.9	226.55	B5	8200			29	174	3.5	48.27	B5	8200		
		5.7	395	1.8	246.59	B5	8200			24	206	2.9	57.21	B5	8200		
		7.9	285	3.4	178.10	ITH123	B5		12500		25	195	3.6	55.27	ITH113	B5	8200
		6.9	326	3.0	203.65		B5		12500		21	238	2.9	67.61		B5	8200
		6.5	346	2.8	216.00		B5		12500		19	264	2.6	74.96		B5	8200
		5.9	379	2.6	236.49		B5		12500		15	323	2.2	91.70		B5	8200
		5.5	410	2.4	256.00		B5		12500		13	384	1.8	108.91		B5	8200
	5.0	449	2.2	280.29	B5		12500		10	482	1.5	136.65	B5	8200			
								8.5	578	1.2	163.98	B5	8200				
								8.1	612	1.1	173.44	B5	8200				
								7.6	653	1.1	185.20	B5	8200				
								6.9	711	1.0	201.58	B5	8200				
								6.6	748	0.9	212.17	B5	8200				
								53	95	10	26.28	ITH122	B5	12500			
								48	106	9.3	29.40		B5	12500			
								43	116	8.4	32.31		B5	12500			
								39	128	7.7	35.47		B5	12500			
								34	150	6.5	41.78		B5	12500			
								31	165	5.9	45.73		B5	12500			
								28	182	5.4	50.40	B5	12500				
								25	197	5.0	56.00	ITH123	B5	12500			
								23	216	4.5	61.31		B5	12500			
								20	249	3.9	70.53		B5	12500			
								17	286	3.4	81.00		B5	12500			
								16	313	3.1	88.68		B5	12500			
								13	371	2.6	105.23		B5	12500			
								12	406	2.4	115.21	B5	12500				
								11	454	2.2	128.73	B5	12500				
								9.7	508	1.9	144.00	B5	12500				
								8.9	556	1.8	157.66	B5	12500				
								7.9	628	1.6	178.10	B5	12500				
								6.9	718	1.4	203.65	B5	12500				
								6.5	762	1.3	216.00	B5	12500				
								5.9	834	1.2	236.49	B5	12500				
								5.5	903	1.1	256.00	B5	12500				
								5.0	988	1.0	280.29	B5	12500				













**Dati tecnici**

**Technical data**

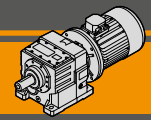
P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			R <sub>2</sub> [N]		
<b>1.1</b>									
90S4 (1400 min <sup>-1</sup> )	<b>260</b>	39	9.0	5.38	<b>ITH112</b>	<b>B5/14</b>	4354		
	<b>216</b>	47	7.5	6.47			<b>B5/14</b>	4825	
	<b>178</b>	57	7.1	7.88			<b>B5/14</b>	5374	
	<b>164</b>	62	6.5	8.54			<b>B5/14</b>	5617	
	<b>155</b>	65	6.4	9.06			<b>B5/14</b>	5798	
	<b>136</b>	74	5.7	10.28			<b>B5/14</b>	6204	
	<b>123</b>	82	5.8	11.39			<b>B5/14</b>	6550	
	<b>112</b>	90	5.3	12.52			<b>B5/14</b>	6881	
	<b>95</b>	107	4.7	14.80			<b>B5/14</b>	7500	
	<b>77</b>	130	4.1	18.10			<b>B5/14</b>	8200	
	<b>69</b>	146	3.6	20.25			<b>B5/14</b>	8200	
	<b>60</b>	169	3.5	23.52			<b>B5/14</b>	8200	
	<b>54</b>	188	3.2	26.16			<b>B5/14</b>	8200	
	<b>49</b>	207	3.1	28.77			<b>B5/14</b>	8200	
	<b>44</b>	232	2.9	32.18			<b>B5/14</b>	8200	
	<b>39</b>	262	2.6	36.35			<b>B5/14</b>	8200	
	<b>34</b>	299	2.3	41.57			<b>B5/14</b>	8200	
	<b>29</b>	348	1.7	48.27			<b>B5/14</b>	8200	
	<b>24</b>	412	1.5	57.21			<b>B5/14</b>	8200	
	<b>25</b>	390	1.8	55.27			<b>ITH113</b>	<b>B5/14</b>	8200
	<b>21</b>	477	1.5	67.61				<b>B5/14</b>	8200
	<b>19</b>	529	1.3	74.96				<b>B5/14</b>	8200
	<b>15</b>	647	1.1	91.70				<b>B5/14</b>	8200
	<b>13</b>	768	0.9	108.91				<b>B5/14</b>	8200
	<b>159</b>	64	10	8.82	<b>ITH122</b>	<b>B5/14</b>		8152	
	<b>139</b>	73	10	10.08		<b>B5/14</b>	8778		
	<b>123</b>	82	9.2	11.35		<b>B5/14</b>	9371		
	<b>105</b>	96	8.9	13.30		<b>B5/14</b>	10218		
	<b>88</b>	115	7.4	15.92		<b>B5/14</b>	11257		
	<b>82</b>	123	6.9	17.11		<b>B5/14</b>	11698		
	<b>72</b>	140	6.1	19.50		<b>B5/14</b>	12500		
	<b>65</b>	154	5.8	21.43		<b>B5/14</b>	12500		
	<b>58</b>	173	5.7	24.00		<b>B5/14</b>	12500		
	<b>53</b>	189	5.2	26.28		<b>B5/14</b>	12500		
	<b>48</b>	212	4.6	29.40		<b>B5/14</b>	12500		
	<b>43</b>	233	4.2	32.31		<b>B5/14</b>	12500		
	<b>39</b>	255	3.8	35.47		<b>B5/14</b>	12500		
	<b>34</b>	301	3.3	41.78		<b>B5/14</b>	12500		
	<b>31</b>	329	3.0	45.73		<b>B5/14</b>	12500		
	<b>28</b>	363	2.7	50.40		<b>B5/14</b>	12500		
	<b>25</b>	395	2.5	56.00		<b>ITH123</b>	<b>B5/14</b>	12500	
	<b>23</b>	432	2.3	61.31			<b>B5/14</b>	12500	
	<b>20</b>	497	2.0	70.53			<b>B5/14</b>	12500	
	<b>17</b>	571	1.7	81.00			<b>B5/14</b>	12500	
	<b>16</b>	626	1.6	88.68	<b>B5/14</b>		12500		
	<b>13</b>	742	1.3	105.23	<b>B5/14</b>		12500		
	<b>12</b>	813	1.2	115.21	<b>B5/14</b>		12500		
	<b>11</b>	908	1.1	128.73	<b>B5/14</b>		12500		
	<b>9.7</b>	1016	1.0	144.00	<b>B5/14</b>		12500		
	<b>8.9</b>	1112	0.9	157.66	<b>B5/14</b>		12500		
	<b>55</b>	185	8.7	25.65	<b>ITH132</b>		<b>B5/14</b>	18500	
	<b>51</b>	198	8.6	27.48			<b>B5/14</b>	18500	
	<b>46</b>	219	7.7	30.46			<b>B5/14</b>	18500	
	<b>40</b>	249	7.6	34.61		<b>B5/14</b>	18500		
	<b>37</b>	272	7.0	37.71		<b>B5/14</b>	18500		
	<b>33</b>	301	6.3	41.80		<b>B5/14</b>	18500		
	<b>31</b>	328	5.8	45.60		<b>B5/14</b>	18500		
	<b>28</b>	359	5.3	49.88		<b>B5/14</b>	18500		

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			R <sub>2</sub> [N]	
<b>1.1</b>								
90S4 (1400 min <sup>-1</sup> )	<b>23</b>	430	4.4	60.92	<b>ITH133</b>	<b>B5/14</b>	18500	
	<b>22</b>	457	4.2	64.74			<b>B5/14</b>	18500
	<b>20</b>	500	3.8	70.88			<b>B5/14</b>	18500
	<b>18</b>	553	3.4	78.38			<b>B5/14</b>	18500
	<b>16</b>	615	3.1	87.14			<b>B5/14</b>	18500
	<b>15</b>	675	2.8	95.67			<b>B5/14</b>	18500
	<b>13</b>	775	2.5	109.93			<b>B5/14</b>	18500
	<b>12</b>	849	2.2	120.36			<b>B5/14</b>	18500
	<b>10</b>	950	2.0	134.66			<b>B5/14</b>	18500
	<b>9.5</b>	1044	1.8	147.98			<b>B5/14</b>	18500
	<b>8.6</b>	1146	1.7	162.45			<b>B5/14</b>	18500
	<b>7.3</b>	1350	1.4	191.39			<b>B5/14</b>	18500
	<b>6.7</b>	1478	1.3	209.48			<b>B5/14</b>	18500
	<b>6.1</b>	1628	1.2	230.85			<b>B5/14</b>	18500
	<b>23</b>	435	8.0	61.74			<b>ITH143</b>	<b>B5/14</b>
	<b>21</b>	471	7.4	66.73	<b>B5/14</b>	22500		
	<b>18</b>	560	6.2	79.43	<b>B5/14</b>	22500		
	<b>16</b>	606	5.8	85.85	<b>B5/14</b>	22500		
	<b>13</b>	786	4.5	111.40	<b>B5/14</b>	22500		
	<b>12</b>	849	4.1	120.42	<b>B5/14</b>	22500		
	<b>11</b>	930	3.8	131.84	<b>B5/14</b>	22500		
	<b>9.5</b>	1040	3.4	147.51	<b>B5/14</b>	22500		
	<b>8.6</b>	1143	3.1	162.10	<b>B5/14</b>	22500		
	<b>7.9</b>	1255	2.8	177.95	<b>B5/14</b>	22500		
	<b>7.2</b>	1368	2.6	193.96	<b>B5/14</b>	22500		
	<b>6.7</b>	1479	2.4	209.65	<b>B5/14</b>	22500		
	<b>6.1</b>	1618	2.2	229.46	<b>B5/14</b>	22500		
	<b>5.5</b>	1784	2.0	252.87	<b>B5/14</b>	22500		

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			R <sub>2</sub> [N]			
<b>1.5</b>										
90L4 (1400 min <sup>-1</sup> )	<b>260</b>	53	6.6	5.38	<b>ITH112</b>	<b>B5/14</b>	4313			
	<b>216</b>	64	5.5	6.47			<b>B5/14</b>	4769		
	<b>178</b>	77	5.2	7.88			<b>B5/14</b>	5299		
	<b>164</b>	84	4.8	8.54			<b>B5/14</b>	5531		
	<b>155</b>	89	4.7	9.06			<b>B5/14</b>	5703		
	<b>136</b>	101	4.2	10.28			<b>B5/14</b>	6088		
	<b>123</b>	112	4.3	11.39			<b>B5/14</b>	6414		
	<b>112</b>	123	3.9	12.52			<b>B5/14</b>	6723		
	<b>95</b>	145	3.4	14.80			<b>B5/14</b>	7294		
	<b>77</b>	178	3.0	18.10			<b>B5/14</b>	8009		
	<b>69</b>	199	2.7	20.25			<b>B5/14</b>	8200		
	<b>60</b>	231	2.6	23.52			<b>B5/14</b>	8200		
	<b>54</b>	257	2.3	26.16			<b>B5/14</b>	8200		
	<b>49</b>	283	2.3	28.77			<b>B5/14</b>	8200		
	<b>44</b>	316	2.2	32.18			<b>B5/14</b>	8200		
	<b>39</b>	357	1.9	36.35			<b>B5/14</b>	8200		
	<b>34</b>	408	1.7	41.57			<b>B5/14</b>	8200		
	<b>29</b>	474	1.3	48.27			<b>B5/14</b>	8200		
	<b>24</b>	562	1.1	57.21			<b>B5/14</b>	8200		
	<b>25</b>	532	1.3	55.27			<b>ITH113</b>	<b>B5/14</b>	8200	
	<b>21</b>	650	1.1	67.61					<b>B5/14</b>	8200
	<b>19</b>	721	1.0	74.96					<b>B5/14</b>	8200





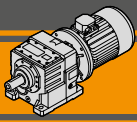






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Technical data

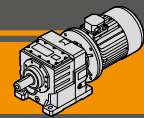
$P_1$ [kW]	$n_2$ [min <sup>-1</sup> ]	$M_2$ [Nm]	sf	i			$R_2$ [N]	$P_1$ [kW]	$n_2$ [min <sup>-1</sup> ]	$M_2$ [Nm]	sf	i			$R_2$ [N]	
<b>1.85</b>								<b>2.2</b>								
90LB4 (1400 min <sup>-1</sup> )	<b>155</b>	109	8.2	9.03	ITH132	<b>B5/14</b>	18500	100LA4 (1400 min <sup>-1</sup> )	271	73	7.5	5.17	ITH122	<b>B5/14</b>	5944	
	<b>136</b>	125	7.6	10.30		<b>B5/14</b>	18500		209	96	5.7	6.69		<b>B5/14</b>	6840	
	<b>127</b>	133	7.1	11.01		<b>B5/14</b>	18500		180	112	5.3	7.79		<b>B5/14</b>	7428	
	<b>113</b>	150	8.0	12.39		<b>B5/14</b>	18500		159	127	5.1	8.82		<b>B5/14</b>	7935	
	<b>95</b>	179	6.7	14.80		<b>B5/14</b>	18500		139	145	5.2	10.08		<b>B5/14</b>	8510	
	<b>93</b>	183	7.1	15.11		<b>B5/14</b>	18500		123	164	4.6	11.35		<b>B5/14</b>	9047	
	<b>75</b>	226	6.6	18.69		<b>B5/14</b>	18500		105	192	4.4	13.30		<b>B5/14</b>	9803	
	<b>69</b>	246	6.5	20.31		<b>B5/14</b>	18500		88	229	3.7	15.92		<b>B5/14</b>	10704	
	<b>55</b>	311	5.1	25.65		<b>B5/14</b>	18500		82	247	3.4	17.11		<b>B5/14</b>	11079	
	<b>51</b>	333	5.1	27.48		<b>B5/14</b>	18500		72	281	3.0	19.50		<b>B5/14</b>	11770	
	<b>46</b>	369	4.6	30.46		<b>B5/14</b>	18500		65	309	2.9	21.43		<b>B5/14</b>	12276	
	<b>40</b>	419	4.5	34.61		<b>B5/14</b>	18500		58	346	2.8	24.00		<b>B5/14</b>	12500	
	<b>37</b>	457	4.2	37.71		<b>B5/14</b>	18500		53	379	2.6	26.28		<b>B5/14</b>	12500	
	<b>33</b>	506	3.8	41.80		<b>B5/14</b>	18500		48	424	2.3	29.40		<b>B5/14</b>	12500	
	<b>31</b>	552	3.4	45.60		<b>B5/14</b>	18500		43	465	2.1	32.31		<b>B5/14</b>	12500	
	<b>28</b>	604	3.1	49.88		<b>B5/14</b>	18500		39	511	1.9	35.47		<b>B5/14</b>	12500	
									34	602	1.6	41.78		<b>B5/14</b>	12500	
									31	659	1.5	45.73		<b>B5/14</b>	12500	
									28	726	1.3	50.40		<b>B5/14</b>	12500	
	<b>23</b>	723	2.6	60.92	ITH133	<b>B5/14</b>	18500		<b>25</b>	790	1.2	56.00	ITH123	<b>B5/14</b>	12500	
	<b>22</b>	768	2.5	64.74		<b>B5/14</b>	18500		<b>23</b>	865	1.1	61.31		<b>B5/14</b>	12500	
	<b>20</b>	841	2.3	70.88		<b>B5/14</b>	18500		<b>20</b>	995	1.0	70.53		<b>B5/14</b>	12500	
	<b>18</b>	930	2.0	78.38		<b>B5/14</b>	18500									
	<b>16</b>	1034	1.8	87.14		<b>B5/14</b>	18500									
	<b>15</b>	1135	1.7	95.67		<b>B5/14</b>	18500									
	<b>13</b>	1304	1.5	109.93		<b>B5/14</b>	18500		<b>155</b>	130	6.9	9.03	ITH132	<b>B5/14</b>	18500	
	<b>12</b>	1428	1.3	120.36		<b>B5/14</b>	18500		<b>136</b>	148	6.4	10.30		<b>B5/14</b>	18500	
	<b>10</b>	1597	1.2	134.66		<b>B5/14</b>	18500		<b>127</b>	159	6.0	11.01		<b>B5/14</b>	18500	
	<b>9.5</b>	1755	1.1	147.98		<b>B5/14</b>	18500		<b>113</b>	179	6.7	12.39		<b>B5/14</b>	18500	
	<b>8.6</b>	1927	1.0	162.45		<b>B5/14</b>	18500		<b>95</b>	213	5.6	14.80		<b>B5/14</b>	18500	
									<b>93</b>	218	6.0	15.11		<b>B5/14</b>	18500	
	<b>23</b>	732	4.8	61.74	ITH143	<b>B5/14</b>	22500		<b>75</b>	269	5.6	18.69		<b>B5/14</b>	18500	
	<b>21</b>	792	4.4	66.73		<b>B5/14</b>	22500		<b>69</b>	293	5.5	20.31		<b>B5/14</b>	18500	
	<b>18</b>	942	3.7	79.43		<b>B5/14</b>	22500		<b>55</b>	370	4.3	25.65		<b>B5/14</b>	18500	
	<b>16</b>	1018	3.4	85.85		<b>B5/14</b>	22500		<b>51</b>	396	4.3	27.48		<b>B5/14</b>	18500	
	<b>13</b>	1322	2.6	111.40		<b>B5/14</b>	22500		<b>46</b>	439	3.9	30.46		<b>B5/14</b>	18500	
	<b>12</b>	1428	2.5	120.42		<b>B5/14</b>	22500		<b>40</b>	499	3.8	34.61		<b>B5/14</b>	18500	
	<b>11</b>	1564	2.2	131.84		<b>B5/14</b>	22500		<b>37</b>	543	3.5	37.71	<b>B5/14</b>	18500		
	<b>9.5</b>	1750	2.0	147.51		<b>B5/14</b>	22500		<b>33</b>	602	3.2	41.80	<b>B5/14</b>	18500		
	<b>8.6</b>	1923	1.8	162.10		<b>B5/14</b>	22500		<b>31</b>	657	2.9	45.60	<b>B5/14</b>	18500		
	<b>7.9</b>	2111	1.7	177.95		<b>B5/14</b>	22500		<b>28</b>	719	2.6	49.88	<b>B5/14</b>	18500		
	<b>7.2</b>	2301	1.5	193.96		<b>B5/14</b>	22500									
	<b>6.7</b>	2487	1.4	209.65		<b>B5/14</b>	22500		<b>23</b>	859	2.2	60.92	ITH133	<b>B5/14</b>	18500	
	<b>6.1</b>	2722	1.3	229.46	<b>B5/14</b>	22500		<b>22</b>	913	2.1	64.74	<b>B5/14</b>		18500		
	<b>5.5</b>	3000	1.2	252.87	<b>B5/14</b>	22500		<b>20</b>	1000	1.9	70.88	<b>B5/14</b>		18500		
								<b>18</b>	1106	1.7	78.38	<b>B5/14</b>		18500		
								<b>16</b>	1229	1.5	87.14	<b>B5/14</b>		18500		
								<b>15</b>	1350	1.4	95.67	<b>B5/14</b>		18500		
								<b>13</b>	1551	1.2	109.93	<b>B5/14</b>		18500		
								<b>12</b>	1698	1.1	120.36	<b>B5/14</b>		18500		
								<b>10</b>	1900	1.0	134.66	<b>B5/14</b>		18500		
								<b>85</b>	236	9.7	16.40	ITH142		<b>B5/14</b>	22500	
								<b>69</b>	292	9.6	20.24			<b>B5/14</b>	22500	
								<b>54</b>	374	8.5	25.99		<b>B5/14</b>	22500		
								<b>43</b>	466	6.9	32.35		<b>B5/14</b>	22500		
								<b>32</b>	628	5.1	43.57		<b>B5/14</b>	22500		
								<b>30</b>	682	4.7	47.35		<b>B5/14</b>	22500		
								<b>27</b>	746	4.3	51.76		<b>B5/14</b>	22500		



**ITH****Motoriduttori ad ingranaggi cilindrici  
Helical in-line gearmotors****Dati tecnici****Technical data**

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			R <sub>2</sub> [N]	P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			R <sub>2</sub> [N]
<b>2.2</b>								<b>3.0</b>							
100LA4 (1400 min <sup>-1</sup> )	<b>23</b>	871	4.0	61.74	<b>ITH143</b>	<b>B5/14</b>	22500	100LB4 (1400 min <sup>-1</sup> )	<b>155</b>	177	5.1	9.03	<b>ITH132</b>	<b>B5/14</b>	18500
	<b>21</b>	941	3.7	66.73		<b>B5/14</b>	22500		<b>136</b>	202	4.7	10.30		<b>B5/14</b>	18500
	<b>18</b>	1120	3.1	79.43		<b>B5/14</b>	22500		<b>127</b>	216	4.4	11.01		<b>B5/14</b>	18500
	<b>16</b>	1211	2.9	85.85		<b>B5/14</b>	22500		<b>113</b>	243	4.9	12.39		<b>B5/14</b>	18500
	<b>13</b>	1572	2.2	111.40		<b>B5/14</b>	22500		<b>95</b>	291	4.1	14.80		<b>B5/14</b>	18500
	<b>12</b>	1699	2.1	120.42		<b>B5/14</b>	22500		<b>93</b>	297	4.4	15.11		<b>B5/14</b>	18500
	<b>11</b>	1860	1.9	131.84		<b>B5/14</b>	22500		<b>75</b>	367	4.1	18.69		<b>B5/14</b>	18500
	<b>9.5</b>	2081	1.7	147.51		<b>B5/14</b>	22500		<b>69</b>	399	4.0	20.31		<b>B5/14</b>	18500
	<b>8.6</b>	2287	1.5	162.10		<b>B5/14</b>	22500		<b>55</b>	504	3.2	25.65		<b>B5/14</b>	18500
	<b>7.9</b>	2510	1.4	177.95		<b>B5/14</b>	22500		<b>51</b>	540	3.1	27.48		<b>B5/14</b>	18500
	<b>7.2</b>	2736	1.3	193.96		<b>B5/14</b>	22500		<b>46</b>	598	2.8	30.46		<b>B5/14</b>	18500
	<b>6.7</b>	2957	1.2	209.65		<b>B5/14</b>	22500		<b>40</b>	680	2.8	34.61		<b>B5/14</b>	18500
	<b>6.1</b>	3237	1.1	229.46		<b>B5/14</b>	22500		<b>37</b>	741	2.6	37.71		<b>B5/14</b>	18500
	<b>5.5</b>	3567	1.0	252.87	<b>B5/14</b>	22500		<b>33</b>	821	2.3	41.80	<b>B5/14</b>	18500		
								<b>31</b>	896	2.1	45.60	<b>B5/14</b>	18500		
								<b>28</b>	980	1.9	49.88	<b>B5/14</b>	18500		

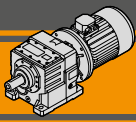
<b>3.0</b>								<b>4.0</b>								
100LB4 (1400 min <sup>-1</sup> )	<b>260</b>	106	3.3	5.38	<b>ITH112</b>	<b>B5/14</b>	4157						<b>ITH133</b>	<b>B5/14</b>	18500	
	<b>216</b>	127	2.8	6.47		<b>B5/14</b>	4561		<b>23</b>	1172	1.6	60.92		<b>B5/14</b>	18500	
	<b>178</b>	155	2.6	7.88		<b>B5/14</b>	5014		<b>22</b>	1245	1.5	64.74		<b>B5/14</b>	18500	
	<b>164</b>	168	2.4	8.54		<b>B5/14</b>	5207		<b>20</b>	1363	1.4	70.88		<b>B5/14</b>	18500	
	<b>155</b>	178	2.4	9.06		<b>B5/14</b>	5348		<b>18</b>	1508	1.3	78.38		<b>B5/14</b>	18500	
	<b>136</b>	202	2.1	10.28		<b>B5/14</b>	5654		<b>16</b>	1676	1.1	87.14		<b>B5/14</b>	18500	
	<b>123</b>	224	2.1	11.39		<b>B5/14</b>	5903		<b>15</b>	1840	1.0	95.67		<b>B5/14</b>	18500	
	<b>112</b>	246	2.0	12.52		<b>B5/14</b>	6130							<b>ITH142</b>	<b>B5/14</b>	22500
	<b>95</b>	291	1.7	14.80		<b>B5/14</b>	6521		<b>110</b>	251	8.8	12.78			<b>B5/14</b>	22500
	<b>77</b>	356	1.5	18.10		<b>B5/14</b>	6946		<b>99</b>	277	8.3	14.08			<b>B5/14</b>	22500
	<b>69</b>	398	1.3	20.25		<b>B5/14</b>	7146		<b>85</b>	322	7.1	16.40			<b>B5/14</b>	22500
	<b>60</b>	462	1.3	23.52		<b>B5/14</b>	7350		<b>69</b>	398	7.0	20.24			<b>B5/14</b>	22500
	<b>54</b>	514	1.2	26.16		<b>B5/14</b>	7437		<b>54</b>	511	6.3	25.99			<b>B5/14</b>	22500
	<b>49</b>	565	1.2	28.77	<b>B5/14</b>	7459		<b>43</b>	636	5.0	32.35	<b>B5/14</b>	22500			
	<b>44</b>	632	1.1	32.18	<b>B5/14</b>	7402		<b>32</b>	856	3.7	43.57	<b>B5/14</b>	22500			
	<b>39</b>	714	1.0	36.35	<b>B5/14</b>	7212		<b>30</b>	930	3.4	47.35	<b>B5/14</b>	22500			
								<b>27</b>	1017	3.1	51.76	<b>B5/14</b>	22500			
	<b>271</b>	99	5.5	5.17	<b>ITH122</b>	<b>B5/14</b>	5878						<b>ITH143</b>		<b>B5/14</b>	22500
	<b>209</b>	131	4.2	6.69		<b>B5/14</b>	6738		<b>23</b>	1188	2.9	61.74			<b>B5/14</b>	22500
	<b>180</b>	153	3.9	7.79		<b>B5/14</b>	7298		<b>21</b>	1284	2.7	66.73			<b>B5/14</b>	22500
	<b>159</b>	173	3.8	8.82		<b>B5/14</b>	7777		<b>18</b>	1528	2.3	79.43		<b>B5/14</b>	22500	
	<b>139</b>	198	3.8	10.08		<b>B5/14</b>	8315		<b>16</b>	1651	2.1	85.85		<b>B5/14</b>	22500	
	<b>123</b>	223	3.4	11.35		<b>B5/14</b>	8812		<b>13</b>	2143	1.6	111.40		<b>B5/14</b>	22500	
	<b>105</b>	261	3.3	13.30		<b>B5/14</b>	9500		<b>12</b>	2316	1.5	120.42		<b>B5/14</b>	22500	
	<b>88</b>	313	2.7	15.92		<b>B5/14</b>	10302		<b>11</b>	2536	1.4	131.84		<b>B5/14</b>	22500	
	<b>82</b>	336	2.5	17.11		<b>B5/14</b>	10628		<b>9.5</b>	2838	1.2	147.51		<b>B5/14</b>	22500	
	<b>72</b>	383	2.2	19.50		<b>B5/14</b>	11215		<b>8.6</b>	3118	1.1	162.10		<b>B5/14</b>	22500	
	<b>65</b>	421	2.1	21.43		<b>B5/14</b>	11633		<b>7.9</b>	3423	1.0	177.95		<b>B5/14</b>	22500	
	<b>58</b>	471	2.1	24.00		<b>B5/14</b>	12118							<b>ITH112</b>	<b>B5/14</b>	4053
	<b>53</b>	516	1.9	26.28		<b>B5/14</b>	12487		112M4 (1400 min <sup>-1</sup> )	<b>260</b>	141	2.5			5.38	<b>B5/14</b>
	<b>48</b>	578	1.7	29.40	<b>B5/14</b>	12500			<b>216</b>	169	2.1	6.47	<b>B5/14</b>		4824	
	<b>43</b>	635	1.5	32.31	<b>B5/14</b>	12500			<b>178</b>	206	1.9	7.88	<b>B5/14</b>		4991	
	<b>39</b>	697	1.4	35.47	<b>B5/14</b>	12500			<b>164</b>	224	1.8	8.54	<b>B5/14</b>		5111	
	<b>34</b>	821	1.2	41.78	<b>B5/14</b>	12500			<b>155</b>	237	1.8	9.06	<b>B5/14</b>		5365	
	<b>31</b>	898	1.1	45.73	<b>B5/14</b>	12500			<b>136</b>	269	1.6	10.28	<b>B5/14</b>		5563	
	<b>28</b>	990	1.0	50.40	<b>B5/14</b>	12500			<b>123</b>	298	1.6	11.39	<b>B5/14</b>		5735	
									<b>112</b>	328	1.5	12.52	<b>B5/14</b>		6005	
									<b>95</b>	388	1.3	14.80	<b>B5/14</b>		6237	
									<b>77</b>	474	1.1	18.10	<b>B5/14</b>		6299	
									<b>69</b>	530	1.0	20.25	<b>B5/14</b>		6277	
	<b>25</b>	1077	0.9	56.00	<b>ITH123</b>	<b>B5/14</b>	12500		<b>60</b>	616	1.0	23.52	<b>B5/14</b>			



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Technical data

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			R <sub>2</sub> [N]	P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			R <sub>2</sub> [N]				
<b>4.0</b>								<b>5.5</b>											
112M4 (1400 min <sup>-1</sup> )	<b>271</b>	133	4.1	5.17	<b>ITH122</b>	<b>B5/14</b>	5795	132S4 (1400 min <sup>-1</sup> )	<b>260</b>	194	1.8	5.38	<b>ITH112</b>	<b>B5/B14</b>	3898				
	<b>209</b>	175	3.1	6.69			<b>B5/14</b>	6611	<b>216</b>	233	1.5	6.47			<b>B5/B14</b>	4213			
	<b>180</b>	204	2.9	7.79			<b>B5/14</b>	7136	<b>178</b>	284	1.4	7.88			<b>B5/B14</b>	4539			
	<b>159</b>	231	2.8	8.82			<b>B5/14</b>	7580	<b>164</b>	308	1.3	8.54			<b>B5/B14</b>	4667			
	<b>139</b>	264	2.8	10.08			<b>B5/14</b>	8072	<b>155</b>	326	1.3	9.06			<b>B5/B14</b>	4756			
	<b>123</b>	297	2.5	11.35			<b>B5/14</b>	8518	<b>136</b>	370	1.1	10.28			<b>B5/B14</b>	4930			
	<b>105</b>	348	2.4	13.30			<b>B5/14</b>	9122	<b>123</b>	410	1.2	11.39			<b>B5/B14</b>	5052			
	<b>88</b>	417	2.0	15.92			<b>B5/14</b>	9800	<b>112</b>	451	1.1	12.52			<b>B5/B14</b>	5142			
	<b>82</b>	448	1.9	17.11			<b>B5/14</b>	10065											
	<b>72</b>	511	1.7	19.50			<b>B5/14</b>	10523	<b>271</b>	182	3.0	5.17			<b>ITH122</b>	<b>B5/B14</b>	5671		
	<b>65</b>	561	1.6	21.43			<b>B5/14</b>	10828	<b>209</b>	241	2.3	6.69				<b>B5/B14</b>	6420		
	<b>58</b>	629	1.6	24.00			<b>B5/14</b>	11156	<b>180</b>	281	2.1	7.79				<b>B5/B14</b>	6893		
	<b>53</b>	688	1.4	26.28			<b>B5/14</b>	11377	<b>159</b>	318	2.0	8.82				<b>B5/B14</b>	7284		
	<b>48</b>	770	1.3	29.40			<b>B5/14</b>	11583	<b>139</b>	363	2.1	10.08				<b>B5/B14</b>	7706		
	<b>43</b>	846	1.2	32.31			<b>B5/14</b>	11683	<b>123</b>	409	1.8	11.35				<b>B5/B14</b>	8077		
	<b>39</b>	929	1.1	35.47			<b>B5/14</b>	11701	<b>105</b>	479	1.8	13.30				<b>B5/B14</b>	8555		
	<b>34</b>	1095	0.9	41.78			<b>B5/14</b>	11474	<b>88</b>	573	1.5	15.92				<b>B5/B14</b>	9047		
									<b>82</b>	616	1.4	17.11				<b>B5/B14</b>	9220		
	<b>155</b>	237	3.8	9.03			<b>ITH132</b>	<b>B5/14</b>	18353	<b>72</b>	702	1.2				19.50	<b>B5/B14</b>	9484	
	<b>136</b>	270	3.5	10.30				<b>B5/14</b>	18500	<b>65</b>	772	1.2				21.43	<b>B5/B14</b>	9622	
	<b>127</b>	288	3.3	11.01				<b>B5/14</b>	18500	<b>58</b>	864	1.1				24.00	<b>B5/B14</b>	9712	
	<b>113</b>	325	3.7	12.39				<b>B5/14</b>	18500	<b>53</b>	946	1.0				26.28	<b>B5/B14</b>	9710	
	<b>95</b>	388	3.1	14.80				<b>B5/14</b>	18500	<b>48</b>	1059	0.9				29.40	<b>B5/B14</b>	9593	
	<b>93</b>	396	3.3	15.11				<b>B5/14</b>	18500										
	<b>75</b>	490	3.1	18.69				<b>B5/14</b>	18500	<b>278</b>	178	4.8				5.03	<b>ITH132</b>	<b>B5/B14</b>	13316
	<b>69</b>	532	3.0	20.31				<b>B5/14</b>	18500	<b>230</b>	219	3.9				6.09		<b>B5/B14</b>	14674
	<b>55</b>	672	2.4	25.65				<b>B5/14</b>	18500	<b>203</b>	249	3.6				6.91		<b>B5/B14</b>	15633
	<b>51</b>	720	2.4	27.48				<b>B5/14</b>	18500	<b>186</b>	270	3.3				7.51		<b>B5/B14</b>	16290
	<b>46</b>	798	2.1	30.46				<b>B5/14</b>	18500	<b>167</b>	301	3.0				8.36		<b>B5/B14</b>	17159
	<b>40</b>	907	2.1	34.61			<b>B5/14</b>	18500	<b>155</b>	325	2.8	9.03				<b>B5/B14</b>		17797	
	<b>37</b>	988	1.9	37.71			<b>B5/14</b>	18500	<b>136</b>	371	2.6	10.30				<b>B5/B14</b>		18500	
	<b>33</b>	1095	1.7	41.80			<b>B5/14</b>	18500	<b>127</b>	396	2.4	11.01				<b>B5/B14</b>		18500	
	<b>31</b>	1194	1.6	45.60	<b>B5/14</b>	18500	<b>113</b>	446	2.7	12.39	<b>B5/B14</b>	18500							
	<b>28</b>	1306	1.5	49.88	<b>B5/14</b>	18500	<b>95</b>	533	2.3	14.80	<b>B5/B14</b>	18500							
							<b>93</b>	544	2.4	15.11	<b>B5/B14</b>	18500							
	<b>23</b>	1562	1.2	60.92	<b>ITH133</b>	<b>B5/14</b>	18500	<b>75</b>	673	2.2	18.69	<b>B5/B14</b>	18500						
	<b>22</b>	1660	1.1	64.74		<b>B5/14</b>	18500	<b>69</b>	731	2.2	20.31	<b>B5/B14</b>	18500						
	<b>20</b>	1818	1.0	70.88		<b>B5/14</b>	18500	<b>55</b>	924	1.7	25.65	<b>B5/B14</b>	18500						
	<b>18</b>	2010	0.9	78.38		<b>B5/14</b>	18500	<b>51</b>	990	1.7	27.48	<b>B5/B14</b>	18500						
								<b>46</b>	1097	1.5	30.46	<b>B5/B14</b>	18500						
	<b>110</b>	335	6.6	12.78	<b>ITH142</b>	<b>B5/14</b>	22500	<b>40</b>	1246	1.5	34.61	<b>B5/B14</b>	18500						
	<b>99</b>	369	6.2	14.08		<b>B5/14</b>	22500	<b>37</b>	1358	1.4	37.71	<b>B5/B14</b>	18500						
	<b>85</b>	429	5.4	16.40		<b>B5/14</b>	22500	<b>33</b>	1506	1.3	41.80	<b>B5/B14</b>	18500						
	<b>69</b>	530	5.3	20.24		<b>B5/14</b>	22500	<b>31</b>	1642	1.2	45.60	<b>B5/B14</b>	18500						
	<b>54</b>	681	4.7	25.99		<b>B5/14</b>	22500	<b>28</b>	1796	1.1	49.88	<b>B5/B14</b>	18500						
	<b>43</b>	847	3.8	32.35		<b>B5/14</b>	22500												
	<b>32</b>	1141	2.8	43.57		<b>B5/14</b>	22500	<b>228</b>	217	8.3	6.15	<b>ITH142</b>	<b>B5/B14</b>	21811					
	<b>30</b>	1240	2.6	47.35		<b>B5/14</b>	22500	<b>190</b>	265	6.8	7.35		<b>B5/B14</b>	22500					
	<b>27</b>	1356	2.4	51.76		<b>B5/14</b>	22500	<b>158</b>	320	6.3	8.88		<b>B5/B14</b>	22500					
								<b>144</b>	351	5.7	9.75		<b>B5/B14</b>	22500					
	<b>23</b>	1583	2.2	61.74		<b>ITH143</b>	<b>B5/14</b>	22500	<b>135</b>	373	5.6		10.35	<b>B5/B14</b>	22500				
	<b>21</b>	1712	2.0	66.73	<b>B5/14</b>		22500	<b>120</b>	419	5.0	11.65		<b>B5/B14</b>	22500					
	<b>18</b>	2037	1.7	79.43	<b>B5/14</b>		22500	<b>110</b>	460	4.8	12.78		<b>B5/B14</b>	22500					
	<b>16</b>	2202	1.6	85.85	<b>B5/14</b>		22500	<b>99</b>	507	4.5	14.08		<b>B5/B14</b>	22500					
	<b>13</b>	2857	1.2	111.40	<b>B5/14</b>		22500	<b>85</b>	591	3.9	16.40		<b>B5/B14</b>	22500					
	<b>12</b>	3088	1.1	120.42	<b>B5/14</b>		22500	<b>79</b>	639	4.4	17.73		<b>B5/B14</b>	22500					
	<b>11</b>	3381	1.0	131.84	<b>B5/14</b>		22500	<b>69</b>	729	3.8	20.24		<b>B5/B14</b>	22500					
								<b>54</b>	936	3.4	25.99	<b>B5/B14</b>	22500						
								<b>50</b>	1012	3.2	28.10	<b>B5/B14</b>	22500						
								<b>43</b>	1165	2.7	32.35	<b>B5/B14</b>	22500						
								<b>38</b>	1336	2.4	37.09	<b>B5/B14</b>	22500						
							<b>32</b>	1569	2.0	43.57	<b>B5/B14</b>	22500							
							<b>30</b>	1705	1.9	47.35	<b>B5/B14</b>	22500							
							<b>27</b>	1864	1.7	51.76	<b>B5/B14</b>	22500							







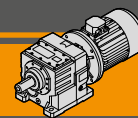
# ITH

## Motoriduttori ad ingranaggi cilindrici Helical in-line gearmotors

### Dati tecnici





### Technical data

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			R <sub>2</sub> [N]	P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			R <sub>2</sub> [N]	
<b>5.5</b>								<b>9.2</b>								
132S4 (1400 min <sup>-1</sup> )	<b>23</b>	2177	1.6	61.74	ITH143	B5/B14	22500	132L4 (1400 min <sup>-1</sup> )	<b>260</b>	324	1.1	5.38	ITH112	B5/B14	3514	
	<b>21</b>	2353	1.5	66.73		B5/B14	22500		<b>271</b>	305	1.8	5.17	ITH122	B5/B14	5364	
	<b>18</b>	2801	1.2	79.43		B5/B14	22500		<b>209</b>	403	1.4	6.69		B5/B14	5949	
	<b>16</b>	3028	1.2	85.85		B5/B14	22500		<b>180</b>	469	1.3	7.79		B5/B14	6293	
<b>7.5</b>									<b>159</b>	531	1.2	8.82		B5/B14	6554	
	<b>271</b>	249	2.2	5.17	ITH122	B5/B14	5505		<b>139</b>	607	1.2	10.08		B5/B14	6805	
132MA4 (1400 min <sup>-1</sup> )	<b>216</b>	318	1.1	6.47		B5/B14	3935		<b>123</b>	684	1.1	11.35		B5/B14	6989	
	<b>178</b>	387	1.0	7.88		B5/B14	4160		<b>105</b>	801	1.1	13.30		B5/B14	7157	
	<b>164</b>	420	1.0	8.54		B5/B14	4235		<b>278</b>	297	2.9	5.03		ITH132	B5/B14	12784
	<b>155</b>	445	0.9	9.06		B5/B14	4282		<b>230</b>	367	2.3	6.09	B5/B14		13938	
	<b>209</b>	328	1.7	6.69		B5/B14	6166		<b>203</b>	416	2.2	6.91	B5/B14		14736	
	<b>180</b>	383	1.6	7.79		B5/B14	6569		<b>186</b>	452	2.0	7.51	B5/B14		15266	
	<b>159</b>	433	1.5	8.82		B5/B14	6890		<b>167</b>	504	1.8	8.36	B5/B14		15945	
	<b>139</b>	495	1.5	10.08	B5/B14	7219		<b>155</b>	544	1.7	9.03	B5/B14	16426			
	<b>123</b>	557	1.3	11.35	B5/B14	7489		<b>136</b>	621	1.5	10.30	B5/B14	17221			
	<b>105</b>	653	1.3	13.30	B5/B14	7800		<b>127</b>	663	1.4	11.01	B5/B14	17599			
	<b>88</b>	782	1.1	15.92	B5/B14	8042		<b>113</b>	747	1.6	12.39	B5/B14	18229			
	<b>82</b>	840	1.0	17.11	B5/B14	8094		<b>95</b>	892	1.3	14.80	B5/B14	18500			
	<b>278</b>	242	3.5	5.03	ITH132	B5/B14	13028		<b>93</b>	910	1.4	15.11	B5/B14	18500		
	<b>230</b>	299	2.8	6.09		B5/B14	14276		<b>75</b>	1126	1.3	18.69	B5/B14	18500		
	<b>203</b>	339	2.7	6.91		B5/B14	15148		<b>69</b>	1223	1.3	20.31	B5/B14	18500		
	<b>186</b>	369	2.4	7.51		B5/B14	15736		<b>55</b>	1545	1.0	25.65	B5/B14	18500		
	<b>167</b>	411	2.2	8.36		B5/B14	16503		<b>51</b>	1656	1.0	27.48	B5/B14	18500		
	<b>155</b>	444	2.0	9.03		B5/B14	17056		<b>228</b>	363	5.0	6.15	ITH142	B5/B14	21179	
	<b>136</b>	506	1.9	10.30		B5/B14	17997		<b>190</b>	443	4.1	7.35		B5/B14	22500	
	<b>127</b>	541	1.8	11.01		B5/B14	18461		<b>158</b>	535	3.7	8.88		B5/B14	22500	
	<b>113</b>	609	2.0	12.39	B5/B14	18500		<b>144</b>	587	3.4	9.75	B5/B14		22500		
	<b>95</b>	727	1.7	14.80	B5/B14	18500		<b>135</b>	623	3.4	10.35	B5/B14		22500		
	<b>93</b>	742	1.8	15.11	B5/B14	18500		<b>120</b>	702	3.0	11.65	B5/B14		22500		
	<b>75</b>	918	1.6	18.69	B5/B14	18500		<b>110</b>	770	2.9	12.78	B5/B14		22500		
	<b>69</b>	997	1.6	20.31	B5/B14	18500		<b>99</b>	848	2.7	14.08	B5/B14		22500		
	<b>55</b>	1260	1.3	25.65	B5/B14	18500		<b>85</b>	988	2.3	16.40	B5/B14	22500			
	<b>51</b>	1350	1.3	27.48	B5/B14	18500		<b>79</b>	1068	2.6	17.73	B5/B14	22500			
	<b>46</b>	1496	1.1	30.46	B5/B14	18500		<b>69</b>	1219	2.3	20.24	B5/B14	22500			
	<b>40</b>	1700	1.1	34.61	B5/B14	18500		<b>54</b>	1566	2.0	25.99	B5/B14	22500			
	<b>37</b>	1852	1.0	37.71	B5/B14	18500		<b>50</b>	1693	1.9	28.10	B5/B14	22500			
	<b>228</b>	296	6.1	6.15	ITH142	B5/B14	21469		<b>43</b>	1949	1.6	32.35	B5/B14	22500		
	<b>190</b>	361	5.0	7.35		B5/B14	22500		<b>38</b>	2234	1.4	37.09	B5/B14	22500		
	<b>158</b>	436	4.6	8.88		B5/B14	22500		<b>32</b>	2625	1.2	43.57	B5/B14	22500		
	<b>144</b>	479	4.2	9.75		B5/B14	22500		<b>30</b>	2853	1.1	47.35	B5/B14	22500		
	<b>135</b>	508	4.1	10.35		B5/B14	22500		<b>27</b>	3118	1.0	51.76	B5/B14	22500		
	<b>120</b>	572	3.7	11.65		B5/B14	22500		<b>23</b>	3642	1.0	61.74	ITH143	B5/B14	22500	
	<b>110</b>	627	3.5	12.78		B5/B14	22500		<b>11.0</b>							
	<b>99</b>	691	3.3	14.08		B5/B14	22500		160M4 (1400 min <sup>-1</sup> )	<b>278</b>	355	2.4	5.03	ITH132	B5	12525
	<b>85</b>	805	2.9	16.40	B5/B14	22500		<b>230</b>	439	1.9	6.09	B5	13580			
	<b>79</b>	871	3.2	17.73	B5/B14	22500		<b>203</b>	498	1.8	6.91	B5	14299			
	<b>69</b>	994	2.8	20.24	B5/B14	22500		<b>186</b>	541	1.7	7.51	B5	14768			
	<b>54</b>	1277	2.5	25.99	B5/B14	22500		<b>167</b>	602	1.5	8.36	B5	15355			
	<b>50</b>	1380	2.3	28.10	B5/B14	22500		<b>155</b>	650	1.4	9.03	B5	15759			
	<b>43</b>	1589	2.0	32.35	B5/B14	22500		<b>136</b>	742	1.3	10.30	B5	16398			
	<b>38</b>	1821	1.8	37.09	B5/B14	22500		<b>127</b>	793	1.2	11.01	B5	16686			
	<b>32</b>	2140	1.5	43.57	B5/B14	22500		<b>113</b>	893	1.3	12.39	B5	17128			
	<b>30</b>	2326	1.4	47.35	B5/B14	22500		<b>95</b>	1066	1.1	14.80	B5	17547			
	<b>27</b>	2542	1.3	51.76	B5/B14	22500		<b>93</b>	1088	1.2	15.11	B5	17571			
	<b>23</b>	2969	1.2	61.74	ITH143	B5/B14	22500		<b>75</b>	1346	1.1	18.69	B5	17421		
	<b>21</b>	3209	1.1	66.73		B5/B14	22500		<b>69</b>	1463	1.1	20.31	B5	17114		



Dati tecnici

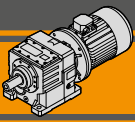
Technical data

P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			R <sub>2</sub> [N]	P <sub>1</sub> [kW]	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	i			R <sub>2</sub> [N]
<b>11.0</b>								<b>22.0</b>							
160M4 (1400 min <sup>-1</sup> )	<b>228</b>	434	4.1	6.15	ITH142	<b>B5</b>	20871	180L4 (1400 min <sup>-1</sup> )	<b>278</b>	710	1.2	5.03	ITH132	<b>B5</b>	10941
	<b>190</b>	529	3.4	7.35		<b>B5</b>	22500		<b>230</b>	878	1.0	6.09		<b>B5</b>	11394
	<b>158</b>	640	3.1	8.88		<b>B5</b>	22500	ITH142	<b>228</b>	868	2.1	6.15	<b>B5</b>	18992	
	<b>144</b>	702	2.8	9.75		<b>B5</b>	22500		<b>190</b>	1059	1.7	7.35	<b>B5</b>	20034	
	<b>135</b>	745	2.8	10.35		<b>B5</b>	22500		<b>158</b>	1280	1.6	8.88	<b>B5</b>	21065	
	<b>120</b>	839	2.5	11.65		<b>B5</b>	22500		<b>144</b>	1404	1.4	9.75	<b>B5</b>	21474	
	<b>110</b>	920	2.4	12.78		<b>B5</b>	22500		<b>135</b>	1491	1.4	10.35	<b>B5</b>	21693	
	<b>99</b>	1014	2.3	14.08		<b>B5</b>	22500		<b>120</b>	1678	1.3	11.65	<b>B5</b>	22000	
	<b>85</b>	1181	1.9	16.40		<b>B5</b>	22500		<b>110</b>	1840	1.2	12.78	<b>B5</b>	22097	
	<b>79</b>	1277	2.2	17.73		<b>B5</b>	22500		<b>99</b>	2028	1.1	14.08	<b>B5</b>	22028	
	<b>69</b>	1458	1.9	20.24		<b>B5</b>	22500		<b>85</b>	2362	1.0	16.40	<b>B5</b>	21475	
	<b>54</b>	1872	1.7	25.99		<b>B5</b>	22500		<b>79</b>	2555	1.1	17.73	<b>B5</b>	20928	
	<b>50</b>	2024	1.6	28.10		<b>B5</b>	22500	<b>69</b>	2916	1.0	20.24	<b>B5</b>	19494		
	<b>43</b>	2330	1.4	32.35		<b>B5</b>	22500								
<b>38</b>	2671	1.2	37.09	<b>B5</b>	22500										
<b>32</b>	3139	1.0	43.57	<b>B5</b>	22500										

<b>15.0</b>							
160L4 (1400 min <sup>-1</sup> )	<b>278</b>	484	1.8	5.03	ITH132	<b>B5</b>	11949
	<b>230</b>	598	1.4	6.09		<b>B5</b>	12785
	<b>203</b>	679	1.3	6.91		<b>B5</b>	13329
	<b>186</b>	738	1.2	7.51		<b>B5</b>	13661
	<b>167</b>	821	1.1	8.36		<b>B5</b>	14043
	<b>155</b>	887	1.0	9.03		<b>B5</b>	14276
	ITH142	<b>228</b>	592	3.0	6.15	<b>B5</b>	20188
		<b>190</b>	722	2.5	7.35	<b>B5</b>	21643
		<b>158</b>	873	2.3	8.88	<b>B5</b>	22500
		<b>144</b>	957	2.1	9.75	<b>B5</b>	22500
		<b>135</b>	1016	2.1	10.35	<b>B5</b>	22500
		<b>120</b>	1144	1.8	11.65	<b>B5</b>	22500
		<b>110</b>	1255	1.8	12.78	<b>B5</b>	22500
		<b>99</b>	1383	1.7	14.08	<b>B5</b>	22500
		<b>85</b>	1610	1.4	16.40	<b>B5</b>	22500
		<b>79</b>	1742	1.6	17.73	<b>B5</b>	22500
		<b>69</b>	1988	1.4	20.24	<b>B5</b>	22500
		<b>54</b>	2553	1.3	25.99	<b>B5</b>	22500
<b>50</b>	2760	1.2	28.10	<b>B5</b>	22500		
<b>43</b>	3178	1.0	32.35	<b>B5</b>	22410		

<b>30.0</b>							
200L4 (1400 min <sup>-1</sup> )	<b>228</b>	1183	1.5	6.15	ITH142	<b>B5</b>	17626
	<b>190</b>	1444	1.2	7.35		<b>B5</b>	18195
	<b>158</b>	1745	1.1	8.88		<b>B5</b>	18598
	<b>144</b>	1915	1.0	9.75		<b>B5</b>	18625
	<b>135</b>	2033	1.0	10.35		<b>B5</b>	18568
	<b>120</b>	2288	0.9	11.65		<b>B5</b>	18247

<b>18.5</b>							
180M4 (1400 min <sup>-1</sup> )	<b>278</b>	597	1.4	5.03	ITH132	<b>B5</b>	11445
	<b>230</b>	738	1.2	6.09		<b>B5</b>	12090
	<b>203</b>	837	1.1	6.91		<b>B5</b>	12480
	<b>186</b>	910	1.0	7.51		<b>B5</b>	12692
	ITH142	<b>228</b>	730	2.5	6.15	<b>B5</b>	19590
		<b>190</b>	890	2.0	7.35	<b>B5</b>	20839
		<b>158</b>	1076	1.9	8.88	<b>B5</b>	22145
		<b>144</b>	1181	1.7	9.75	<b>B5</b>	22500
		<b>135</b>	1254	1.7	10.35	<b>B5</b>	22500
		<b>120</b>	1411	1.5	11.65	<b>B5</b>	22500
		<b>110</b>	1548	1.4	12.78	<b>B5</b>	22500
		<b>99</b>	1705	1.3	14.08	<b>B5</b>	22500
		<b>85</b>	1986	1.2	16.40	<b>B5</b>	22500
		<b>79</b>	2148	1.3	17.73	<b>B5</b>	22500
		<b>69</b>	2452	1.1	20.24	<b>B5</b>	22500
		<b>54</b>	3149	1.0	25.99	<b>B5</b>	20141

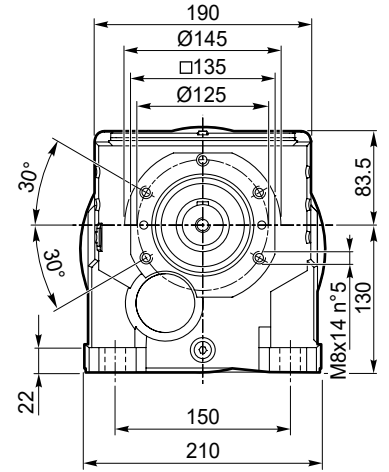
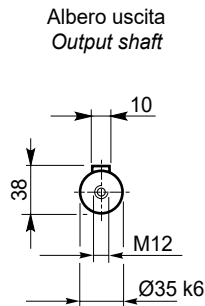
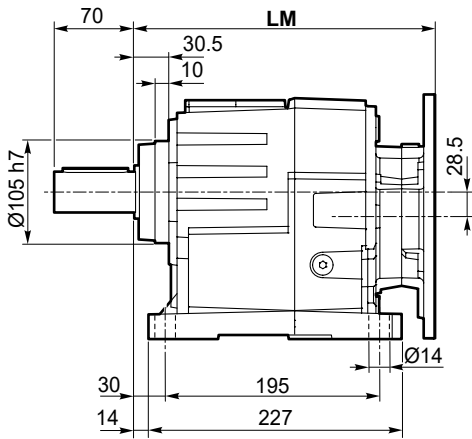


**Dimensioni**

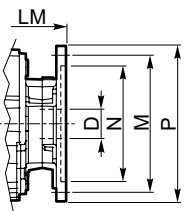
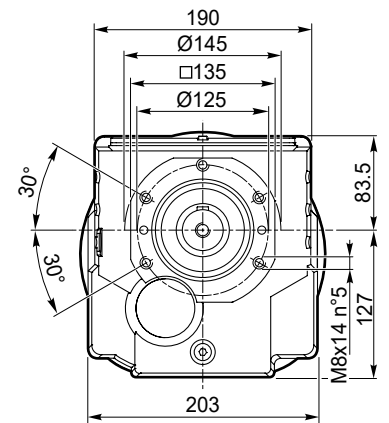
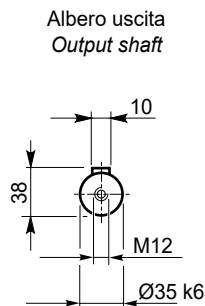
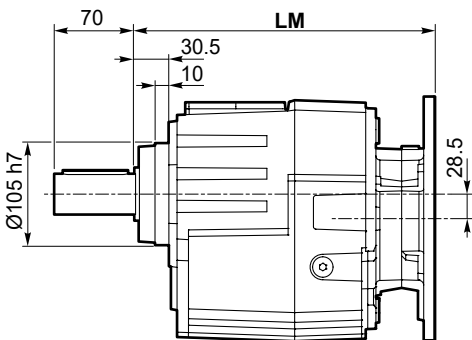
**Dimensions**

**ITH 112 - ITH 113**

**ITH 112 U**  
**ITH 113 U**

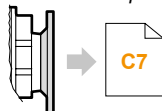


**ITH 112 G**  
**ITH 113 G**

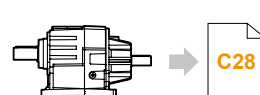


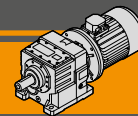
Dimensioni IEC / IEC Dimensions								
	71 B5	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14
<b>LM</b>	289			293,5	293	293,5	314	
<b>N</b>	110	130	130	95	180	110	230	130
<b>M</b>	130	165	165	115	215	130	265	165
<b>P</b>	160	200	200	130	250	160	300	200
<b>D</b>	14	19	24		28		38	

IEC Motori applicabili  
IEC Motor adapters



ITHIS 112...  
ITHIS 113...



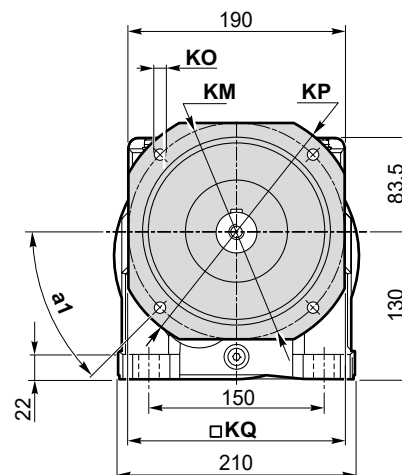
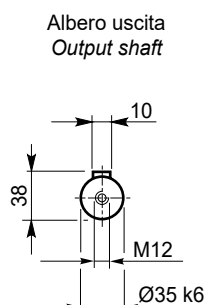
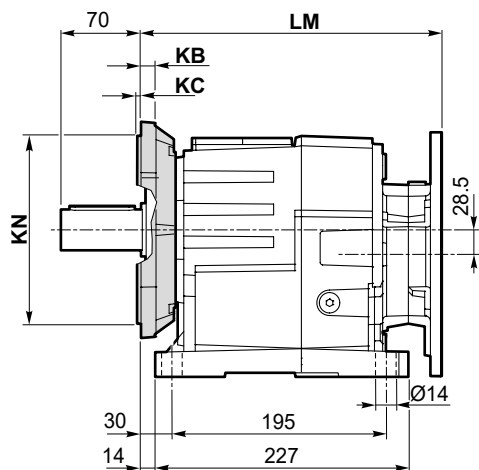


Dimensioni

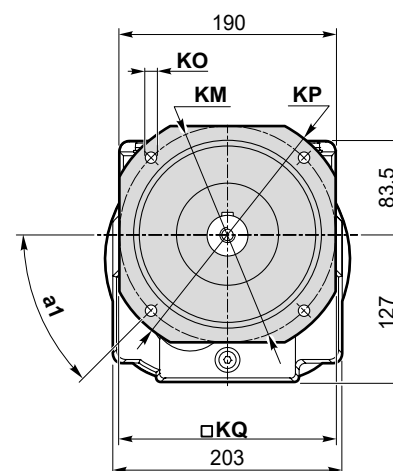
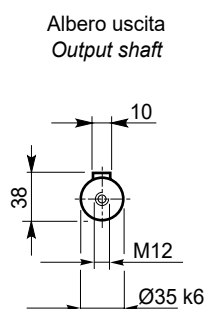
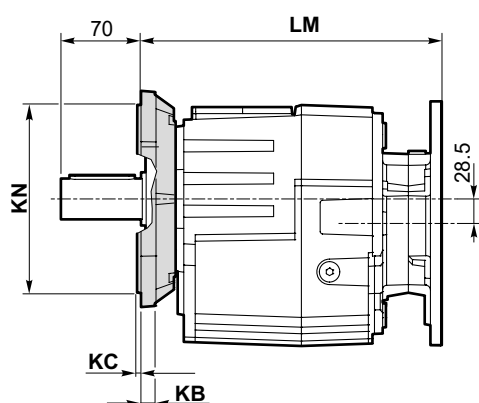
Dimensions

ITH 112 - ITH 113

ITH 112 U/F...  
ITH 113 U/F...



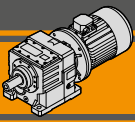
ITH 112 F...  
ITH 113 F...



Versione F / F Version											
ITH	a <sub>1</sub>	KB	KC	KM	KN f7	KO	KP	KQ	Flangia / Flange		
									Tipo / Type		Peso / Weight [kg]
112 113	45°	12	4	165	130	11	200	165	F200		
	45°	12	4	215	180	14	250	215	F250		

Peso / Weight [kg]									
ITH	71 B5	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	
112 U	28	29	29	28	30	28	34	31	
112 G	26	27	27	26	29	26	32	29	
113 U	28	29	29	28	-	-	-	-	
113 G	27	28	28	27	-	-	-	-	

Nota: peso del riduttore complessivo di olio per la posizione M1 (B3)  
Note: weight of the gearbox filled with oil for M1 (B3) assembly position

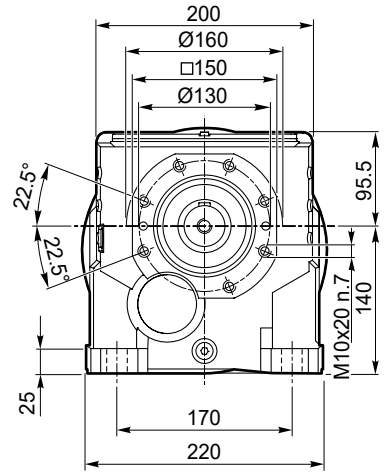
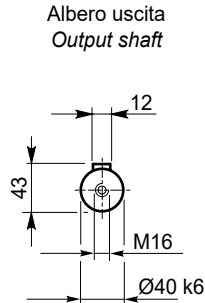
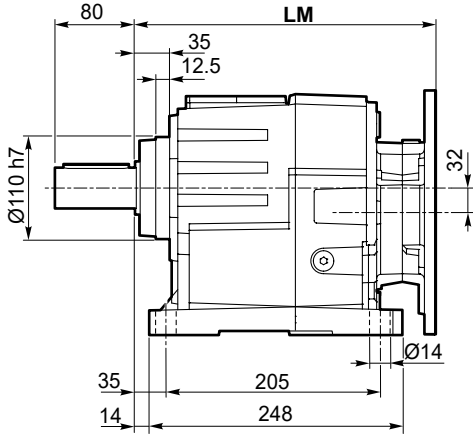


**Dimensioni**

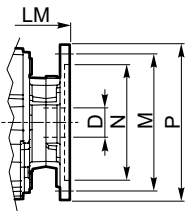
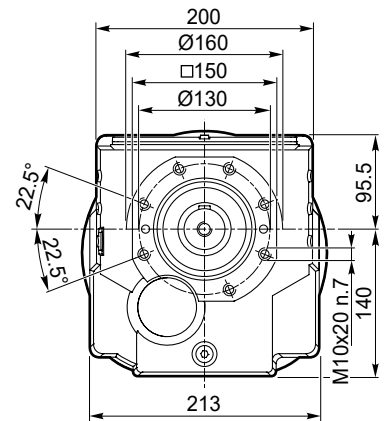
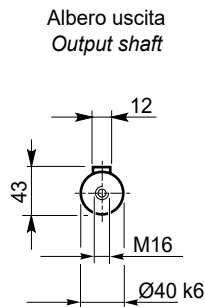
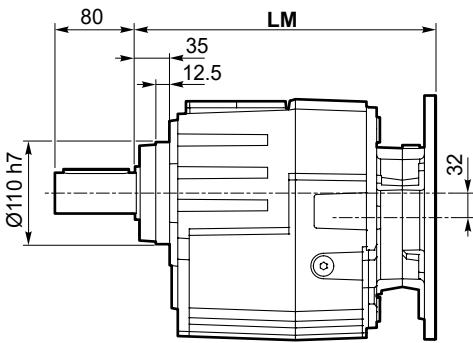
**Dimensions**

**ITH 122 - ITH 123**

**ITH 122 U**  
**ITH 123 U**

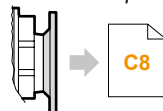


**ITH 122 G**  
**ITH 123 G**

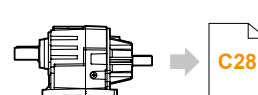


Dimensioni IEC / IEC Dimensions								
	71 B5	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14
<b>LM</b>	309.5			314	313.5	314	334.5	
<b>N</b>	110	130	130	95	180	110	230	130
<b>M</b>	130	165	165	115	215	130	265	165
<b>P</b>	160	200	200	130	250	160	300	200
<b>D</b>	14	19	24		28		38	

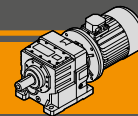
IEC Motori applicabili  
IEC Motor adapters



ITHIS 122...  
ITHIS 123...





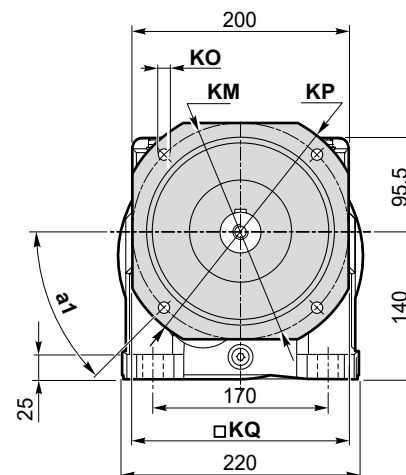
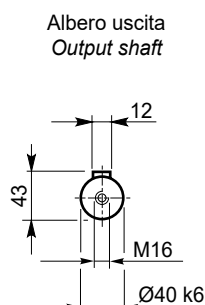
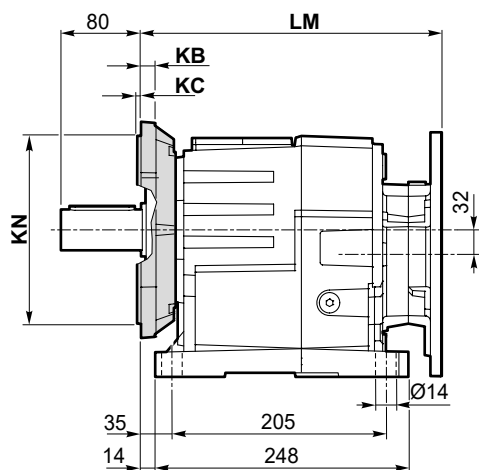


Dimensioni

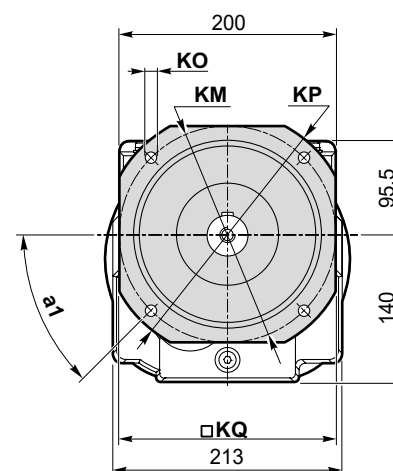
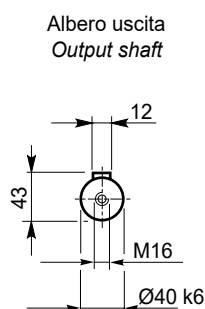
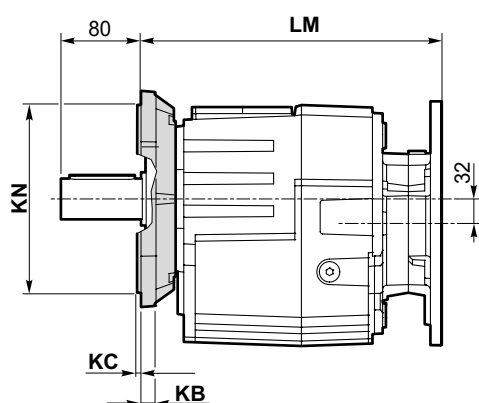
Dimensions

ITH 122- ITH 123

ITH 122 U/F...  
ITH 123 U/F...



ITH 122 F...  
ITH 123 F...



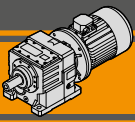
Versione F / F Version

ITH	a <sub>1</sub>	KB	KC	KM	KN f7	KO	KP	KQ	Flangia / Flange	
									Tipo / Type	Peso / Weight [kg]
122 123	45°	13	4	165	130	11	200	172	F200	2.6
	45°	13	4	215	180	14	250	215	F250	3.8
	45°	13	4	265	230	14	300	265	F300	5.6

Peso / Weight [kg]

ITH	71 B5	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14
122 U	-	36	36	35	38	35	41	38
122 G	-	34	34	33	36	33	39	36
123 U	36	37	37	36	39	36	-	-
123 G	34	35	35	34	37	34	-	-

Nota: peso del riduttore complessivo di olio per la posizione M1 (B3)  
Note: weight of the gearbox filled with oil for M1 (B3) assembly position

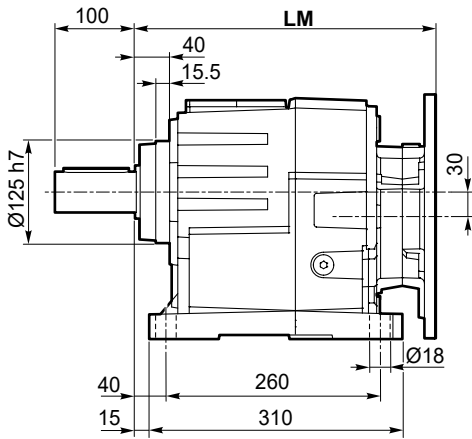


**Dimensioni**

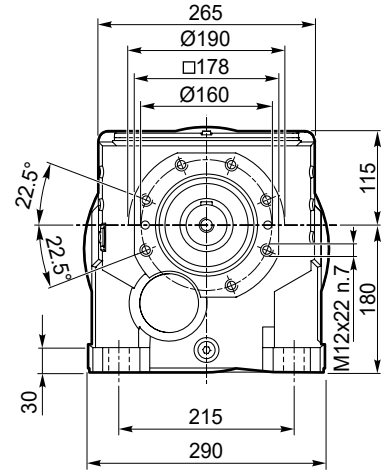
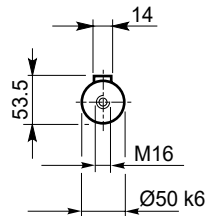
**Dimensions**

**ITH 132 - ITH 133**

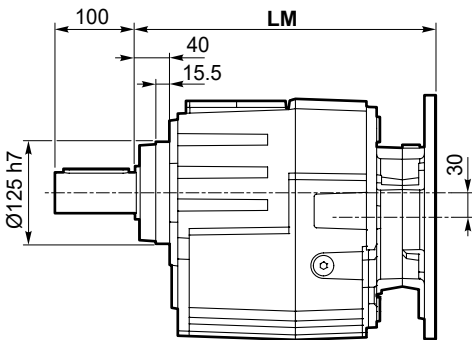
**ITH 132 U**  
**ITH 133 U**



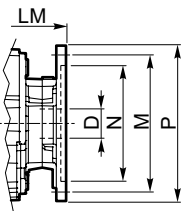
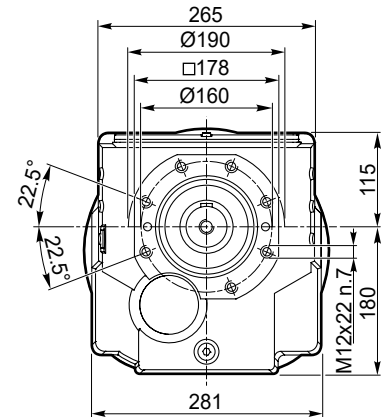
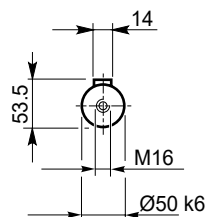
Albero uscita  
Output shaft



**ITH 132 G**  
**ITH 133 G**

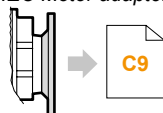


Albero uscita  
Output shaft

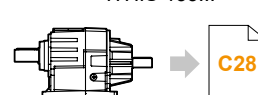


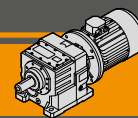
Dimensioni IEC / IEC Dimensions									
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5
<b>LM</b>	340.5		345	344.5	345	365.5		415.5	
<b>N</b>	130		95	180	110	230	130	250	
<b>M</b>	165		115	215	130	265	165	300	
<b>P</b>	200		140	250	160	300	200	350	
<b>D</b>	19	24		28		38		42	48

IEC Motori applicabili  
IEC Motor adapters



ITHIS 132...  
ITHIS 133...



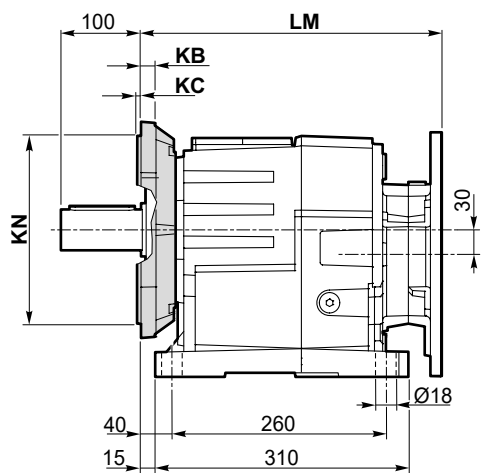


Dimensioni

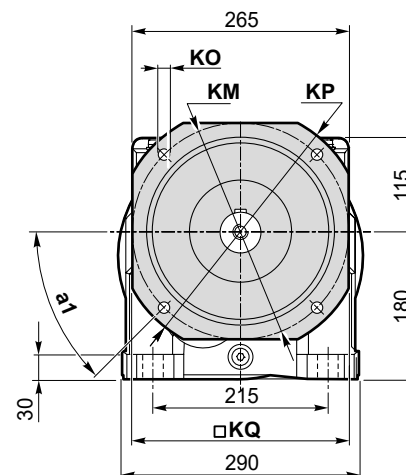
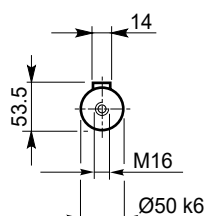
Dimensions

ITH 132- ITH 133

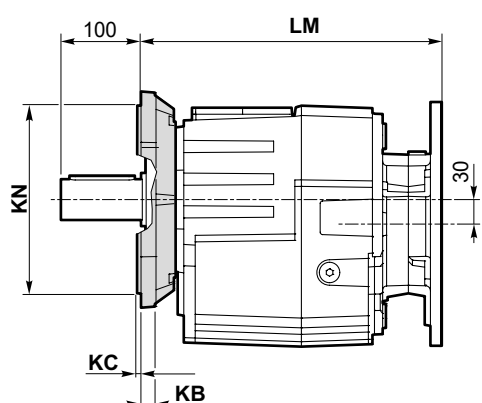
ITH 132 U/F...  
ITH 133 U/F...



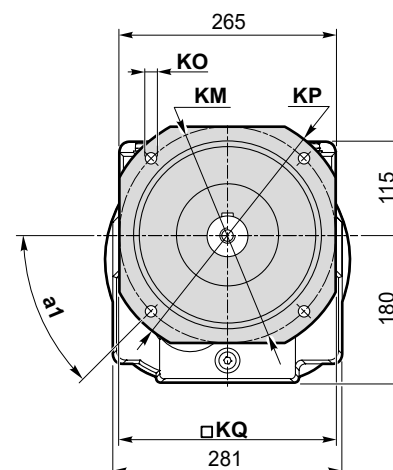
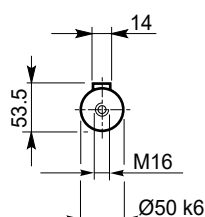
Albero uscita  
Output shaft



ITH 132 F...  
ITH 133 F...



Albero uscita  
Output shaft



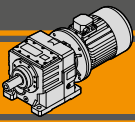
Versione F / F Version

ITH	a <sub>1</sub>	KB	KC	KM	KN f7	KO	KP	KQ	Flangia / Flange	Peso / Weight [kg]
									Tipo / Type	
132 133	45°	16	4	215	180	14	250	215	F250	4.8
	45°	16	4	265	230	14	300	260	F300	7.1
	45°	16	4	300	250	18	350	300	F350	9.1

Peso / Weight [kg]

ITH	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5
132 U		67	66	68	66	72	69		83
132 G		63	62	64	62	68	65		79
133 U		69	68	70	68	74	71	-	-
133 G		65	64	66	64	70	67	-	-

Nota: peso del riduttore complessivo di olio per la posizione M1 (B3)  
Note: weight of the gearbox filled with oil for M1 (B3) assembly position



**ITH**

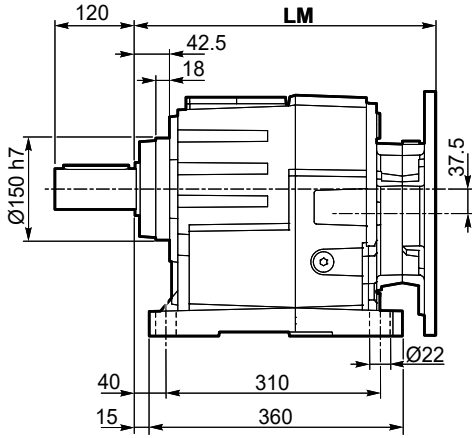
Motoriduttori ad ingranaggi cilindrici  
Helical in-line gearmotors

Dimensioni

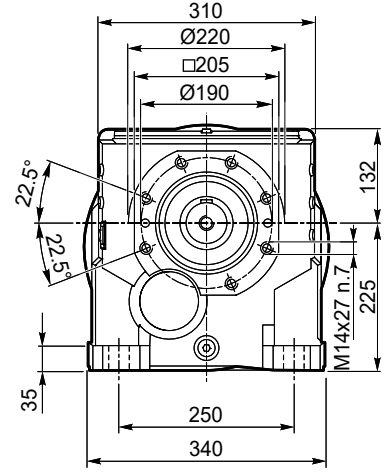
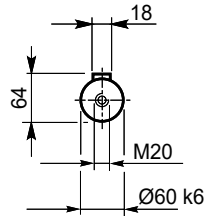
Dimensions

**ITH 142 - ITH 143**

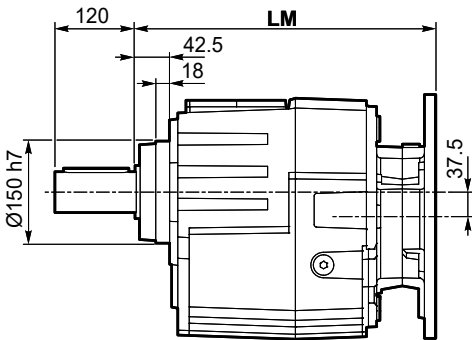
**ITH 142 U**  
**ITH 143 U**



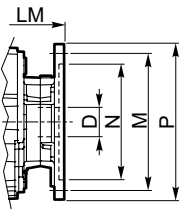
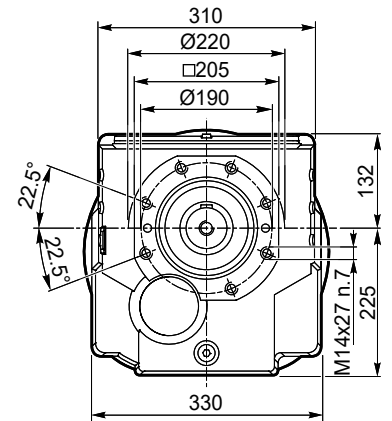
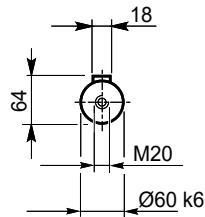
Albero uscita  
Output shaft



**ITH 142 G**  
**ITH 143 G**

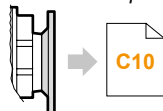


Albero uscita  
Output shaft

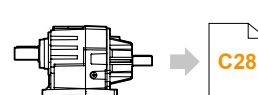


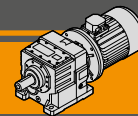
Dimensioni IEC / IEC Dimensions										
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5	200 B5
<b>LM</b>	373.5	378	377.5	378	398.5	448.5	460.5			
<b>N</b>	130	95	180	110	230	130	250	300		
<b>M</b>	165	115	215	130	265	165	300	350		
<b>P</b>	200	140	250	160	300	200	350	400		
<b>D</b>	19	24	28	38	42	48	55			

IEC Motori applicabili  
IEC Motor adapters



ITHIS 142...  
ITHIS 143...



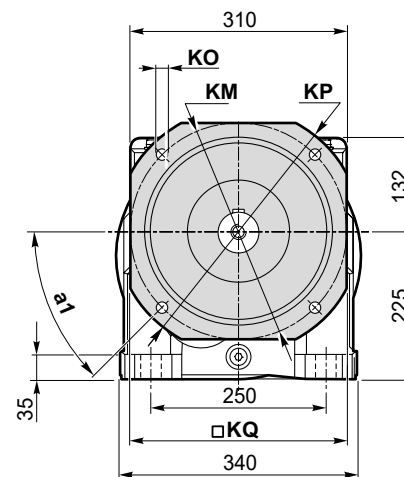
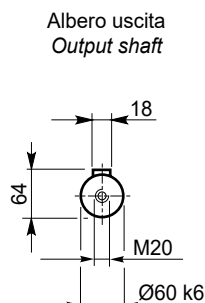
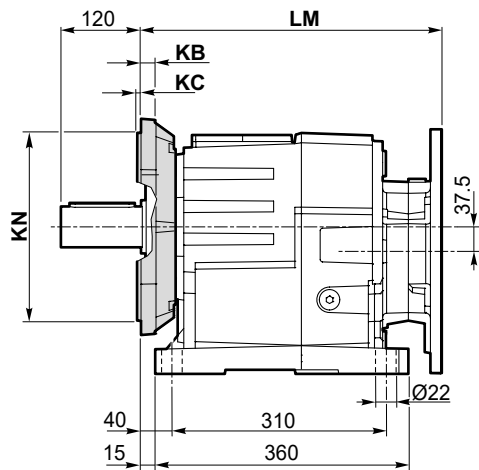


Dimensioni

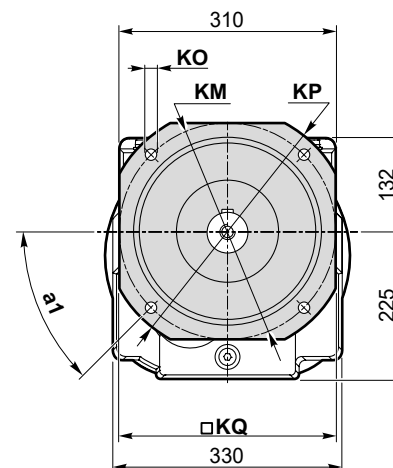
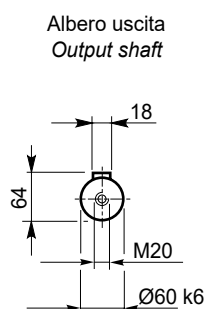
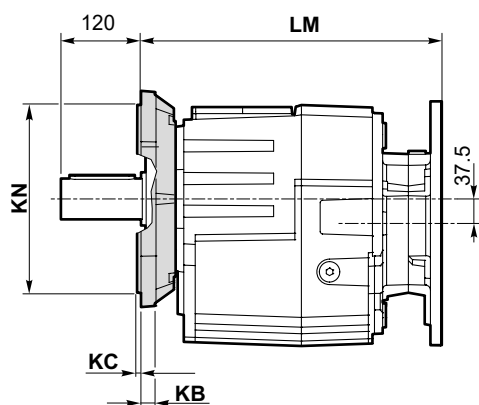
Dimensions

ITH 142- ITH 143

ITH 142 U/F...  
ITH 143 U/F...



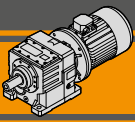
ITH 142 F...  
ITH 143 F...



Versione F / F Version										
ITH	a <sub>1</sub>	KB	KC	KM	KN f7	KO	KP	KQ	Flangia / Flange Tipo / Type	Peso / Weight [kg]
142 143	45°	18	4	265	230	14	300	265	F300	7.4
	45°	18	5	300	250	18	350	300	F350	10.2
	45°	18	5	400	350	18	450	400	F450	16.9

Peso / Weight [kg]										
ITH	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5	200 B5
142 U	-	-	-	105	102	108	105	119		129
142 G	-	-	-	99	96	102	99	113		123
143 U	106		105	108	105	111	108	-	-	-
143 G	100		99	102	99	105	102	-	-	-

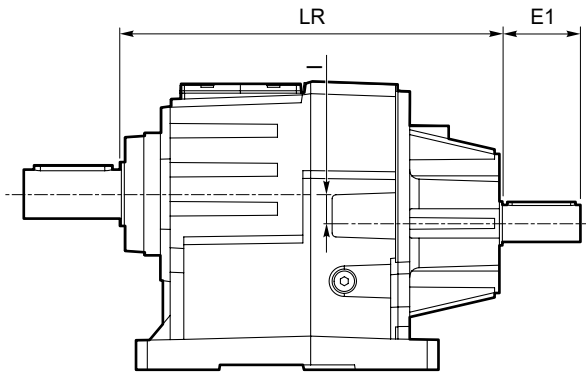
Nota: peso del riduttore complessivo di olio per la posizione M1 (B3)  
Note: weight of the gearbox filled with oil for M1 (B3) assembly position



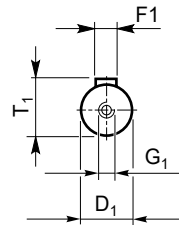
**Dimensioni**

**Dimensions**

**ITHIS...**



Albero entrata  
Input shaft



ITHIS	Peso / Weight [kg]
112 U	29
112 G	28
113 U	30
113 G	28
122 U	37
122 G	35
123 U	38
123 G	36
132 U	73
132 G	69
133 U	69
133 G	65
142 U	110
142 G	104
143 U	107
143 G	101

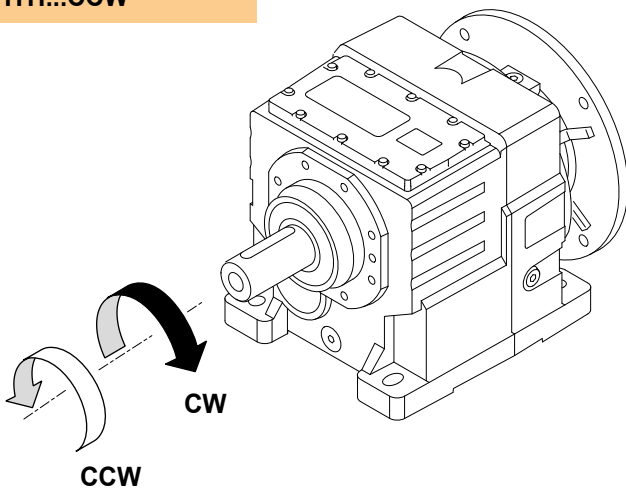
ITHIS	Versione Version	LR	D1	E1	I	T1	F1	G1
112	U G U/F... F...	321.5	28	60	28.5	31	8	M10
113		321.5	24	50	28.5	27	8	M8
122		342	28	60	32	31	8	M10
123		342	28	60	32	31	8	M10
132		390.5	38	80	30	41	10	M12
133		373	28	60	30	31	8	M10
142		423.5	38	80	37.5	41	10	M12
143		406	28	60	37.5	31	8	M10

**Accessori**

**Accessories**

**Dispositivo antiretro / Backstop device**

**ITH...CW  
ITH...CCW**



Il dispositivo antiretro permette la rotazione dell'albero in un solo senso senza creare ingombri aggiuntivi. Prima di utilizzarlo è necessario specificare il senso di rotazione dell'albero di uscita come mostrato in figura.

*The backstop device allows the output shaft to rotate in just one direction. Before using it, please specify output shaft rotation direction as shown in the figure.*

Appendice  
Appendix





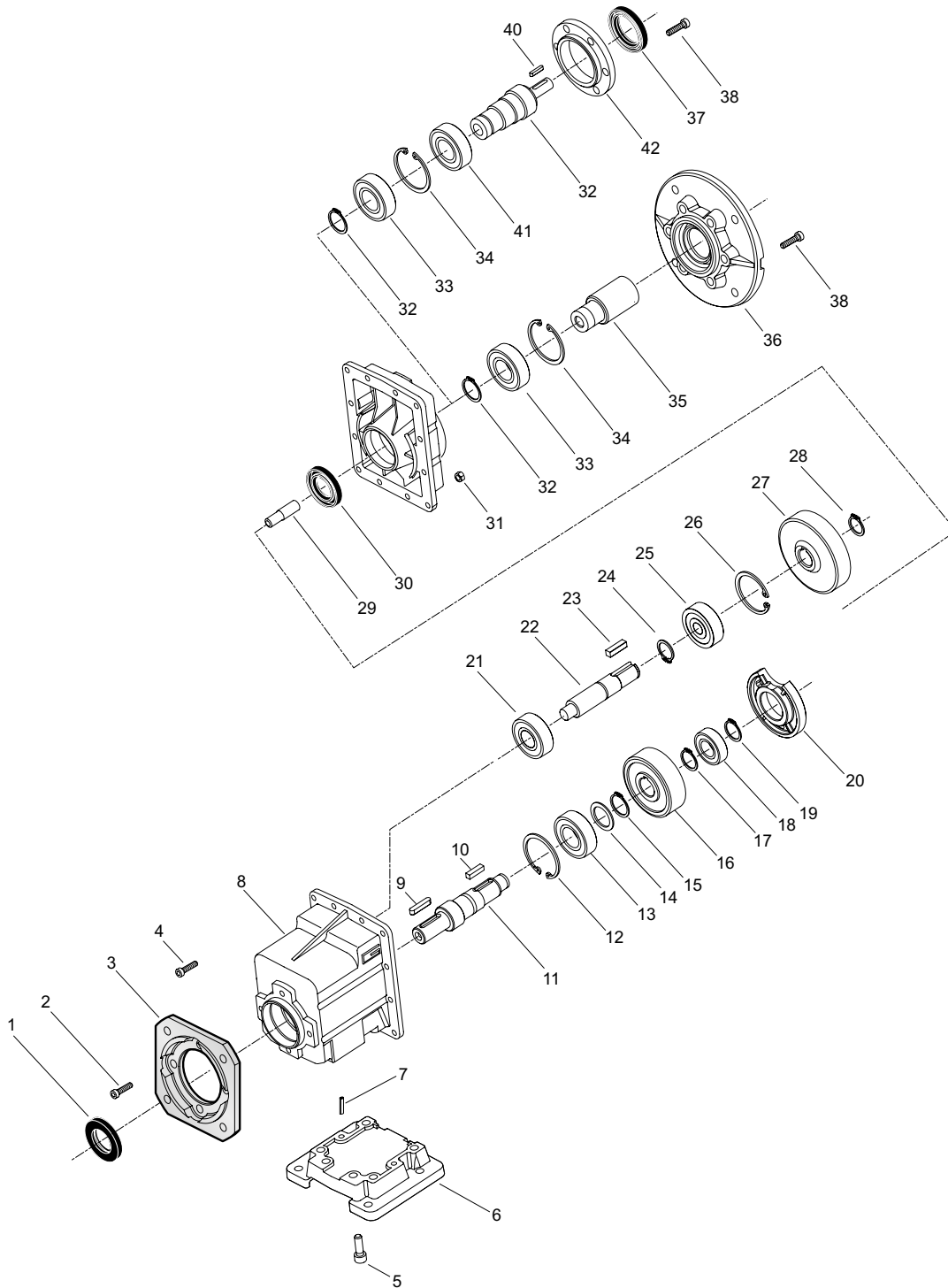


<b>Indice</b>	<b>Index</b>	Pag. Page
Liste parti di ricambio	<i>Spare parts list</i>	
CMG..2	CMG..2	<b>D2</b>
CMG..3	CMG..3	<b>D3</b>
ITH..2	ITH..2	<b>D4</b>
ITH..3	ITH..3	<b>D5</b>
Coperchio entrata	<i>Input cover</i>	<b>D6</b>

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](http://www.transtecno.com)**

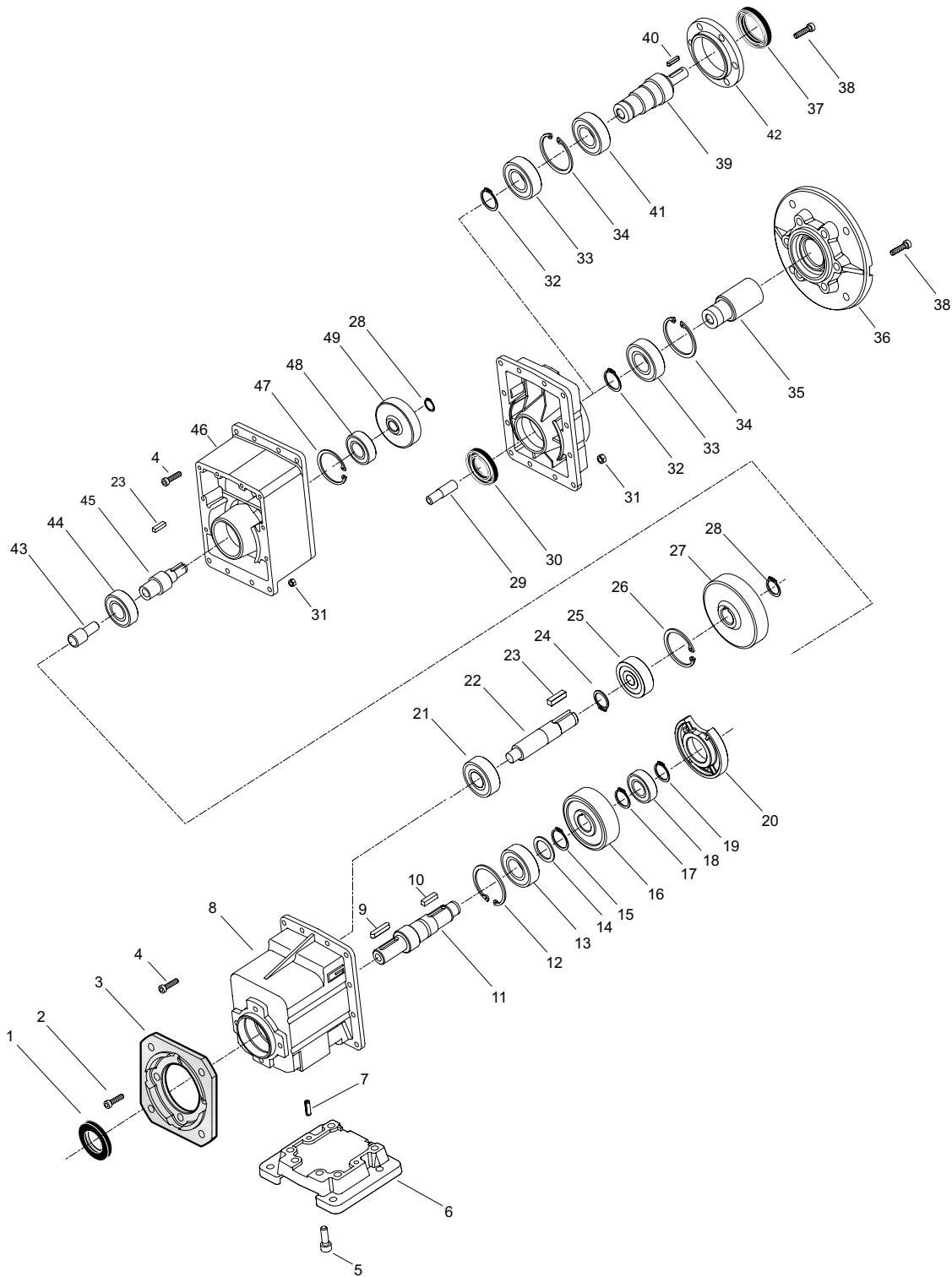
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**CMG..2**



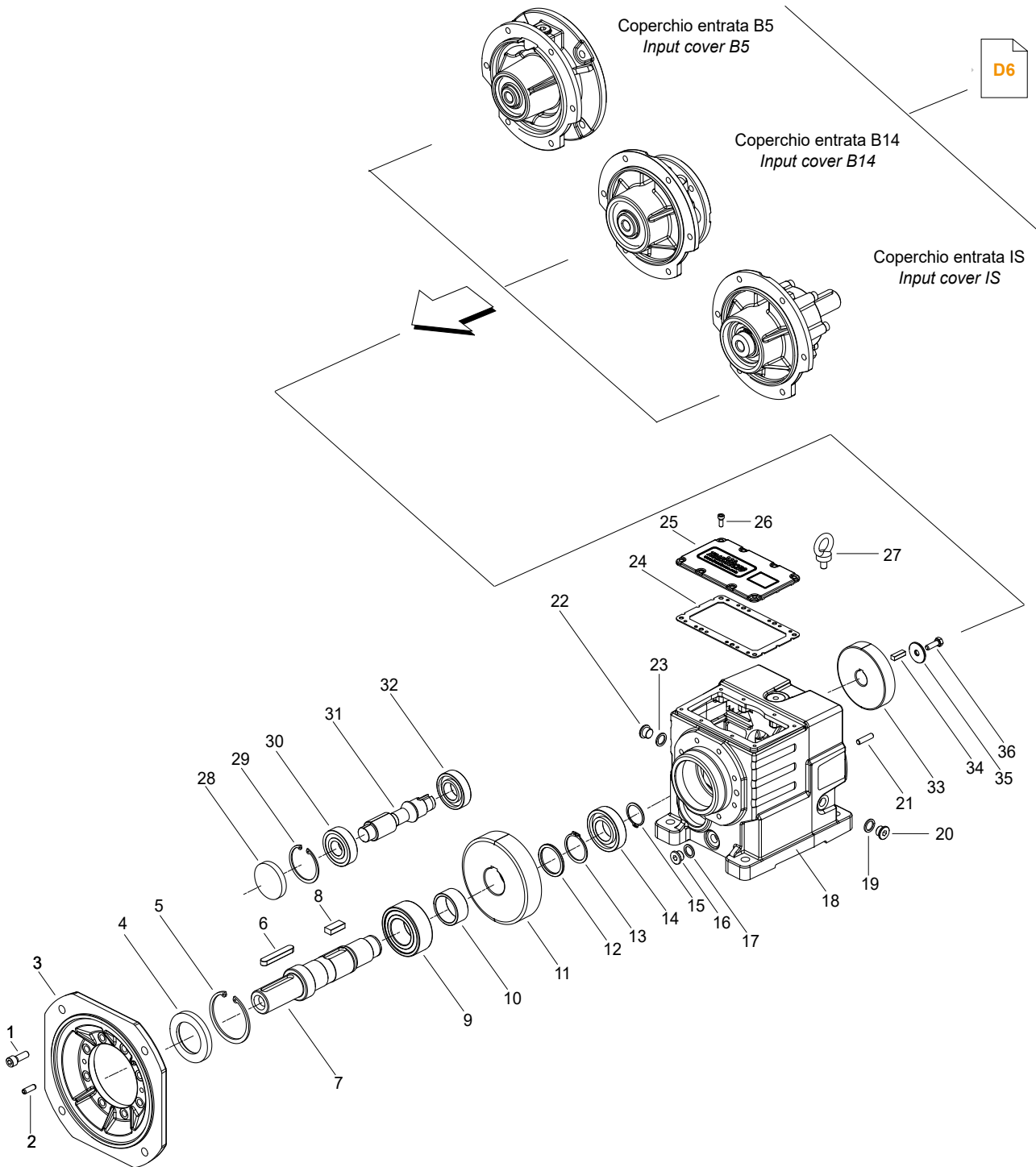
CMG	Anelli di tenuta / Oil seals		
	1	30	37
002	22/40/7	20/37/7	—
012	30/52/7	25/47/7	35/52/7
022	35/52/7	25/47/7	35/52/7
032	40/72/7	30/52/7	40/60/7
042	45/72/7	30/52/7	40/60/7

**CMG..3**



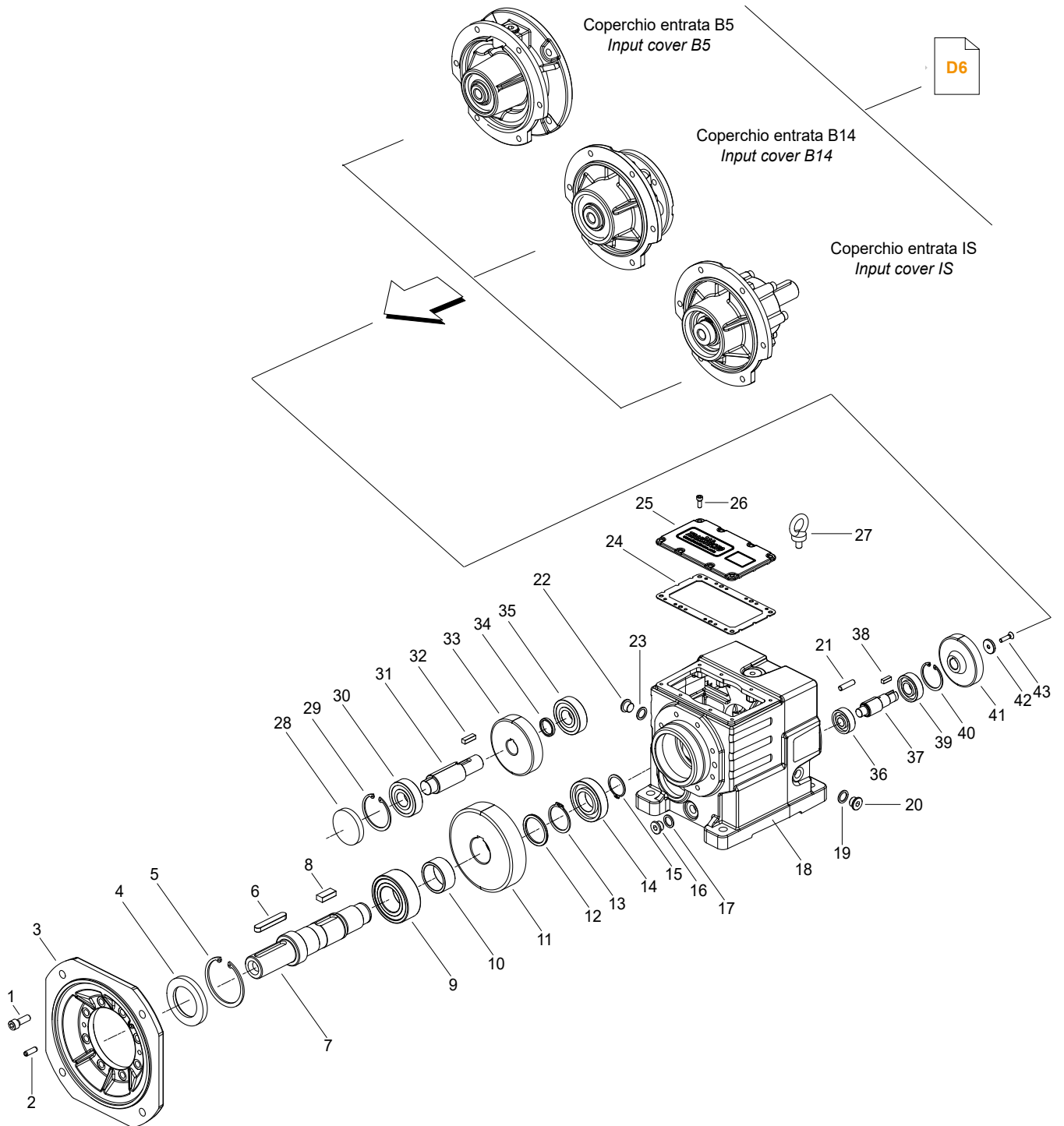
CMG	Anelli di tenuta / Oil seals		
	1	30	37
013	30/52/7	25/47/7	35/52/7
023	35/52/7	25/47/7	35/52/7
033	40/72/7	30/52/7	40/60/7
043	45/72/7	30/52/7	40/60/7

ITH..2



ITH	Anelli di tenuta / Oil seals	
	4	28
112	45/80/10	52x10
122	55/85/10	62x10
132	65/100/10	72x10
142	75/120/10	80x10

ITH..3

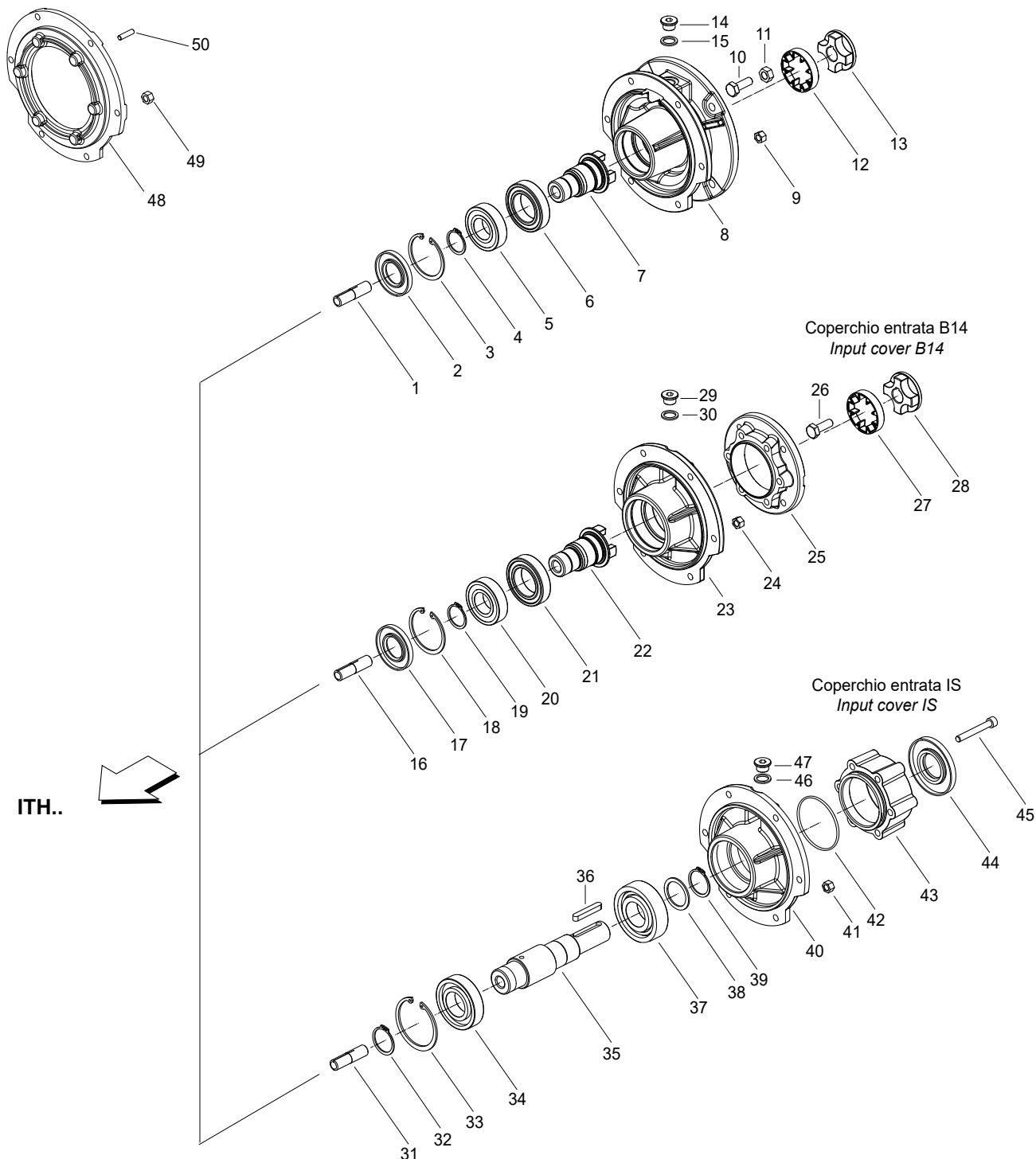


ITH	Anelli di tenuta / Oil seals	
	4	28
113	45/80/10	52x10
123	55/85/10	62x10
133	65/100/10	72x10
143	75/120/10	80x10

**COPERCHIO ENTRATA - INPUT COVER**

Adattatore entrata...  
Input adapter...

Coperchio entrata B5  
Input cover B5



ITH..

IEC B5	Anelli di tenuta / Oil seals
	<b>2</b>
<b>71</b>	30/62/7
<b>80/90</b>	30/62/7
<b>100/112</b>	35/72/7
<b>132</b>	40/80/10
<b>160/180</b>	50/110/12
<b>200</b>	60/130/12

IEC B14	Anelli di tenuta / Oil seals
	<b>17</b>
<b>90</b>	35/72/7
<b>100/112</b>	35/72/7
<b>132</b>	40/80/10

IS	Anelli di tenuta / Oil seals
	<b>44</b>
<b>24</b>	35/80/8
<b>28</b>	35/80/8
<b>38</b>	45/100/10



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