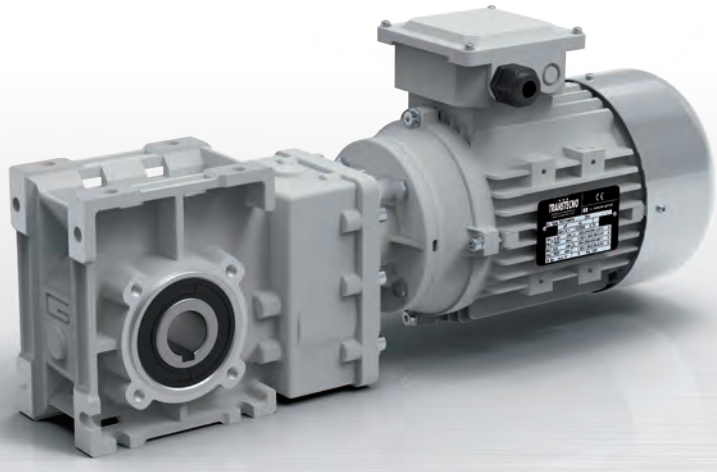
TRANSTECNO®

the modular gearmotor

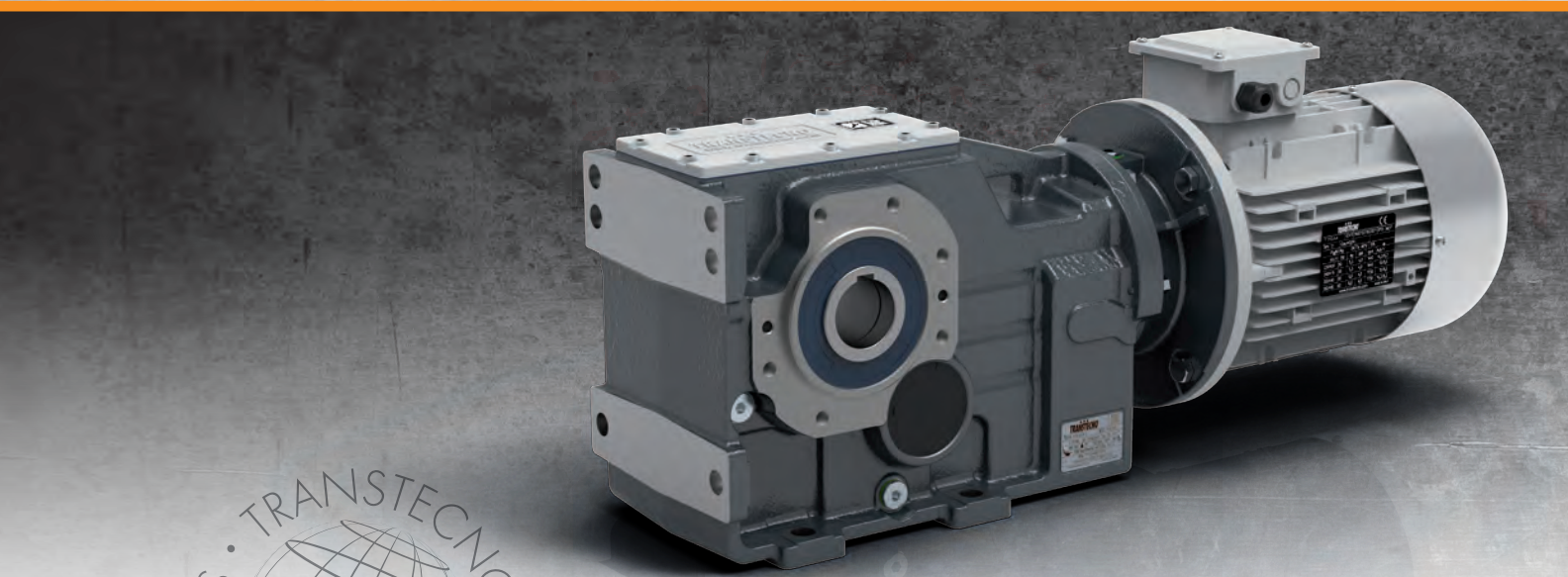
CMB Alu

ITB Iron



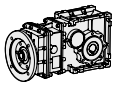
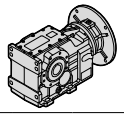
Motoriduttori ad assi ortogonali

Helical bevel gearmotors



TRANSTECNO · GENUINE · PRODUCTS ·

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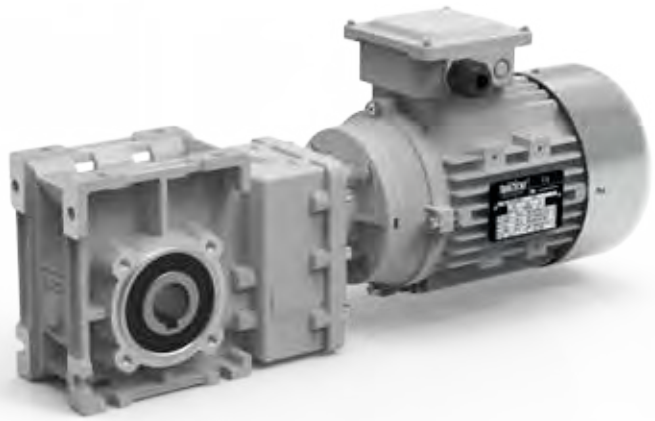
Questo catalogo annulla e sostituisce ogni precedente edizione o revisione. Ci riserviamo inoltre il diritto di apportare modifiche senza preavviso.

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

Motoriduttori ad assi ortogonali CMB - ITB

Helical bevel gearmotors CMB - ITB

ENERGY SAVING



CMB

Grandezza *Sizes*	Coppia nominale in uscita *Nominal output torque* Mn_2 [Nm]	Pag. *Page*
CMB402	65	B12
CMB502	125	B13
CMB633	250	B14
CMB903	500	B15

ENERGY SAVING



ITB

Grandezza *Sizes*	Coppia nominale in uscita *Nominal output torque* Mn_2 [Nm]	Pag. *Page*
ITB423	950	C16
ITB433	1800	C18
ITB443	3500	C20

Indice	*Index*	Pag. *Page*
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Scelta dei motoriduttori	*Selecting the gearmotors*	**A5**
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Posizioni di montaggio	*Mounting positions*	**A7**
Giunto elastico	*Flexible coupling*	**A8**
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Applicazioni critiche	*Critical applications*	**A10**

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

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Generalità — *General information*

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.

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

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

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

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

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

When different speeds are required, contact our Technical Service.

Rapporto di riduzione — i — *Gear ratio*

E' una grandezza adimensionale ed è in funzione del numero dei denti degli ingranaggi interni al riduttore.
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^{-1}] — *Output speed*

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

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

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

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

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

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

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

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

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

$$Mn_2 = M_2 \cdot sf$$

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

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

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

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

oppure: *or:*

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

dove: *where:*

$$P_2 = P_1 \cdot Rd$$

Rendimento — Rd — *Efficiency*

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

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

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

On helical gearboxes the average efficency is 94%.

Potenza in entrata — P_1 [kW] — *Input power*

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

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

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

Fattore di servizio — sf — *Service factor*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Esempio applicazione:

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

Application example:

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

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

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

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

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

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

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

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

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

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

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

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

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

$$A_2 = R_2 \cdot 0.2$$

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

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

Scelta dei motoriduttori — *Selecting the gearmotors*

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

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 giornaliere e al numero di avviamenti orari.

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:

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

Motoriduttore
Gearmotor

dove Rd è il rendimento dinamico e n_2 il numero di giri richiesti in uscita al motoriduttore.

To select the required gearmotor, perform the procedure below:

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. *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:*

where Rd stands for the dynamic efficiency and n_2 indicates the required output rpm of the gearmotor .

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

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

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC	R_2 [N]
0.75							
80B4	**191**	35	14	7.34	**ITB423**	**B5**	10973
(1400 min^{-1})	**153**	44	11	9.16		**B5**	12364
	118	57	11	11.85		**B5**	14197
	90	75	8.0	15.64		**B5**	16455

Esempio / *Example:*

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

P : 0.75 kW
sf : 14
n_2 : 191 rpm

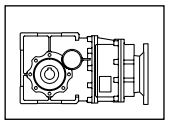
Motorizzazione scelta / *Power unit selected:*

ITB423 i = 7.34, P_1 = 0.75 kW, sf = 14

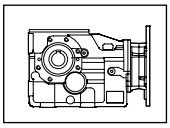
Lubrificazione / *Lubrication*

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

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



CMB



ITB

SHELL	AGIP	ESSO	MOBIL	CASTROL	BP
Tivela Oil SC320	Telium VSF320	S320	Glygoyle 30	Alphasyn PG320	Energol SG-XP 320

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

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

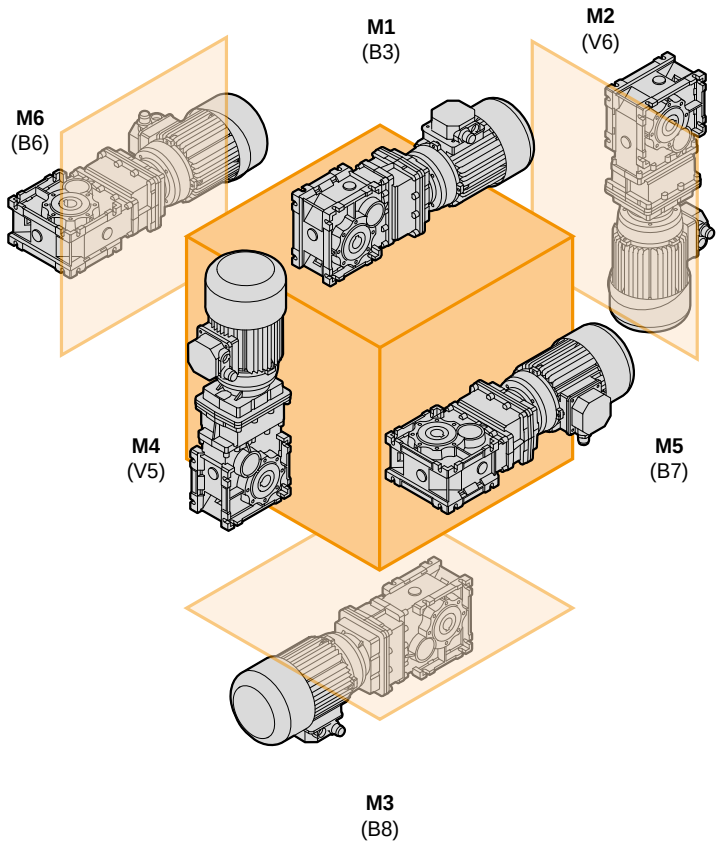
In fase di ordine è necessario specificare sempre la posizione di montaggio desiderata.

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

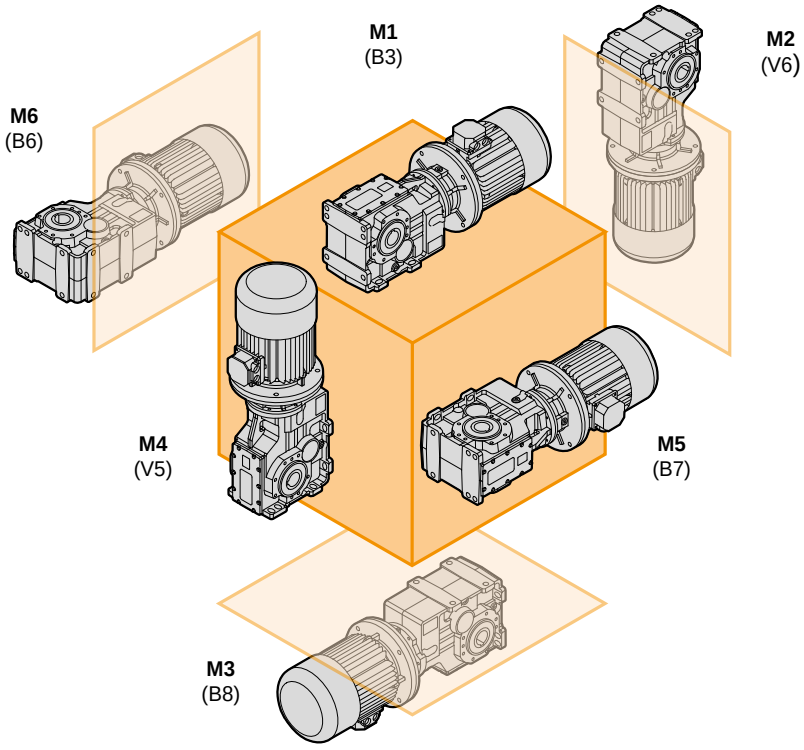
Posizioni di montaggio

Mounting positions

CMB

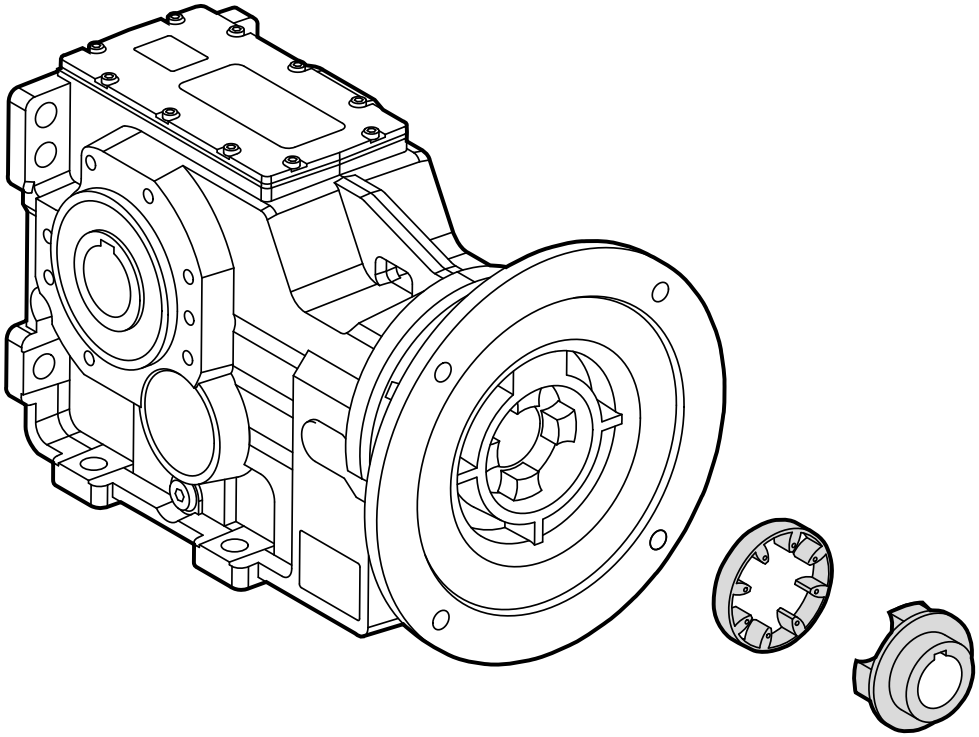


ITB



Giunto elastico

Flexible coupling



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;

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*

CMB	-35°C / +50°C
ITB	-25°C / +50°C

Campi di temperatura speciali / *Special temperature range*

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

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

Installation and inspection

In fase di installazione del riduttore è opportuno verificare che:

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

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

Critical applications

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°C o >+50°C

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°C or >+50°C*

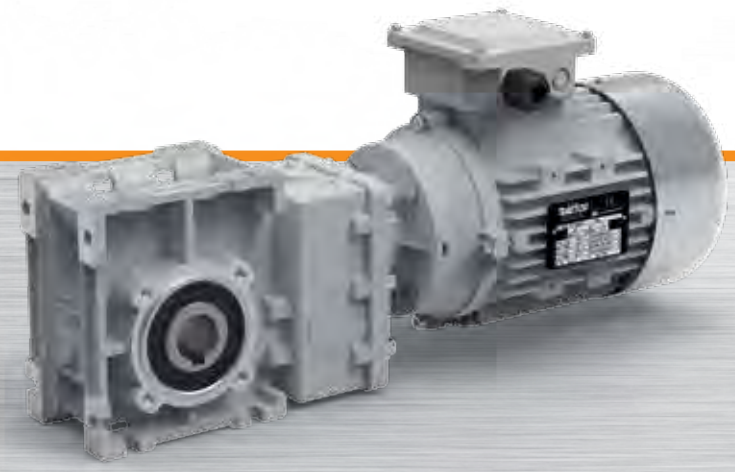
TRANSTECNO®
the modular gearmotor

CMB

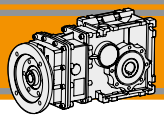
CMB Alù

CMB

Motoriduttori ad assi ortogonali
Helical bevel gearmotors



TRANSTECNO · GENUINE · PRODUCTS ·



ENERGY SAVING

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Sensi di rotazione	*Direction of rotation*	**B3**
Simbologia	*Symbols*	**B3**
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Caratteristiche tecniche

Technical features

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

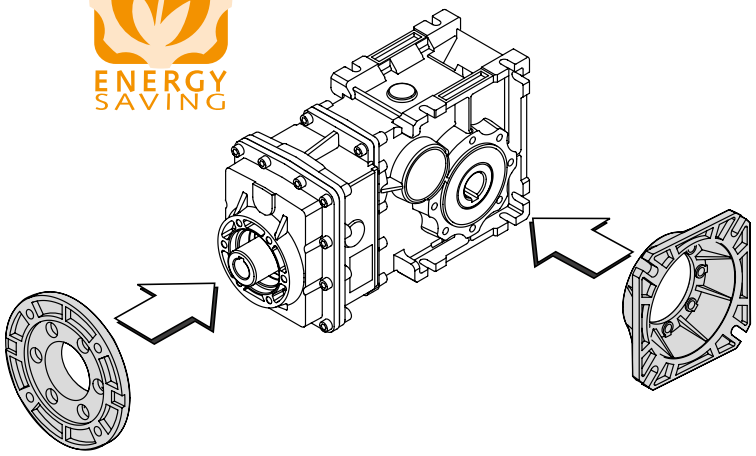
Caratteristiche comuni a tutta la serie:
- Carcassa in alluminio.
- Ingranaggi sempre rettificati.
- Lubrificazione permanente con olio sintetico.

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

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

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

ENERGY SAVING



Designazione

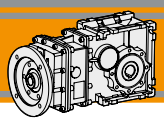
Classification

RIDUTTORE / *GEARBOX*

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

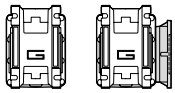
RIDUTTORE / *GEARBOX*

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



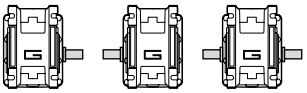
Designazione — *Classification*

Versione Riduttore *Gearbox Version*



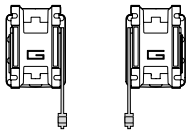
U — FD, FLD, FBD — FS, FLS, FBS

Albero di uscita *Output shaft*



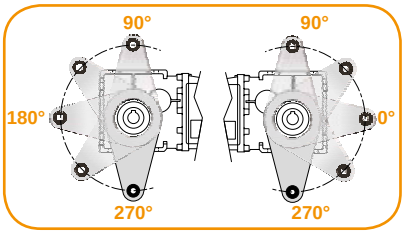
SZDX — SZSX — DZ

Braccio di reazione *Torque arm*



BRDX — BRSX

Angolo *Angle*

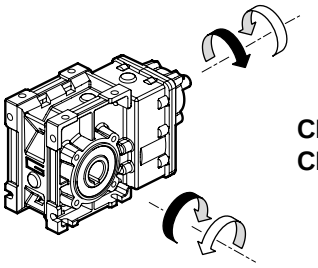


MOTORE / *MOTOR*

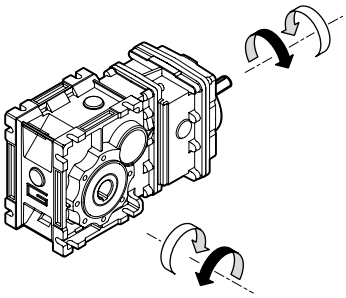
1.5kW	4p	3ph	230/400V	50Hz	T1
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*
vedi tabelle *see tables*	**2p** **4p** **6p** **8p**	**1ph** **3ph**	**230V** **230/400V**	**50Hz** **60Hz**	**T1** (Std) **T4** **T2** **T3**

Sensi di rotazione — *Direction of rotation*

CMB...2
CMBIS..2



CMB...3
CMBIS..3



Simbologia — *Symbols*

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

Lubrificazione

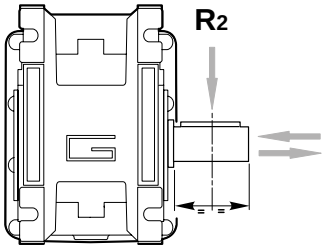
Tutti i motoriduttori CMB sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

Lubrication

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

Carichi radiali

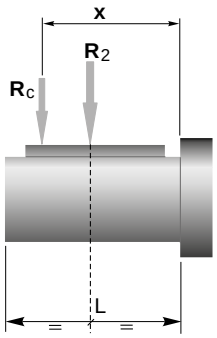
Radial loads



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

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

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

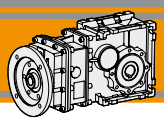


	CMB 402	CMB 502	CMB 633	CMB 903
a	86	104	118	157
b	66	79	93	117
R_{2MAX}	3500	4200	6500	9500

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

$$R \leq R_c$$

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



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

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

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

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

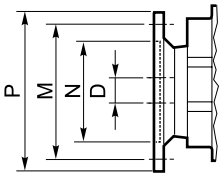
N.B.
Highlighted areas indicate motor inputs available on each size of unit.

*** =** 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. B8 alla pag. B11

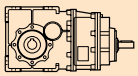
*** =** *The service factor (**sf**) has to be selected depending on application: please contact our Technical Department.*

Before selecting any gearbox, please read the performance values shown in the tables on page B8 to B11.



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

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

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

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

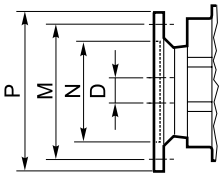
N.B.
Highlighted areas indicate motor inputs available on each size of unit.

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

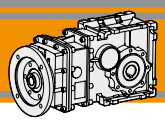
Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B8 alla pag. B11

*** =** *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 B8 to B11.



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



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

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

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

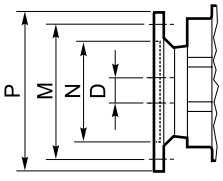
*** =** Il fattore di servizio (**sf**) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B8 alla pag. B11

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 B8 to B11.

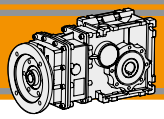


Dimensioni IEC / *IEC Dimensions*							
	71 B5	**80 B5**	**80 B14**	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**
N	110	130	80	130	95	180	110
M	130	165	100	165	115	215	130
P	160	200	120	200	140	250	160
D	14	19		24		28	

Dati tecnici — *Technical data*

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

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



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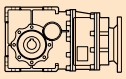
Technical data

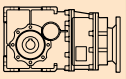
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.25						
71A4 (1400 min^{-1})	**227**	10	4.0	6.18	**CMB402**	**B5/B14**
	187	12	3.3	7.49		**B5/B14**
	152	15	2.7	9.20		**B5/B14**
	118	19	2.4	11.83		**B5/B14**
	112	20	2.2	12.48		**B5/B14**
	94.4	24	1.9	14.83		**B5/B14**
	79.4	28	1.6	17.63		**B5/B14**
	75.3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

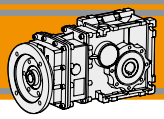
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.37						
71B4 (1400 min^{-1})	**227**	15	2.7	6.18	**CMB402**	**B5/B14**
	187	18	2.3	7.49		**B5/B14**
	152	22	1.8	9.20		**B5/B14**
	118	28	1.6	11.83		**B5/B14**
	112	30	1.5	12.48		**B5/B14**
	94.4	35	1.3	14.83		**B5/B14**
	79.4	42	1.1	17.63		**B5/B14**
	75.3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

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Technical data

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

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



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Technical data

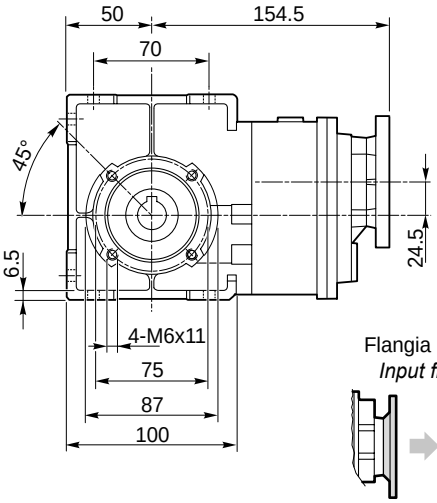
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.1						
90S4 (1400 min^{-1})	**213**	46	3.2	6.58	**CMB633**	**B5/B14**
	175	56	2.7	7.99		**B5/B14**
	143	69	2.2	9.81		**B5/B14**
	134	74	2.0	10.44		**B5/B14**
	112	88	1.7	12.53		**B5/B14**
	105	94	1.6	13.31		**B5/B14**
	88.6	112	1.5	15.81		**B5/B14**
	78.8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

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

Dimensioni *Dimensions*

CMB 402.. - CMBIS 402..

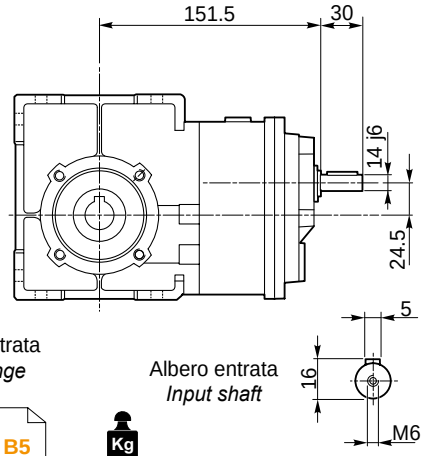
CMB 402 U..



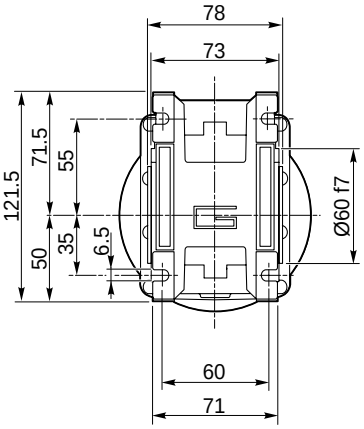
Flangia entrata
Input flange

Kg 3.4 kg

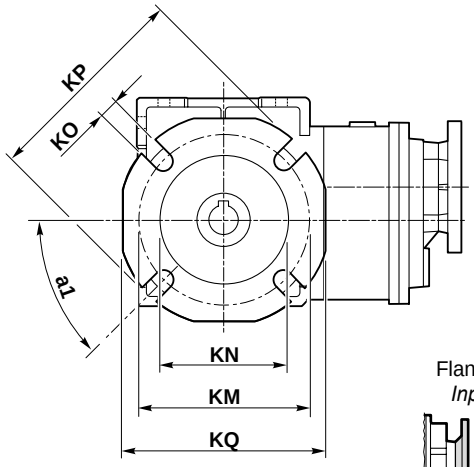
CMBIS 402 U..



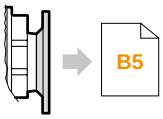
Albero entrata
Input shaft



CMB 402 F..

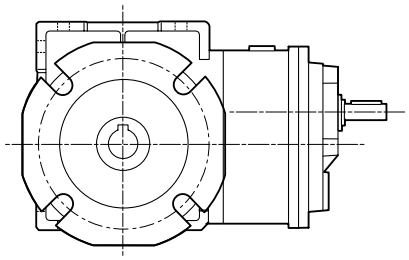


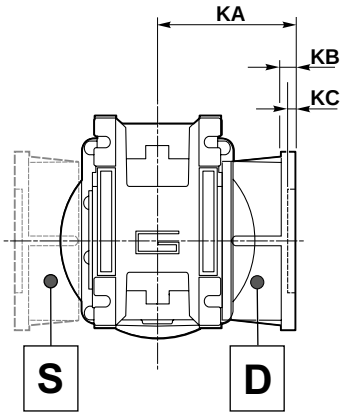
Flangia entrata
Input flange



Kg 3.5 kg

CMBIS 402 F..





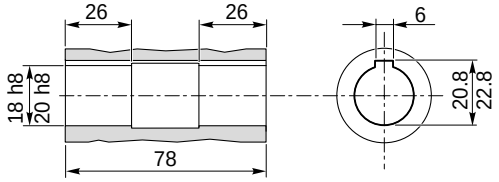
A richiesta
On request

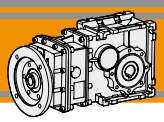
Standard

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

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

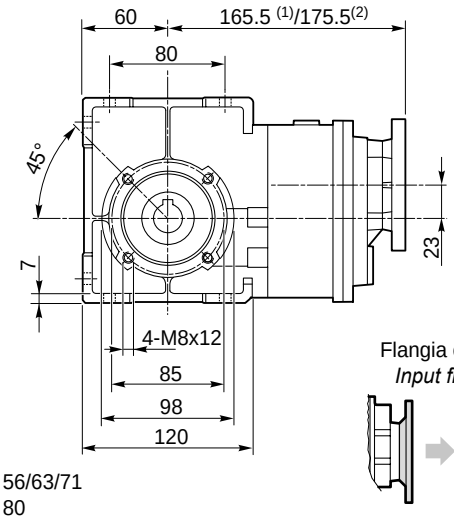
Albero uscita cavo
Hollow output shaft





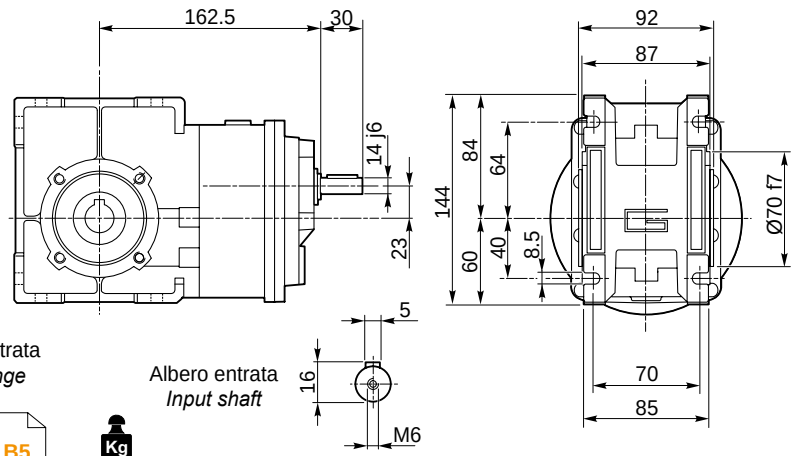
CMB 502.. - CMBIS 502..

CMB 502 U..



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

CMBIS 502 U..

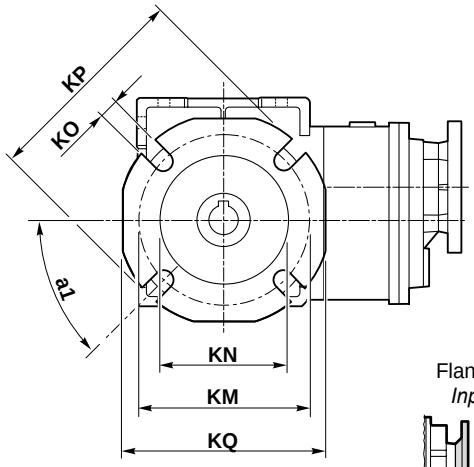


Flangia entrata
Input flange

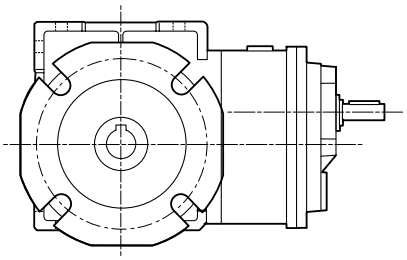
Albero entrata
Input shaft

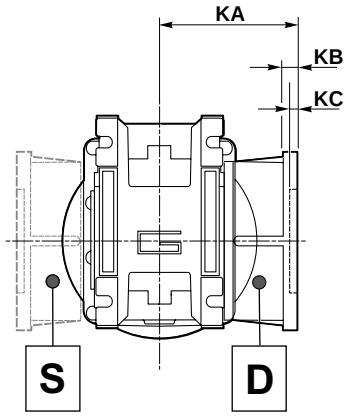
Kg
(1) 4.7 kg
(2) 5.0 kg

CMB 502 F..



CMBIS 502 F..

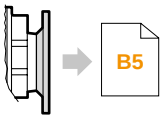




A richiesta
On request

Standard

Flangia entrata
Input flange

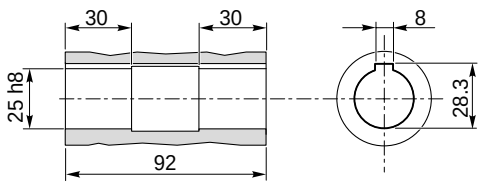


Kg
4.8 kg

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

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

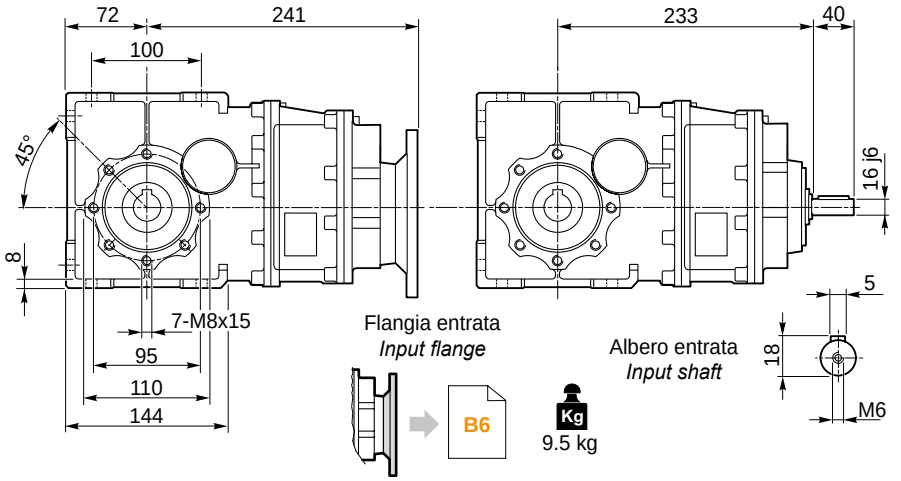
Albero uscita cavo
Hollow output shaft



Dimensioni *Dimensions*

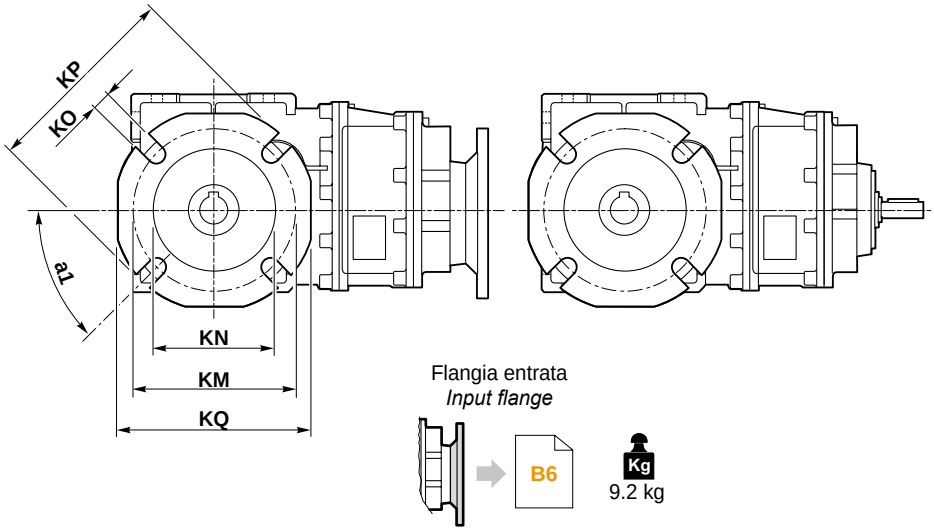
CMB 633.. - CMBIS 633..

CMB 633 U..

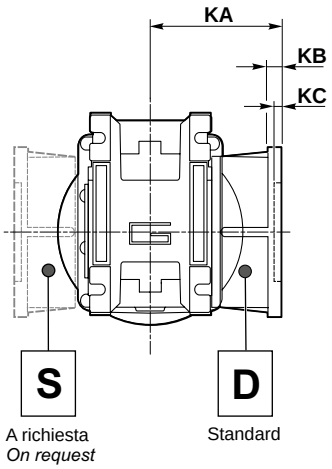


CMBIS 633 U..

CMB 633 F..



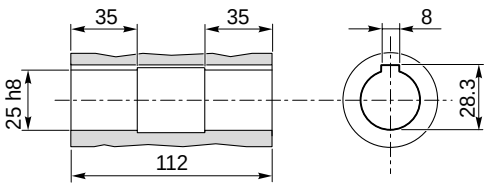
CMBIS 633 F..

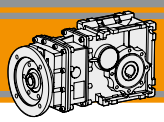


Versione **F** / ***F Version***										
CMB CMBIS	**a_1**	**KA**	**KB**	**KC**	**KM**	**KN** H8	**KO**	**KP**	**KQ**	**Flangia / *Flange*** Tipo / *Type*
633	45°	82	10	6	150-160	115	11	180	142	**F**
	45°	112	10	8	150-160	115	11	180	142	**FL**
	45°	98	11	5	165	130	11	200	160	**FB**

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

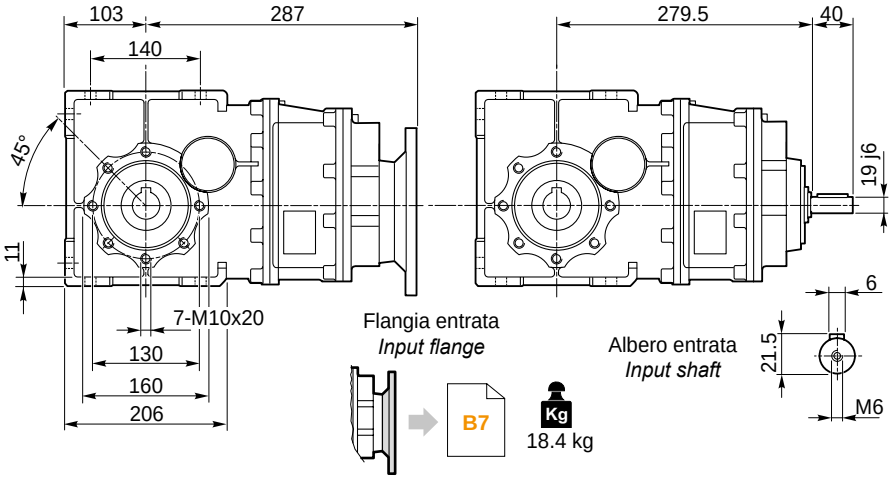
Albero uscita cavo
Hollow output shaft





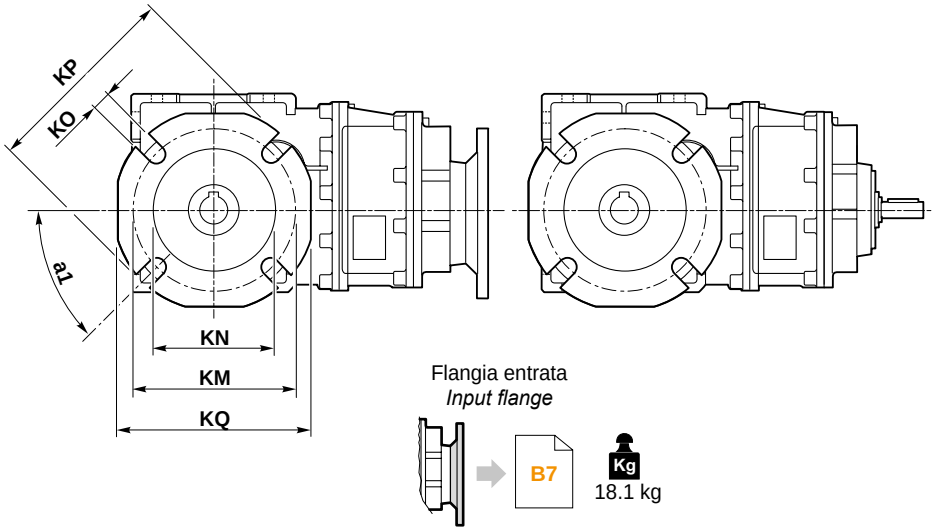
CMB 903.. - CMBIS 903..

CMB 903 U..

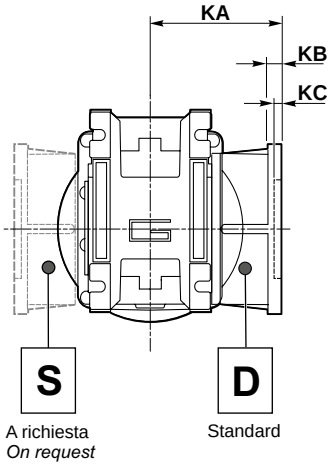


CMBIS 903 U..

CMB 903 F..

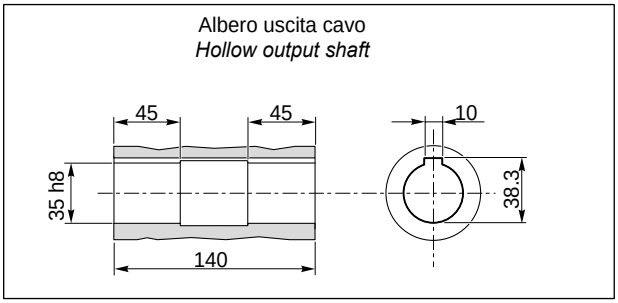


CMBIS 903 F..

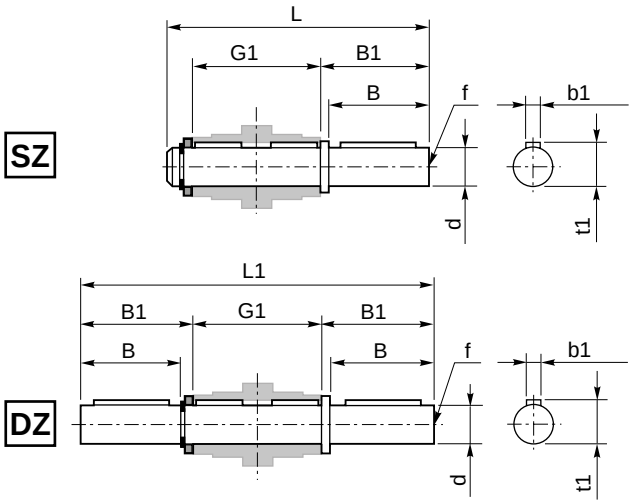


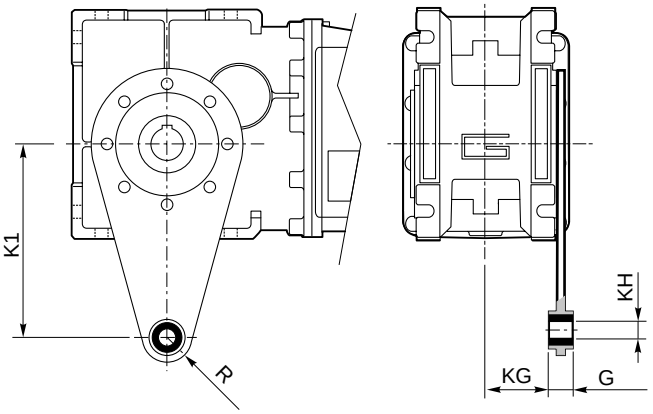
Versione **F** / ***F** Version*										
CMB CMBIS	**a_1**	**KA**	**KB**	**KC**	**KM**	**KN** H8	**KO**	**KP**	**KQ**	**Flangia / *Flange*** Tipo / *Type*
903	45°	111	13	6	175-188	152	14	210	200	**F**

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



Accessori — *Accessories*





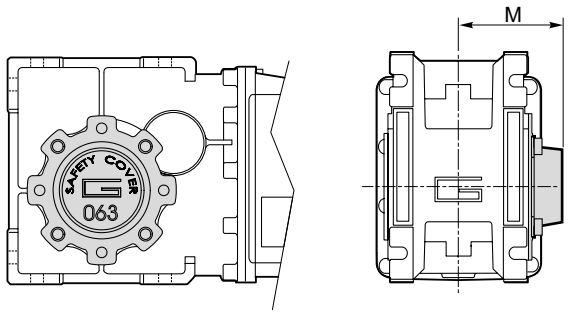
Albero lento / *Output shaft*

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

Braccio di reazione / *Torque arm*

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

SC - *Safety cover*



CMB CMBIS	M
402	54.5
502	62.5
633	73
903	94

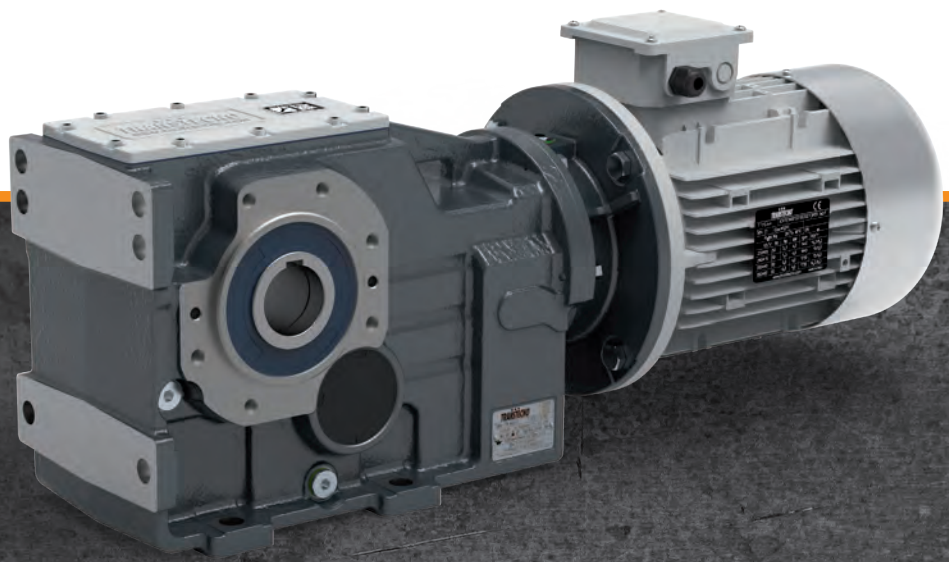
TRANSTECNO®
the modular gearmotor

ITB

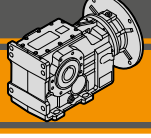
ITB

ITB Iron

Motoriduttori ad assi ortogonali
Helical bevel gearmotors



TRANSTECNO · GENUINE · PRODUCTS ·



ENERGY SAVING

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Caratteristiche tecniche

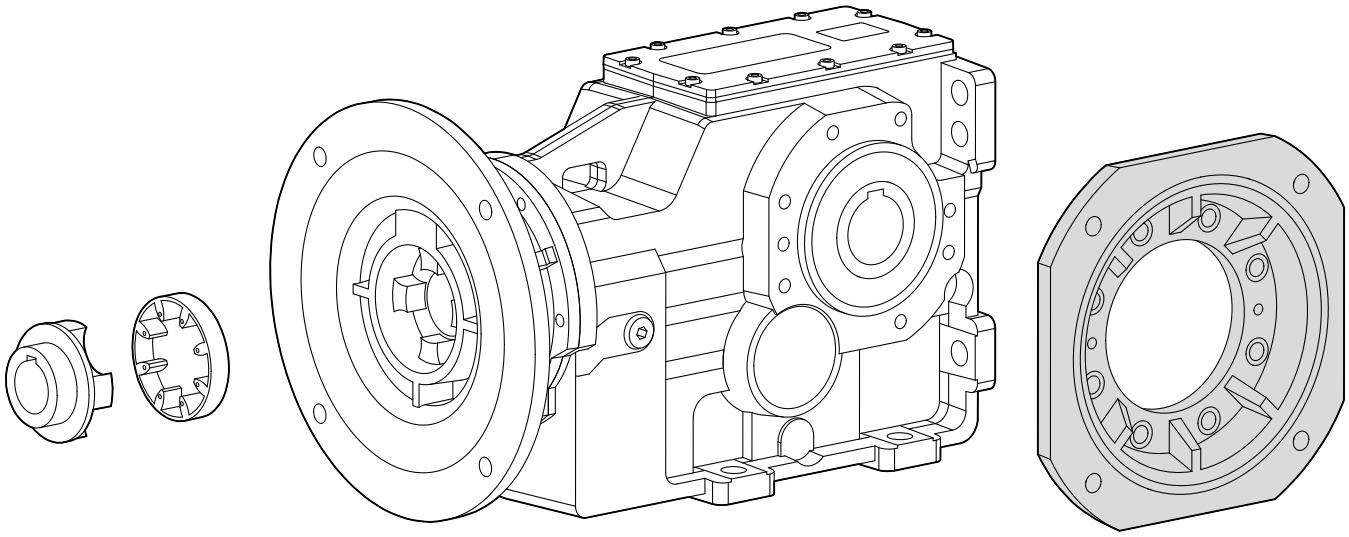
I motoriduttori della serie ITB sono dedicati ad applicazioni industriali che presentano carichi particolarmente gravosi. La costruzione robusta con carcassa in ghisa e l'elevata modularità dei diversi kit di entrata e di uscita li rendono adatti ad ogni tipo di applicazione.

Caratteristiche comuni a tutta la serie sono:
- Costruzione robusta con carcassa in ghisa
- Elevata modularità
- Lubrificazione con olio sintetico
- Accoppiamento al motore tramite giunto elastico

Technical features

The ITB gearmotors are for industrial applications with particularly heavy loads. Their robust cast iron housings and highly modular different input and output kits mean they are suited to all types of application.

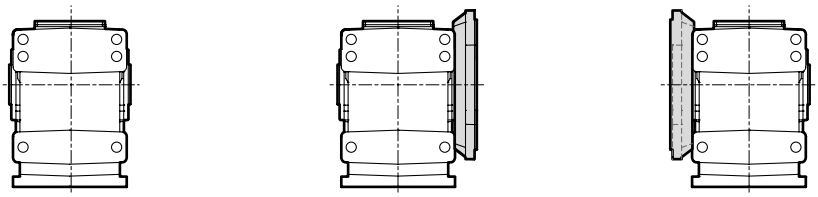
The main features of ITB range are:
- *Robust cast iron housings*
- *High degree of modularity*
- *Lubrication with synthetic oil*
- *Coupled to motor with flexible coupling*



Versioni

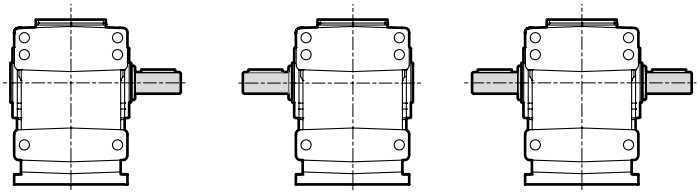
Versions

Versione Riduttore
Gearbox Version



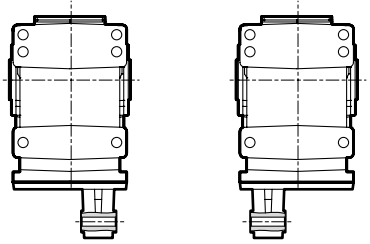
U F... D F... S

Albero di uscita
Output shaft

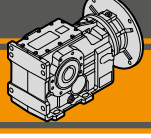


SZDX SZSX DZ

Braccio di reazione
Torque arm

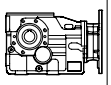


BRDX BRSX

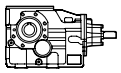


Designazione — *Classification*

RIDUTTORE / *GEARBOX*

ITB	42	3	U	20.12	D40	132	B5	SZDX	BRSX	M1	CW
Tipo *Type*	Grandezza *Size*	Stadi *Stages*	Versione *Version*	Rapporto *Ratio*	Albero uscita *Output shaft*	IEC	Forma costruttiva *Version*	Albero di uscita *Output shaft*	Braccio di reaz. *Torque arm*	Pos. di montaggio *Mounting position*	Dispositivo antiretro *Backstop device*
ITB 	**42** **43** **44**	**3**	**U** **F…D** **F…S**	vedi tabelle *see tables*	vedi tabelle *see tables*	**80..** **—** **180..**	**B5** **B14**	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX**	**M1 (B3)** **M2 (V6)** **M3 (B8)** **M4 (V5)** **M5 (B7)** **M6 (B6)**	**CW** **CCW**

RIDUTTORE / *GEARBOX*

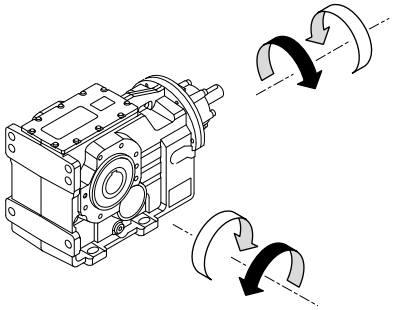
ITBIS	42	3	U	20.12	D40	SZDX	BRSX	M1
Tipo *Type*	Grandezza *Size*	Stadi *Stages*	Versione *Version*	Rapporto *Ratio*	Albero uscita *Output shaft*	Albero di uscita *Output shaft*	Braccio di reaz. *Torque arm*	Pos. di montaggio *Mounting position*
ITBIS 	**42** **43** **44**	**3**	**U** **F…D** **F…S**	vedi tabelle *see tables*	vedi tabelle *see tables*	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX**	**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. 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*

ITB...3



Rotazione inversa disponibile a richiesta.
Inverse rotation on request

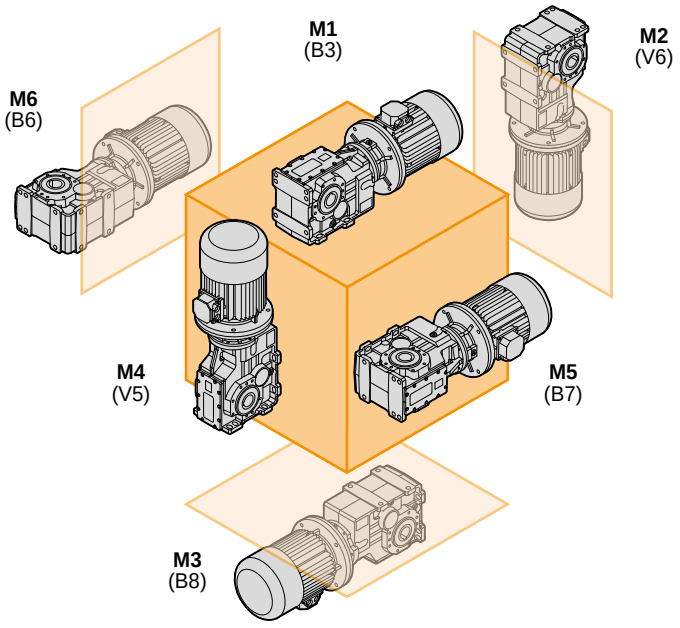
Simbologia — *Symbols*

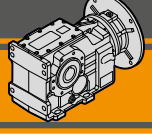
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*
i		Rapporto di riduzione / *Ratio*
P_1	[kW]	Potenza in entrata / *Input power*
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / *Output torque referred to* P_1
Pn_1	[kW]	Potenza nominale in entrata / *Nominal input power*
Mn_2	[Nm]	Coppia nominale in uscita in funzione di Pn_1 / *Nominal output torque referred to* Pn_1
sf		Fattore di servizio / *Service factor*
R_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 — *Lubrication*

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

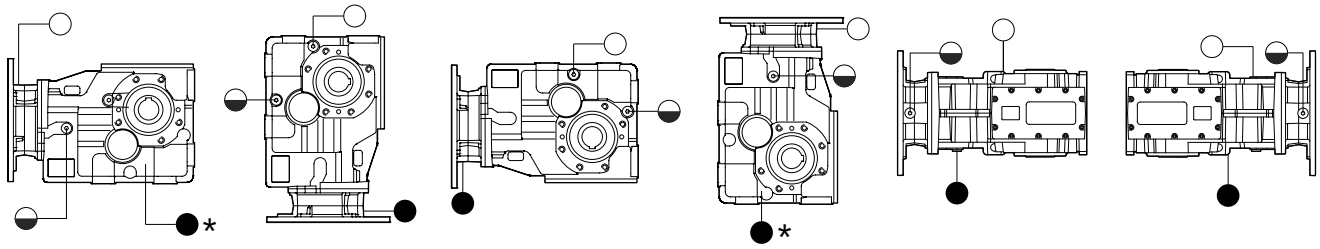
ITB series gearmotors come complete with synthetic lubricant 320 viscosity. The lubricant quantity depends on assembly position.





ITB	Quantità di olio (litri) / *Oil quantity (litres)*					
	M1 (B3)	**M2** (V6)	**M3** (B8)	**M4** (V5)	**M5** (B7)	**M6** (B6)
423	2.1	3.1	3.0	3.9	2.3	3.2
433	4.3	5.1	4.9	7.2	4.0	5.3
443	6.5	8.9	9.0	12.2	6.7	8.8

ITBIS	Quantità di olio (litri) / *Oil quantity (litres)*					
	M1 (B3)	**M2** (V6)	**M3** (B8)	**M4** (V5)	**M5** (B7)	**M6** (B6)
423	2.3	3.5	3.2	3.9	2.5	3.4
433	4.5	5.5	5.1	7.2	4.2	5.5
443	6.9	9.6	9.4	12.2	7.1	9.2



M1 (B3) **M2 (V6)** **M3 (B8)** **M4 (V5)** **M5 (B7)** **M6 (B6)**

* Tappo di scarico in posizione posteriore

* *Oil draing plug in backside position.*

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

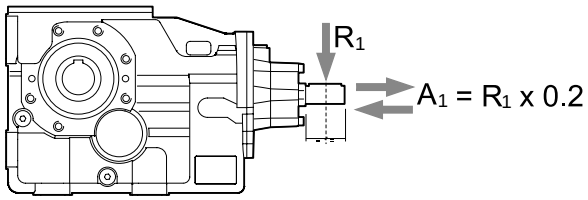
Carichi radiali in entrata — *Input radial loads*

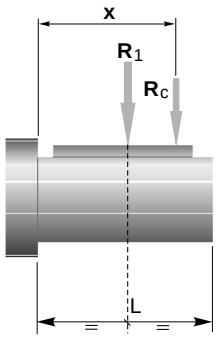
ITB423 ITB433	n_1 [min^{-1}]	Potenza motore/ *Motor Power [kW]*			
		2.2	3.0	4.0	5.5
R1 [N]	1400	1800			750
	900	2100		1200	-
	500	2500	-	-	-

ITB443	n_1 [min^{-1}]	Potenza motore/ *Motor Power [kW]*					
		5.5	7.5	9.2	11.0	15.0	18.5
R1 [N]	1400	3700				2800	1200
	900	4900			3300	650	-
	500	5250	3900	1300	-	-	-

I carichi radiali entrata 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 input 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:





	ITB 423	ITB 433	ITB 443
a	139		157
b	110		118

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

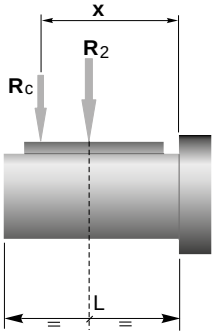
$$R \leq R_c$$

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

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:

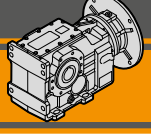


	ITB 423	ITB 433	ITB 443
a	182	218	252
b	142	168	192
R_{2MAX}	18500	23000	31000

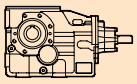
$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

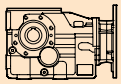
a, b = valori riportati nella tabella
a, b = values given in the table



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



n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	R_2 [N]
ITBIS 423				
191	500	10.62	7.34	9609
153	500	8.51	9.16	10851
118	600	7.90	11.85	12122
90	600	5.98	15.64	14119
76	700	5.96	18.32	14920
70	700	5.43	20.12	15708
61	800	5.46	22.85	16301
50	800	4.42	28.22	18306
47	850	4.48	29.57	18500
45	850	4.29	30.90	18500
41	850	3.83	34.57	18500
37	850	3.49	37.99	18500
36	900	3.60	39.01	18500
34	900	3.37	41.70	18500
29	900	2.86	49.13	18500
28	900	2.80	50.19	18500
26	900	2.61	53.77	18500
24	900	2.37	59.26	18500
20	900	1.99	70.40	18500
18	950	1.92	77.08	18500
16	950	1.72	86.24	18500
15	950	1.56	94.77	18500
14	950	1.42	104.04	18500
11	950	1.21	122.57	18500
10	950	1.10	134.15	18500
9.5	950	1.00	147.84	18500



IEC Motori applicabili / ***IEC Motor adapters***

80B5	90B5/B14	100B5/B14	112B5/B14	132B5
ITB 423				
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		*	*	

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

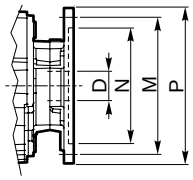
N.B.
Highlighted areas indicate motor inputs available on each size of unit.

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

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. C10 alla pag. C15.

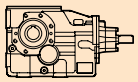
*** =** *The service factor (**sf**) has to be selected depending on application: please contact our Technical Department.*

Before selecting any gearbox, please read the performance values shown in the tables on page C10 to C15.

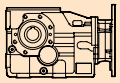


Dimensioni IEC / *IEC Dimensions*						
	80 B5	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**	**132 B5**
N	130	130	95	180	110	230
M	165	165	115	215	130	265
P	200	200	140	250	160	300
D	19	24		28		38

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



n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	R_2 [N]
ITBIS 433				
171	1000	18.99	8.21	12339
137	1000	15.22	10.25	13935
106	1300	15.30	13.25	15144
80	1400	12.48	17.49	17285
69	1600	12.21	20.44	18060
62	1700	11.78	22.50	18635
55	1700	10.40	25.49	19960
44	1700	8.40	31.56	22448
43	1700	8.04	32.98	23000
41	1700	7.67	34.55	23000
36	1700	6.86	38.66	23000
33	1700	6.24	42.48	23000
32	1800	6.45	43.51	23000
30	1800	6.02	46.64	23000
25	1800	5.01	55.98	23000
23	1600	4.15	60.14	23000
21	1600	3.77	66.27	23000
18	1800	3.58	78.52	23000
16	1800	3.27	85.97	23000
15	1800	2.92	96.19	23000
13	1800	2.66	105.70	23000
12	1800	2.42	116.04	23000
10	1800	2.05	136.71	23000
9.4	1800	1.88	149.63	23000
8.5	1800	1.70	164.89	23000



IEC Motori applicabili
IEC Motor adapters

80B5	90B5/B14	100B5/B14	112B5/B14	132B5	160B5
ITB 433					
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N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.

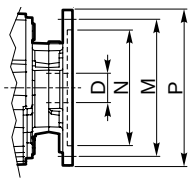
N.B.
Highlighted areas indicate motor inputs available on each size of unit.

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

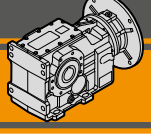
Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. C10 alla pag. C15.

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

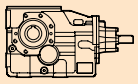
Before selecting any gearbox, please read the performance values shown in the tables on page C10 to C15.



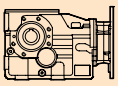
Dimensioni IEC / *IEC Dimensions*							
	80 B5	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**	**132 B5**	**160 B5**
N	130	130	95	180	110	230	250
M	165	165	115	215	130	265	300
P	200	200	140	250	160	300	350
D	19	24		28		38	42



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



n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i	R_2 [N]
ITBIS 443				
178	1700	33.65	7.88	17306
147	1700	27.81	9.53	19220
119	1800	23.89	11.75	21325
99	2000	22.07	14.13	23076
81	2300	20.82	17.23	24849
61	2800	18.86	23.16	27511
56	3000	18.85	24.82	27861
47	3000	15.58	30.03	31000
38	3000	12.64	37.01	31000
36	2800	11.06	39.46	31000
32	3200	11.21	44.51	31000
29	2800	9.16	47.67	31000
26	3200	9.20	54.26	31000
19	3500	7.48	72.94	31000
15	3500	5.92	92.14	31000
11	3500	4.39	124.32	31000
10	3500	4.03	135.45	31000
9.3	3500	3.64	150.15	31000
8.5	3500	3.33	163.80	31000
7.8	3500	3.05	179.16	31000



IEC Motori applicabili
IEC Motor adapters

80B5	90B5/B14	100B5/B14	112B5/B14	132B5	160B5	180B5
ITB 443						
*	*	*	*			
*	*	*	*			
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N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.

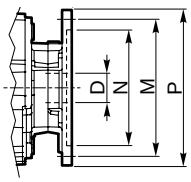
N.B.
Highlighted areas indicate motor inputs available on each size of unit.

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

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. C10 alla pag. C15.

*** =** *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 C10 to C15.

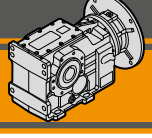


Dimensioni IEC / *IEC Dimensions*								
	80 B5	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**	**132 B5**	**160 B5**	**180 B5**
N	130	130	95	180	110	230	250	250
M	165	165	115	215	130	265	300	300
P	200	200	140	250	160	300	350	350
D	19	24		28		38	42	48

Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC	R_2 [N]
0.55							
80A4 (1400 min^{-1})	**191**	26	19	7.34	**ITB423**	**B5**	11001
	153	32	15	9.16		**B5**	12403
	118	42	14	11.85		**B5**	14255
	90	55	11	15.64		**B5**	16545
	76	65	11	18.32		**B5**	18005
	70	71	9.9	20.12		**B5**	18500
	61	81	9.9	22.85		**B5**	18500
	50	100	8.0	28.22		**B5**	18500
	47	104	8.2	29.57		**B5**	18500
	45	109	7.8	30.90		**B5**	18500
	40	122	7.0	34.57		**B5**	18500
	37	134	6.3	37.99		**B5**	18500
	36	138	6.5	39.01		**B5**	18500
	34	147	6.1	41.70		**B5**	18500
	29	173	5.2	49.13		**B5**	18500
	28	177	5.1	50.19		**B5**	18500
	26	190	4.7	53.77		**B5**	18500
	24	209	4.3	59.26		**B5**	18500
	20	248	3.6	70.40		**B5**	18500
	18	272	3.5	77.08		**B5**	18500
	16	304	3.1	86.24		**B5**	18500
	15	334	2.8	94.77		**B5**	18500
	13	367	2.6	104.04		**B5**	18500
	11	432	2.2	122.57		**B5**	18500
	10	473	2.0	134.15		**B5**	18500
	9.5	521	1.8	147.84		**B5**	18500
	25	197	9.1	55.98	**ITB433**	**B5**	23000
	23	212	7.5	60.14		**B5**	23000
	21	234	6.8	66.27		**B5**	23000
	18	277	6.5	78.52		**B5**	23000
	16	303	5.9	85.97		**B5**	23000
	15	339	5.3	96.19		**B5**	23000
	13	373	4.8	105.70		**B5**	23000
	12	409	4.4	116.04		**B5**	23000
	10	482	3.7	136.71		**B5**	23000
	9.4	528	3.4	149.63		**B5**	23000
	8.5	582	3.1	164.89		**B5**	23000
	11	438	8.0	124.32	**ITB443**	**B5**	31000
	10	478	7.3	135.45		**B5**	31000
	9.3	530	6.6	150.15		**B5**	31000
	8.5	578	6.1	163.80		**B5**	31000
	7.8	632	5.5	179.16		**B5**	31000

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC	R_2 [N]
0.75							
80B4 (1400 min^{-1})	**191**	35	14	7.34	**ITB423**	**B5**	10973
	153	44	11	9.16		**B5**	12364
	118	57	11	11.85		**B5**	14197
	90	75	8.0	15.64		**B5**	16455
	76	88	7.9	18.32		**B5**	17891
	70	97	7.2	20.12		**B5**	18500
	61	110	7.3	22.85		**B5**	18500
	50	136	5.9	28.22		**B5**	18500
	47	142	6.0	29.57		**B5**	18500
	45	149	5.7	30.90		**B5**	18500
	40	166	5.1	34.57		**B5**	18500
	37	183	4.7	37.99		**B5**	18500
	36	188	4.8	39.01		**B5**	18500
	34	201	4.5	41.70		**B5**	18500
	29	236	3.8	49.13		**B5**	18500
	28	241	3.7	50.19		**B5**	18500
	26	259	3.5	53.77		**B5**	18500
	24	285	3.2	59.26		**B5**	18500
	20	339	2.7	70.40		**B5**	18500
	18	371	2.6	77.08		**B5**	18500
	16	415	2.3	86.24		**B5**	18500
	15	456	2.1	94.77		**B5**	18500
	13	500	1.9	104.04		**B5**	18500
	11	589	1.6	122.57		**B5**	18500
	10	645	1.5	134.15		**B5**	18500
	9.5	711	1.3	147.84		**B5**	18500
	41	166	10	34.55	**ITB433**	**B5**	23000
	36	186	9.1	38.66		**B5**	23000
	33	204	8.3	42.48		**B5**	23000
	32	209	8.6	43.51		**B5**	23000
	30	224	8.0	46.64		**B5**	23000
	25	269	6.7	55.98		**B5**	23000
	23	289	5.5	60.14		**B5**	23000
	21	319	5.0	66.27		**B5**	23000
	18	378	4.8	78.52		**B5**	23000
	16	413	4.4	85.97		**B5**	23000
	15	463	3.9	96.19		**B5**	23000
	13	508	3.5	105.70		**B5**	23000
	12	558	3.2	116.04		**B5**	23000
	10	657	2.7	136.71		**B5**	23000
	9.4	720	2.5	149.63		**B5**	23000
	8.5	793	2.3	164.89		**B5**	23000
	19	351	10	72.94	**ITB443**	**B5**	31000
	15	443	7.9	92.14		**B5**	31000
	11	598	5.9	124.32		**B5**	31000
	10	651	5.4	135.45		**B5**	31000
	9.3	722	4.8	150.15		**B5**	31000
	8.5	788	4.4	163.80		**B5**	31000
	7.8	862	4.1	179.16		**B5**	31000



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Technical data

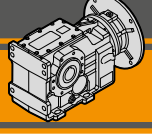
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC	R_2 [N]
1.1							
90S4 (1400 min^{-1})	**191**	52	9.7	7.34	**ITB423**	**B5/B14**	10925
	153	65	7.7	9.16		**B5/B14**	12295
	118	84	7.2	11.85		**B5/B14**	14095
	90	110	5.4	15.64		**B5/B14**	16299
	76	129	5.4	18.32		**B5/B14**	17692
	70	142	4.9	20.12		**B5/B14**	18500
	61	161	5.0	22.85		**B5/B14**	18500
	50	199	4.0	28.22		**B5/B14**	18500
	47	209	4.1	29.57		**B5/B14**	18500
	45	218	3.9	30.90		**B5/B14**	18500
	40	244	3.5	34.57		**B5/B14**	18500
	37	268	3.2	37.99		**B5/B14**	18500
	36	275	3.3	39.01		**B5/B14**	18500
	34	294	3.1	41.70		**B5/B14**	18500
	29	347	2.6	49.13		**B5/B14**	18500
	28	354	2.5	50.19		**B5/B14**	18500
	26	379	2.4	53.77		**B5/B14**	18500
	24	418	2.2	59.26		**B5/B14**	18500
	20	497	1.8	70.40		**B5/B14**	18500
	18	544	1.7	77.08		**B5/B14**	18500
	16	608	1.6	86.24		**B5/B14**	18500
	15	668	1.4	94.77		**B5/B14**	18500
	13	734	1.3	104.04		**B5/B14**	18500
	11	865	1.1	122.57		**B5/B14**	18500
	10	946	1.0	134.15		**B5/B14**	18500
	9.5	1043	0.9	147.84		**B5/B14**	18500
	55	180	9.5	25.49	**ITB433**	**B5/B14**	23000
	44	223	7.6	31.56		**B5/B14**	23000
	42	233	7.3	32.98		**B5/B14**	23000
	41	244	7.0	34.55		**B5/B14**	23000
	36	273	6.2	38.66		**B5/B14**	23000
	33	300	5.7	42.48		**B5/B14**	23000
	32	307	5.9	43.51		**B5/B14**	23000
	30	329	5.5	46.64		**B5/B14**	23000
	25	395	4.6	55.98		**B5/B14**	23000
	23	424	3.8	60.14		**B5/B14**	23000
	21	467	3.4	66.27		**B5/B14**	23000
	18	554	3.3	78.52		**B5/B14**	23000
	16	606	3.0	85.97		**B5/B14**	23000
	15	678	2.7	96.19		**B5/B14**	23000
	13	746	2.4	105.70		**B5/B14**	23000
	12	818	2.2	116.04		**B5/B14**	23000
	10	964	1.9	136.71		**B5/B14**	23000
	9.4	1055	1.7	149.63		**B5/B14**	23000
	8.5	1163	1.5	164.89		**B5/B14**	23000
	35	278	10	39.46	**ITB443**	**B5/B14**	31000
	31	314	10	44.51		**B5/B14**	31000
	29	336	8.3	47.67		**B5/B14**	31000
	26	383	8.4	54.26		**B5/B14**	31000
	19	515	6.8	72.94		**B5/B14**	31000
	15	650	5.4	92.14		**B5/B14**	31000
	11	877	4.0	124.32		**B5/B14**	31000
	10	955	3.7	135.45		**B5/B14**	31000
	9.3	1059	3.3	150.15		**B5/B14**	31000
	8.5	1155	3.0	163.80		**B5/B14**	31000
	7.8	1264	2.8	179.16		**B5/B14**	31000

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC	R_2 [N]
1.5							
90L4 (1400 min^{-1})	**191**	71	7.1	7.34	**ITB423**	**B5/B14**	10870
	153	88	5.7	9.16		**B5/B14**	12218
	118	114	5.3	11.85		**B5/B14**	13979
	90	150	4.0	15.64		**B5/B14**	16120
	76	176	4.0	18.32		**B5/B14**	17463
	70	194	3.6	20.12		**B5/B14**	18298
	61	220	3.6	22.85		**B5/B14**	18500
	50	271	2.9	28.22		**B5/B14**	18500
	47	284	3.0	29.57		**B5/B14**	18500
	45	297	2.9	30.90		**B5/B14**	18500
	40	332	2.6	34.57		**B5/B14**	18500
	37	365	2.3	37.99		**B5/B14**	18500
	36	375	2.4	39.01		**B5/B14**	18500
	34	401	2.2	41.70		**B5/B14**	18500
	29	473	1.9	49.13		**B5/B14**	18500
	28	483	1.9	50.19		**B5/B14**	18500
	26	517	1.7	53.77		**B5/B14**	18500
	24	570	1.6	59.26		**B5/B14**	18500
	20	677	1.3	70.40		**B5/B14**	18500
	18	741	1.3	77.08		**B5/B14**	18500
	16	829	1.1	86.24		**B5/B14**	18500
	15	912	1.0	94.77		**B5/B14**	18500
	13	1001	0.9	104.04		**B5/B14**	18500
	106	127	10	13.25	**ITB433**	**B5/B14**	18711
	80	168	8.3	17.49		**B5/B14**	21650
	69	197	8.1	20.44		**B5/B14**	23000
	62	216	7.9	22.50		**B5/B14**	23000
	55	245	6.9	25.49		**B5/B14**	23000
	44	304	5.6	31.56		**B5/B14**	23000
	42	317	5.4	32.98		**B5/B14**	23000
	41	332	5.1	34.55		**B5/B14**	23000
	36	372	4.6	38.66		**B5/B14**	23000
	33	409	4.2	42.48		**B5/B14**	23000
	32	419	4.3	43.51		**B5/B14**	23000
	30	449	4.0	46.64		**B5/B14**	23000
	25	538	3.3	55.98		**B5/B14**	23000
	23	578	2.8	60.14		**B5/B14**	23000
	21	637	2.5	66.27		**B5/B14**	23000
	18	755	2.4	78.52		**B5/B14**	23000
	16	827	2.2	85.97		**B5/B14**	23000
	15	925	1.9	96.19		**B5/B14**	23000
	13	1017	1.8	105.70		**B5/B14**	23000
	12	1116	1.6	116.04		**B5/B14**	23000
	10	1315	1.4	136.71		**B5/B14**	23000
	9.4	1439	1.3	149.63		**B5/B14**	23000
	8.5	1586	1.1	164.89		**B5/B14**	23000
	38	356	8.4	37.01	**ITB443**	**B5/B14**	31000
	35	380	7.4	39.46		**B5/B14**	31000
	31	428	7.5	44.51		**B5/B14**	31000
	29	458	6.1	47.67		**B5/B14**	31000
	26	522	6.1	54.26		**B5/B14**	31000
	19	702	5.0	72.94		**B5/B14**	31000
	15	886	3.9	92.14		**B5/B14**	31000
	11	1196	2.9	124.32		**B5/B14**	31000
	10	1303	2.7	135.45		**B5/B14**	31000
	9.3	1444	2.4	150.15		**B5/B14**	31000
	8.5	1576	2.2	163.80		**B5/B14**	31000
	7.8	1723	2.0	179.16		**B5/B14**	31000

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P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC	R_2 [N]
1.85							
90LB4 (1400 min^{-1})	**191**	87	5.7	7.34	**ITB423**	**B5/B14**	10821
	153	109	4.6	9.16		**B5/B14**	12149
	118	141	4.3	11.85		**B5/B14**	13877
	90	186	3.2	15.64		**B5/B14**	15964
	76	217	3.2	18.32		**B5/B14**	17264
	70	239	2.9	20.12		**B5/B14**	18067
	61	271	3.0	22.85		**B5/B14**	18500
	50	335	2.4	28.22		**B5/B14**	18500
	47	351	2.4	29.57		**B5/B14**	18500
	45	367	2.3	30.90		**B5/B14**	18500
	40	410	2.1	34.57		**B5/B14**	18500
	37	451	1.9	37.99		**B5/B14**	18500
	36	463	1.9	39.01		**B5/B14**	18500
	34	495	1.8	41.70		**B5/B14**	18500
	29	583	1.5	49.13		**B5/B14**	18500
	28	595	1.5	50.19		**B5/B14**	18500
	26	638	1.4	53.77		**B5/B14**	18500
	24	703	1.3	59.26		**B5/B14**	18500
	20	835	1.1	70.40		**B5/B14**	18500
	18	914	1.0	77.08		**B5/B14**	18500
	16	1023	0.9	86.24		**B5/B14**	18500
	170	97	10	8.21	**ITB433**	**B5/B14**	14449
	137	122	8.2	10.25		**B5/B14**	16254
	106	157	8.3	13.25		**B5/B14**	18620
	80	207	6.7	17.49		**B5/B14**	21511
	69	242	6.6	20.44		**B5/B14**	23000
	62	267	6.4	22.50		**B5/B14**	23000
	55	302	5.6	25.49		**B5/B14**	23000
	44	374	4.5	31.56		**B5/B14**	23000
	42	391	4.3	32.98		**B5/B14**	23000
	41	410	4.1	34.55		**B5/B14**	23000
	36	459	3.7	38.66		**B5/B14**	23000
	33	504	3.4	42.48		**B5/B14**	23000
	32	516	3.5	43.51		**B5/B14**	23000
	30	553	3.3	46.64		**B5/B14**	23000
	25	664	2.7	55.98		**B5/B14**	23000
	23	713	2.2	60.14		**B5/B14**	23000
	21	786	2.0	66.27		**B5/B14**	23000
	18	931	1.9	78.52		**B5/B14**	23000
	16	1020	1.8	85.97		**B5/B14**	23000
	15	1141	1.6	96.19		**B5/B14**	23000
	13	1254	1.4	105.70		**B5/B14**	23000
	12	1376	1.3	116.04		**B5/B14**	23000
	10	1622	1.1	136.71		**B5/B14**	23000
	9.4	1775	1.0	149.63		**B5/B14**	23000
	38	439	6.8	37.01	**ITB443**	**B5/B14**	31000
	35	468	6.0	39.46		**B5/B14**	31000
	31	528	6.1	44.51		**B5/B14**	31000
	29	565	5.0	47.67		**B5/B14**	31000
	26	644	5.0	54.26		**B5/B14**	31000
	19	865	4.0	72.94		**B5/B14**	31000
	15	1093	3.2	92.14		**B5/B14**	31000
	11	1475	2.4	124.32		**B5/B14**	31000
	10	1607	2.2	135.45		**B5/B14**	31000
	9.3	1781	2.0	150.15		**B5/B14**	31000
	8.5	1943	1.8	163.80		**B5/B14**	31000
	7.8	2125	1.6	179.16		**B5/B14**	31000

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC	R_2 [N]
2.2							
100LA4 (1400 min^{-1})	**191**	104	4.8	7.34	**ITB423**	**B5/B14**	10773
	153	129	3.9	9.16		**B5/B14**	12081
	118	167	3.6	11.85		**B5/B14**	13776
	90	221	2.7	15.64		**B5/B14**	15808
	76	258	2.7	18.32		**B5/B14**	17064
	70	284	2.5	20.12		**B5/B14**	17836
	61	322	2.5	22.85		**B5/B14**	18500
	50	398	2.0	28.22		**B5/B14**	18500
	47	417	2.0	29.57		**B5/B14**	18500
	45	436	2.0	30.90		**B5/B14**	18500
	40	488	1.7	34.57		**B5/B14**	18500
	37	536	1.6	37.99		**B5/B14**	18500
	36	550	1.6	39.01		**B5/B14**	18500
	34	588	1.5	41.70		**B5/B14**	18500
	29	693	1.3	49.13		**B5/B14**	18500
	28	708	1.3	50.19		**B5/B14**	18500
	26	759	1.2	53.77		**B5/B14**	18500
	24	836	1.1	59.26		**B5/B14**	18500
	170	116	8.6	8.21	**ITB433**	**B5/B14**	14406
	137	145	6.9	10.25		**B5/B14**	16193
	106	187	7.0	13.25		**B5/B14**	18530
	80	247	5.7	17.49		**B5/B14**	21372
	69	288	5.6	20.44		**B5/B14**	23000
	62	317	5.4	22.50		**B5/B14**	23000
	55	360	4.7	25.49		**B5/B14**	23000
	44	445	3.8	31.56		**B5/B14**	23000
	42	465	3.7	32.98		**B5/B14**	23000
	41	487	3.5	34.55		**B5/B14**	23000
	36	545	3.1	38.66		**B5/B14**	23000
	33	599	2.8	42.48		**B5/B14**	23000
	32	614	2.9	43.51		**B5/B14**	23000
	30	658	2.7	46.64		**B5/B14**	23000
	25	790	2.3	55.98		**B5/B14**	23000
	23	848	1.9	60.14		**B5/B14**	23000
	21	935	1.7	66.27		**B5/B14**	23000
	18	1108	1.6	78.52		**B5/B14**	23000
	16	1213	1.5	85.97		**B5/B14**	23000
	15	1357	1.3	96.19		**B5/B14**	23000
	13	1491	1.2	105.70		**B5/B14**	23000
	12	1637	1.1	116.04		**B5/B14**	23000
	38	522	5.7	37.01	**ITB443**	**B5/B14**	31000
	35	557	5.0	39.46		**B5/B14**	31000
	31	628	5.1	44.51		**B5/B14**	31000
	29	672	4.2	47.67		**B5/B14**	31000
	26	765	4.2	54.26		**B5/B14**	31000
	19	1029	3.4	72.94		**B5/B14**	31000
	15	1300	2.7	92.14		**B5/B14**	31000
	11	1754	2.0	124.32		**B5/B14**	31000
	10	1911	1.8	135.45		**B5/B14**	31000
	9.3	2118	1.7	150.15		**B5/B14**	31000
	8.5	2311	1.5	163.80		**B5/B14**	31000
	7.8	2527	1.4	179.16		**B5/B14**	31000



Dati tecnici

Technical data

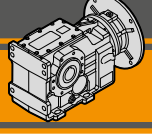
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC	R_2 [N]
3							
100LB4 (1400 min^{-1})	**191**	141	3.5	7.34	**ITB423**	**B5/B14**	10662
	153	176	2.8	9.16		**B5/B14**	11925
	118	228	2.6	11.85		**B5/B14**	13543
	90	301	2.0	15.64		**B5/B14**	15451
	76	352	2.0	18.32		**B5/B14**	16608
	70	387	1.8	20.12		**B5/B14**	17308
	61	440	1.8	22.85		**B5/B14**	18277
	50	543	1.5	28.22		**B5/B14**	18500
	47	569	1.5	29.57		**B5/B14**	18500
	45	594	1.4	30.90		**B5/B14**	18500
	40	665	1.3	34.57		**B5/B14**	18500
	37	731	1.2	37.99		**B5/B14**	18500
	36	750	1.2	39.01		**B5/B14**	18500
	34	802	1.1	41.70		**B5/B14**	18500
	29	945	1.0	49.13		**B5/B14**	18500
	170	158	6.3	8.21	**ITB433**	**B5/B14**	14307
	137	197	5.1	10.25		**B5/B14**	16054
	106	255	5.1	13.25		**B5/B14**	18323
	80	336	4.2	17.49		**B5/B14**	21054
	69	393	4.1	20.44		**B5/B14**	22719
	62	433	3.9	22.50		**B5/B14**	23000
	55	490	3.5	25.49		**B5/B14**	23000
	44	607	2.8	31.56		**B5/B14**	23000
	42	634	2.7	32.98		**B5/B14**	23000
	41	665	2.6	34.55		**B5/B14**	23000
	36	744	2.3	38.66		**B5/B14**	23000
	33	817	2.1	42.48		**B5/B14**	23000
	32	837	2.2	43.51		**B5/B14**	23000
	30	897	2.0	46.64		**B5/B14**	23000
	25	1077	1.7	55.98		**B5/B14**	23000
	23	1157	1.4	60.14		**B5/B14**	23000
	21	1275	1.3	66.27		**B5/B14**	23000
	18	1510	1.2	78.52		**B5/B14**	23000
	16	1654	1.1	85.97		**B5/B14**	23000
	15	1850	1.0	96.19		**B5/B14**	23000
	38	712	4.2	37.01	**ITB443**	**B5/B14**	31000
	35	759	3.7	39.46		**B5/B14**	31000
	31	856	3.7	44.51		**B5/B14**	31000
	29	917	3.1	47.67		**B5/B14**	31000
	26	1044	3.1	54.26		**B5/B14**	31000
	19	1403	2.5	72.94		**B5/B14**	31000
	15	1772	2.0	92.14		**B5/B14**	31000
	11	2391	1.5	124.32		**B5/B14**	31000
	10	2606	1.3	135.45		**B5/B14**	31000
	9.3	2888	1.2	150.15		**B5/B14**	31000
	8.5	3151	1.1	163.80		**B5/B14**	31000
	7.8	3446	1.0	179.16		**B5/B14**	31000

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC	R_2 [N]
4							
112M4 (1400 min^{-1})	**191**	188	2.7	7.34	**ITB423**	**B5/B14**	10524
	153	235	2.1	9.16		**B5/B14**	11730
	118	304	2.0	11.85		**B5/B14**	13253
	90	401	1.5	15.64		**B5/B14**	15005
	76	470	1.5	18.32		**B5/B14**	16037
	70	516	1.4	20.12		**B5/B14**	16649
	61	586	1.4	22.85		**B5/B14**	17474
	50	724	1.1	28.22		**B5/B14**	18500
	47	758	1.1	29.57		**B5/B14**	18500
	45	792	1.1	30.90		**B5/B14**	18500
	40	887	1.0	34.57		**B5/B14**	18500
	170	211	4.7	8.21	**ITB433**	**B5/B14**	14184
	137	263	3.8	10.25		**B5/B14**	15881
	106	340	3.8	13.25		**B5/B14**	18064
	80	449	3.1	17.49		**B5/B14**	20656
	69	524	3.1	20.44		**B5/B14**	22213
	62	577	2.9	22.50		**B5/B14**	23000
	55	654	2.6	25.49		**B5/B14**	23000
	44	809	2.1	31.56		**B5/B14**	23000
	42	846	2.0	32.98		**B5/B14**	23000
	41	886	1.9	34.55		**B5/B14**	23000
	36	992	1.7	38.66		**B5/B14**	23000
	33	1090	1.6	42.48		**B5/B14**	23000
	32	1116	1.6	43.51		**B5/B14**	23000
	30	1196	1.5	46.64		**B5/B14**	23000
	25	1436	1.3	55.98		**B5/B14**	23000
	23	1542	1.0	60.14		**B5/B14**	23000
	38	949	3.2	37.01	**ITB443**	**B5/B14**	31000
	35	1012	2.8	39.46		**B5/B14**	31000
	31	1142	2.8	44.51		**B5/B14**	31000
	29	1223	2.3	47.67		**B5/B14**	31000
	26	1392	2.3	54.26		**B5/B14**	31000
	19	1871	1.9	72.94		**B5/B14**	31000
	15	2363	1.5	92.14		**B5/B14**	31000
	11	3189	1.1	124.32		**B5/B14**	31000
	10	3474	1.0	135.45		**B5/B14**	31000

Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC	R_2 [N]
5.5							
132S4 (1400 min^{-1})	**191**	259	1.9	7.34	**ITB423**	**B5**	10316
	153	323	1.5	9.16		**B5**	11438
	118	418	1.4	11.85		**B5**	12817
	90	552	1.1	15.64		**B5**	14335
	76	646	1.1	18.32		**B5**	15181
	70	710	1.0	20.12		**B5**	15659
	61	806	1.0	22.85		**B5**	16268
	170	290	3.5	8.21	**ITB433**	**B5**	13999
	137	361	2.8	10.25		**B5**	15621
	106	467	2.8	13.25		**B5**	17676
	80	617	2.3	17.49		**B5**	20060
	69	721	2.2	20.44		**B5**	21454
	62	794	2.1	22.50		**B5**	22325
	55	899	1.9	25.49		**B5**	23000
	44	1113	1.5	31.56		**B5**	23000
	42	1163	1.5	32.98		**B5**	23000
	41	1219	1.4	34.55		**B5**	23000
	36	1363	1.2	38.66		**B5**	23000
	33	1498	1.1	42.48		**B5**	23000
	32	1535	1.2	43.51		**B5**	23000
	30	1645	1.1	46.64		**B5**	23000
	178	278	6.1	7.88	**ITB443**	**B5**	20029
	147	336	5.1	9.53		**B5**	22120
	119	414	4.3	11.75		**B5**	24631
	99	498	4.0	14.13		**B5**	27041
	81	607	3.8	17.23		**B5**	29833
	60	817	3.4	23.16		**B5**	31000
	56	875	3.4	24.82		**B5**	31000
	47	1059	2.8	30.03		**B5**	31000
	38	1305	2.3	37.01		**B5**	31000
	35	1392	2.0	39.46		**B5**	31000
	31	1570	2.0	44.51		**B5**	31000
	29	1681	1.7	47.67		**B5**	31000
	26	1914	1.7	54.26		**B5**	31000
	19	2573	1.4	72.94		**B5**	31000
	15	3249	1.1	92.14		**B5**	31000

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC	R_2 [N]
7.5							
132MA4 (1400 min^{-1})	**191**	353	1.4	7.34	**ITB423**	**B5**	10040
	153	441	1.1	9.16		**B5**	11049
	118	570	1.1	11.85		**B5**	12236
	170	395	2.5	8.21	**ITB433**	**B5**	13753
	137	493	2.0	10.25		**B5**	15274
	106	637	2.0	13.25		**B5**	17159
	80	841	1.7	17.49		**B5**	19266
	69	983	1.6	20.44		**B5**	20442
	62	1082	1.6	22.50		**B5**	21150
	55	1226	1.4	25.49		**B5**	22027
	44	1518	1.1	31.56		**B5**	23000
	42	1586	1.1	32.98		**B5**	23000
	41	1662	1.0	34.55		**B5**	23000
	178	379	4.5	7.88	**ITB443**	**B5**	19836
	147	458	3.7	9.53		**B5**	21860
	119	565	3.2	11.75		**B5**	24271
	99	680	2.9	14.13		**B5**	26562
	81	828	2.8	17.23		**B5**	29182
	60	1114	2.5	23.16		**B5**	31000
	56	1194	2.5	24.82		**B5**	31000
	47	1444	2.1	30.03		**B5**	31000
	38	1780	1.7	37.01		**B5**	31000
	35	1898	1.5	39.46		**B5**	31000
	31	2141	1.5	44.51		**B5**	31000
	29	2292	1.2	47.67		**B5**	31000
	26	2609	1.2	54.26		**B5**	31000
	19	3508	1.0	72.94		**B5**	31000
9.2							
132L4 (1400 min^{-1})	**191**	433	1.2	7.34	**ITB423**	**B5**	9805
	170	485	2.1	8.21	**ITB433**	**B5**	13544
	137	604	1.7	10.25		**B5**	14979
	106	782	1.7	13.25		**B5**	16720
	80	1032	1.4	17.49		**B5**	18590
	69	1206	1.3	20.44		**B5**	19582
	62	1327	1.3	22.50		**B5**	20152
	55	1504	1.1	25.49		**B5**	20815
	178	465	3.7	7.88	**ITB443**	**B5**	19671
	147	562	3.0	9.53		**B5**	21639
	119	693	2.6	11.75		**B5**	23966
	99	834	2.4	14.13		**B5**	26156
	81	1016	2.3	17.23		**B5**	28629
	60	1366	2.0	23.16		**B5**	31000
	56	1464	2.0	24.82		**B5**	31000
	47	1772	1.7	30.03		**B5**	31000
	38	2183	1.4	37.01		**B5**	31000
	35	2328	1.2	39.46		**B5**	31000
	31	2626	1.2	44.51		**B5**	31000
	29	2812	1.0	47.67		**B5**	31000
	26	3201	1.0	54.26		**B5**	31000



Dati tecnici

Technical data

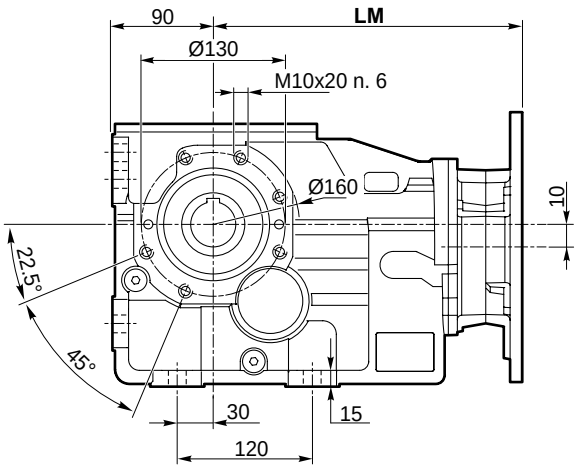
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC	R_2 [N]
11							
160M4 (1400 min^{-1})	**170**	579	1.7	8.21	**ITB433**	**B5**	13322
	137	723	1.4	10.25		**B5**	14667
	106	935	1.4	13.25		**B5**	16254
	80	1234	1.1	17.49		**B5**	17875
	69	1441	1.1	20.44		**B5**	18672
	62	1587	1.1	22.50		**B5**	19095
	178	556	3.1	7.88	**ITB443**	**B5**	19497
	147	672	2.5	9.53		**B5**	21405
	119	829	2.2	11.75		**B5**	23642
	99	997	2.0	14.13		**B5**	25725
	81	1215	1.9	17.23		**B5**	28044
	60	1633	1.7	23.16		**B5**	31000
	56	1751	1.7	24.82		**B5**	31000
	47	2118	1.4	30.03		**B5**	31000
	38	2611	1.1	37.01		**B5**	31000
	35	2784	1.0	39.46		**B5**	31000
	31	3140	1.0	44.51		**B5**	31000
15							
160L4 (1400 min^{-1})	**170**	790	1.3	8.21	**ITB433**	**B5**	12830
	137	985	1.0	10.25		**B5**	13973
	106	1275	1.0	13.25		**B5**	15220
	178	758	2.2	7.88	**ITB443**	**B5**	19110
	147	917	1.9	9.53		**B5**	20885
	119	1130	1.6	11.75		**B5**	22923
	99	1359	1.5	14.13		**B5**	24768
	81	1657	1.4	17.23		**B5**	26743
	60	2227	1.3	23.16		**B5**	29496
	56	2387	1.3	24.82		**B5**	30067
	47	2888	1.0	30.03		**B5**	31000

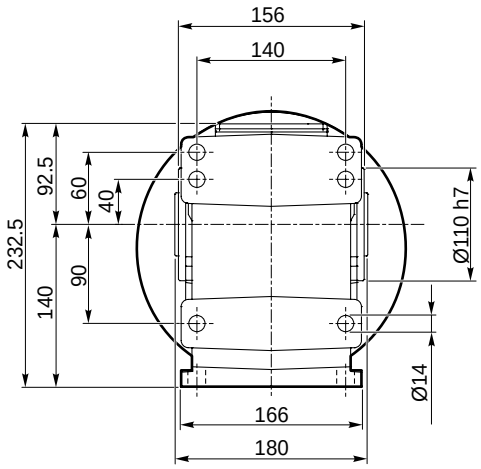
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC	R_2 [N]
18.5							
180M4 (1400 min^{-1})	**178**	935	1.8	7.88	**ITB443**	**B5**	18772
	147	1131	1.5	9.53		**B5**	20430
	119	1394	1.3	11.75		**B5**	22294
	99	1676	1.2	14.13		**B5**	23931
	81	2043	1.1	17.23		**B5**	25605
	60	2747	1.0	23.16		**B5**	27695
	56	2944	1.0	24.82		**B5**	28062
22							
180L4 (1400 min^{-1})	**178**	1111	1.5	7.88	**ITB443**	**B5**	18433
	147	1345	1.3	9.53		**B5**	19975
	119	1658	1.1	11.75		**B5**	21665
	99	1993	1.0	14.13		**B5**	23093
	81	2430	0.9	17.23		**B5**	24467

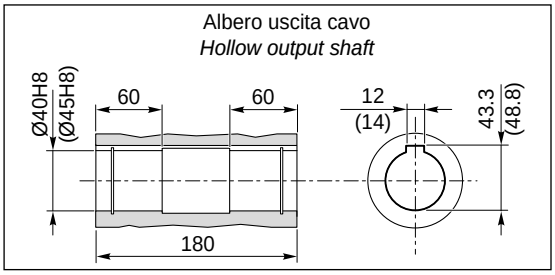
Dimensioni ***Dimensions***

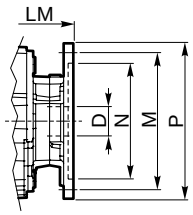
ITB 423 U

ITB 423 U



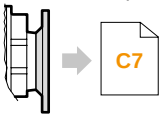




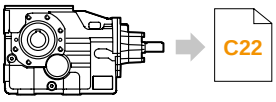


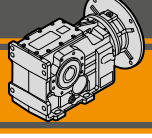
Dimensioni IEC / *IEC Dimensions*						
	80 B5	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**	**132 B5**
LM	279.5	279.5	284	283.5	284	304.5
N	130	130	95	180	110	230
M	165	165	115	215	130	265
P	200	200	140	250	160	300
D	19	24		28		38

IEC Motori applicabili
IEC Motor adapters



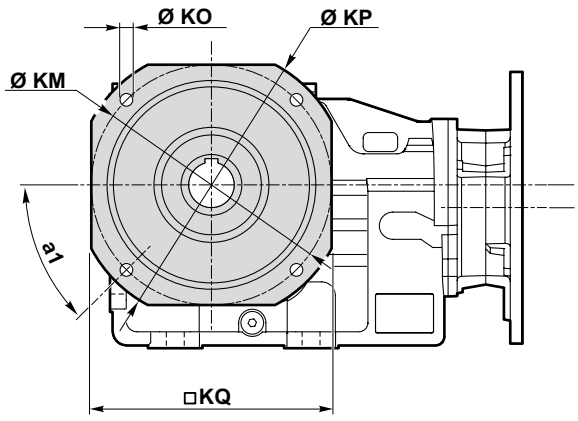
ITBIS 423..

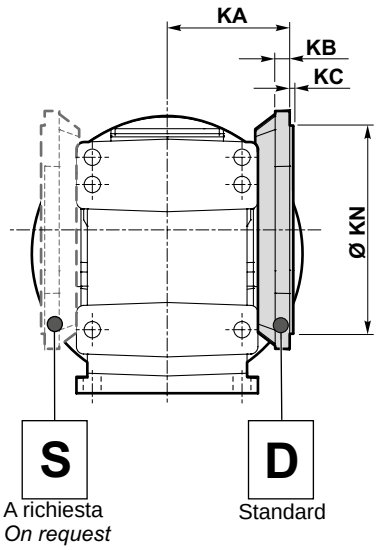


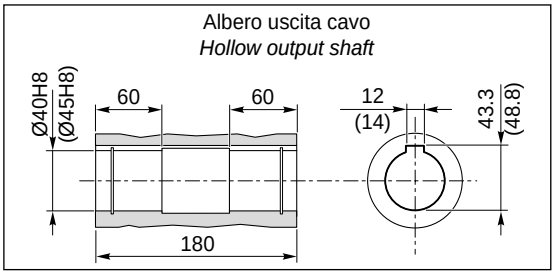


ITB 423 F...

ITB 423 F...







Versione **F** / ***F** Version*											
ITB	**a_1**	**KA**	**KB**	**KC**	**KM**	**KN** f7	**KO**	**KP**	**KQ**	**Flangia / *Flange*** Tipo / *Type*	**Peso / *Weight*** [kg]
423	45°	113	13	4	165	130	11	200	172	**F200**	2.6
	45°	113	13	4	215	180	14	250	215	**F250**	3.8
	45°	113	13	4	265	230	14	300	265	**F300**	5.6

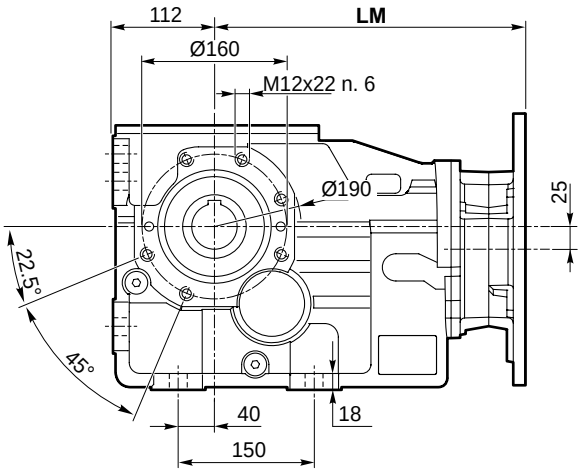
Peso / *Weight [kg]*						
ITB	**80 B5**	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**	**132 B5**
423 U	39.1	39.1	38.1	40.9	38.2	44.1

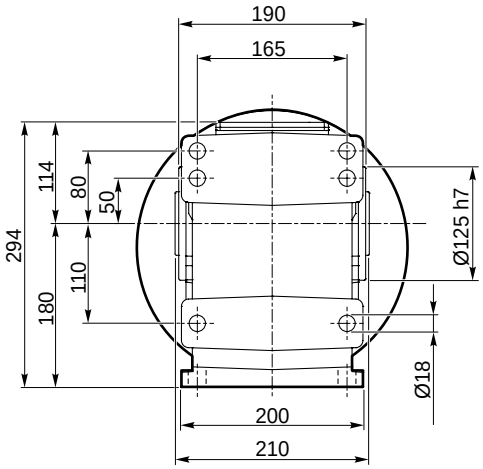
Nota: peso del riduttore complessivo di olio per la posizione M1 (B3)
Note: weight of the gearbox filled with oil for M1 (B3) assembly position

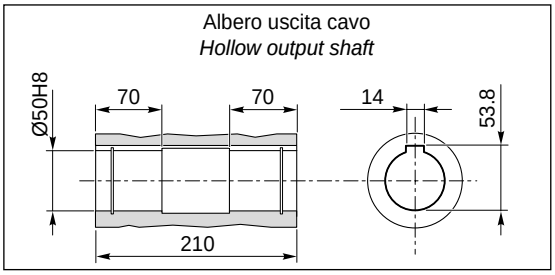
Dimensioni ***Dimensions***

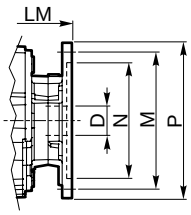
ITB 433 U

ITB 433 U



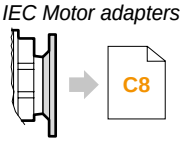




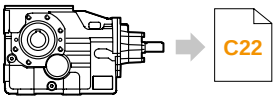


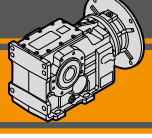
Dimensioni IEC / *IEC Dimensions*							
	80 B5	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**	**132 B5**	**160 B5**
LM	330	330	334.5	334	334.5	355	405
N	130	130	95	180	110	230	250
M	165	165	115	215	130	265	300
P	200	200	140	250	160	300	350
D	19	24		28		38	42

IEC Motori applicabili
IEC Motor adapters



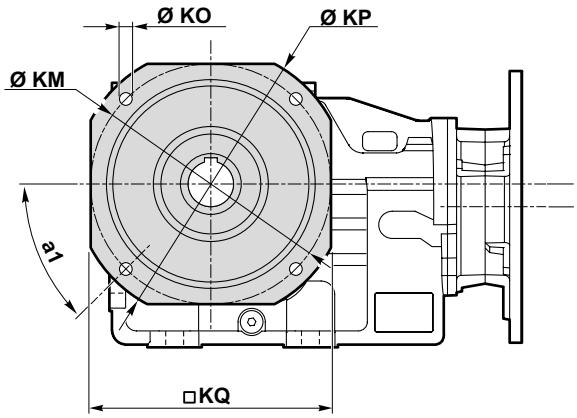
ITBIS 433..

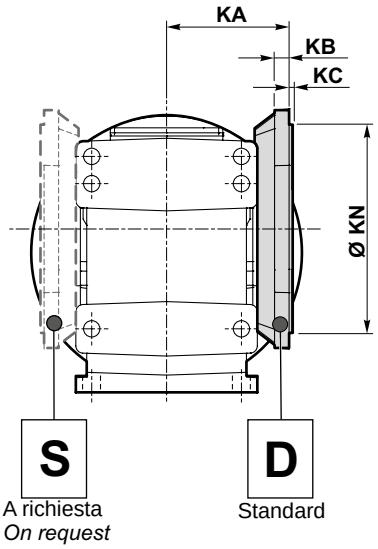


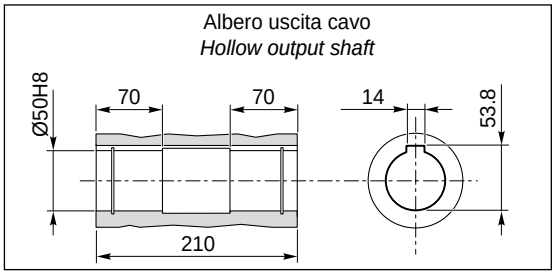


ITB 433 F...

ITB 433 F...







Versione **F** / ***F** Version*											
ITB	**a_1**	**KA**	**KB**	**KC**	**KM**	**KN** f7	**KO**	**KP**	**KQ**	**Flangia / *Flange*** Tipo / *Type*	**Peso / *Weight*** [kg]
433	45°	135	16	4	215	180	14	250	215	**F250**	4.8
	45°	135	16	4	265	230	14	300	260	**F300**	7.1
	45°	135	16	4	300	250	18	350	300	**F350**	9.1

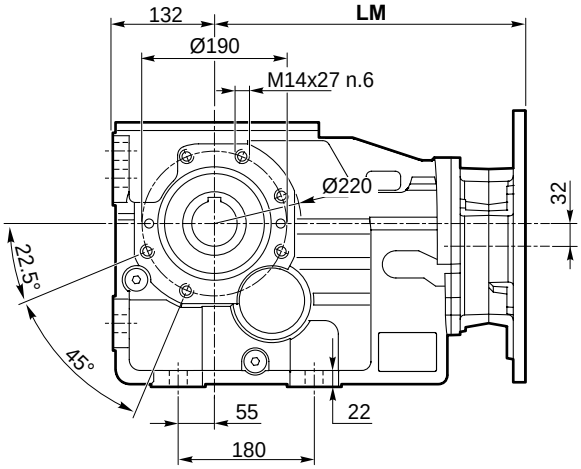
Peso / *Weight [kg]*							
ITB	**80 B5**	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**	**132 B5**	**160 B5**
433 U	64.8	64.8	63.8	66.6	63.9	69.8	78.3

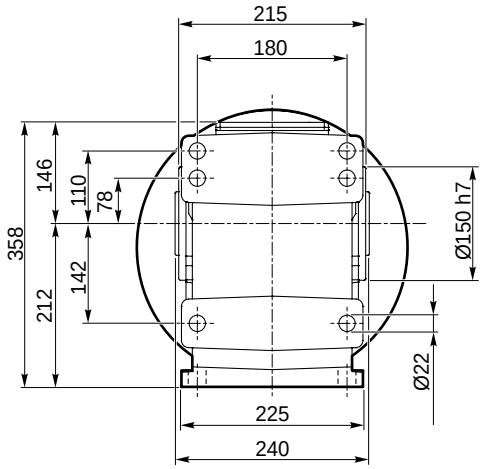
Nota: peso del riduttore complessivo di olio per la posizione M1 (B3)
Note: weight of the gearbox filled with oil for M1 (B3) assembly position

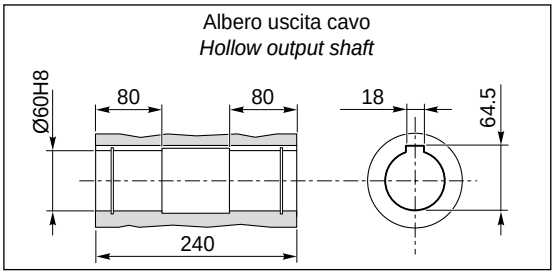
Dimensioni ***Dimensions***

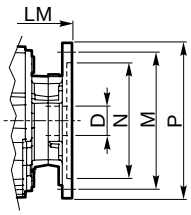
ITB 443 U

ITB 443 U



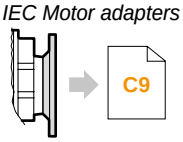




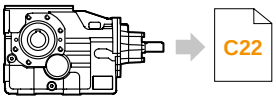


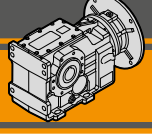
Dimensioni IEC / *IEC Dimensions*								
	80 B5	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**	**132 B5**	**160 B5**	**180 B5**
LM	375.5	375.5	380	379.5	383	400.5	450.5	450.5
N	130	130	95	180	110	230	250	250
M	165	165	115	215	130	265	300	300
P	200	200	140	250	160	300	350	350
D	19	24		28		38	42	48

IEC Motori applicabili
IEC Motor adapters



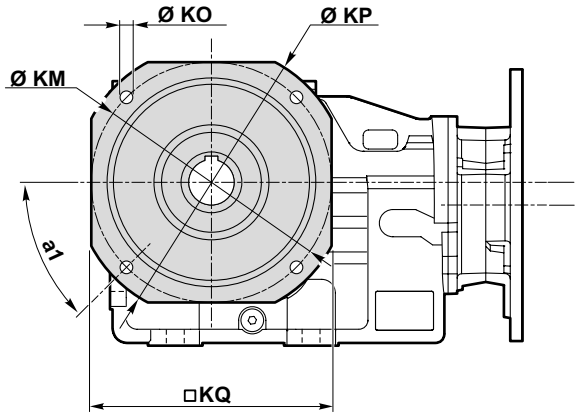
ITBIS 443..

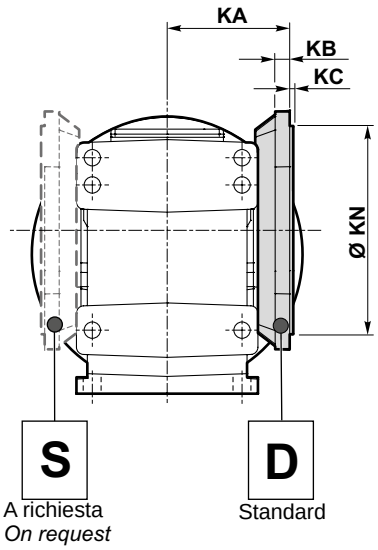


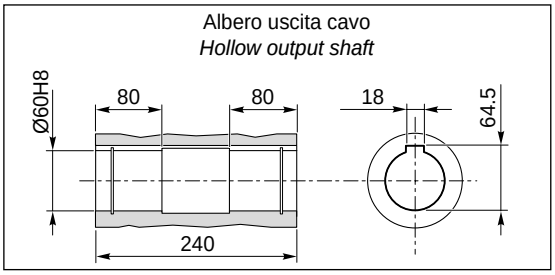


ITB 443 F...

ITB 443 F...







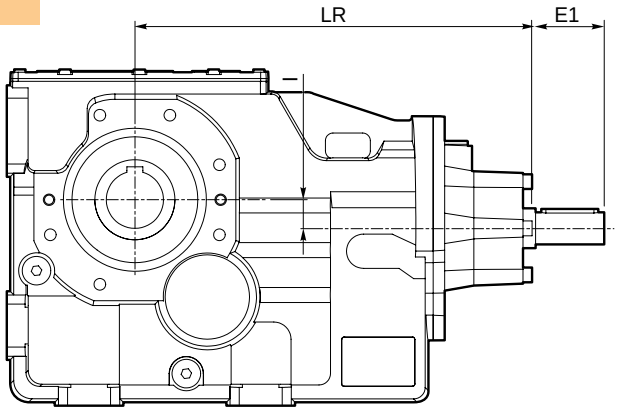
Versione **F** / ***F** Version*											
ITB	**a_1**	**KA**	**KB**	**KC**	**KM**	**KN** f7	**KO**	**KP**	**KQ**	**Flangia / *Flange*** Tipo / *Type*	**Peso / *Weight*** [kg]
443	45°	150	18	4	265	230	14	300	265	**F300**	7.4
	45°	150	18	5	300	250	18	350	300	**F350**	10.2
	45°	150	18	5	400	350	18	450	400	**F450**	16.9

Peso / *Weight [kg]*								
ITB	**80 B5**	**90 B5**	**90 B14**	**100/112 B5**	**100/112 B14**	**132 B5**	**160 B5**	**180 B5**
443 U	107.5	107.5	106.5	109.3	106.6	112.5	123.5	123.5

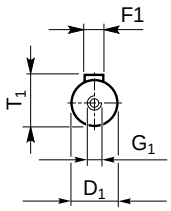
Nota: peso del riduttore complessivo di olio per la posizione M1 (B3)
Note: weight of the gearbox filled with oil for M1 (B3) assembly position

Dimensioni — *Dimensions*

ITBIS..



Albero entrata
Input shaft



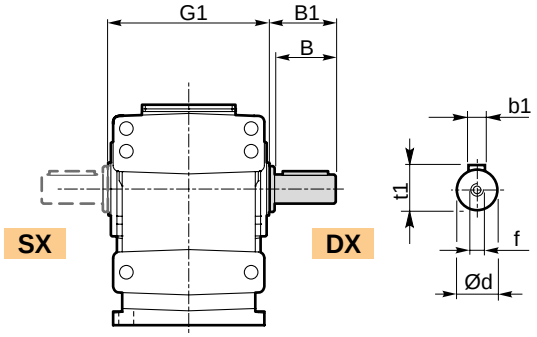
ITBIS	Versione *Version*	LR	D1	E1	I	T1	F1	G1
423	U F	312	28	60	10	31	8	M10
433		362.5	28	60	25	31	8	M10
443		408	38	80	32	41	10	M12

ITBIS	Peso / *Weight* [kg]
423 U	39.9
433 U	59.6
443 U	113.9

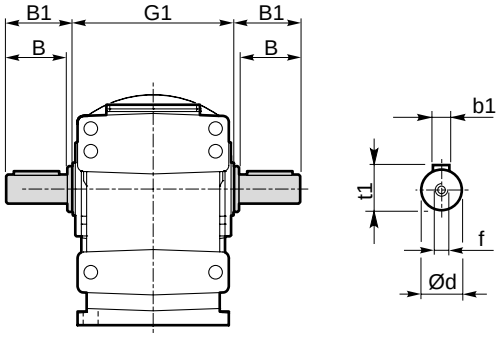
Accessori — *Accessories*

Albero lento / *Output shaft*

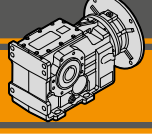
ITB.. SZ..
ITBIS..SZ..



ITB... DZ
ITBIS..DZ

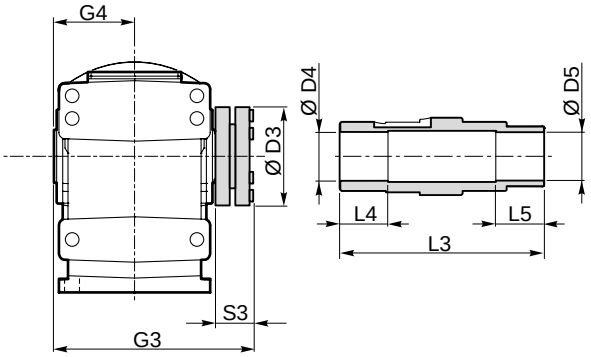


ITB	d h7	B	B1	G1	f	b1	t1	Peso / *Weight* [kg]	
								SZ	DZ
423	40	80	84	180	M16	12	43	2.2	3.2
433	50	100	105	210	M16	14	53.5	4.3	6.2
443	60	120	125	240	M20	18	64	7.1	10.3



Albero lento con calettarore / *Output shaft with shrink disk*

ITB...G..
ITBIS..G..



ITB		D3	D4 H8	D5 H8	G3	L3	L4	L5	S3	G4
423	G40	100	41	40	217.5	215	45	45	34.5	90
	G45	100	46	45	217.5	215	45	45	34.5	90
433	G50	110	51	50	247.5	245	50	50	34.5	105
443	G60	138	61	60	280.5	279	60	60	37.5	120

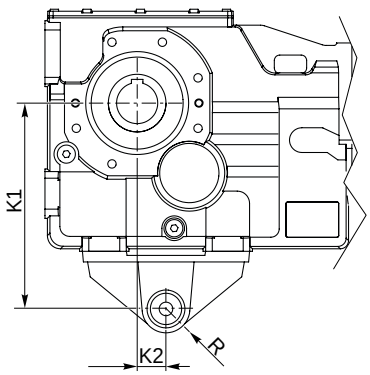
Kit albero uscita con calettatore disponibile a richiesta:
per le istruzioni di montaggio riferirsi al nostro Servizio Tecnico.

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

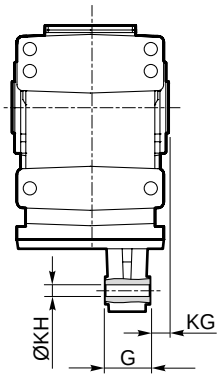
Kit braccio di reazione

Torque arm kit

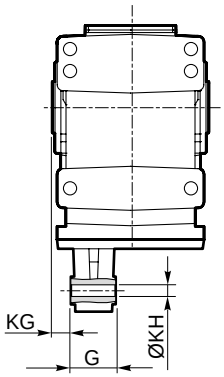
ITB..
ITBIS..



BRDX



BRSX



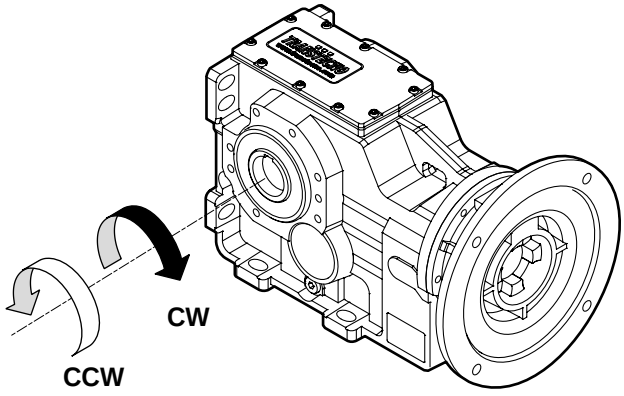
Braccio di reazione / *Torque arm*

ITB ITBIS	K1	K2	KG	KH	G	R	Peso / *Weight [kg]*
423	200	30	25	16.5	60	29	2.9
433	250	35	25	16.5	60	29	4.4
443	300	35	30	25	80	40	8.1

Accessori — *Accessories*

Dispositivo antiretro / *Backstop device*

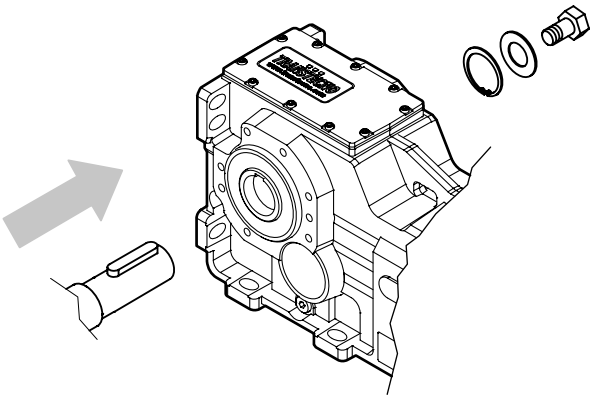
ITB...CW
ITB...CCW



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.

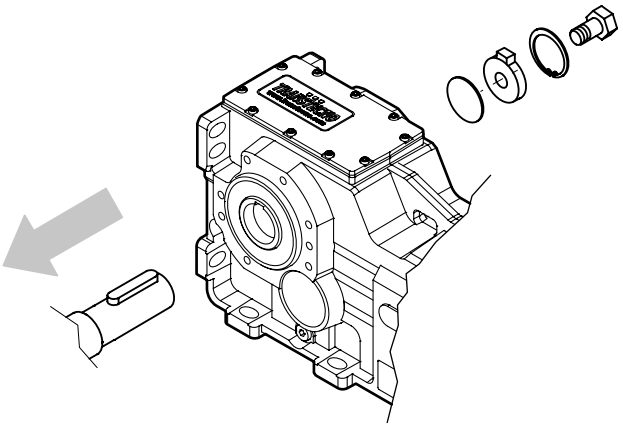
Kit di montaggio albero uscita / *Output shaft assembly kit*



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

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

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



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

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

TRANSTECNO®

the modular gearmotor

Appendice
Appendix

TRANSTECNO · GENUINE · PRODUCTS ·

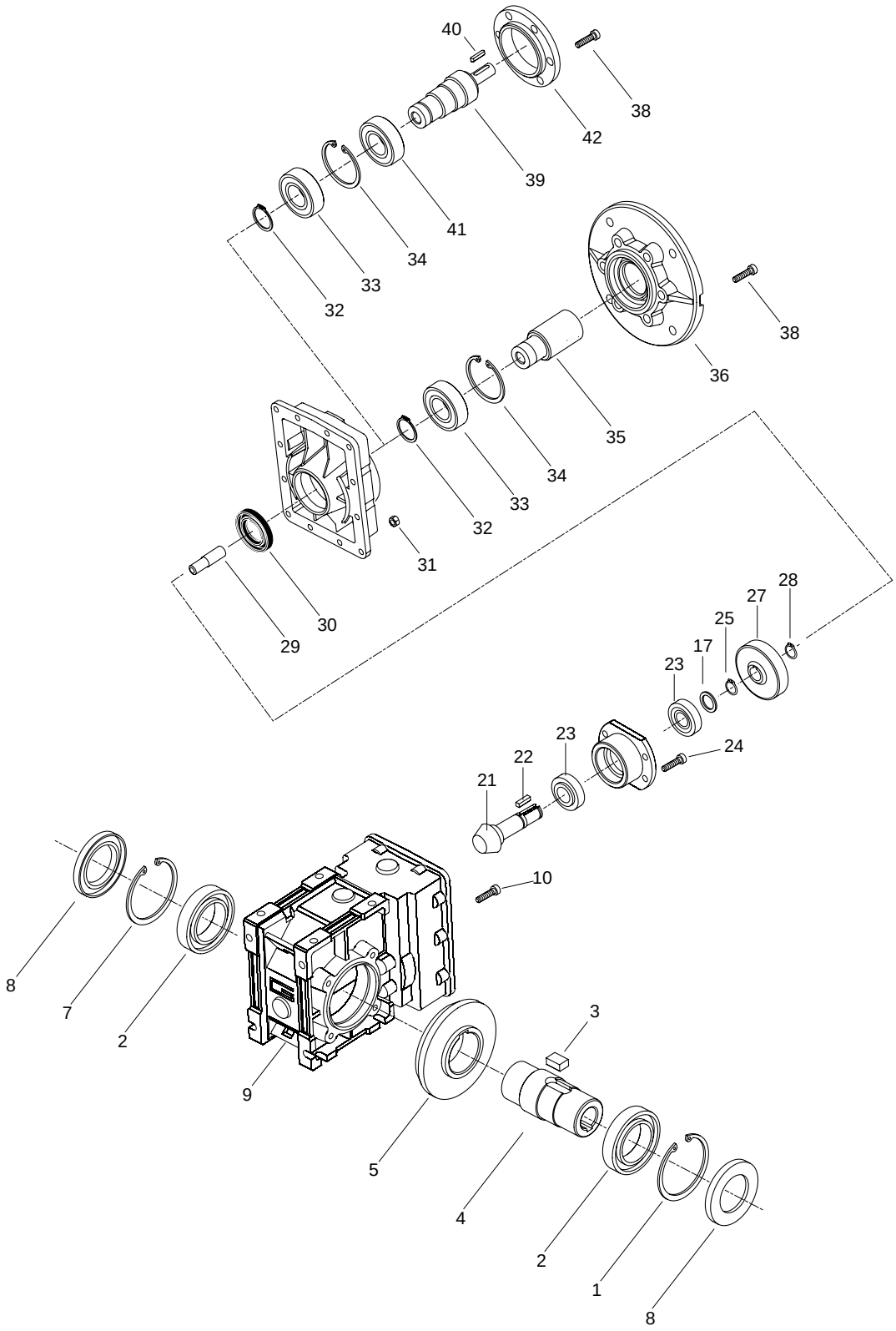
Indice	*Index*	Pag. *Page*
Liste parti di ricambio	*Spare parts list*	
CMB..2	*CMB..2*	**D2**
CMB..3	*CMB..3*	**D3**
ITB..	*ITB..*	**D4**
Coperchio entrata	*Input cover*	**D5**

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

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

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

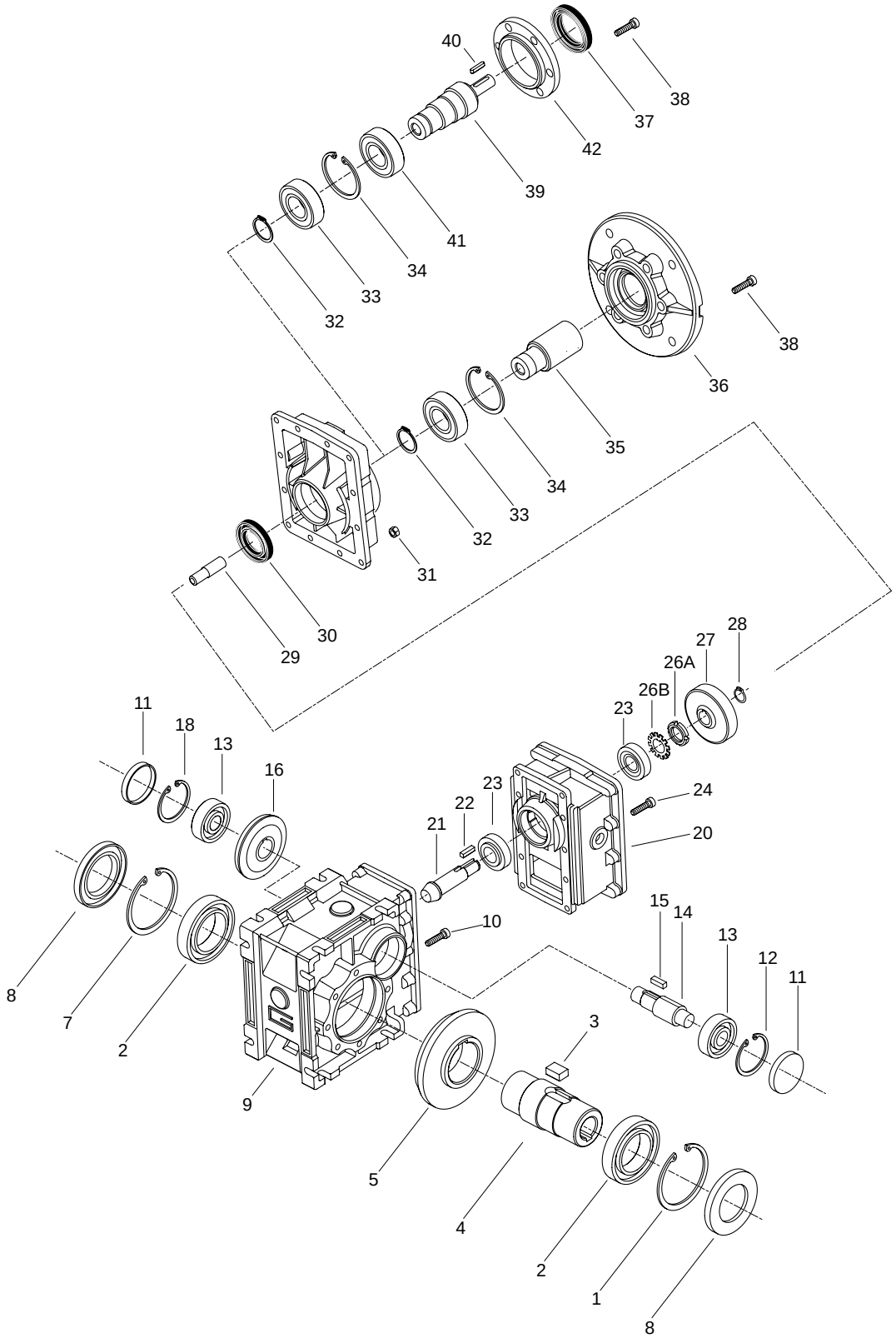
CMB ..2



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

Lista parti di ricambio *Spare parts list*

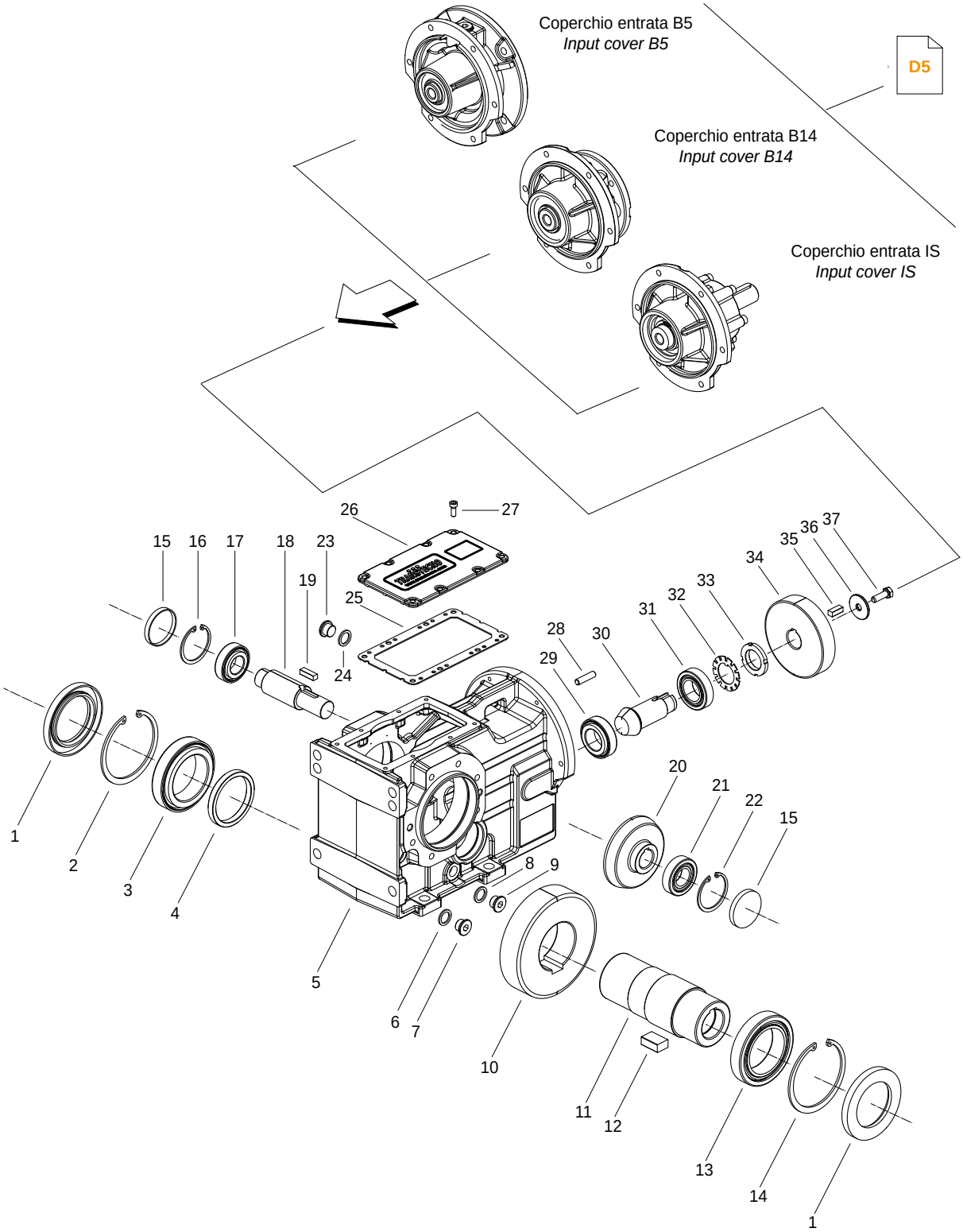
CMB ..3



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

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

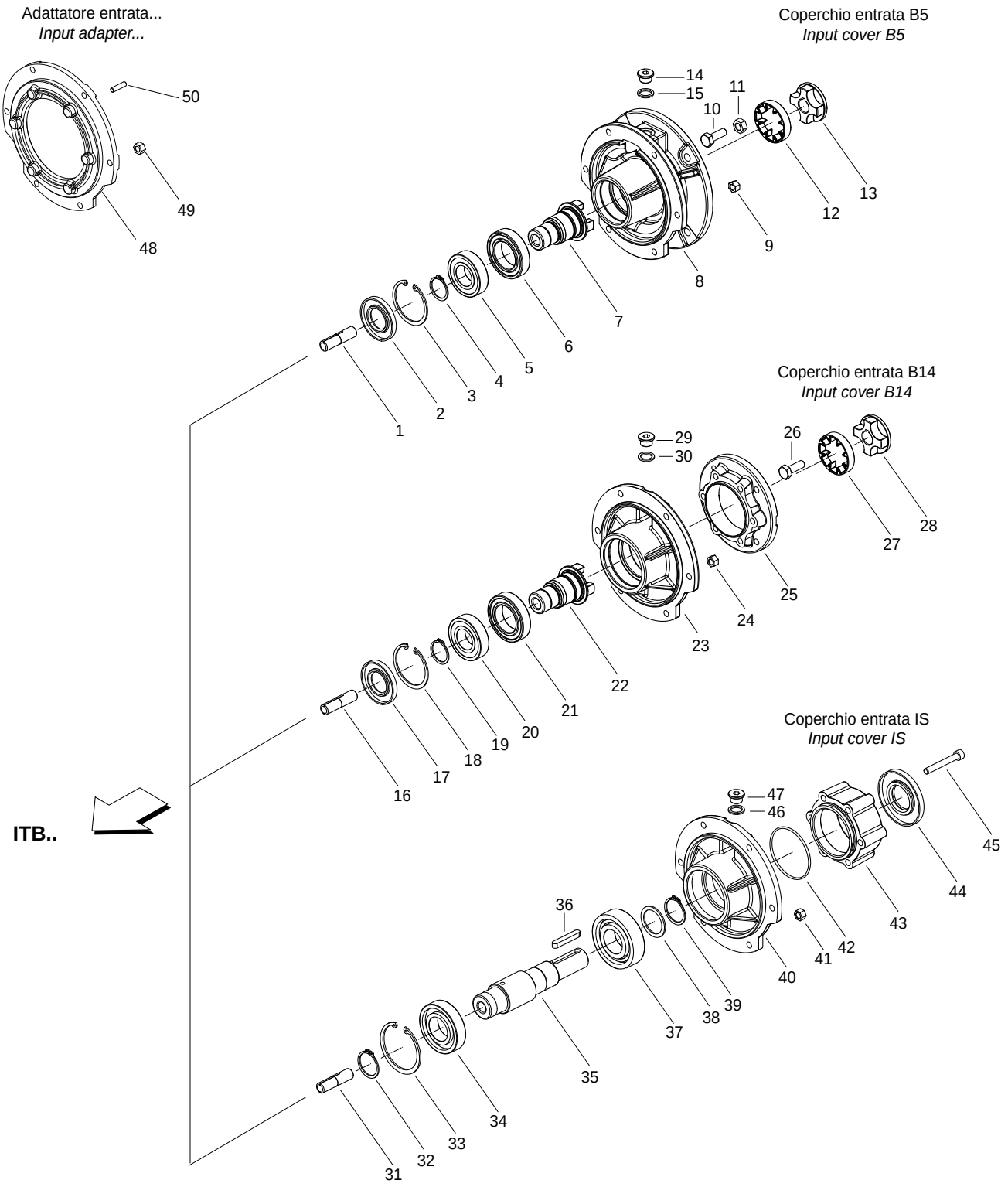
ITB ..



ITB	Anelli di tenuta / *Oil seals*	RCA
	1	**15**
423	65/100/10	52x7
433	70/110/12	72x10
443	85/130/10	80x10

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

COPERCHIO ENTRATA - *INPUT COVER*



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

IEC B14	Anelli di tenuta / *Oil seals*
	17
90	35/72/7
100/112	35/72/7

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

Note/*Notes*

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