
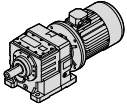

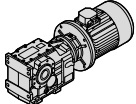

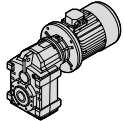


TRANSTECNO[®]
the modular garmotor



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

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

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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.

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

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

When different speeds are required, contact our Technical Service.

Rapporto di riduzione

i

Gear ratio

E' una grandezza adimensionale ed è in funzione del numero dei denti degli ingranaggi interni al riduttore.
Dai dati di catalogo si può ottenere con la relazione:

This value is strictly related to the size and number of teeth gears inside the gearbox.

From the data given in the catalogue, the value can be calculated using the following formula:

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

Velocità in uscita

n_2 [min⁻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

Mn₂ [Nm]

Nominal torque

Rappresenta la coppia in uscita trasmissibile dal riduttore in base alla velocità in entrata n₁ 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 M₂ (coppia trasmessa) e sf (fattore di servizio):

This is the output torque that can be transmitted by the gearbox according to input speed n₁ 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 M₂ (output torque) and sf (service factor):

$$Mn_2 = M_2 \cdot sf$$

Coppia Trasmessa

M₂ [Nm]

Output torque

E' la coppia trasmessa in uscita al riduttore. Dipende dalla potenza P₁ del motore installato, dal numero di giri in uscita n₂ 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 P₁ of the motor installed, output rpm n₂ and dynamic efficiency Rd. It can be calculated with the following formula:

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

oppure:
or:

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

dove:
where:

$$P_2 = P_1 \cdot Rd$$

Rendimento

Rd

Efficiency

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

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

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

On helical gearboxes the average efficiency is 94%.

Potenza in entrata

P₁ [kW]

Input power

E' la potenza motore applicata in entrata al riduttore e riferita alla velocità n₁. Può essere calcolata come segue:

This is the power applied by the motor at the gearbox input in reference to speed n₁. 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.

	A - Uniforme	$fa \leq 0.3$
Tipo di carico	B - Medio	$fa \leq 3$
	C - Forte	$fa \leq 10$

	A - Uniform	$fa \leq 0.3$
Type of load	B - Moderate shocks	$fa \leq 3$
	C - Heavy shocks	$fa \leq 10$

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

- Je (kgm²) momento d'inerzia esterno ridotto all'albero motore.
- Jm (kgm²) momento d'inerzia motore.

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

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

- Je (kgm²) moment of reduced external inertia at the drive-shaft
- Jm (kgm²) moment of inertia of motor.

If $fa > 10$ call our Technical Service.

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

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

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

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

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

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

Esempio applicazione:

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

Application example:

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

Carico radiale

R; R₂ [N]

Radial load

L'applicazione sull'albero in uscita del riduttore di pignoni, pulegge, ecc. determina delle forze radiali che debbono necessariamente essere considerate per evitare sollecitazioni eccessive con il rischio di danneggiamenti del riduttore stesso.

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

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

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

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

dove:

d [mm] diametro primitivo del pignone o della puleggia

kr coefficiente riferito al tipo di trasmissione:

kr = 1.4 ruota per catena

kr = 1.1 ingranaggio

kr = 1.5 - 2.5 puleggia per cinghia a V

where:

d [mm] diameter of the pinion or pulley

kr coefficient in relation to type of transmission:

kr = 1.4 sprocket wheel

kr = 1.1 gear

kr = 1.5 - 2.5 pulley for V belts

E' opportuno evidenziare che i valori di R₂ 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 R₂ 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; A₂ [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 A₂ 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 A₂ 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 A₂ contattate il ns. Servizio Tecnico.

If axial load A that acts on the shaft is greater than A₂, contact our Technical Service.

Scelta dei motoriduttori

Selecting the gearmotors

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

To select the required gearmotor, perform the procedure below:

1. Per l'applicazione desiderata ricavare il fattore di servizio sf dalle tabelle a pag. A4 in base alla classe di carico, alle ore di funzionamento giornaliero e al numero di avviamenti orari.

1. Determine the service factor sf for the desired application by referring to the charts given on page A4. This is to be done by considering the class of load, the operational hours/day and the number of start-ups/ hour.

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

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

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

Motoriduttore
Gearmotor

dove Rd è il rendimento dinamico e n₂ il numero di giri richiesti in uscita al motoriduttore.

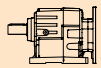

where Rd stands for the dynamic efficiency and n₂ indicates the required output rpm of the gearmotor .

Scelta dei motoriduttori

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).

Selecting the gearmotors

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			R_2 [N]
5.5							
132s4 (1400 min ⁻¹)	23	2177	1.6	61.74	ITH143	B5	22500
	21	2353	1.5	66.73		B5	22500
	18	2801	1.2	79.43		B5	22500
	16	3028	1.2	85.85		B5	22500

Esempio / Example:

Applicazione / Application:

Nastro trasportatore / Conveyor belt

P : 5.5 kW
 sf : 1.6
 n_2 : 23 rpm

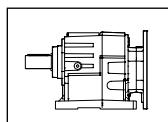
Motorizzazione scelta / Power unit selected:

ITH143 $i = 61.74$, $P_1 = 5.5$ kW, $sf = 1.6$

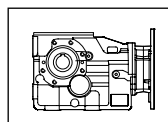
Lubrificazione

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

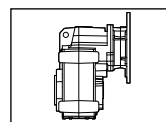
All unit sizes of ITH, ITB and ITS series are complete with a long life synthetic lubricant, viscosity 320.



ITH



ITB



ITS

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

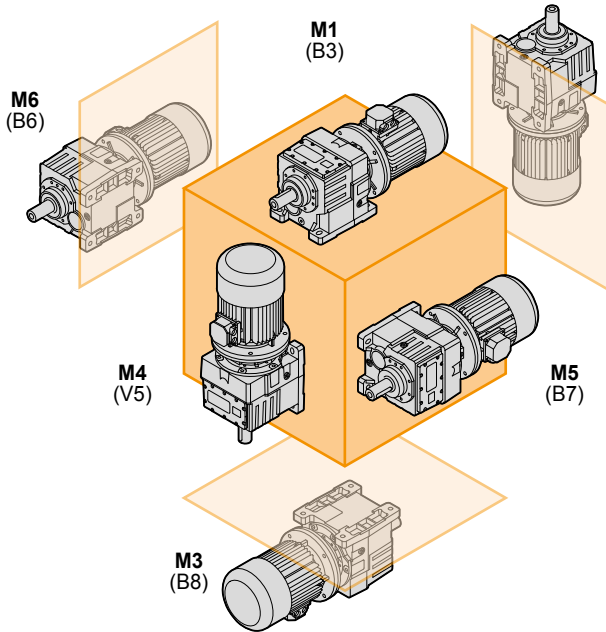
Nelle sezioni specifiche sono riportate le tabelle con le quantità indicative di lubrificante contenute e/o da immettere.

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

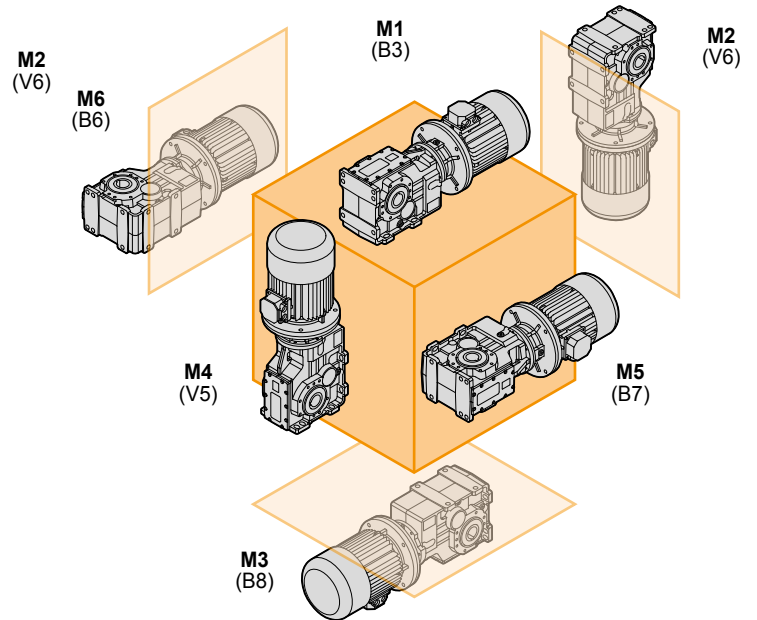
In fase di ordine è necessario specificare sempre la posizione di montaggio desiderata.

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

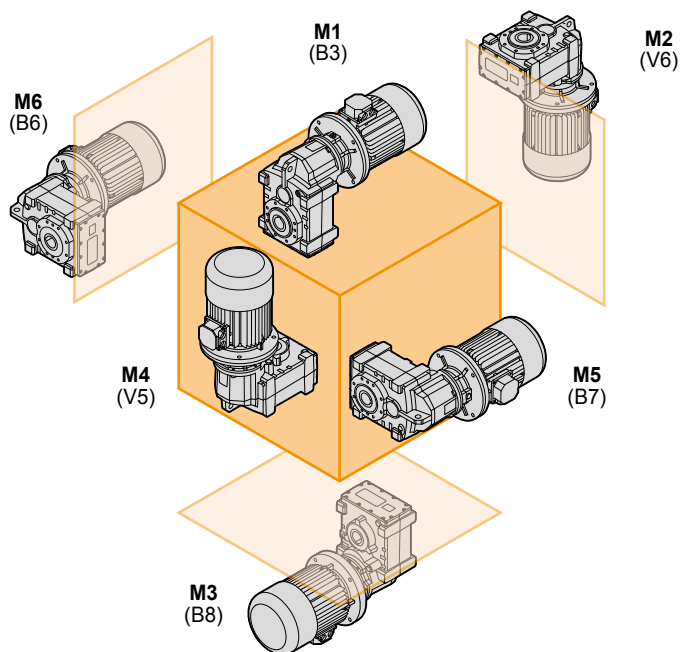
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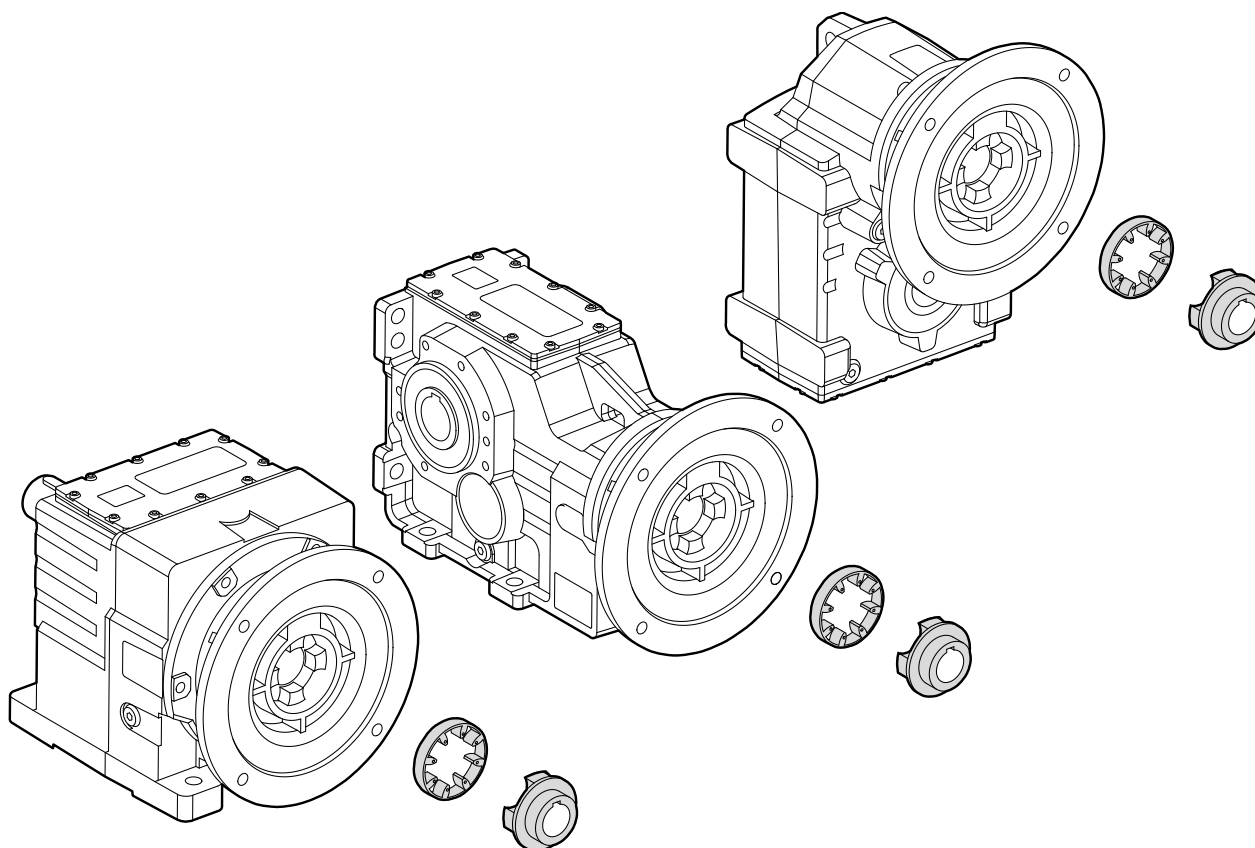


ITB



ITS





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

ITH	-25°C / +50°C
ITB	-25°C / +50°C
ITS	-25°C / +50°C

Campi di temperatura speciali / Special temperature range

	<-15°C	>+50°C
ITH	dimezzare i carichi radiali in uscita <i>halve the output radial loads</i>	usare paraoli in Viton (FPM) <i>use Viton (FPM) oil seals</i> usare lubrificante per alte temperature <i>use high temperature lubricant</i>
ITB	dimezzare i carichi radiali in uscita <i>halve the output radial loads</i>	
ITS	dimezzare i carichi radiali in uscita <i>halve the output radial loads</i>	

Per temperature <0°C riferirsi alle seguenti note:

- verificare che il motore sia idoneo al funzionamento a bassa temperatura;
- assicurarsi che il motore possa fornire maggior coppia di avviamento a causa dell'aumento di viscosità del lubrificante;
- procedere con alcuni minuti di funzionamento a vuoto per garantire l'ottimale lubrificazione;

For temperature <0°C refer to the following notes:

- *check if the motor is suitable for low temperature;*
- *due to the high viscosity of the lubricant, check if the motor can supply high starting torque;*
- *let the group run for a few minutes without load to guarantee good lubrication;*

Installazione e verifiche

In fase di installazione del riduttore è opportuno verificare che:

- i dati riportati in targhetta corrispondano al prodotto che è stato ordinato;
- le superfici di accoppiamento e gli alberi siano accuratamente puliti e privi di ammaccature;
- le superfici su cui verrà installato il riduttore siano perfettamente piane e sufficientemente rigide;
- l'albero macchina e quello del riduttore siano correttamente allineati;
- siano stati installati sistemi di limitazione della coppia se si prevedono urti o blocchi della macchina durante il funzionamento;
- siano state predisposte le necessarie protezioni 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.

Applicazioni critiche

In tutti questi casi consultare il Servizio Tecnico

- utilizzo come moltiplicatore;
- utilizzo come organo di sollevamento;
- utilizzo in posizioni non previste a catalogo;
- utilizzo in ambiente con pressione diversa da quella atmosferica;
- utilizzo in ambiente con temperature $<-25^{\circ}\text{C}$ o $>+50^{\circ}\text{C}$

Installation and inspection

While installing the gearbox always make sure that:

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

Critical applications

In these cases please contact the Technical Service

- used to increase speed ;
- used as a hoist;
- used in mounting positions not shown in the catalogue;
- use in environment pressure other than atmospheric pressure;
- use in places with temperature $<-25^{\circ}\text{C}$ or $>+50^{\circ}\text{C}$

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the modular gearmotor

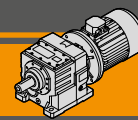
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Motoriduttori ad ingranaggi cilindrici Helical in-line gearmotors

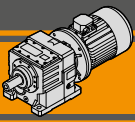




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Carichi radiali in entrata	<i>Input radial loads</i>	B6
Carichi radiali in uscita	<i>Output radial loads</i>	B6
Dati tecnici	<i>Technical data</i>	B7
Dimensioni	<i>Dimensions</i>	B20
Accessori	<i>Accessories</i>	B28

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ITH

Motoriduttori ad ingranaggi cilindrici Helical in-line gearmotors

Caratteristiche tecniche

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

Caratteristiche comuni a tutta la serie sono:

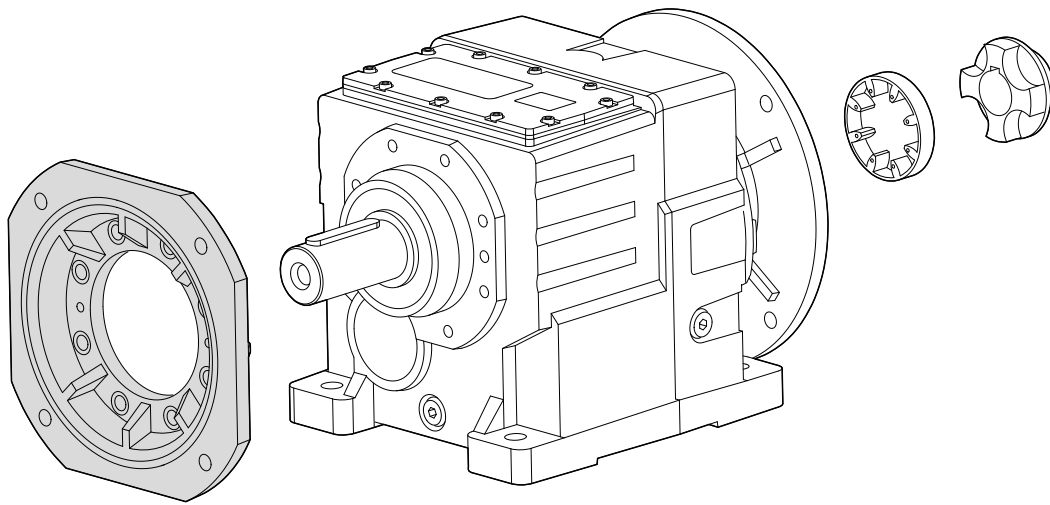
- Costruzione robusta con carcassa in ghisa;
- Elevata modularità;
- Lubrificazione con olio sintetico;
- Accoppiamento al motore tramite giunto elastico.
- Verniciatura a polvere epossidica RAL 7016 di spessore medio 0,10 – 0,15 mm.

Technical features

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

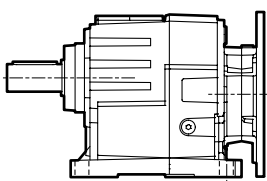
The main features of ITH range are:

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

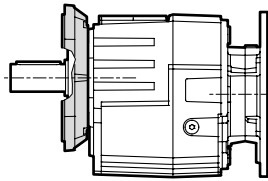


Versioni

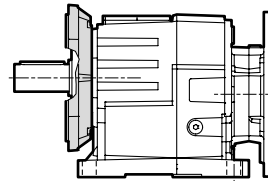
Versions



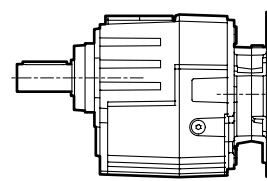
U



F...

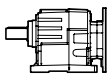


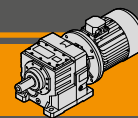
U/F...



G

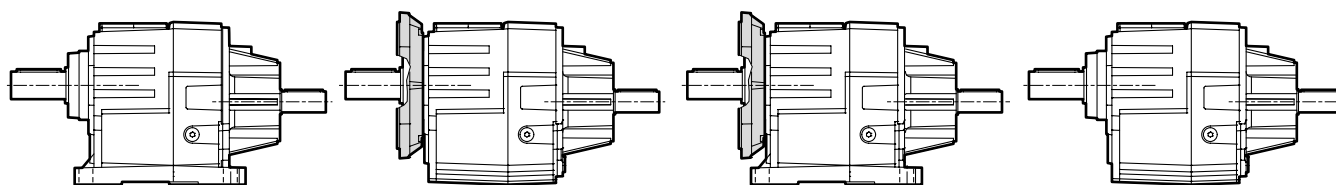
RIDUTTORE / GEARBOX

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



Designazione

Classification



U

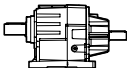
F...

U/F...

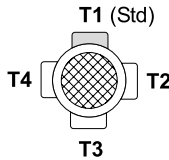
G

ITH

RIDUTTORE / GEARBOX

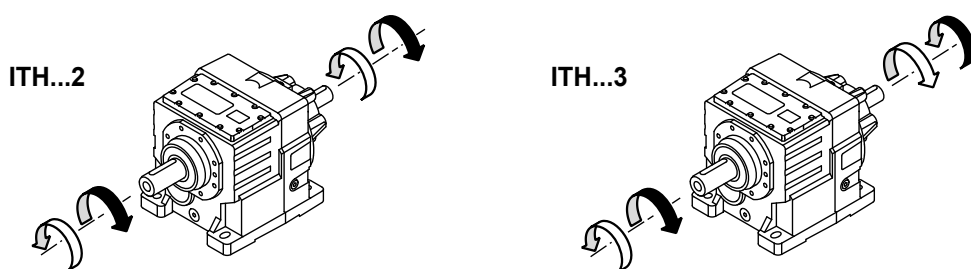
ITHIS	12	2	H	26.28	D40	M1
Tipo Type	Grandezza Size	Stadi Stages	Versione Version	Rapporto Ratio	Albero uscita Output shaft	Pos. di montaggio Mounting position
ITHIS 	11 12 13 14	2 3	U F... U/F... G	vedi tabelle see tables	vedi tabelle see tables	M1 (B3) M2 (V6) M3 (B8) M4 (V5) M5 (B7) M6 (B6)

MOTORE / MOTOR

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

Sensi di rotazione

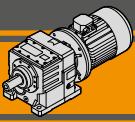
Direction of rotation



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
P_{n1}	[kW]	Potenza nominale in entrata / Nominal input power
M_{n2}	[Nm]	Coppia nominale in uscita in funzione di P_{n1} / Nominal output torque referred to P_{n1}
sf		Fattore di servizio / Service factor
R_1	[N]	Carico radiale ammissibile in entrata / Permitted input radial load
A_1	[N]	Carico assiale ammissibile in entrata / Permitted input axial load
R_2	[N]	Carico radiale ammissibile in uscita / Permitted output radial load
A_2	[N]	Carico assiale ammissibile in uscita / Permitted output axial load

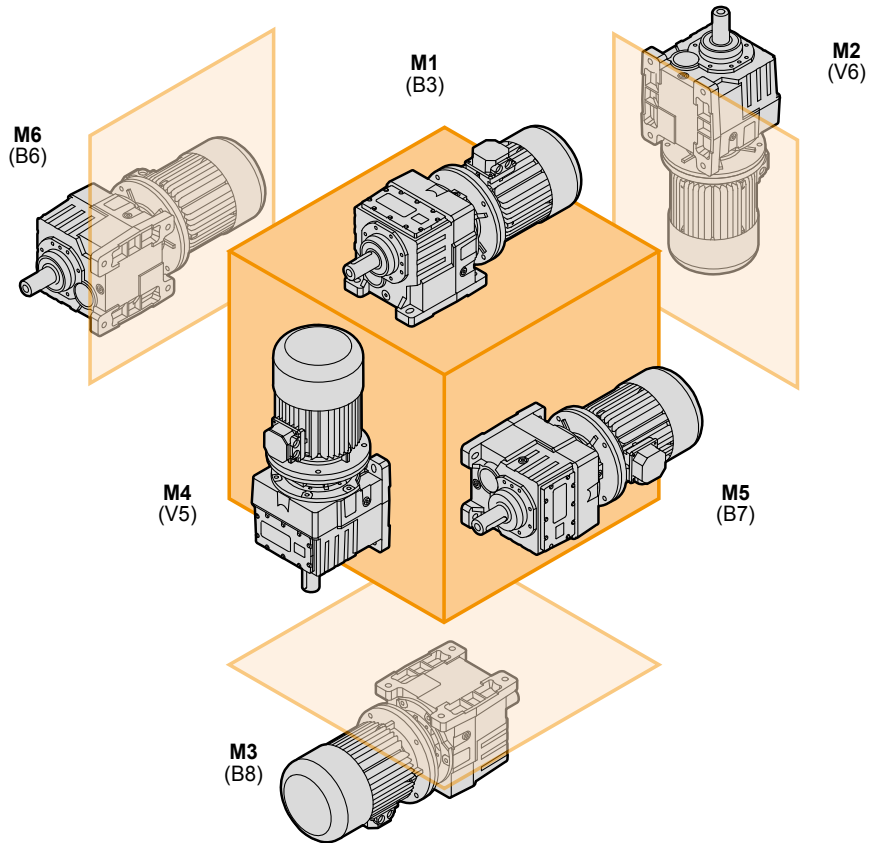


Lubrificazione

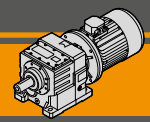
I motoriduttori della serie ITH sono forniti completi di lubrificante sintetico viscosità 320. La quantità di lubrificante dipende dalla posizione di montaggio.

Lubrication

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



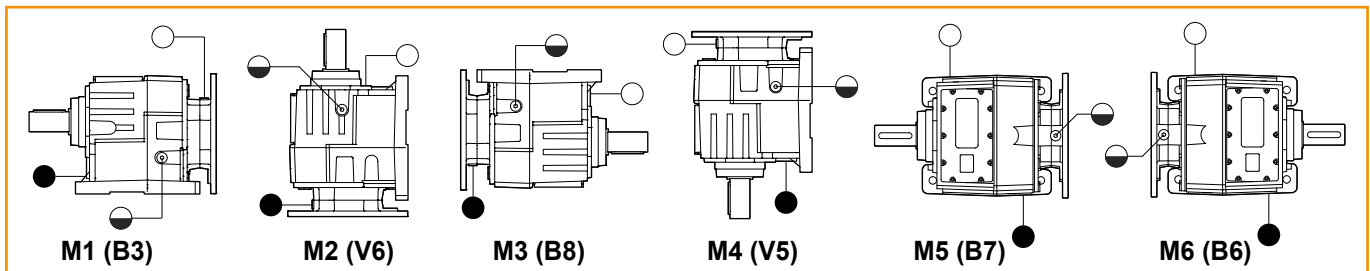
ITH	Quantità di olio (litri) / Oil quantity (litres)					
	M1 (B3)	M2 (V6)	M3 (B8)	M4 (V5)	M5 (B7)	M6 (B6)
112 113	1,1	3,9	3,7	3,4	2,4	2,4
122 123	1,7	5,0	4,3	4,3	3,1	2,9
132 133	4,5	9,5	8,3	8,6	5,9	5,7
142 143	8,1	14,5	11,5	14,4	9,4	9,0



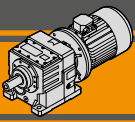
Lubrificazione

Lubrication

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



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



Carichi radiali in entrata

Input Radial loads

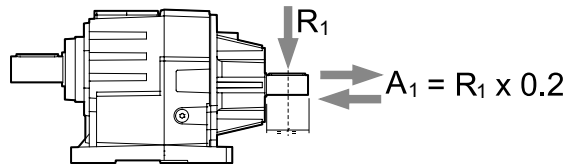
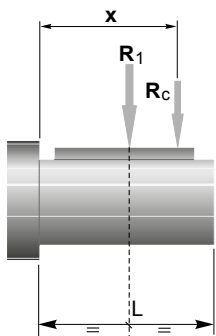
ITH 113	n ₁ [min ⁻¹]	Potenza motore/ Motor Power [kW]		
		1.1	1.5	1.85
R ₁ [N]	1400	1250		
	900	1500		500
	500	1750	-	-

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

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

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

The radial loads maximum output applicable are indicated in the previous tables.
When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:



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

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

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

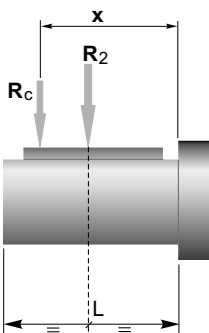
$$R \leq R_c$$

Carichi radiali in uscita

Output Radial loads

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

The radial loads maximum output applicable are indicated in the technical data table.
When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:

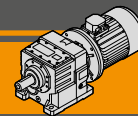


	ITH 112	ITH 113	ITH 122	ITH 123	ITH 132	ITH 133	ITH 142	ITH 143
a	184	208	247	286				
b	149	168	197	226				
R _{2MAX}	8200	12500	18500	22500				

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

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


$$R \leq R_c$$

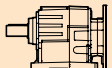


Dati tecnici

n_1 1400 min⁻¹

Technical data

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	R_2 [N]
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	IEC Motori applicabili IEC Motor adapters
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ITHIS 112

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

ITH 112

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

ITHIS 113


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

ITH 113

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

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

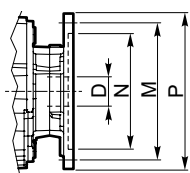
N.B.
Highlighted areas indicate motor inputs available on each size of unit.

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

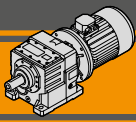
 * = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B11 alla pag. B19.

Before selecting any gearbox, please read the performance values shown in the tables on page B11 to B19.



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




ITH

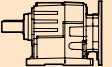
Motoriduttori ad ingranaggi cilindrici
Helical in-line gearmotors

Dati tecnici

n_1 1400 min⁻¹

Technical data

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	R_2 [N]
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	IEC Motori applicabili IEC Motor adapters			
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ITHIS 122

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

ITH 122

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

ITHIS 123


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


ITH 123

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

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

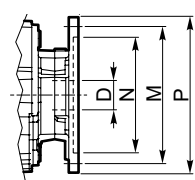
N.B.
Highlighted areas indicate motor inputs available on each size of unit.

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

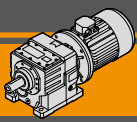
 * = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B11 alla pag. B19.

Before selecting any gearbox, please read the performance values shown in the tables on page B11 to B19.



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



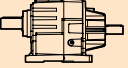
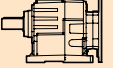
ITH

Motoriduttori ad ingranaggi cilindrici
Helical in-line gearmotors

Dati tecnici

n_1 1400 min⁻¹

Technical data

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

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

N.B.

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



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

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B11 alla pag. B19.

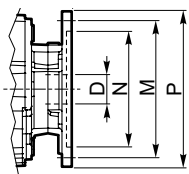
N.B.

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

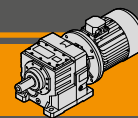


* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

Before selecting any gearbox, please read the performance values shown in the tables on page B11 to B19.







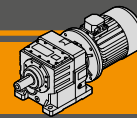
Dimensioni IEC / IEC Dimensions										
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5	200 B5
N	130	130	95	180	110	230	130	250	250	300
M	165	165	115	215	130	265	165	300	300	350
P	200	200	140	250	160	300	200	350	350	400
D	19	24		28		38		42	48	55



Dati tecnici





Technical data

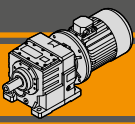
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]	P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]
0.25								0.55							
71A4 (1400 min ⁻¹)	54	43	14	26.16	ITH112	B5	8200	80A4 (1400 min ⁻¹)	260	19	18	5.38	ITH112	B5	4411
	39	60	11	36.35		B5	8200		216	23	15	6.47		B5	4901
	34	68	10	41.57		B5	8200		178	28	14	7.88		B5	5479
	29	79	7.6	48.27		B5	8200		164	31	13	8.54		B5	5736
	24	94	6.4	57.21	B5	8200	155		33	13	9.06	B5		5928	
	25	89	7.9	55.27	ITH113	B5	8200		136	37	11	10.28		B5	6363
	21	108	6.5	67.61		B5	8200		123	41	12	11.39		B5	6737
	19	120	5.8	74.96		B5	8200		112	45	11	12.52		B5	7098
	15	147	4.8	91.70		B5	8200		95	53	9.4	14.80		B5	7783
	13	175	4.0	108.91	B5	8200	77		65	8.1	18.10	B5		8200	
	10	219	3.2	136.65	B5	8200	69		73	7.3	20.25	B5		8200	
	8.5	263	2.7	163.98	B5	8200	60		85	7.1	23.52	B5		8200	
8.1	278	2.5	173.44	B5	8200	54	94	6.4	26.16	B5	8200				
7.6	297	2.4	185.20	B5	8200	49	104	6.3	28.77	B5	8200				
6.9	323	2.2	201.58	B5	8200	44	116	5.9	32.18	B5	8200				
6.6	340	2.1	212.17	B5	8200	39	131	5.2	36.35	B5	8200				
6.2	363	1.9	226.55	B5	8200	34	150	4.5	41.57	B5	8200				
5.7	395	1.8	246.59	B5	8200	29	174	3.5	48.27	B5	8200				
7.9	285	3.4	178.10	ITH123	B5	12500	24	206	2.9	57.21	B5	8200			
6.9	326	3.0	203.65		B5	12500	25	195	3.6	55.27	ITH113	B5	8200		
6.5	346	2.8	216.00		B5	12500	21	238	2.9	67.61		B5	8200		
5.9	379	2.6	236.49		B5	12500	19	264	2.6	74.96		B5	8200		
5.5	410	2.4	256.00	B5	12500	15	323	2.2	91.70	B5		8200			
5.0	449	2.2	280.29	B5	12500	13	384	1.8	108.91	B5	8200				
71B4 (1400 min ⁻¹)	54	63	9.5	26.16	ITH112	B5	8200	10	482	1.5	136.65	B5	8200		
	39	88	7.7	36.35		B5	8200	8.5	578	1.2	163.98	B5	8200		
	34	101	6.8	41.57		B5	8200	8.1	612	1.1	173.44	B5	8200		
	29	117	5.1	48.27		B5	8200	7.6	653	1.1	185.20	B5	8200		
	24	139	4.3	57.21	B5	8200	6.9	711	1.0	201.58	B5	8200			
	25	131	5.3	55.27	ITH113	B5	8200	6.6	748	0.9	212.17	B5	8200		
	21	160	4.4	67.61		B5	8200	53	95	10	26.28	ITH122	B5	12500	
	19	178	3.9	74.96		B5	8200	48	106	9.3	29.40		B5	12500	
	15	218	3.2	91.70		B5	8200	43	116	8.4	32.31		B5	12500	
	13	258	2.7	108.91	B5	8200	39	128	7.7	35.47	B5		12500		
	10	324	2.2	136.65	B5	8200	34	150	6.5	41.78	B5	12500			
	8.5	389	1.8	163.98	B5	8200	31	165	5.9	45.73	B5	12500			
8.1	411	1.7	173.44	B5	8200	28	182	5.4	50.40	B5	12500				
7.6	439	1.6	185.20	B5	8200	25	197	5.0	56.00	ITH123	B5	12500			
6.9	478	1.5	201.58	B5	8200	23	216	4.5	61.31		B5	12500			
6.6	503	1.4	212.17	B5	8200	20	249	3.9	70.53		B5	12500			
6.2	537	1.3	226.55	B5	8200	17	286	3.4	81.00		B5	12500			
5.7	585	1.2	246.59	B5	8200	16	313	3.1	88.68	B5	12500				
7.9	423	2.3	178.10	ITH123	B5	12500	13	371	2.6	105.23	B5	12500			
6.9	483	2.0	203.65		B5	12500	12	406	2.4	115.21	B5	12500			
6.5	512	1.9	216.00		B5	12500	11	454	2.2	128.73	B5	12500			
5.9	561	1.7	236.49		B5	12500	9.7	508	1.9	144.00	B5	12500			
5.5	607	1.6	256.00	B5	12500	8.9	556	1.8	157.66	B5	12500				
5.0	665	1.5	280.29	B5	12500	7.9	628	1.6	178.10	B5	12500				
7.9	423	2.3	178.10	ITH123	B5	12500	6.9	718	1.4	203.65	B5	12500			
6.9	483	2.0	203.65		B5	12500	6.5	762	1.3	216.00	B5	12500			
6.5	512	1.9	216.00		B5	12500	5.9	834	1.2	236.49	B5	12500			
5.9	561	1.7	236.49		B5	12500	5.5	903	1.1	256.00	B5	12500			
5.5	607	1.6	256.00	B5	12500	5.0	988	1.0	280.29	B5	12500				







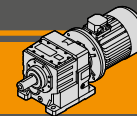
Dati tecnici

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]	P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]		
1.1								1.1									
90S4 (1400 min ⁻¹)	260	39	9.0	5.38	ITH112	B5/14	4354	90S4 (1400 min ⁻¹)	23	430	4.4	60.92	ITH133	B5/14	18500		
	216	47	7.5	6.47		B5/14	4825		22	457	4.2	64.74		B5/14	18500		
	178	57	7.1	7.88		B5/14	5374		20	500	3.8	70.88		B5/14	18500		
	164	62	6.5	8.54		B5/14	5617		18	553	3.4	78.38		B5/14	18500		
	155	65	6.4	9.06		B5/14	5798		16	615	3.1	87.14		B5/14	18500		
	136	74	5.7	10.28		B5/14	6204		15	675	2.8	95.67		B5/14	18500		
	123	82	5.8	11.39		B5/14	6550		13	775	2.5	109.93		B5/14	18500		
	112	90	5.3	12.52		B5/14	6881		12	849	2.2	120.36		B5/14	18500		
	95	107	4.7	14.80		B5/14	7500		10	950	2.0	134.66		B5/14	18500		
	77	130	4.1	18.10		B5/14	8200		9.5	1044	1.8	147.98		B5/14	18500		
	69	146	3.6	20.25		B5/14	8200		8.6	1146	1.7	162.45		B5/14	18500		
	60	169	3.5	23.52		B5/14	8200		7.3	1350	1.4	191.39		B5/14	18500		
	54	188	3.2	26.16		B5/14	8200		6.7	1478	1.3	209.48		B5/14	18500		
	49	207	3.1	28.77		B5/14	8200		6.1	1628	1.2	230.85		B5/14	18500		
	44	232	2.9	32.18		B5/14	8200										
	39	262	2.6	36.35		B5/14	8200										
	34	299	2.3	41.57		B5/14	8200										
	29	348	1.7	48.27		B5/14	8200										
	24	412	1.5	57.21		B5/14	8200										
	25	390	1.8	55.27		ITH113	B5/14	8200		23	435	8.0		61.74	ITH143	B5/14	22500
	21	477	1.5	67.61			B5/14	8200		21	471	7.4		66.73		B5/14	22500
	19	529	1.3	74.96			B5/14	8200		18	560	6.2		79.43		B5/14	22500
	15	647	1.1	91.70			B5/14	8200		16	606	5.8		85.85		B5/14	22500
	13	768	0.9	108.91			B5/14	8200		13	786	4.5		111.40		B5/14	22500
	159	64	10	8.82		ITH122	B5/14	8152		12	849	4.1		120.42	B5/14	22500	
	139	73	10	10.08			B5/14	8778		11	930	3.8		131.84	B5/14	22500	
	123	82	9.2	11.35			B5/14	9371		9.5	1040	3.4		147.51	B5/14	22500	
	105	96	8.9	13.30			B5/14	10218		8.6	1143	3.1		162.10	B5/14	22500	
	88	115	7.4	15.92			B5/14	11257		7.9	1255	2.8		177.95	B5/14	22500	
	82	123	6.9	17.11			B5/14	11698		7.2	1368	2.6		193.96	B5/14	22500	
	72	140	6.1	19.50			B5/14	12500		6.7	1479	2.4		209.65	B5/14	22500	
	65	154	5.8	21.43			B5/14	12500		6.1	1618	2.2		229.46	B5/14	22500	
	58	173	5.7	24.00	B5/14		12500		5.5	1784	2.0	252.87	B5/14	22500			
	53	189	5.2	26.28	B5/14		12500										
	48	212	4.6	29.40	B5/14	12500											
	43	233	4.2	32.31	B5/14	12500											
	39	255	3.8	35.47	B5/14	12500											
	34	301	3.3	41.78	B5/14	12500											
	31	329	3.0	45.73	B5/14	12500											
	28	363	2.7	50.40	B5/14	12500											
	25	395	2.5	56.00	ITH123	B5/14	12500										
	23	432	2.3	61.31		B5/14	12500										
	20	497	2.0	70.53		B5/14	12500										
	17	571	1.7	81.00		B5/14	12500										
	16	626	1.6	88.68		B5/14	12500										
	13	742	1.3	105.23		B5/14	12500										
	12	813	1.2	115.21		B5/14	12500										
	11	908	1.1	128.73		B5/14	12500										
	9.7	1016	1.0	144.00		B5/14	12500										
	8.9	1112	0.9	157.66		B5/14	12500										
	55	185	8.7	25.65	ITH132	B5/14	18500										
	51	198	8.6	27.48		B5/14	18500										
	46	219	7.7	30.46		B5/14	18500										
	40	249	7.6	34.61		B5/14	18500										
	37	272	7.0	37.71		B5/14	18500										
	33	301	6.3	41.80		B5/14	18500										
	31	328	5.8	45.60		B5/14	18500										
	28	359	5.3	49.88		B5/14	18500										
	25	395	2.5	56.00													
	23	432	2.3	61.31													
	20	497	2.0	70.53													
	17	571	1.7	81.00													
	16	626	1.6	88.68													
	13	742	1.3	105.23													
	12	813	1.2	115.21													
	11	908	1.1	128.73													
	9.7	1016	1.0	144.00													
	8.9	1112	0.9	157.66													
	25	395	2.5	56.00													
	23	432	2.3	61.31													
	20	497	2.0	70.53													
	17	571	1.7	81.00													
	16	626	1.6	88.68													
	13	742	1.3	105.23													
	12	813	1.2	115.21													
	11	908	1.1	128.73													
	9.7	1016	1.0	144.00													
	8.9	1112	0.9	157.66													
	25	395	2.5	56.00													
	23	432	2.3	61.31													
	20	497	2.0	70.53													
	17	571	1.7	81.00													
	16	626	1.6	88.68													
	13	742	1.3	105.23													
	12	813	1.2	115.21													
	11	908	1.1	128.73													
	9.7	1016	1.0	144.00													
	8.9	1112	0.9	157.66													
	25	395	2.5	56.00													
	23	432	2.3	61.31													
	20	497	2.0	70.53													
	17	571	1.7	81.00													
	16	626	1.6	88.68													






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

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			R_2 [N]	P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			R_2 [N]
2.2								3.0							
100LA4 (1400 min ⁻¹)	23	871	4.0	61.74	ITH143	B5/14	22500	100LB4 (1400 min ⁻¹)	155	177	5.1	9.03	ITH132	B5/14	18500
	21	941	3.7	66.73		B5/14	22500	136	202	4.7	10.30	B5/14		18500	
	18	1120	3.1	79.43		B5/14	22500	127	216	4.4	11.01	B5/14		18500	
	16	1211	2.9	85.85		B5/14	22500	113	243	4.9	12.39	B5/14		18500	
	13	1572	2.2	111.40		B5/14	22500	95	291	4.1	14.80	B5/14		18500	
	12	1699	2.1	120.42		B5/14	22500	93	297	4.4	15.11	B5/14		18500	
	11	1860	1.9	131.84		B5/14	22500	75	367	4.1	18.69	B5/14		18500	
	9.5	2081	1.7	147.51		B5/14	22500	69	399	4.0	20.31	B5/14		18500	
	8.6	2287	1.5	162.10		B5/14	22500	55	504	3.2	25.65	B5/14		18500	
	7.9	2510	1.4	177.95		B5/14	22500	51	540	3.1	27.48	B5/14		18500	
	7.2	2736	1.3	193.96		B5/14	22500	46	598	2.8	30.46	B5/14		18500	
	6.7	2957	1.2	209.65		B5/14	22500	40	680	2.8	34.61	B5/14		18500	
	6.1	3237	1.1	229.46		B5/14	22500	37	741	2.6	37.71	B5/14		18500	
	5.5	3567	1.0	252.87		B5/14	22500	33	821	2.3	41.80	B5/14		18500	
							31	896	2.1	45.60	B5/14	18500			
							28	980	1.9	49.88	B5/14	18500			
3.0								3.0							
100LB4 (1400 min ⁻¹)	260	106	3.3	5.38	ITH112	B5/14	4157	23	1172	1.6	60.92	ITH133	B5/14	18500	
	216	127	2.8	6.47		B5/14	4561	22	1245	1.5	64.74		B5/14	18500	
	178	155	2.6	7.88		B5/14	5014	20	1363	1.4	70.88		B5/14	18500	
	164	168	2.4	8.54		B5/14	5207	18	1508	1.3	78.38		B5/14	18500	
	155	178	2.4	9.06		B5/14	5348	16	1676	1.1	87.14		B5/14	18500	
	136	202	2.1	10.28		B5/14	5654	15	1840	1.0	95.67		B5/14	18500	
	123	224	2.1	11.39		B5/14	5903								
	112	246	2.0	12.52		B5/14	6130	110	251	8.8	12.78		ITH142	B5/14	22500
	95	291	1.7	14.80		B5/14	6521	99	277	8.3	14.08			B5/14	22500
	77	356	1.5	18.10		B5/14	6946	85	322	7.1	16.40			B5/14	22500
	69	398	1.3	20.25		B5/14	7146	69	398	7.0	20.24			B5/14	22500
	60	462	1.3	23.52		B5/14	7350	54	511	6.3	25.99			B5/14	22500
	54	514	1.2	26.16		B5/14	7437	43	636	5.0	32.35			B5/14	22500
	49	565	1.2	28.77		B5/14	7459	32	856	3.7	43.57			B5/14	22500
	44	632	1.1	32.18		B5/14	7402	30	930	3.4	47.35			B5/14	22500
	39	714	1.0	36.35		B5/14	7212	27	1017	3.1	51.76			B5/14	22500
	271	99	5.5	5.17	ITH122	B5/14	5878	23	1188	2.9	61.74	ITH143		B5/14	22500
	209	131	4.2	6.69		B5/14	6738	21	1284	2.7	66.73			B5/14	22500
	180	153	3.9	7.79		B5/14	7298	18	1528	2.3	79.43			B5/14	22500
	159	173	3.8	8.82		B5/14	7777	16	1651	2.1	85.85			B5/14	22500
	139	198	3.8	10.08		B5/14	8315	13	2143	1.6	111.40			B5/14	22500
	123	223	3.4	11.35		B5/14	8812	12	2316	1.5	120.42			B5/14	22500
	105	261	3.3	13.30		B5/14	9500	11	2536	1.4	131.84			B5/14	22500
	88	313	2.7	15.92		B5/14	10302	9.5	2838	1.2	147.51		B5/14	22500	
	82	336	2.5	17.11		B5/14	10628	8.6	3118	1.1	162.10		B5/14	22500	
	72	383	2.2	19.50		B5/14	11215	7.9	3423	1.0	177.95		B5/14	22500	
	65	421	2.1	21.43		B5/14	11633								
	58	471	2.1	24.00		B5/14	12118								
	53	516	1.9	26.28		B5/14	12487								
	48	578	1.7	29.40		B5/14	12500								
	43	635	1.5	32.31		B5/14	12500								
	39	697	1.4	35.47		B5/14	12500								
	34	821	1.2	41.78	B5/14	12500									
	31	898	1.1	45.73	B5/14	12500									
	28	990	1.0	50.40	B5/14	12500									
	25	1077	0.9	56.00	ITH123	B5/14	12500								
4.0								4.0							
								112M4 (1400 min ⁻¹)	260	141	2.5	5.38	ITH112	B5/14	4053
								216	169	2.1	6.47	B5/14		4422	
								178	206	1.9	7.88	B5/14		4824	
								164	224	1.8	8.54	B5/14		4991	
								155	237	1.8	9.06	B5/14		5111	
								136	269	1.6	10.28	B5/14		5365	
								123	298	1.6	11.39	B5/14		5563	
								112	328	1.5	12.52	B5/14		5735	
								95	388	1.3	14.80	B5/14		6005	
								77	474	1.1	18.10	B5/14		6237	
								69	530	1.0	20.25	B5/14		6299	
								60	616	1.0	23.52	B5/14		6277	

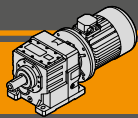


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

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



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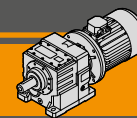
P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			R_2 [N]	
5.5								
132S4 (1400 min ⁻¹)	23	2177	1.6	61.74	ITH143	B5/B14	22500	
	21	2353	1.5	66.73			B5/B14	22500
	18	2801	1.2	79.43			B5/B14	22500
	16	3028	1.2	85.85			B5/B14	22500

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			R_2 [N]	
9.2								
132L4 (1400 min ⁻¹)	260	324	1.1	5.38	ITH112	B5/B14	3514	
	271	305	1.8	5.17			B5/B14	5364
	209	403	1.4	6.69			B5/B14	5949
	180	469	1.3	7.79			B5/B14	6293
	159	531	1.2	8.82			B5/B14	6554
	139	607	1.2	10.08			B5/B14	6805
	123	684	1.1	11.35	ITH132	B5/B14	6989	
	105	801	1.1	13.30			B5/B14	7157
	278	297	2.9	5.03			B5/B14	12784
	230	367	2.3	6.09			B5/B14	13938
	203	416	2.2	6.91			B5/B14	14736
	186	452	2.0	7.51			B5/B14	15266
	167	504	1.8	8.36			B5/B14	15945
	155	544	1.7	9.03			B5/B14	16426
	136	621	1.5	10.30			B5/B14	17221
	127	663	1.4	11.01			B5/B14	17599
	113	747	1.6	12.39	B5/B14	18229		
	95	892	1.3	14.80	B5/B14	18500		
	93	910	1.4	15.11	B5/B14	18500		
	75	1126	1.3	18.69	B5/B14	18500		
	69	1223	1.3	20.31	B5/B14	18500		
	55	1545	1.0	25.65	B5/B14	18500		
	51	1656	1.0	27.48	B5/V14	18104		

7.5										
132MA4 (1400 min ⁻¹)	260	264	1.3	5.38	ITH112	B5/B14	3691			
	216	318	1.1	6.47			B5/B14	3935		
	178	387	1.0	7.88			B5/B14	4160		
	164	420	1.0	8.54			B5/B14	4235		
	155	445	0.9	9.06	ITH122	B5/B14	4282			
	271	249	2.2	5.17			B5/B14	5505		
	209	328	1.7	6.69			B5/B14	6166		
	180	383	1.6	7.79			B5/B14	6569		
	159	433	1.5	8.82			B5/B14	6890		
	139	495	1.5	10.08			B5/B14	7219		
	123	557	1.3	11.35			B5/B14	7489		
	105	653	1.3	13.30			B5/B14	7800		
	88	782	1.1	15.92			B5/B14	8042		
	82	840	1.0	17.11			B5/B14	8094		
	278	242	3.5	5.03			ITH132	B5/B14	13028	
	230	299	2.8	6.09					B5/B14	14276
	203	339	2.7	6.91					B5/B14	15148
	186	369	2.4	7.51					B5/B14	15736
	167	411	2.2	8.36	B5/B14	16503				
	155	444	2.0	9.03	B5/B14	17056				
	136	506	1.9	10.30	B5/B14	17997				
	127	541	1.8	11.01	B5/B14	18461				
	113	609	2.0	12.39	B5/B14	18500				
	95	727	1.7	14.80	B5/B14	18500				
	93	742	1.8	15.11	B5/B14	18500				
	75	918	1.6	18.69	B5/B14	18500				
	69	997	1.6	20.31	B5/B14	18500				
	55	1260	1.3	25.65	B5/B14	18500				
	51	1350	1.3	27.48	B5/B14	18500				
	46	1496	1.1	30.46	B5/B14	18500				
	40	1700	1.1	34.61	B5/B14	18500				
	37	1852	1.0	37.71	B5/B14	18500				
	228	296	6.1	6.15	ITH142	B5/B14	21469			
	190	361	5.0	7.35			B5/B14	22500		
	158	436	4.6	8.88			B5/B14	22500		
	144	479	4.2	9.75			B5/B14	22500		
	135	508	4.1	10.35			B5/B14	22500		
	120	572	3.7	11.65			B5/B14	22500		
	110	627	3.5	12.78			B5/B14	22500		
	99	691	3.3	14.08			B5/B14	22500		
	85	805	2.9	16.40			B5/B14	22500		
	79	871	3.2	17.73			B5/B14	22500		
	69	994	2.8	20.24	B5/B14	22500				
	54	1277	2.5	25.99	B5/B14	22500				
	50	1380	2.3	28.10	B5/B14	22500				
	43	1589	2.0	32.35	B5/B14	22500				
	38	1821	1.8	37.09	B5/B14	22500				
	32	2140	1.5	43.57	B5/B14	22500				
	30	2326	1.4	47.35	B5/B14	22500				
	27	2542	1.3	51.76	B5/B14	22500				
	23	2969	1.2	61.74	ITH143	B5/B14	22500			
	21	3209	1.1	66.73			B5/B14	22500		





	278	363	5.0	6.15	ITH142	B5/B14	21179	
	190	443	4.1	7.35			B5/B14	22500
	158	535	3.7	8.88			B5/B14	22500
	144	587	3.4	9.75			B5/B14	22500
	135	623	3.4	10.35			B5/B14	22500
	120	702	3.0	11.65			B5/B14	22500
	110	770	2.9	12.78			B5/B14	22500
	99	848	2.7	14.08			B5/B14	22500
	85	988	2.3	16.40			B5/B14	22500
	79	1068	2.6	17.73			B5/B14	22500
	69	1219	2.3	20.24			B5/B14	22500
	54	1566	2.0	25.99			B5/B14	22500
	50	1693	1.9	28.10	B5/B14	22500		
	43	1949	1.6	32.35	B5/B14	22500		
	38	2234	1.4	37.09	B5/B14	22500		
	32	2625	1.2	43.57	B5/B14	22500		
	30	2853	1.1	47.35	B5/B14	22500		
	27	3118	1.0	51.76	B5/B14	22500		
	23	3642	1.0	61.74	ITH143	B5/B14	22500	

11.0								
160M4 (1400 min ⁻¹)	278	355	2.4	5.03	ITH132	B5	12525	
	230	439	1.9	6.09			B5	13580
	203	498	1.8	6.91			B5	14299
	186	541	1.7	7.51			B5	14768
	167	602	1.5	8.36			B5	15355
	155	650	1.4	9.03			B5	15759
	136	742	1.3	10.30			B5	16398
	127	793	1.2	11.01			B5	16686
	113	893	1.3	12.39			B5	17128
	95	1066	1.1	14.80			B5	17547
	93	1088	1.2	15.11			B5	17571
	75	1346	1.1	18.69			B5	17421
	69	1463	1.1	20.31			B5	17114



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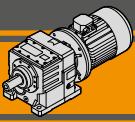
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P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]	P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]					
11.0								22.0												
160M4 (1400 min ⁻¹)	228	434	4.1	6.15	ITH142	B5	20871	180L4 (1400 min ⁻¹)	278	710	1.2	5.03	ITH132	B5	10941					
	190	529	3.4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

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

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

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



ITH

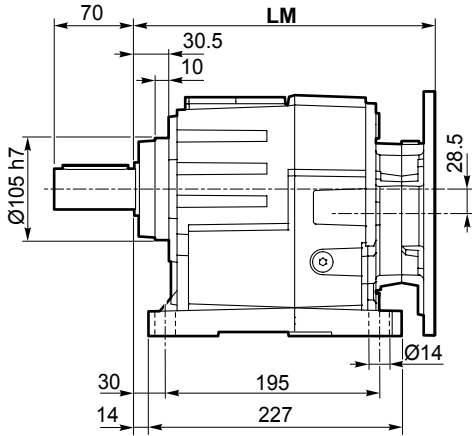
Motoriduttori ad ingranaggi cilindrici
Helical in-line gearmotors

Dimensioni

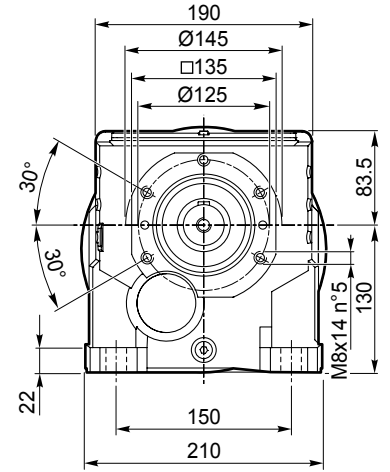
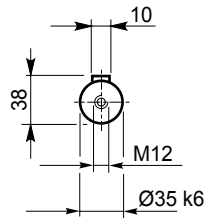
Dimensions

ITH 112 - ITH 113

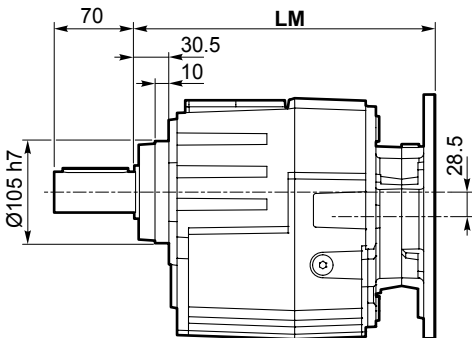
ITH 112 U
ITH 113 U



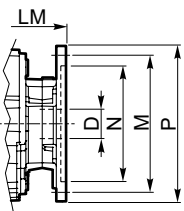
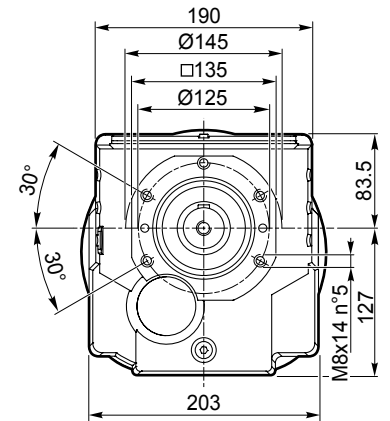
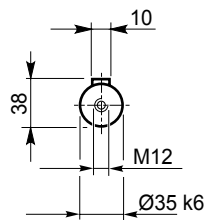
Albero uscita
Output shaft



ITH 112 G
ITH 113 G

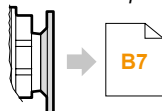


Albero uscita
Output shaft

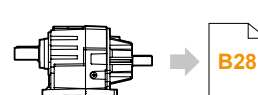


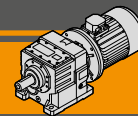
Dimensioni IEC / IEC Dimensions								
	71 B5	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14
LM	289			293,5	293	293,5	314	
N	110	130	130	95	180	110	230	130
M	130	165	165	115	215	130	265	165
P	160	200	200	130	250	160	300	200
D	14	19	24		28		38	

IEC Motori applicabili
IEC Motor adapters



ITHIS 112...
ITHIS 113...



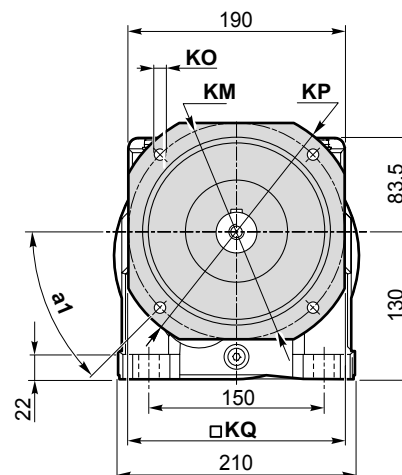
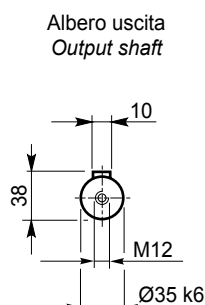
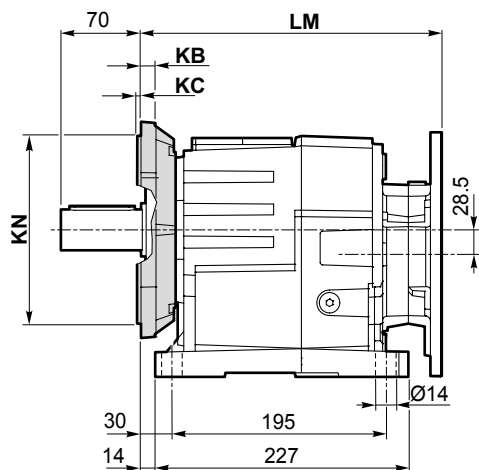


Dimensioni

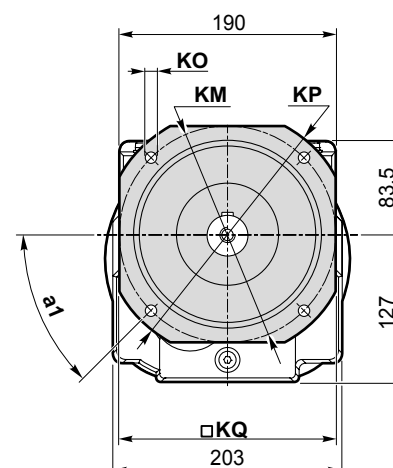
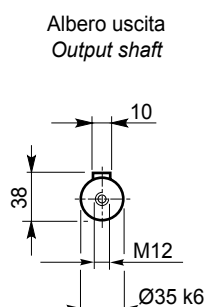
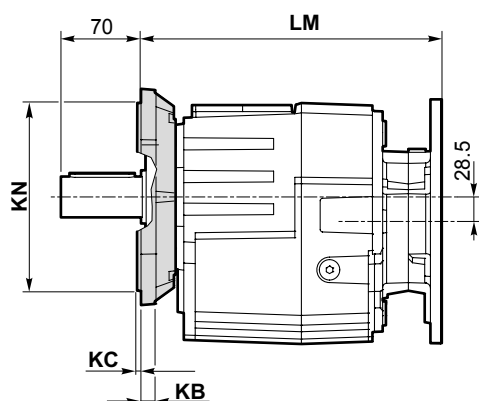
Dimensions

ITH 112 - ITH 113

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



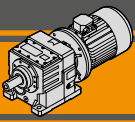
ITH 112 F...
ITH 113 F...



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

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

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

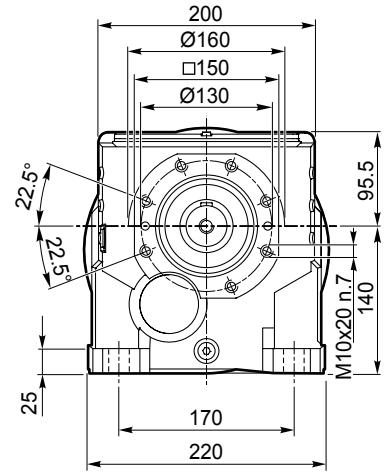
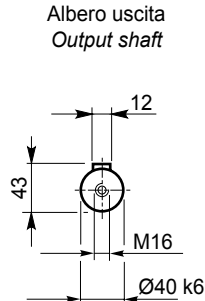
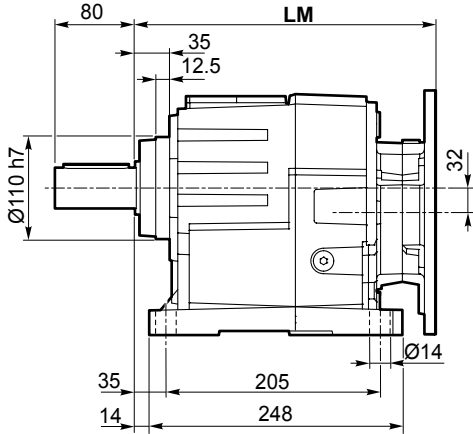


Dimensioni

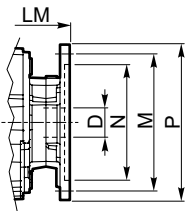
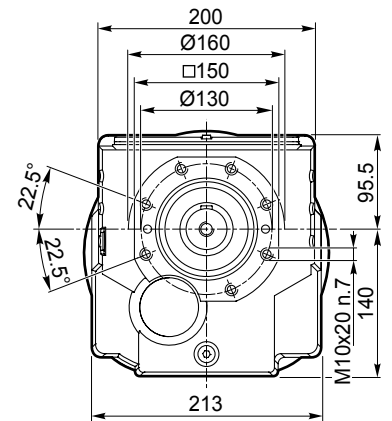
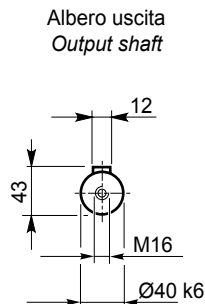
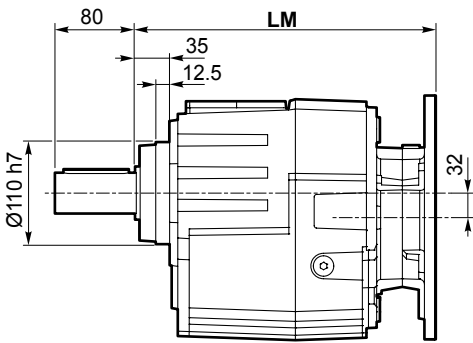
Dimensions

ITH 122 - ITH 123

**ITH 122 U
ITH 123 U**

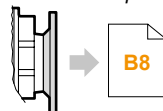


**ITH 122 G
ITH 123 G**

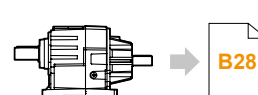


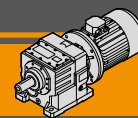
Dimensioni IEC / IEC Dimensions								
	71 B5	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14
LM	309.5			314	313.5	314	334.5	
N	110	130	130	95	180	110	230	130
M	130	165	165	115	215	130	265	165
P	160	200	200	130	250	160	300	200
D	14	19	24		28		38	

IEC Motori applicabili
IEC Motor adapters



ITHIS 122...
ITHIS 123...



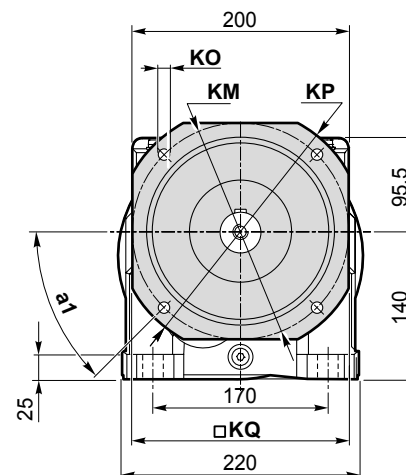
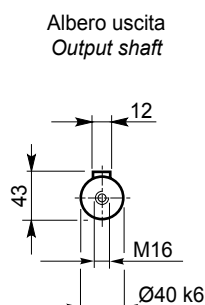
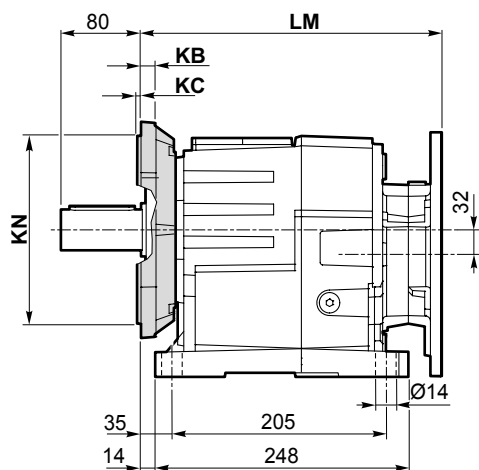


Dimensioni

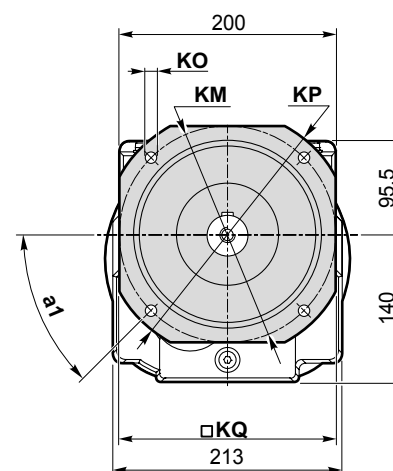
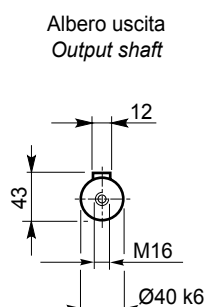
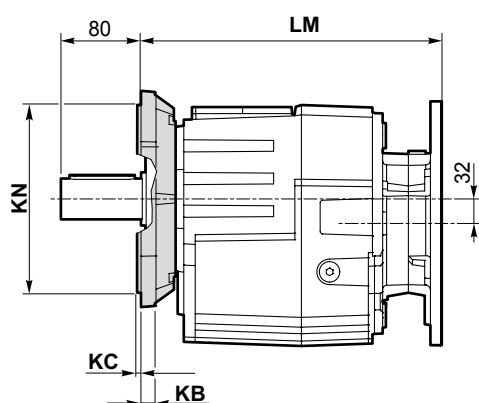
Dimensions

ITH 122- ITH 123

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



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



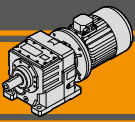
Versione F / F Version

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

Peso / Weight [kg]

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

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

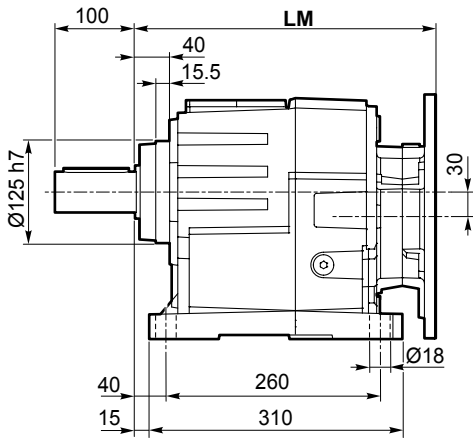


Dimensioni

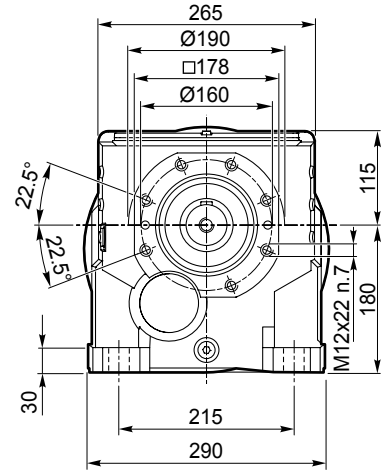
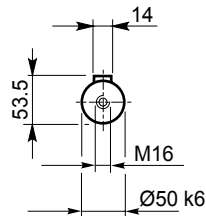
Dimensions

ITH 132 - ITH 133

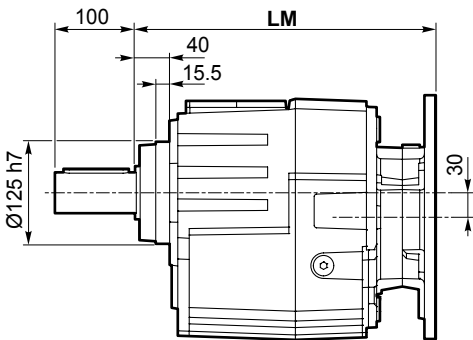
**ITH 132 U
ITH 133 U**



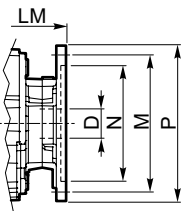
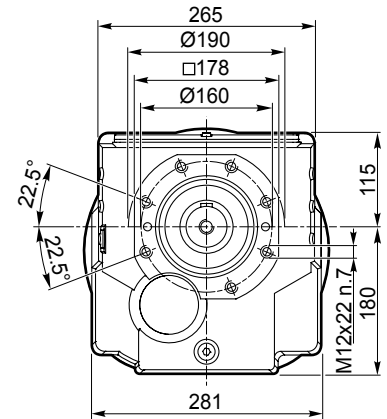
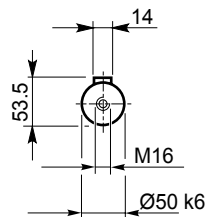
Albero uscita
Output shaft



**ITH 132 G
ITH 133 G**

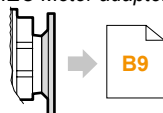


Albero uscita
Output shaft

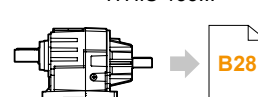


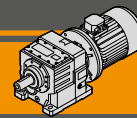
Dimensioni IEC / IEC Dimensions									
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5
LM	340.5		345	344.5	345	365.5		415.5	
N	130		95	180	110	230	130	250	
M	165		115	215	130	265	165	300	
P	200		140	250	160	300	200	350	
D	19	24		28		38		42	48

IEC Motori applicabili
IEC Motor adapters



ITHIS 132...
ITHIS 133...



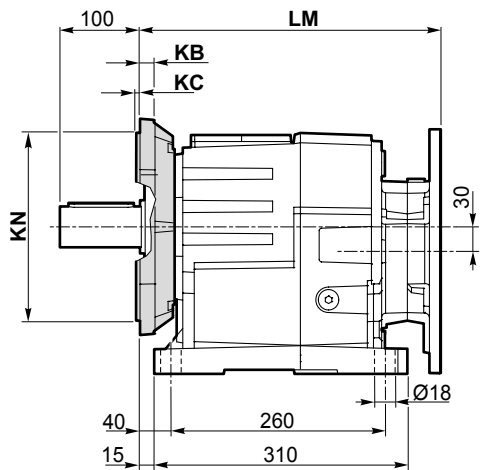


Dimensioni

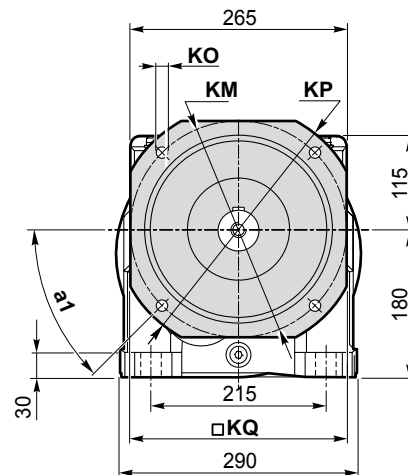
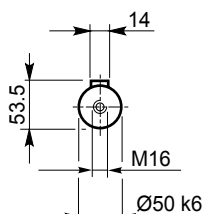
Dimensions

ITH 132- ITH 133

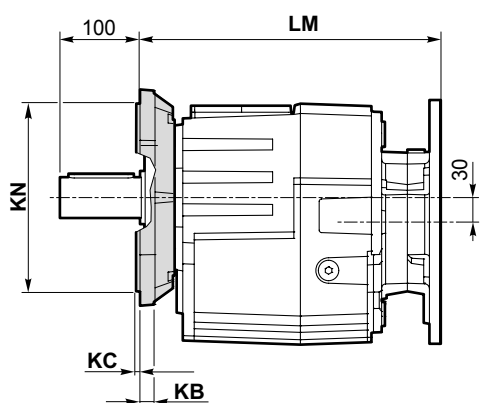
ITH 132 U/F...
ITH 133 U/F...



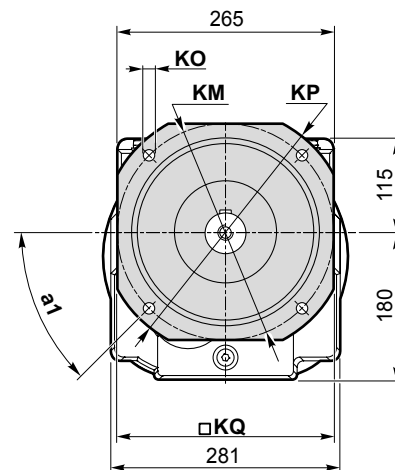
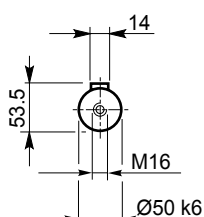
Albero uscita
Output shaft



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



Albero uscita
Output shaft



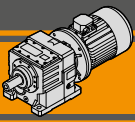
Versione F / F Version

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

Peso / Weight [kg]

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

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

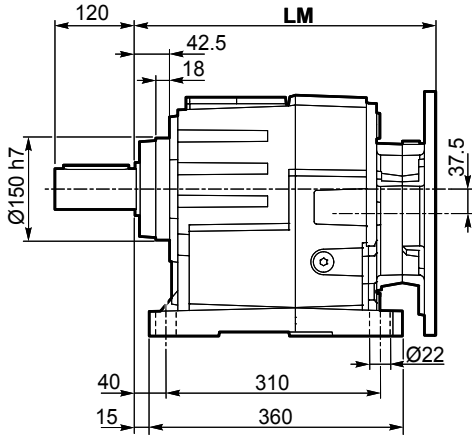


Dimensioni

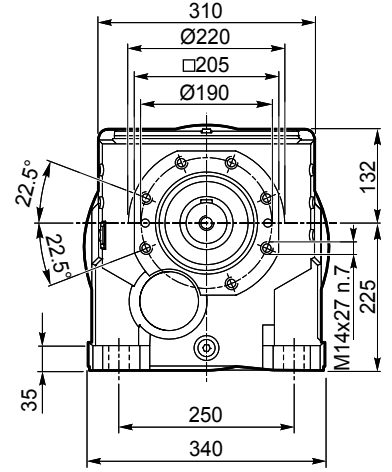
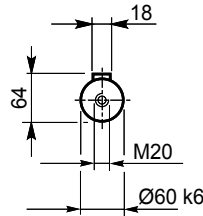
Dimensions

ITH 142 - ITH 143

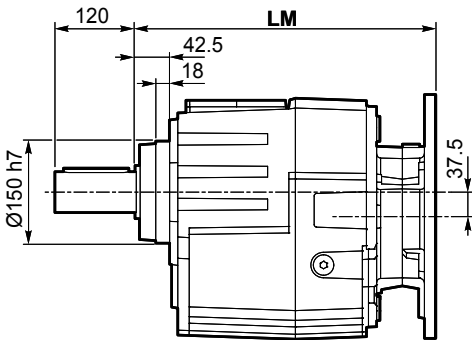
ITH 142 U
ITH 143 U



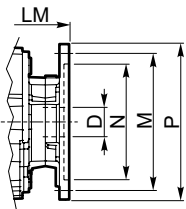
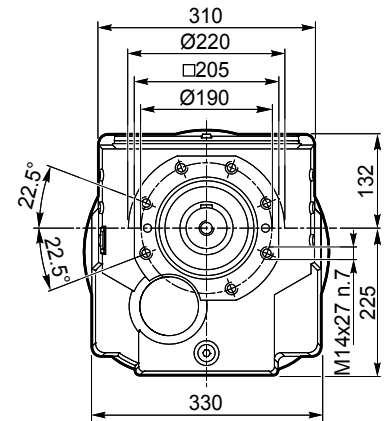
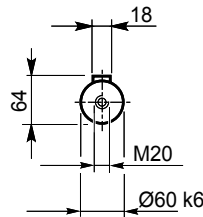
Albero uscita
Output shaft



ITH 142 G
ITH 143 G

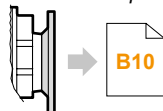


Albero uscita
Output shaft

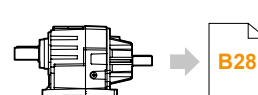


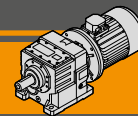
Dimensioni IEC / IEC Dimensions										
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5	200 B5
LM	373.5	378	377.5	378		398.5		448.5		460.5
N	130	95	180	110		230	130	250		300
M	165	115	215	130		265	165	300		350
P	200	140	250	160		300	200	350		400
D	19	24		28		38		42	48	55

IEC Motori applicabili
IEC Motor adapters



ITHIS 142...
ITHIS 143...



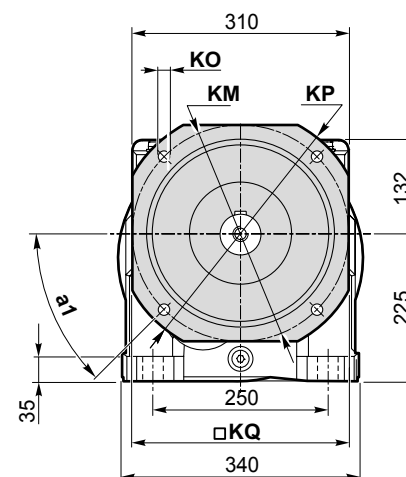
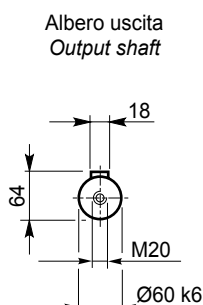
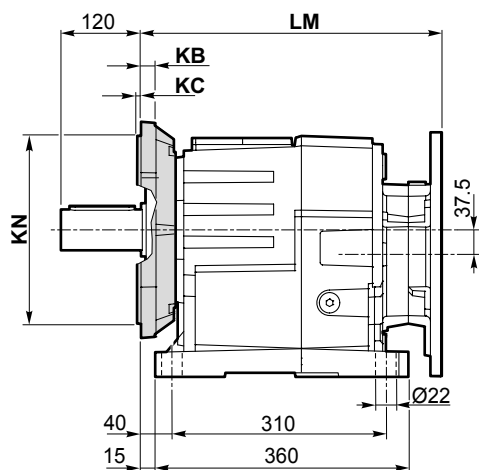


Dimensioni

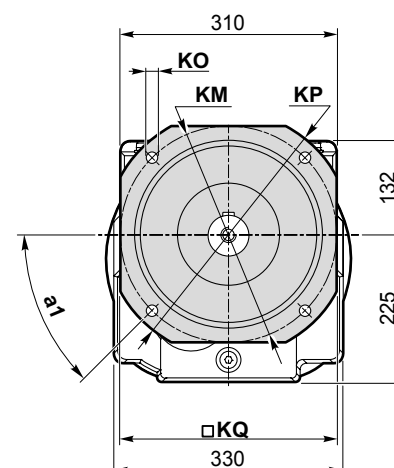
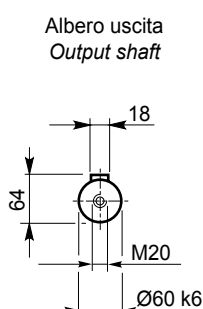
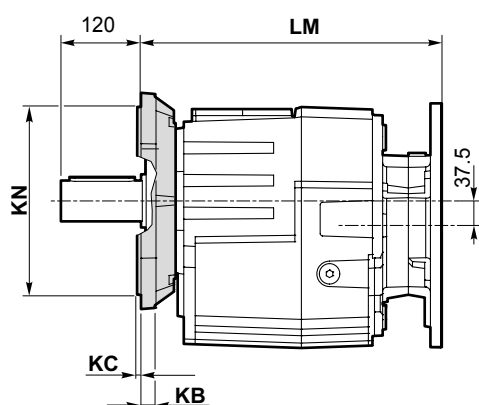
Dimensions

ITH 142- ITH 143

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



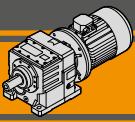
ITH 142 F...
ITH 143 F...



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

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

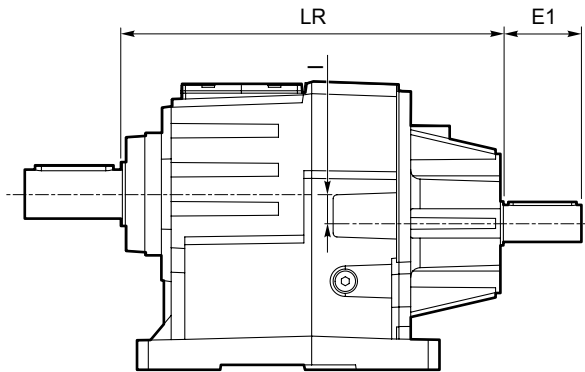
Nota: peso del riduttore complessivo di olio per la posizione M1 (B3)
Note: weight of the gearbox filled with oil for M1 (B3) assembly position



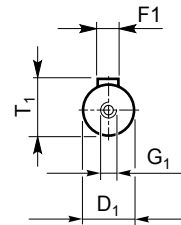
Dimensioni

Dimensions

ITHIS...



Albero entrata
Input shaft



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

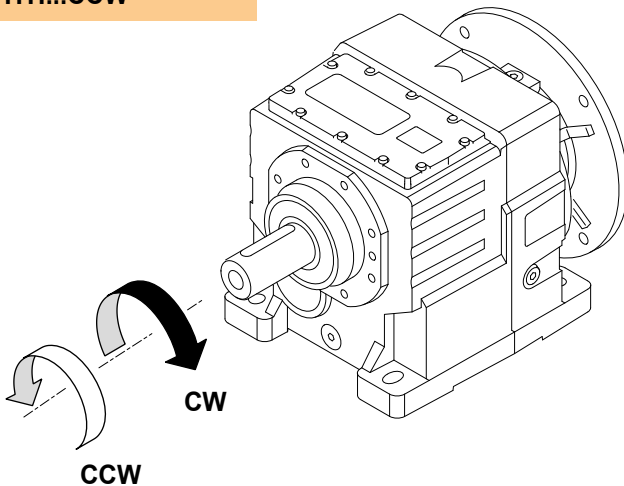
ITHIS	Versione Version	LR	D1	E1	I	T1	F1	G1
112	U G U/F... F...	321.5	28	60	28.5	31	8	M10
113		321.5	24	50	28.5	27	8	M8
122		342	28	60	32	31	8	M10
123		342	28	60	32	31	8	M10
132		390.5	38	80	30	41	10	M12
133		373	28	60	30	31	8	M10
142		423.5	38	80	37.5	41	10	M12
143		406	28	60	37.5	31	8	M10

Accessori

Accessories

Dispositivo antiretro / Backstop device

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



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

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

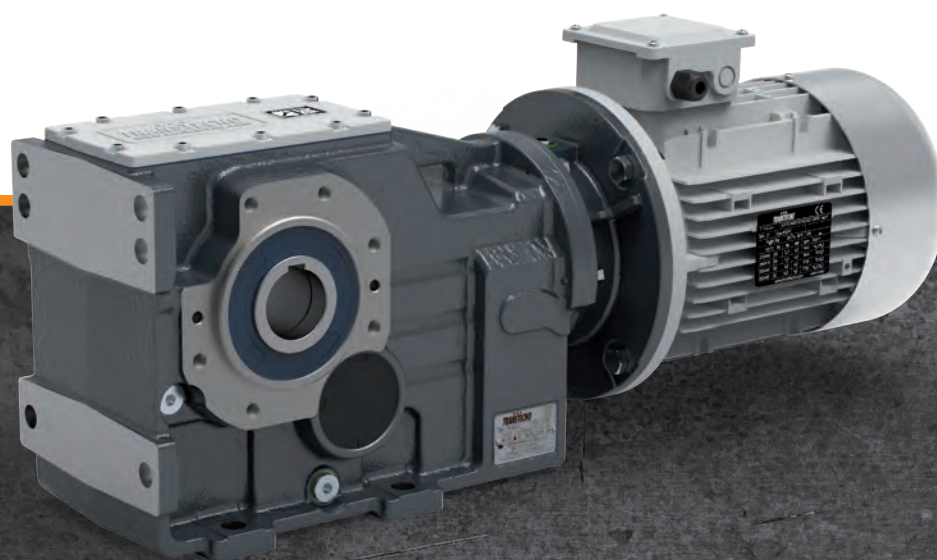
TRANSTECNO[®]
the modular gearmotor

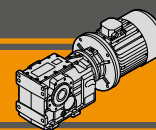
ITB

ITB



Motoriduttori ad assi ortogonali Helical bevel gearmotors

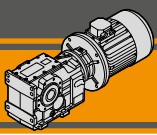




Indice	Index	Pag. Page
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Designazione	<i>Classification</i>	C3
Sensi di rotazione	<i>Direction of rotation</i>	C3
Simbologia	<i>Symbols</i>	C4
Lubrificazione	<i>Lubrication</i>	C4
Carichi radiali in entrata	<i>Input radial loads</i>	C6
Carichi radiali in uscita	<i>Output radial loads</i>	C6
Dati tecnici	<i>Technical data</i>	C7
Dimensioni	<i>Dimensions</i>	C16
Accessori	<i>Accessories</i>	C22

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



Caratteristiche tecniche

Technical features

I motoriduttori 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.

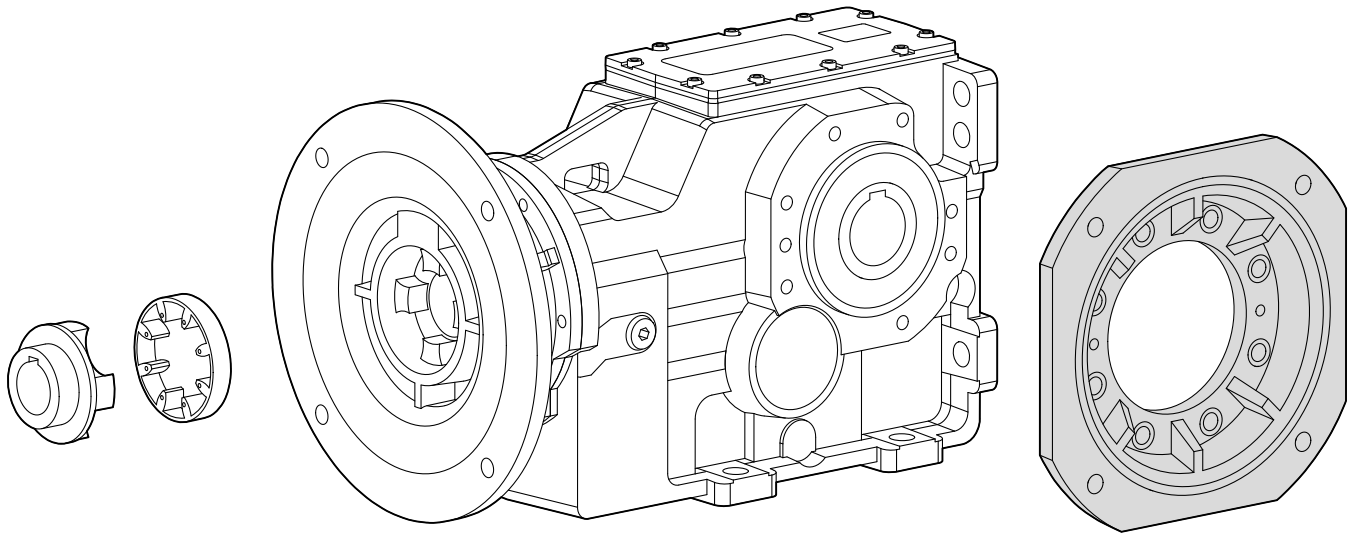
The ITB gearmotors are intended for heavy duty applications. The robust one pieces casing of the main housing and the modular design of input and output sets increase application flexibility.

Caratteristiche comuni a tutta la serie sono:

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

The main features of ITB range are:

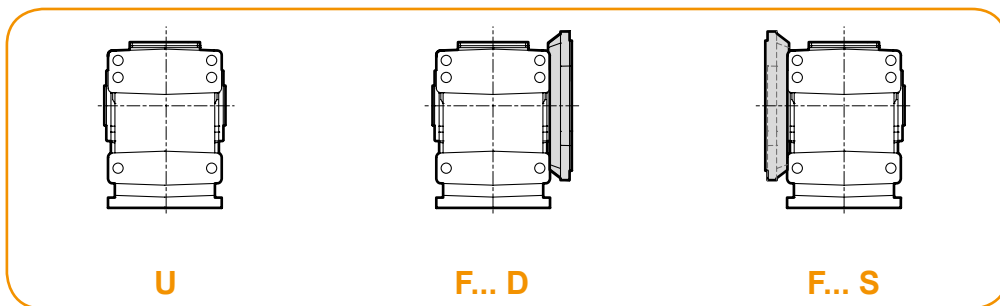
- Robust cast iron housings
- High degree of modularity
- Lubrication with synthetic oil
- Coupled to motor with flexible coupling
- Epoxy powder coating RAL 7016 average thickness 0,10 – 0,15 mm.



Versioni

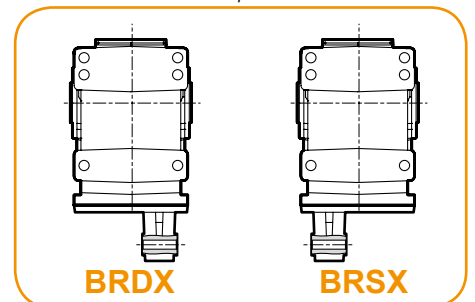
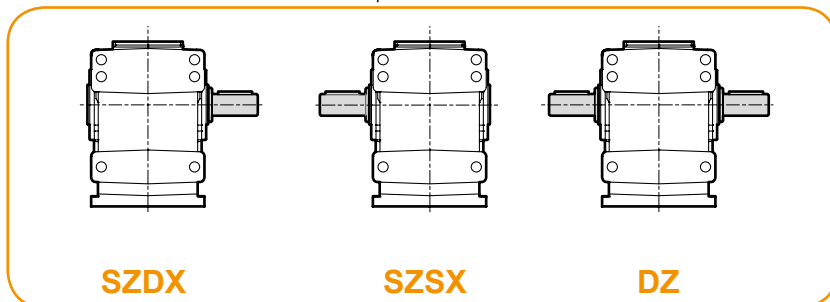
Versions

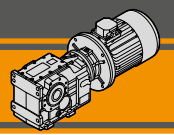
Versione Riduttore
Gearbox Version



Albero di uscita
Output shaft



Braccio di reazione
Torque arm

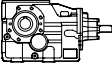


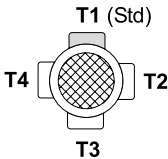


Designazione

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
	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

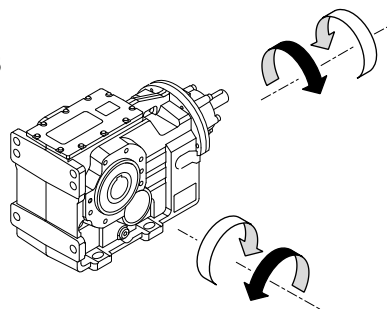
RIDUTTORE / GEARBOX								
ITBIS	42	3	U	20.12	D40	SZDX	BRSX	M1
Tipo Type	Grandezza Size	Stadi Stages	Versione Version	Rapporto Ratio	Albero uscita Output shaft	Albero di uscita Output shaft	Braccio di reaz. Torque arm	Pos. di montaggio Mounting position
	42 43 44	3	U F...D F...S	vedi tabelle see tables	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. morsetiera Terminal box pos.	
vedi tabelle see tables	2p 4p 6p 8p	1ph 3ph	230/400V 220/380V ... 230V	50Hz 60Hz		

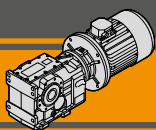
Sensi di rotazione

Direction of rotation

ITB...3



Rotazione inversa disponibile a richiesta.
Inverse rotation on request



Simbologia

Symbols

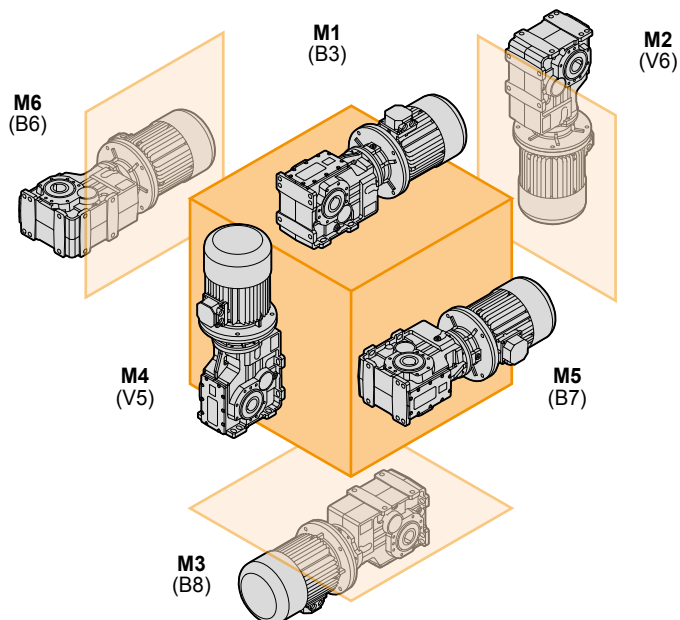
n_1	[min^{-1}]	Velocità in ingresso / <i>Input speed</i>
n_2	[min^{-1}]	Velocità in uscita / <i>Output speed</i>
i		Rapporto di riduzione / <i>Ratio</i>
P_1	[kW]	Potenza in entrata / <i>Input power</i>
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / <i>Output torque referred to P_1</i>
P_{n1}	[kW]	Potenza nominale in entrata / <i>Nominal input power</i>
M_{n2}	[Nm]	Coppia nominale in uscita in funzione di P_{n1} / <i>Nominal output torque referred to P_{n1}</i>
sf		Fattore di servizio / <i>Service factor</i>
R_1	[N]	Carico radiale ammissibile in entrata / <i>Permitted input radial load</i>
A_1	[N]	Carico assiale ammissibile in entrata / <i>Permitted input axial load</i>
R_2	[N]	Carico radiale ammissibile in uscita / <i>Permitted output radial load</i>
A_2	[N]	Carico assiale ammissibile in uscita / <i>Permitted output axial load</i>

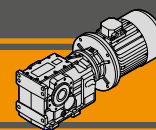
Lubrificazione

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.



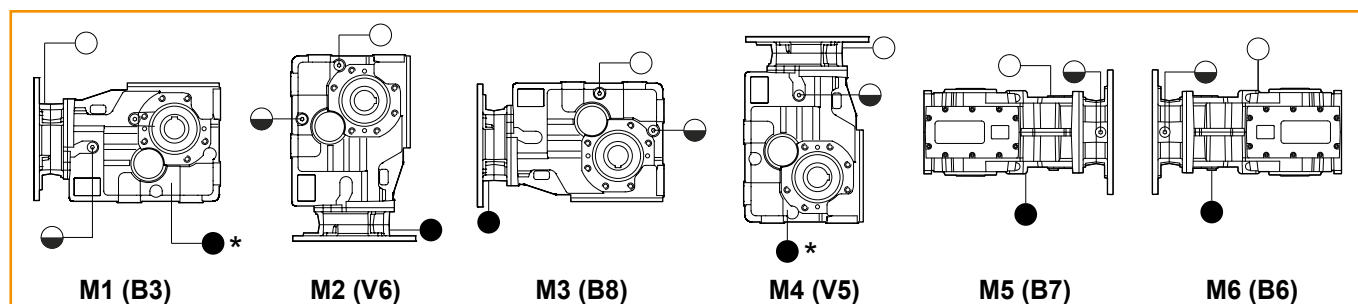


Lubrificazione

Lubrication

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	3.2	2.3
433	4.3	5.1	4.9	7.2	5.3	4.0
443	6.5	8.9	9.0	12.2	8.8	6.7

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	3.4	2.5
433	4.5	5.5	5.1	7.2	5.5	4.2
443	6.9	9.6	9.4	12.2	9.2	7.1



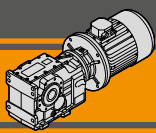
* Tappo di scarico in posizione posteriore

* Oil draining 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	-	-	-

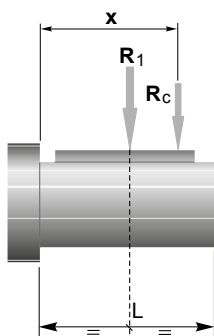
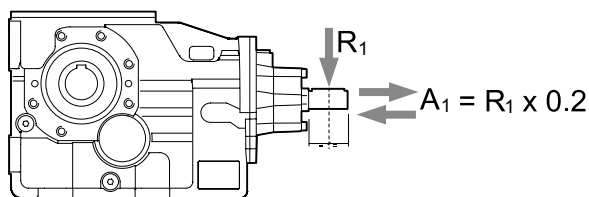
ITB443	n ₁ [min ⁻¹]	Potenza motore/ Motor Power [kW]					
		5.5	7.5	9.2	11.0	15.0	18.5
R1 [N]	1400	3700				2800	1200
	900	4900			3300	650	-
	500	5250	3900	1300	-	-	-

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

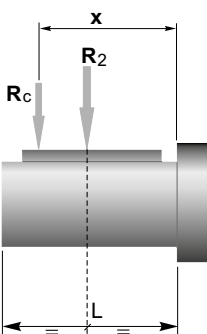
Output radial loads

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:

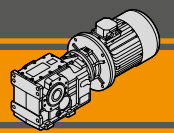


	ITB 423	ITB 433	ITB 443
a	182	218	252
b	142	168	192
R _{2MAX}	18500	23000	31000

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

$$R \leq R_c$$

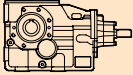
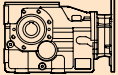
a, b = valori riportati nella tabella
a, b = values given in the table



Dati tecnici

n_1 1400 min⁻¹


Technical data


	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	R_2 [N]		IEC Motori applicabili IEC Motor adapters									
ITBIS 423						ITB 423										
							80B5	90B5/B14	100B5/B14	112B5/B14	132B5/B14					
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						*						

ITB

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

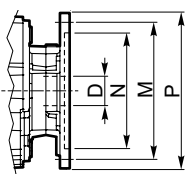
N.B.
Highlighted areas indicate motor inputs available on each size of unit.

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

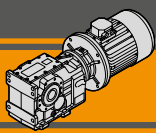
 * = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

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

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



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

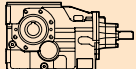
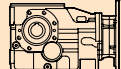


ITB Motoriduttori ad assi ortogonali Helical bevel gearmotors

Dati tecnici

n_1 1400 min⁻¹

Technical data

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	R_2 [N]		IEC Motori applicabili IEC Motor adapters				
ITBIS 433						ITB 433					
						80B5	90B5/B14	100B5/B14	112B5/B14	132B5/B14	160B5
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				*	*		

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.



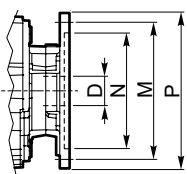
* = Il fattore di servizio (**sf**) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.

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

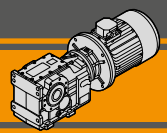


* = The service factor (**sf**) has to be selected depending on application: please contact our Technical Department.

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



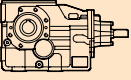
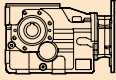
Dimensioni IEC / IEC Dimensions								
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5
N	130	130	95	180	110	230	130	250
M	165	165	115	215	130	265	165	300
P	200	200	140	250	160	300	200	350
D	19	24		28		38		42



Dati tecnici

n_1 1400 min⁻¹

Technical data

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	R_2 [N]		IEC Motori applicabili IEC Motor adapters					
ITBIS 443						ITB 443						
						80B5	90B5/B14	100B5/B14	112B5/B14	132B5/B14	160B5	180B5
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					*	*		

ITB

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.



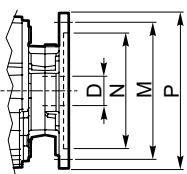
* = Il fattore di servizio (**sf**) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.

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

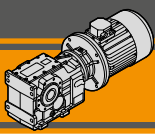


* = The service factor (**sf**) has to be selected depending on application: please contact our Technical Department.

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







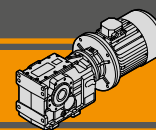
Dimensioni IEC / IEC Dimensions									
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5
N	130	130	95	180	110	230	130	250	250
M	165	165	115	215	130	265	165	300	300
P	200	200	140	250	160	300	200	350	350
D	19	24		28		38		42	48



Dati tecnici





Technical data

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			R_2 [N]	P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			R_2 [N]		
0.55								0.75									
80A4 (1400 min ⁻¹)	191	26	19	7.34	ITB423	B5	11001	80B4 (1400 min ⁻¹)	191	35	14	7.34	ITB423	B5	10973		
	153	32	15	9.16		B5	12403		153	44	11	9.16		B5	12364		
	118	42	14	11.85		B5	14255		118	57	11	11.85		B5	14197		
	90	55	11	15.64		B5	16545		90	75	8.0	15.64		B5	16455		
	76	65	11	18.32		B5	18005		76	88	7.9	18.32		B5	17891		
	70	71	9.9	20.12		B5	18500		70	97	7.2	20.12		B5	18500		
	61	81	9.9	22.85		B5	18500		61	110	7.3	22.85		B5	18500		
	50	100	8.0	28.22		B5	18500		50	136	5.9	28.22		B5	18500		
	47	104	8.2	29.57		B5	18500		47	142	6.0	29.57		B5	18500		
	45	109	7.8	30.90		B5	18500		45	149	5.7	30.90		B5	18500		
	40	122	7.0	34.57		B5	18500		40	166	5.1	34.57		B5	18500		
	37	134	6.3	37.99		B5	18500		37	183	4.7	37.99		B5	18500		
	36	138	6.5	39.01		B5	18500		36	188	4.8	39.01		B5	18500		
	34	147	6.1	41.70		B5	18500		34	201	4.5	41.70		B5	18500		
	29	173	5.2	49.13		B5	18500		29	236	3.8	49.13		B5	18500		
	28	177	5.1	50.19		B5	18500		28	241	3.7	50.19		B5	18500		
	26	190	4.7	53.77		B5	18500		26	259	3.5	53.77		B5	18500		
	24	209	4.3	59.26		B5	18500		24	285	3.2	59.26		B5	18500		
	20	248	3.6	70.40		B5	18500		20	339	2.7	70.40		B5	18500		
	18	272	3.5	77.08		B5	18500		18	371	2.6	77.08		B5	18500		
	16	304	3.1	86.24		B5	18500		16	415	2.3	86.24		B5	18500		
	15	334	2.8	94.77		B5	18500		15	456	2.1	94.77		B5	18500		
	13	367	2.6	104.04		B5	18500		13	500	1.9	104.04		B5	18500		
	11	432	2.2	122.57		B5	18500		11	589	1.6	122.57		B5	18500		
	10	473	2.0	134.15	B5	18500		10	645	1.5	134.15	B5	18500				
	9.5	521	1.8	147.84	B5	18500		9.5	711	1.3	147.84	B5	18500				
	25	197	9.1	55.98	ITB433	B5	23000		41	166	10	34.55	ITB433	B5	23000		
	23	212	7.5	60.14		B5	23000		36	186	9.1	38.66		B5	23000		
	21	234	6.8	66.27		B5	23000		33	204	8.3	42.48		B5	23000		
	18	277	6.5	78.52		B5	23000		32	209	8.6	43.51		B5	23000		
	16	303	5.9	85.97		B5	23000		30	224	8.0	46.64		B5	23000		
	15	339	5.3	96.19		B5	23000		25	269	6.7	55.98		B5	23000		
	13	373	4.8	105.70		B5	23000		23	289	5.5	60.14		B5	23000		
	12	409	4.4	116.04		B5	23000		21	319	5.0	66.27		B5	23000		
	10	482	3.7	136.71		B5	23000		18	378	4.8	78.52		B5	23000		
	9.4	528	3.4	149.63		B5	23000		16	413	4.4	85.97		B5	23000		
	8.5	582	3.1	164.89		B5	23000		15	463	3.9	96.19		B5	23000		
	11	438	8.0	124.32		ITB443	B5	31000		13	508	3.5		105.70	ITB443	B5	31000
	10	478	7.3	135.45			B5	31000		12	558	3.2		116.04		B5	31000
	9.3	530	6.6	150.15			B5	31000		10	657	2.7		136.71		B5	31000
	8.5	578	6.1	163.80			B5	31000		9.4	720	2.5		149.63		B5	31000
	7.8	632	5.5	179.16			B5	31000		8.5	793	2.3		164.89		B5	31000
									19	351	10	72.94	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				

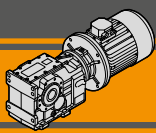


Dati tecnici

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]	P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]		
1.1								1.5									
90S4 (1400 min ⁻¹)	191	52	9.7	7.34	ITB423	B5/B14	10925	90L4 (1400 min ⁻¹)	191	71	7.1	7.34	ITB423	B5/B14	10870		
	153	65	7.7	9.16		B5/B14	12295		153	88	5.7	9.16		B5/B14	12218		
	118	84	7.2	11.85		B5/B14	14095		118	114	5.3	11.85		B5/B14	13979		
	90	110	5.4	15.64		B5/B14	16299		90	150	4.0	15.64		B5/B14	16120		
	76	129	5.4	18.32		B5/B14	17692		76	176	4.0	18.32		B5/B14	17463		
	70	142	4.9	20.12		B5/B14	18500		70	194	3.6	20.12		B5/B14	18298		
	61	161	5.0	22.85		B5/B14	18500		61	220	3.6	22.85		B5/B14	18500		
	50	199	4.0	28.22		B5/B14	18500		50	271	2.9	28.22		B5/B14	18500		
	47	209	4.1	29.57		B5/B14	18500		47	284	3.0	29.57		B5/B14	18500		
	45	218	3.9	30.90		B5/B14	18500		45	297	2.9	30.90		B5/B14	18500		
	40	244	3.5	34.57		B5/B14	18500		40	332	2.6	34.57		B5/B14	18500		
	37	268	3.2	37.99		B5/B14	18500		37	365	2.3	37.99		B5/B14	18500		
	36	275	3.3	39.01		B5/B14	18500		36	375	2.4	39.01		B5/B14	18500		
	34	294	3.1	41.70		B5/B14	18500		34	401	2.2	41.70		B5/B14	18500		
	29	347	2.6	49.13		B5/B14	18500		29	473	1.9	49.13		B5/B14	18500		
	28	354	2.5	50.19		B5/B14	18500		28	483	1.9	50.19		B5/B14	18500		
	26	379	2.4	53.77		B5/B14	18500		26	517	1.7	53.77		B5/B14	18500		
	24	418	2.2	59.26		B5/B14	18500		24	570	1.6	59.26		B5/B14	18500		
	20	497	1.8	70.40		B5/B14	18500		20	677	1.3	70.40		B5/B14	18500		
	18	544	1.7	77.08		B5/B14	18500		18	741	1.3	77.08		B5/B14	18500		
	16	608	1.6	86.24		B5/B14	18500		16	829	1.1	86.24		B5/B14	18500		
	15	668	1.4	94.77		B5/B14	18500		15	912	1.0	94.77		B5/B14	18500		
	13	734	1.3	104.04		B5/B14	18500		13	1001	0.9	104.04		B5/B14	18500		
	11	865	1.1	122.57		B5/B14	18500		106	127	10	13.25		ITB433	B5/B14	18711	
	10	946	1.0	134.15		B5/B14	18500		80	168	8.3	17.49			B5/B14	21650	
	9.5	1043	0.9	147.84		B5/B14	18500		69	197	8.1	20.44			B5/B14	23000	
	55	180	9.5	25.49		ITB433	B5/B14	23000		62	216	7.9			22.50	B5/B14	23000
	44	223	7.6	31.56			B5/B14	23000		55	245	6.9			25.49	B5/B14	23000
	42	233	7.3	32.98			B5/B14	23000		44	304	5.6			31.56	B5/B14	23000
	41	244	7.0	34.55			B5/B14	23000		42	317	5.4			32.98	B5/B14	23000
	36	273	6.2	38.66	B5/B14		23000		41	332	5.1	34.55	B5/B14		23000		
	33	300	5.7	42.48	B5/B14		23000		36	372	4.6	38.66	B5/B14		23000		
	32	307	5.9	43.51	B5/B14		23000		33	409	4.2	42.48	B5/B14		23000		
	30	329	5.5	46.64	B5/B14		23000		32	419	4.3	43.51	B5/B14		23000		
	25	395	4.6	55.98	B5/B14		23000		30	449	4.0	46.64	B5/B14		23000		
	23	424	3.8	60.14	B5/B14		23000		25	538	3.3	55.98	B5/B14		23000		
	21	467	3.4	66.27	B5/B14		23000		23	578	2.8	60.14	B5/B14		23000		
	18	554	3.3	78.52	B5/B14		23000		21	637	2.5	66.27	B5/B14		23000		
	16	606	3.0	85.97	B5/B14		23000		18	755	2.4	78.52	B5/B14		23000		
	15	678	2.7	96.19	B5/B14		23000		16	827	2.2	85.97	B5/B14		23000		
	13	746	2.4	105.70	B5/B14		23000		15	925	1.9	96.19	B5/B14		23000		
	12	818	2.2	116.04	B5/B14		23000		13	1017	1.8	105.70	B5/B14		23000		
	10	964	1.9	136.71	B5/B14		23000		12	1116	1.6	116.04	B5/B14		23000		
	9.4	1055	1.7	149.63	B5/B14		23000		10	1315	1.4	136.71	B5/B14	23000			
	8.5	1163	1.5	164.89	B5/B14		23000		9.4	1439	1.3	149.63	B5/B14	23000			
	35	278	10	39.46	ITB443		B5/B14	31000		8.5	1586	1.1	164.89	B5/B14	23000		
	31	314	10	44.51		B5/B14	31000		38	356	8.4	37.01	ITB443	B5/B14	31000		
	29	336	8.3	47.67		B5/B14	31000		35	380	7.4	39.46		B5/B14	31000		
	26	383	8.4	54.26		B5/B14	31000		31	428	7.5	44.51		B5/B14	31000		
	19	515	6.8	72.94		B5/B14	31000		29	458	6.1	47.67		B5/B14	31000		
	15	650	5.4	92.14		B5/B14	31000		26	522	6.1	54.26		B5/B14	31000		
	11	877	4.0	124.32		B5/B14	31000		19	702	5.0	72.94		B5/B14	31000		
	10	955	3.7	135.45		B5/B14	31000		15	886	3.9	92.14		B5/B14	31000		
	9.3	1059	3.3	150.15		B5/B14	31000		11	1196	2.9	124.32		B5/B14	31000		
	8.5	1155	3.0	163.80		B5/B14	31000		10	1303	2.7	135.45		B5/B14	31000		
	7.8	1264	2.8	179.16	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				

ITB







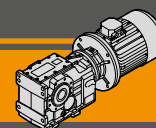
ITB Motoriduttori ad assi ortogonali

Helical bevel gearmotors

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



Technical data

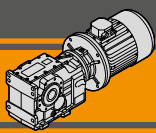
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]	P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]		
1.85								2.2									
90LB4 (1400 min ⁻¹)	191	87	5.7	7.34	ITB423	B5/B14	10821	100LA4 (1400 min ⁻¹)	191	104	4.8	7.34	ITB423	B5/B14	10773		
	153	109	4.6	9.16		B5/B14	12149		153	129	3.9	9.16		B5/B14	12081		
	118	141	4.3	11.85		B5/B14	13877		118	167	3.6	11.85		B5/B14	13776		
	90	186	3.2	15.64		B5/B14	15964		90	221	2.7	15.64		B5/B14	15808		
	76	217	3.2	18.32		B5/B14	17264		76	258	2.7	18.32		B5/B14	17064		
	70	239	2.9	20.12		B5/B14	18067		70	284	2.5	20.12		B5/B14	17836		
	61	271	3.0	22.85		B5/B14	18500		61	322	2.5	22.85		B5/B14	18500		
	50	335	2.4	28.22		B5/B14	18500		50	398	2.0	28.22		B5/B14	18500		
	47	351	2.4	29.57		B5/B14	18500		47	417	2.0	29.57		B5/B14	18500		
	45	367	2.3	30.90		B5/B14	18500		45	436	2.0	30.90		B5/B14	18500		
	40	410	2.1	34.57		B5/B14	18500		40	488	1.7	34.57		B5/B14	18500		
	37	451	1.9	37.99		B5/B14	18500		37	536	1.6	37.99		B5/B14	18500		
	36	463	1.9	39.01		B5/B14	18500		36	550	1.6	39.01		B5/B14	18500		
	34	495	1.8	41.70		B5/B14	18500		34	588	1.5	41.70		B5/B14	18500		
	29	583	1.5	49.13		B5/B14	18500		29	693	1.3	49.13		B5/B14	18500		
	28	595	1.5	50.19		B5/B14	18500		28	708	1.3	50.19		B5/B14	18500		
	26	638	1.4	53.77		B5/B14	18500		26	759	1.2	53.77		B5/B14	18500		
	24	703	1.3	59.26		B5/B14	18500		24	836	1.1	59.26		B5/B14	18500		
	20	835	1.1	70.40		B5/B14	18500										
	18	914	1.0	77.08		B5/B14	18500		170	116	8.6	8.21		ITB433	B5/B14	14406	
	16	1023	0.9	86.24		B5/B14	18500		137	145	6.9	10.25			B5/B14	16193	
						ITB433	B5/B14	14449	106	187	7.0	13.25			B5/B14	18530	
	170	97	10	8.21			B5/B14	16254		80	247	5.7			17.49	B5/B14	21372
	137	122	8.2	10.25			B5/B14	18620		69	288	5.6			20.44	B5/B14	23000
	106	157	8.3	13.25			B5/B14	21511		62	317	5.4			22.50	B5/B14	23000
	80	207	6.7	17.49			B5/B14	23000		55	360	4.7			25.49	B5/B14	23000
	69	242	6.6	20.44			B5/B14	23000		44	445	3.8			31.56	B5/B14	23000
	62	267	6.4	22.50			B5/B14	23000		42	465	3.7			32.98	B5/B14	23000
	55	302	5.6	25.49			B5/B14	23000		41	487	3.5			34.55	B5/B14	23000
	44	374	4.5	31.56			B5/B14	23000		36	545	3.1		38.66	B5/B14	23000	
	42	391	4.3	32.98			B5/B14	23000		33	599	2.8		42.48	B5/B14	23000	
	41	410	4.1	34.55	B5/B14	23000		32	614	2.9	43.51	B5/B14	23000				
	36	459	3.7	38.66	B5/B14	23000		30	658	2.7	46.64	B5/B14	23000				
	33	504	3.4	42.48	B5/B14	23000		25	790	2.3	55.98	B5/B14	23000				
	32	516	3.5	43.51	B5/B14	23000		23	848	1.9	60.14	B5/B14	23000				
	30	553	3.3	46.64	B5/B14	23000		21	935	1.7	66.27	B5/B14	23000				
	25	664	2.7	55.98	B5/B14	23000		18	1108	1.6	78.52	B5/B14	23000				
	23	713	2.2	60.14	B5/B14	23000		16	1213	1.5	85.97	B5/B14	23000				
	21	786	2.0	66.27	B5/B14	23000		15	1357	1.3	96.19	B5/B14	23000				
	18	931	1.9	78.52	B5/B14	23000		13	1491	1.2	105.70	B5/B14	23000				
	16	1020	1.8	85.97	B5/B14	23000		12	1637	1.1	116.04	B5/B14	23000				
	15	1141	1.6	96.19	B5/B14	23000						ITB443	B5/B14	31000			
	13	1254	1.4	105.70	B5/B14	23000		38	522	5.7	37.01		B5/B14	31000			
	12	1376	1.3	116.04	B5/B14	23000		35	557	5.0	39.46		B5/B14	31000			
	10	1622	1.1	136.71	B5/B14	23000		31	628	5.1	44.51		B5/B14	31000			
	9.4	1775	1.0	149.63	B5/B14	23000		29	672	4.2	47.67		B5/B14	31000			
					ITB443	B5/B14	31000	26	765	4.2	54.26		B5/B14	31000			
	38	439	6.8	37.01		B5/B14	31000		19	1029	3.4		72.94	B5/B14	31000		
	35	468	6.0	39.46		B5/B14	31000		15	1300	2.7		92.14	B5/B14	31000		
	31	528	6.1	44.51		B5/B14	31000		11	1754	2.0		124.32	B5/B14	31000		
	29	565	5.0	47.67		B5/B14	31000		10	1911	1.8		135.45	B5/B14	31000		
	26	644	5.0	54.26		B5/B14	31000		9.3	2118	1.7	150.15	B5/B14	31000			
	19	865	4.0	72.94		B5/B14	31000		8.5	2311	1.5	163.80	B5/B14	31000			
	15	1093	3.2	92.14		B5/B14	31000		7.8	2527	1.4	179.16	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											



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



Technical data

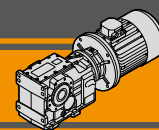
P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			R_2 [N]	P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			R_2 [N]	
3								4								
100LB4 (1400 min ⁻¹)	191	141	3.5	7.34	ITB423	B5/B14	10662	112M4 (1400 min ⁻¹)	191	188	2.7	7.34	ITB423	B5/B14	10524	
	153	176	2.8	9.16		B5/B14	11925		153	235	2.1	9.16		B5/B14	11730	
	118	228	2.6	11.85		B5/B14	13543		118	304	2.0	11.85		B5/B14	13253	
	90	301	2.0	15.64		B5/B14	15451		90	401	1.5	15.64		B5/B14	15005	
	76	352	2.0	18.32		B5/B14	16608		76	470	1.5	18.32		B5/B14	16037	
	70	387	1.8	20.12		B5/B14	17308		70	516	1.4	20.12		B5/B14	16649	
	61	440	1.8	22.85		B5/B14	18277		61	586	1.4	22.85		B5/B14	17474	
	50	543	1.5	28.22		B5/B14	18500		50	724	1.1	28.22		B5/B14	18500	
	47	569	1.5	29.57		B5/B14	18500		47	758	1.1	29.57		B5/B14	18500	
	45	594	1.4	30.90		B5/B14	18500		45	792	1.1	30.90		B5/B14	18500	
	40	665	1.3	34.57		B5/B14	18500		40	887	1.0	34.57		B5/B14	18500	
	37	731	1.2	37.99		B5/B14	18500									
	36	750	1.2	39.01		B5/B14	18500		170	211	4.7	8.21		ITB433	B5/B14	14184
	34	802	1.1	41.70		B5/B14	18500		137	263	3.8	10.25			B5/B14	15881
	29	945	1.0	49.13		B5/B14	18500		106	340	3.8	13.25			B5/B14	18064
	170	158	6.3	8.21	ITB433	B5/B14	14307	80	449	3.1	17.49	B5/B14	20656			
	137	197	5.1	10.25		B5/B14	16054		69	524	3.1	20.44	B5/B14		22213	
	106	255	5.1	13.25		B5/B14	18323		62	577	2.9	22.50	B5/B14		23000	
	80	336	4.2	17.49		B5/B14	21054		55	654	2.6	25.49	B5/B14		23000	
	69	393	4.1	20.44		B5/B14	22719		44	809	2.1	31.56	B5/B14		23000	
	62	433	3.9	22.50		B5/B14	23000		42	846	2.0	32.98	B5/B14		23000	
	55	490	3.5	25.49		B5/B14	23000		41	886	1.9	34.55	B5/B14		23000	
	44	607	2.8	31.56		B5/B14	23000		36	992	1.7	38.66	B5/B14		23000	
	42	634	2.7	32.98		B5/B14	23000		33	1090	1.6	42.48	B5/B14		23000	
	41	665	2.6	34.55		B5/B14	23000		32	1116	1.6	43.51	B5/B14		23000	
	36	744	2.3	38.66		B5/B14	23000		30	1196	1.5	46.64	B5/B14		23000	
	33	817	2.1	42.48		B5/B14	23000		25	1436	1.3	55.98	B5/B14		23000	
	32	837	2.2	43.51		B5/B14	23000		23	1542	1.0	60.14	B5/B14	23000		
	30	897	2.0	46.64		B5/B14	23000									
	25	1077	1.7	55.98		B5/B14	23000		38	949	3.2	37.01	ITB443	B5/B14	31000	
	23	1157	1.4	60.14	B5/B14	23000		35	1012	2.8	39.46	B5/B14		31000		
	21	1275	1.3	66.27	B5/B14	23000		31	1142	2.8	44.51	B5/B14		31000		
	18	1510	1.2	78.52	B5/B14	23000		29	1223	2.3	47.67	B5/B14		31000		
	16	1654	1.1	85.97	B5/B14	23000		26	1392	2.3	54.26	B5/B14		31000		
	15	1850	1.0	96.19	B5/B14	23000		19	1871	1.9	72.94	B5/B14		31000		
	38	712	4.2	37.01	ITB443	B5/B14	31000	15	2363	1.5	92.14	B5/B14		31000		
	35	759	3.7	39.46		B5/B14	31000		11	3189	1.1	124.32		B5/B14	31000	
	31	856	3.7	44.51		B5/B14	31000		10	3474	1.0	135.45		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									



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

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]	P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]	
5.5								7.5								
132S4 (1400 min ⁻¹)	191	259	1.9	7.34	ITB423	B5/B14	10316	132MA4 (1400 min ⁻¹)	191	353	1.4	7.34	ITB423	B5/B14	10040	
	153	323	1.5	9.16		B5/B14	11438		153	441	1.1	9.16		B5/B14	11049	
	118	418	1.4	11.85		B5/B14	12817		118	570	1.1	11.85		B5/B14	12236	
	90	552	1.1	15.64		B5/B14	14335									
	76	646	1.1	18.32	ITB433	B5/B14	15181		170	395	2.5	8.21	ITB433	B5/B14	13753	
	70	710	1.0	20.12		B5/B14	15659		137	493	2.0	10.25		B5/B14	15274	
	61	806	1.0	22.85		B5/B14	16268		106	637	2.0	13.25		B5/B14	17159	
						B5/B14			80	841	1.7	17.49		B5/B14	19266	
	170	290	3.5	8.21		B5/B14	13999		69	983	1.6	20.44	B5/B14	20442		
	137	361	2.8	10.25		B5/B14	15621		62	1082	1.6	22.50	B5/B14	21150		
	106	467	2.8	13.25		B5/B14	17676		55	1226	1.4	25.49	B5/B14	22027		
	80	617	2.3	17.49		B5/B14	20060		44	1518	1.1	31.56	B5/B14	23000		
	69	721	2.2	20.44		B5/B14	21454		42	1586	1.1	32.98	B5/B14	23000		
	62	794	2.1	22.50		B5/B14	22325		41	1662	1.0	34.55	B5/B14	23000		
	55	899	1.9	25.49		B5/B14	23000									
	44	1113	1.5	31.56		B5/B14	23000		178	379	4.5	7.88	ITB443	B5/B14	19836	
	42	1163	1.5	32.98		B5/B14	23000		147	458	3.7	9.53		B5/B14	21860	
	41	1219	1.4	34.55		B5/B14	23000		119	565	3.2	11.75		B5/B14	24271	
	36	1363	1.2	38.66		B5/B14	23000		99	680	2.9	14.13		B5/B14	26562	
	33	1498	1.1	42.48		B5/B14	23000		81	828	2.8	17.23		B5/B14	29182	
	32	1535	1.2	43.51		B5/B14	23000		60	1114	2.5	23.16		B5/B14	31000	
	30	1645	1.1	46.64		B5/B14	23000		56	1194	2.5	24.82		B5/B14	31000	
						ITB443	B5/B14	20029		47	1444	2.1		30.03	B5/B14	31000
	178	278	6.1	7.88			B5/B14	22120		38	1780	1.7		37.01	B5/B14	31000
	147	336	5.1	9.53	B5/B14		24631		35	1898	1.5	39.46		B5/B14	31000	
	119	414	4.3	11.75	B5/B14		27041		31	2141	1.5	44.51		B5/B14	31000	
	99	498	4.0	14.13	B5/B14		29833		29	2292	1.2	47.67		B5/B14	31000	
	81	607	3.8	17.23	B5/B14		31000		26	2609	1.2	54.26		B5/B14	31000	
	60	817	3.4	23.16	B5/B14		31000		19	3508	1.0	72.94		B5/B14	31000	
	56	875	3.4	24.82	B5/B14		31000									
	47	1059	2.8	30.03	B5/B14		31000									
	38	1305	2.3	37.01	B5/B14		31000									
	35	1392	2.0	39.46	B5/B14	31000										
	31	1570	2.0	44.51	B5/B14	31000										
	29	1681	1.7	47.67	B5/B14	31000										
	26	1914	1.7	54.26	B5/B14	31000										
	19	2573	1.4	72.94	B5/B14	31000										
	15	3249	1.1	92.14	B5/B14	31000										
9.2								9.2								
								132L4 (1400 min ⁻¹)	191	433	1.2	7.34	ITB423	B5/B14	9805	
									170	485	2.1	8.21		ITB433	B5/B14	13544
									137	604	1.7	10.25	B5/B14		14979	
									106	782	1.7	13.25	B5/B14		16720	
									80	1032	1.4	17.49	B5/B14		18590	
									69	1206	1.3	20.44	B5/B14		19582	
									62	1327	1.3	22.50	B5/B14		20152	
									55	1504	1.1	25.49	B5/B14		20815	
									178	465	3.7	7.88	ITB443		B5/B14	19671
									147	562	3.0	9.53			B5/B14	21639
									119	693	2.6	11.75			B5/B14	23966
									99	834	2.4	14.13			B5/B14	26156
									81	1016	2.3	17.23			B5/B14	28629
									60	1366	2.0	23.16			B5/B14	31000
									56	1464	2.0	24.82		B5/B14	31000	
									47	1772	1.7	30.03		B5/B14	31000	
									38	2183	1.4	37.01		B5/B14	31000	
									35	2328	1.2	39.46		B5/B14	31000	
									31	2626	1.2	44.51	B5/B14	31000		
									29	2812	1.0	47.67	B5/B14	31000		
									26	3201	1.0	54.26	B5/B14	31000		





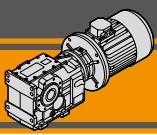
Dati tecnici

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			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			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

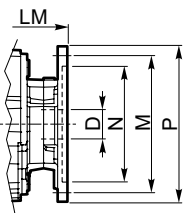
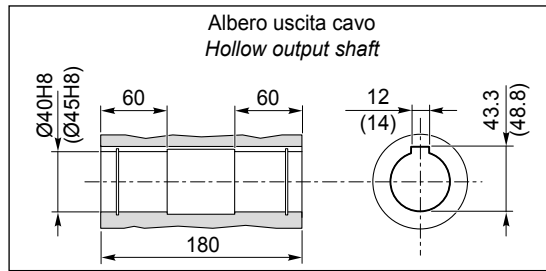
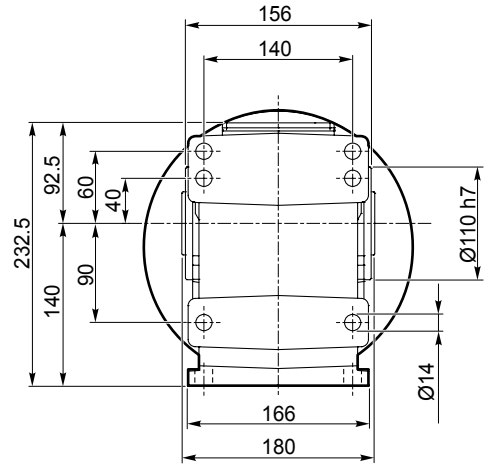
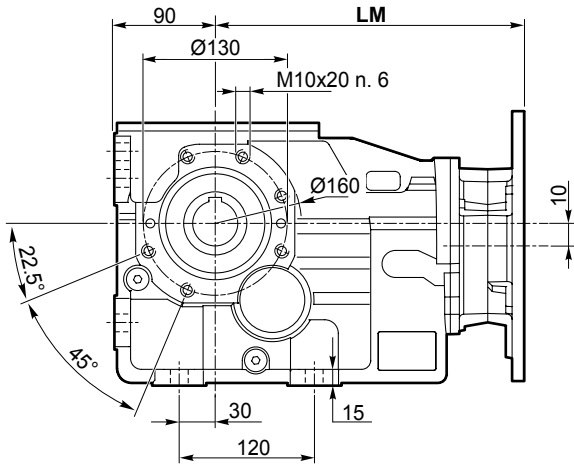


Dimensioni

Dimensions

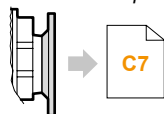
ITB 423 U

ITB 423 U

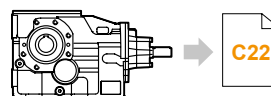


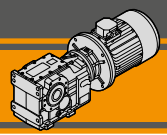
Dimensioni IEC / IEC Dimensions							
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14
LM	279.5	279.5	284	283.5	284	304.5	
N	130	130	95	180	110	230	130
M	165	165	115	215	130	265	165
P	200	200	140	250	160	300	200
D	19	24		28		38	

IEC Motori applicabili
IEC Motor adapters



ITBIS 423..



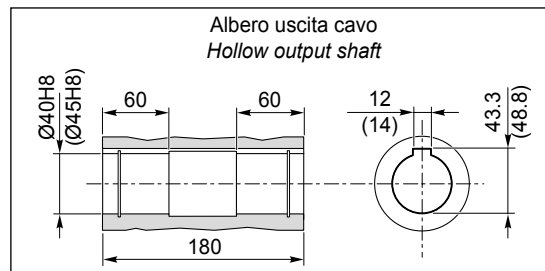
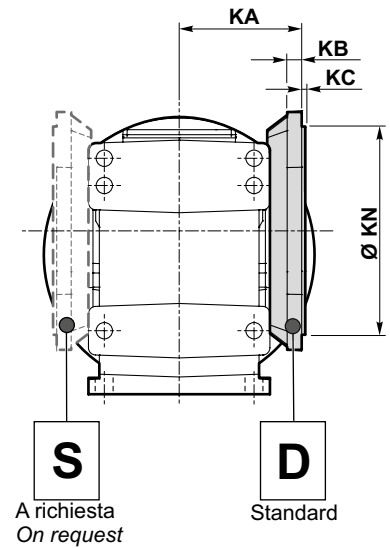
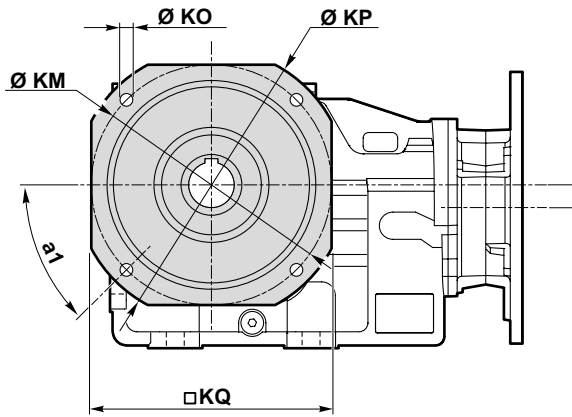


Dimensioni

Dimensions

ITB 423 F...

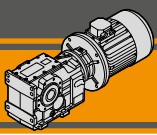
ITB 423 F...



Versione F / F Version											
ITB	a ₁	KA	KB	KC	KM	KN f7	KO	KP	KQ	Flangia / Flange	Peso / Weight
										Tipo / Type	[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	132 B14
423 U	39	39	38	41	38	44	41

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

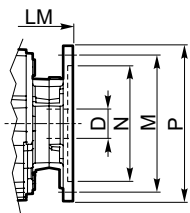
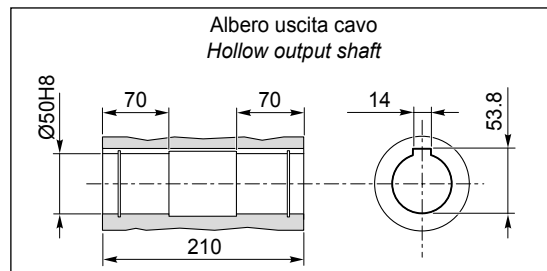
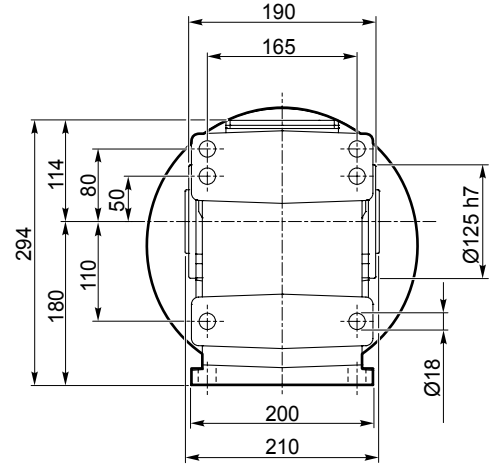
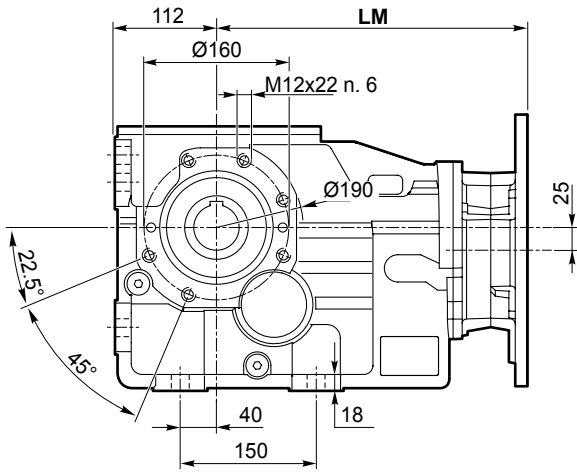


Dimensioni

Dimensions

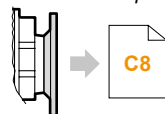
ITB 433 U

ITB 433 U

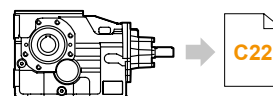


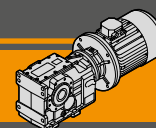
Dimensioni IEC / IEC Dimensions								
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5
LM	330	330	334.5	334	334.5	355		405
N	130	130	95	180	110	230	130	250
M	165	165	115	215	130	265	165	300
P	200	200	140	250	160	300	200	350
D	19	24		28		38		42

IEC Motori applicabili
IEC Motor adapters



ITBIS 433..



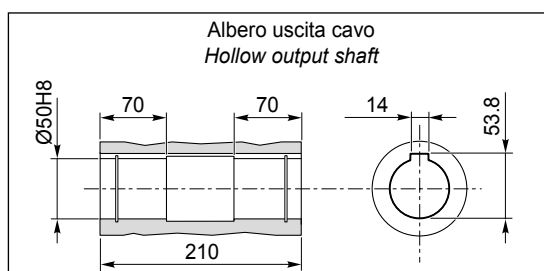
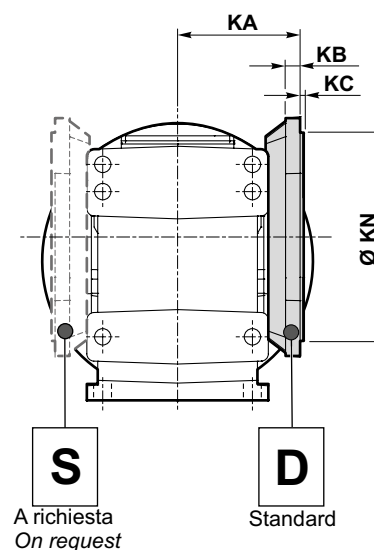
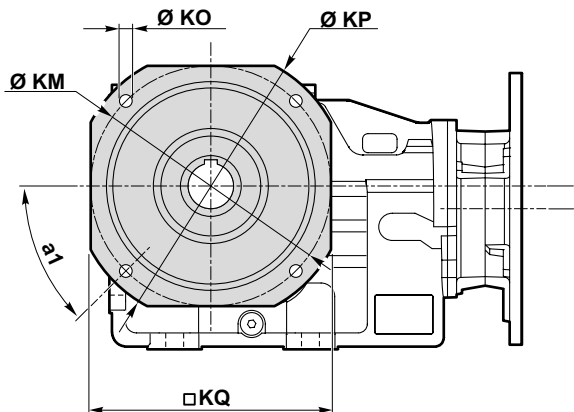


Dimensioni

Dimensions

ITB 433 F...

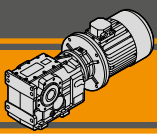
ITB 433 F...



Versione F / F Version											
ITB	a ₁	KA	KB	KC	KM	KN f7	KO	KP	KQ	Flangia / Flange	Peso / Weight
										Tipo / Type	[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	132 B14	160 B5	
433 U	65	65	64	67	64	70	67	78	

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

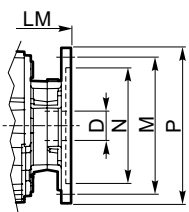
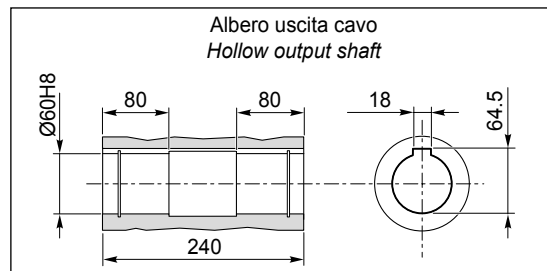
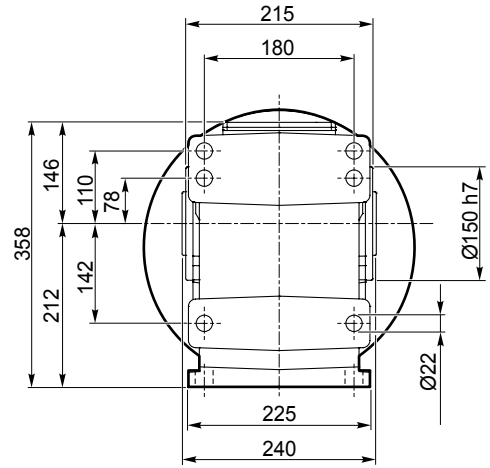
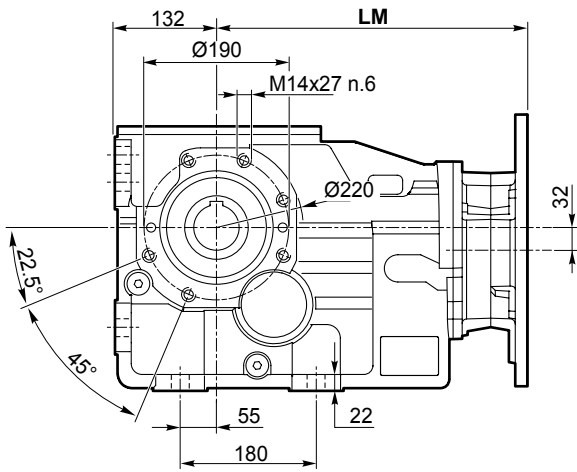


Dimensioni

Dimensions

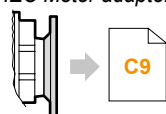
ITB 443 U

ITB 443 U

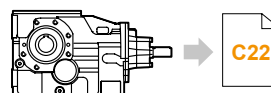


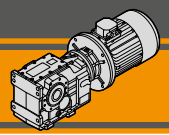
Dimensioni IEC / IEC Dimensions									
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5
LM	375.5	375.5	380	379.5	383	400.5		450.5	450.5
N	130	130	95	180	110	230	130	250	250
M	165	165	115	215	130	265	165	300	300
P	200	200	140	250	160	300	200	350	350
D	19	24		28		38		42	48

IEC Motori applicabili
IEC Motor adapters



ITBIS 443..



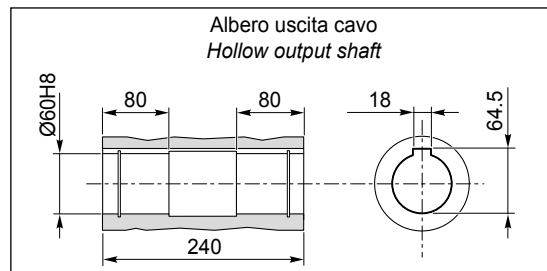
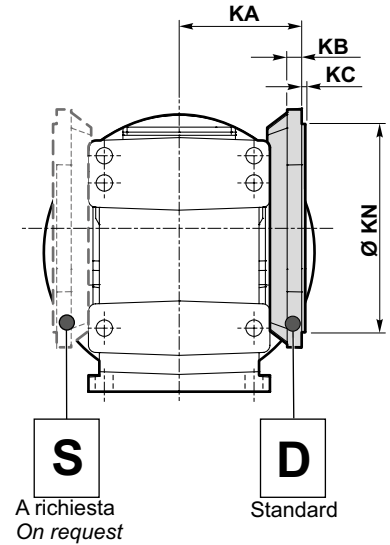
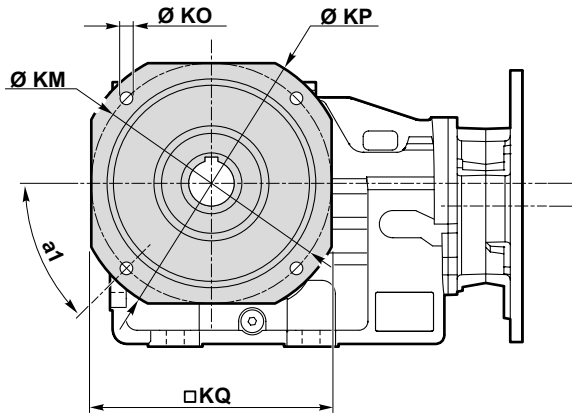


Dimensioni

Dimensions

ITB 443 F...

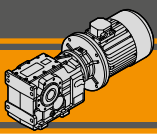
ITB 443 F...



Versione F / F Version											
ITB	a ₁	KA	KB	KC	KM	KN f7	KO	KP	KQ	Flangia / Flange	Peso / Weight
										Tipo / Type	[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	132 B14	160 B5	180 B5	
443 U	108	108	107	109	107	113	111	124	124	

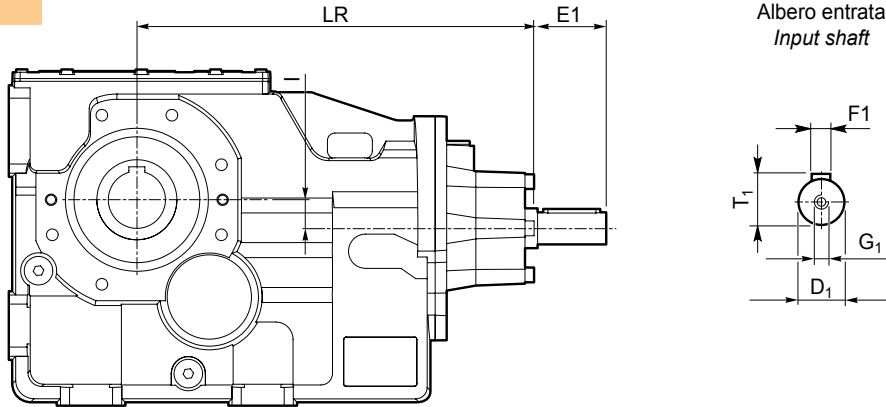
Nota: peso del riduttore complessivo di olio per la posizione M1 (B3)
Note: weight of the gearbox filled with oil for M1 (B3) assembly position



Dimensioni

Dimensions

ITBIS..



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		425.5	38	80	32	41	10	M12

ITBIS	Peso / Weight [kg]
423 U	40
433 U	60
443 U	114

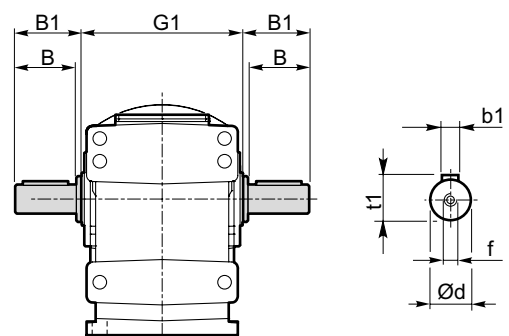
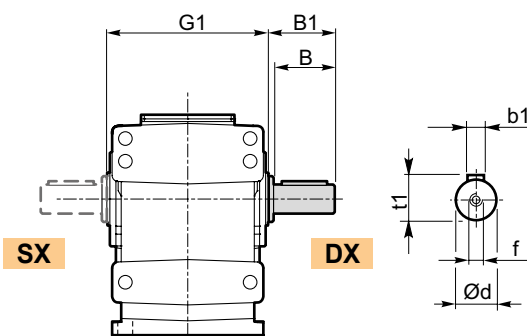
Accessori

Accessories

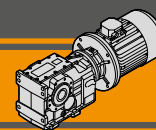
Albero lento / Output shaft

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

**ITB... DZ
ITBIS..DZ**

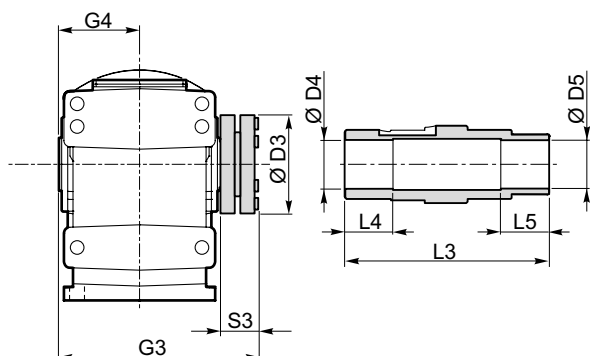


ITB	d h7	B	B1	G1	f	b1	t1	Peso / Weight [kg]	
								SZ	DZ
423	40	80	84	180	M16	12	43	2.2	3.2
433	50	100	105	210	M16	14	53.5	4.3	6.2
443	60	120	125	240	M20	18	64	7.1	10.3



Albero lento con calettatore / 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

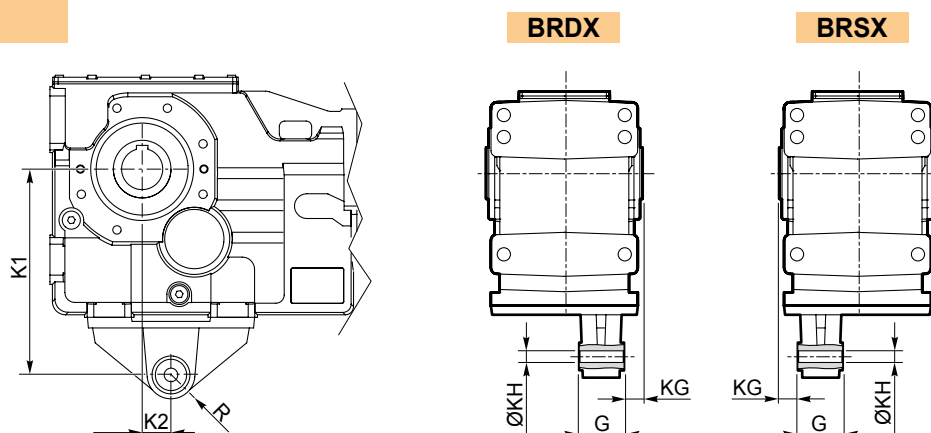
Kit albero uscita con calettatore disponibile a richiesta:
per le istruzioni di montaggio riferirsi al nostro Servizio Tecnico.

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

Kit braccio di reazione

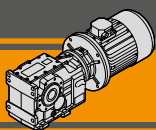
Torque arm kit

ITB..
ITBIS..



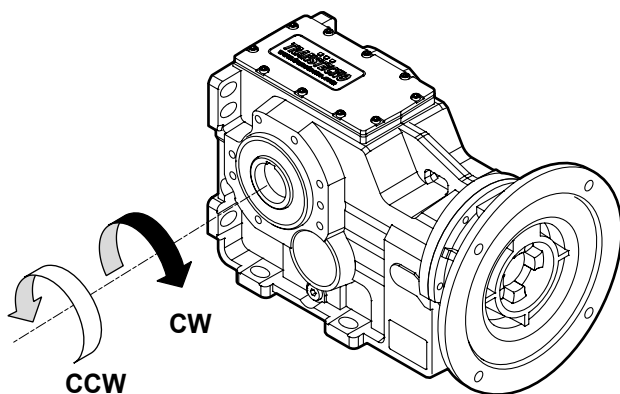
Braccio di reazione / Torque arm

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



Dispositivo antiretro / Backstop device

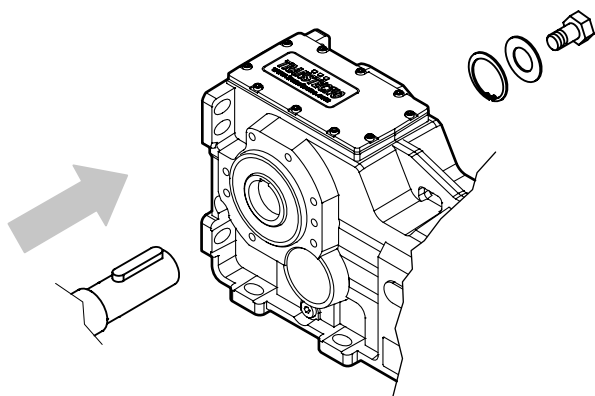
ITB...CW
ITB...CCW



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.

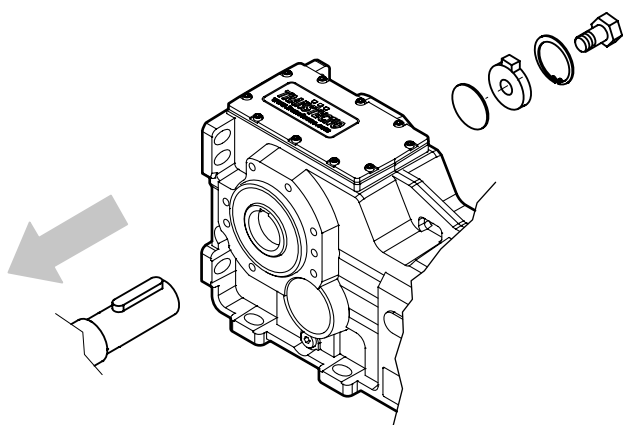
Kit di montaggio albero uscita / Output shaft assembly kit



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

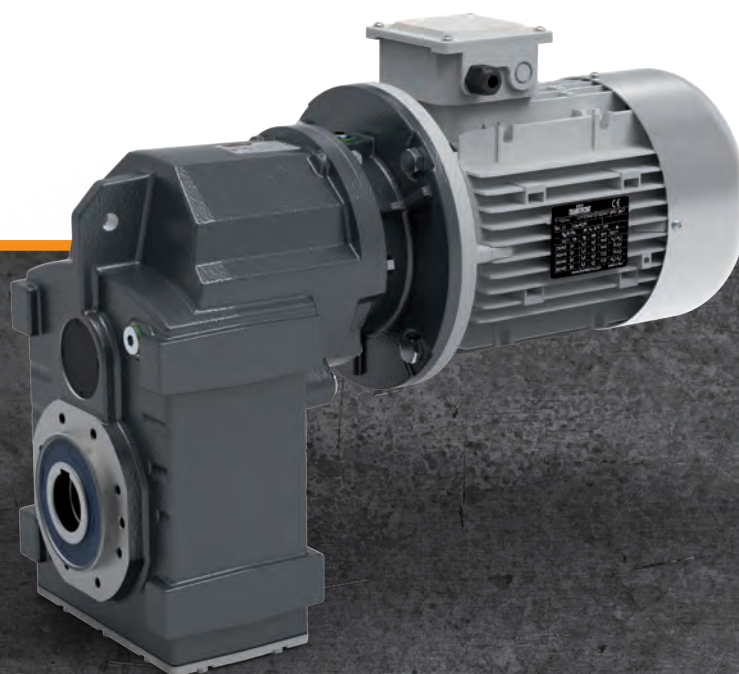
TRANSTECNO[®]
the modular gearmotor

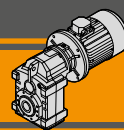
ITS

ITS



Motoriduttori pendolari
Helical parallel gearmotors

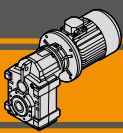




Indice	Index	Pag. Page
Caratteristiche tecniche	<i>Technical features</i>	D2
Versioni	<i>Versions</i>	D2
Designazione	<i>Classification</i>	D3
Sensi di rotazione	<i>Direction of rotation</i>	D4
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Lubrificazione	<i>Lubrication</i>	D5
Carichi radiali	<i>Radial loads</i>	D6
Dati tecnici	<i>Technical data</i>	D8
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ITS Motoriduttori pendolari Helical parallel gearmotors

Caratteristiche tecniche

I motoriduttori della serie ITS 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:

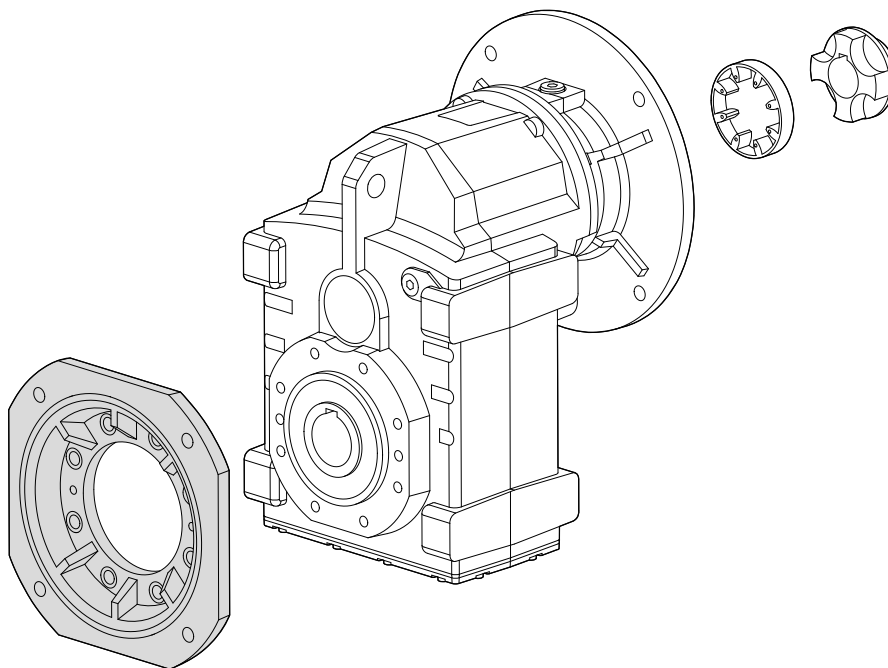
- Costruzione robusta con carcassa in ghisa
- Elevata modularità
- Lubrificazione con olio sintetico
- Accoppiamento al motore tramite giunto elastico
- Verniciatura a polvere epossidica RAL 7016 di spessore medio 0,10 – 0,15 mm

Technical features

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

The main features of ITS range are:

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



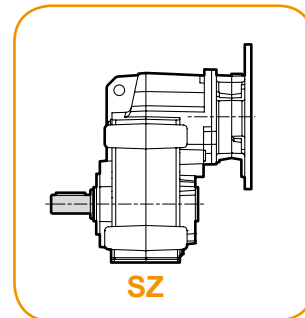
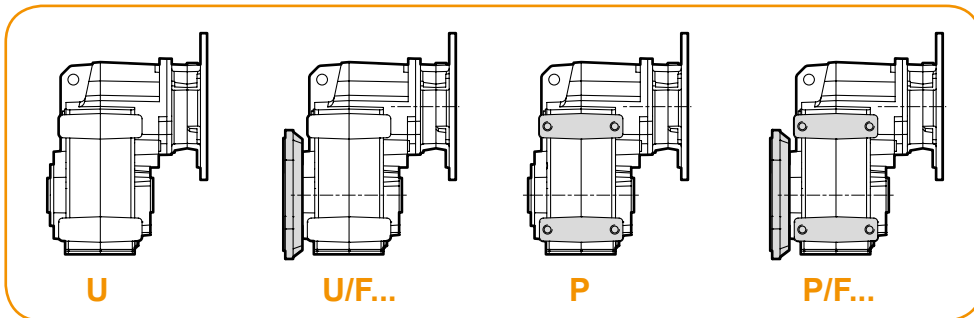
Versioni

Versions

ITS...

Versione Riduttore
Gearbox Version

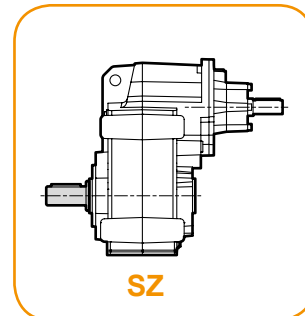
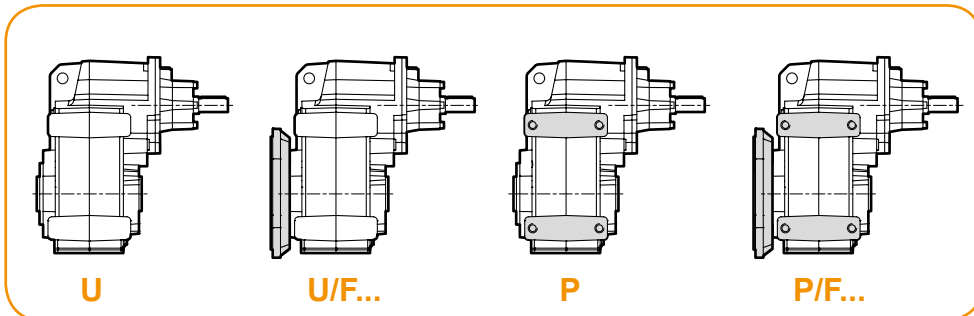
Albero di uscita
Output shaft

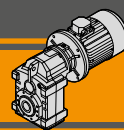


ITSIS...

Versione Riduttore
Gearbox Version



Albero di uscita
Output shaft




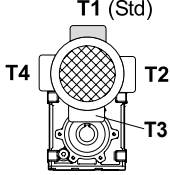


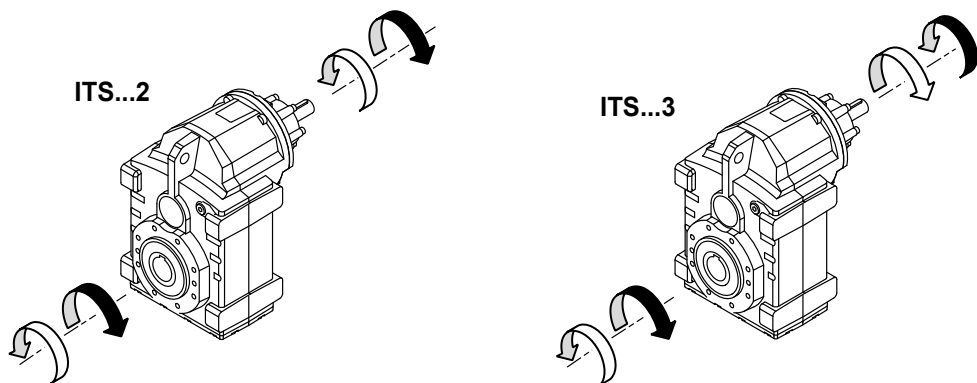
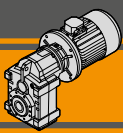
Designazione

Classification

RIDUTTORE / GEARBOX										
ITS	92	2	U	22.92	D40	132	B5	SZ	M1	CW
Tipo Type	Grandezza Size	Stadi Stages	Versione Version	Rapporto Ratio	Albero uscita Output shaft	IEC 	Forma costruttiva Version	Albero uscita maschio Solid outout shaft	Posizione di montaggio Mounting position	Dispositivo antiretro Backstop device
	92 93 94	2 3	U... U/F... P... P/F...	vedi tabelle see tables	vedi tabelle see tables	80.. — 180..	B5 B14	SZ	M1 (B3) M2 (V6) M3 (B8) M4 (V5) M5 (B7) M6 (B6)	CW CCW

RIDUTTORE / GEARBOX							
ITSIS	92	2	U	22.92	D40	SZ	M1
Tipo Type	Grandezza Size	Stadi Stages	Versione Version	Rapporto Ratio	Albero uscita Output shaft	Albero uscita maschio Solid outout shaft	Posizione di montaggio Mounting position
	92 93 94	2 3	U... U/F... P... P/F...	vedi tabelle see tables	vedi tabelle see tables	SZ	M1 (B3) M2 (V6) M3 (B8) M4 (V5) M5 (B7) M6 (B6)

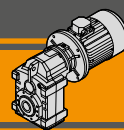
MOTORE / MOTOR						
5,5 kW	4p	3ph	230/400V	50Hz	T1	
Potenza Power	Poli Poles	Fasi Phases	Tensione Voltage	Frequenza Frequency	Pos. morsetteria Terminal box pos.	
vedi tabelle see tables	2p 4p 6p 8p	1ph 3ph	230/400V 220/380V ... 230V	50Hz 60Hz		



Simbologia

Symbols

n_1	[min ⁻¹]	Velocità in ingresso / <i>Input speed</i>
n_2	[min ⁻¹]	Velocità in uscita / <i>Output speed</i>
i		Rapporto di riduzione / <i>Ratio</i>
P_1	[kW]	Potenza in entrata / <i>Input power</i>
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / <i>Output torque referred to P_1</i>
P_{n1}	[kW]	Potenza nominale in entrata / <i>Nominal input power</i>
M_{n2}	[Nm]	Coppia nominale in uscita in funzione di P_{n1} / <i>Nominal output torque referred to P_{n1}</i>
sf		Fattore di servizio / <i>Service factor</i>
R_1	[N]	Carico radiale ammissibile in entrata / <i>Permitted input radial load</i>
A_1	[N]	Carico assiale ammissibile in entrata / <i>Permitted input axial load</i>
R_2U	[N]	Carico radiale ammissibile in uscita per la versione "U..." / <i>Permitted output radial load for "U..." version</i>
R_2P	[N]	Carico radiale ammissibile in uscita per la versione "P..." / <i>Permitted output radial load for "P..." version</i>
R_2	[N]	Carico radiale ammissibile in uscita / <i>Permitted output radial load</i>
A_2	[N]	Carico assiale ammissibile in uscita / <i>Permitted output axial load</i>

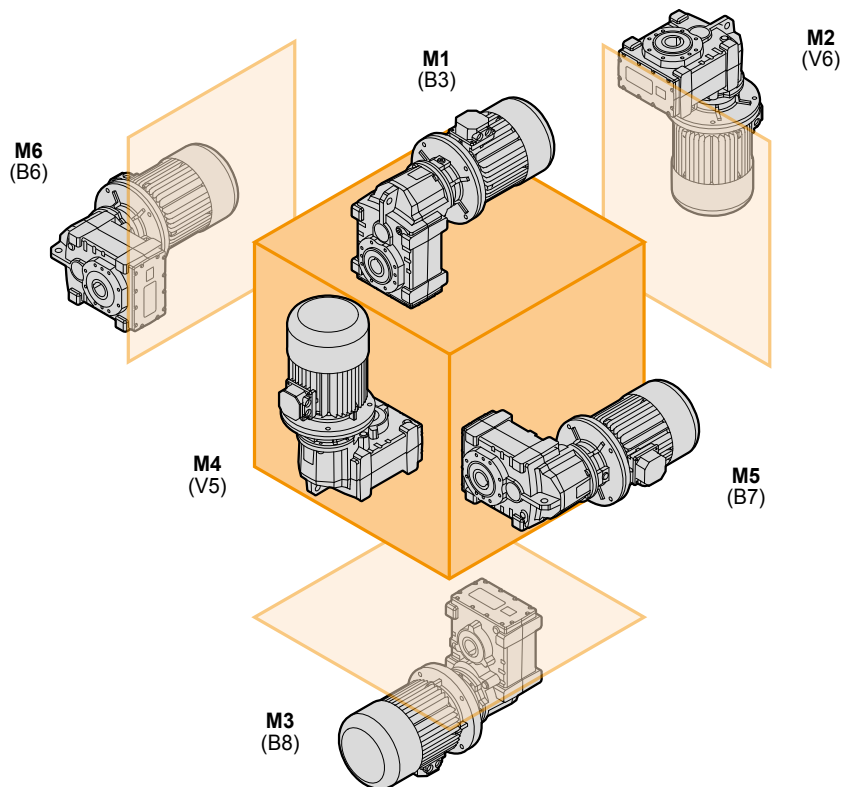


Lubrificazione

Lubrication

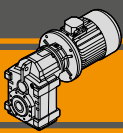
I motoriduttori della serie ITS sono forniti completi di lubrificante sintetico viscosità 320. La quantità di lubrificante dipende dalla posizione di montaggio.

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



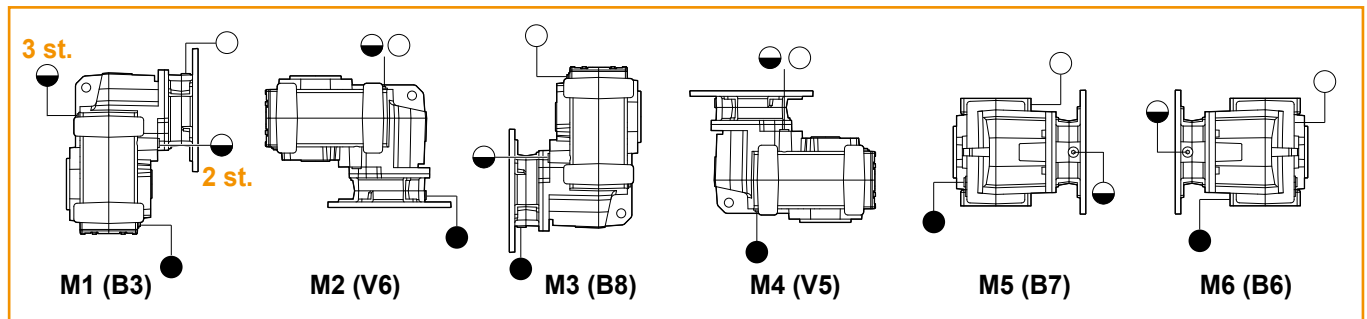
ITS

ITS	Quantità di olio (litri) / Oil quantity (litres)					
	M1 (B3)	M2 (V6)	M3 (B8)	M4 (V5)	M5 (B7)	M6 (B6)
922	3,4	5,2	4,2	6,1	3,7	3,6
923	4,9					
932	4,7	7,0	4,3	7,7	4,5	4,4
933	6,7					
942	9,1	14,4	9,1	15,4	9,1	8,9
943	12,0					



ITS Motoriduttori pendolari Helical parallel gearmotors

ITSIS	Quantità di olio (litri) / Oil quantity (litres)					
	M1 (B3)	M2 (V6)	M3 (B8)	M4 (V5)	M5 (B7)	M6 (B6)
922	3,6	5,6	4,4	6,1	3,9	3,8
923	5,1					
932	4,9	7,4	4,7	7,7	4,7	4,6
933	6,9					
942	9,3	15,1	9,8	15,4	9,5	9,3
943	12,2	14,8	9,5	15,4	9,3	9,1



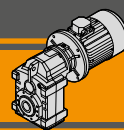
- Sfiato e tappo di riempimento / Breather and filling plug
- ◐ Livello olio / Oil level plug
- Tappo di scarico / Oil drain plug

Carichi radiali in entrata

Input Radial loads

ITS 922 ITS 923 -932 ITS 933 - 943	n_1 [min ⁻¹]	Potenza motore/ Motor Power [kW]			
		2.2	3.0	4.0	5.5
R_1 [N]	1400	1800			750
	900	2100		1200	-
	500	2500	-	-	-

ITS 942	n_1 [min ⁻¹]	Potenza motore/ Motor Power [kW]					
		5.5	7.5	9.2	11.0	15.0	18.5
R_1 [N]	1400	3700			2800	1200	
	900	4900		3300	650	-	
	500	5250	3900	1300	-	-	-

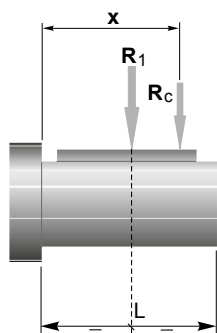
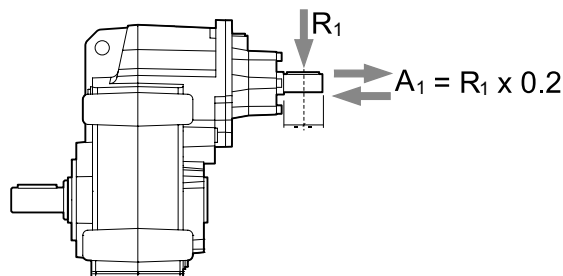


I carichi radiali uscita massimi applicabili sono riportati nelle tabelle precedenti.

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

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

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



	ITS922	ITS923	ITS932	ITS933	ITS942	ITS943
a		139			157	139
b		110			118	110

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

$$R \leq R_c$$

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

Carichi radiali in uscita

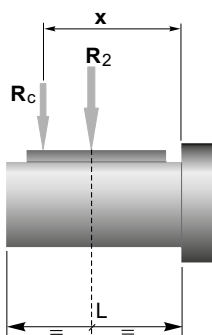
I carichi radiali uscita massimi applicabili sono riportati nelle tabelle dati tecnici.

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

Output radial loads

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:



ITS	922 U... 923 U...	922 P... 923 P...	932 U... 933 U...	932 P... 933 P...	942 U... 943 U...	942 P... 943 P...
a	190	182	224	216	262	252
b	150	142	174	166	202	192
R _{2MAX}	9500	18000	12000	23000	15000	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

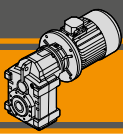
La versione U utilizza cuscinetti a sfere sull'asse di uscita mentre la versione P utilizza cuscinetti a rulli conici.

E' possibile utilizzare cuscinetti a rulli conici anche sulla versione U a richiesta.

U version has ball bearings on the output side.

P version uses taper roller bearings.

It's possible to have taper roller bearings for U version upon request.





ITS Motoriduttori pendolari Helical parallel gearmotors

Dati tecnici

n_1 1400 min⁻¹


Technical data

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	$R_2 U$ [N]	$R_2 P$ [N]		IEC Motori applicabili IEC Motor adapters									
ITSIS 922							ITS 922										
								80B5	90B5/B14	100B5/B14	112B5/B14	132B5/B14					
248	500	13.50	5.66	2492	9368												
198	500	10.82	7.06	2835	10580												
167	500	9.13	8.37	3131	11619												
153	650	10.87	9.13	3078	11708												
134	650	9.51	10.43	3327	12602												
116	650	8.24	12.04	3618	13638												
104	750	8.48	13.50	3685	14122												
90	750	7.39	15.50	3994	15236												
79	900	7.72	17.81	4012	15753												
64	900	6.32	21.73	4506	17576												
61	900	6.00	22.92	4648	18095												
59	900	5.78	23.80	4751	18500												
53	900	5.16	26.63	5073	18500								*				
48	900	4.70	29.26	5360	18500								*				
44	1000	4.75	32.14	5361	18500								*				
40	1000	4.43	35.19	5652	18500								*				
36	1000	3.96	39.38	6035	18500								*				
32	1000	3.60	43.27	6376	18500								*				
30	1000	3.28	47.50	6733	18500						*	*					
25	1100	3.07	55.96	6992	18500						*						
23	1100	2.80	61.25	7371	18500						*						
21	1100	2.54	67.50	7800	18500						*						

ITSIS 923						
19	1100	2.29	75.00	8295	18500	
16	1100	1.99	86.28	9001	18500	
15	1100	1.82	94.46	9500	18500	
13	1100	1.58	108.48	9500	18500	
12	1100	1.44	118.77	9500	18500	
9.9	1100	1.22	140.93	9500	18500	
9.1	1100	1.11	154.30	9500	18500	
8.1	1100	1.00	172.40	9500	18500	
7.4	1100	0.91	188.76	9500	18500	
6.6	1100	0.81	211.15	9500	18500	
5.9	1100	0.72	238.53	9500	18500	
5.1	1100	0.63	272.74	9500	18500	
4.8	1100	0.59	289.29	9500	18500	
4.4	1100	0.54	316.73	9500	18500	
4.1	1100	0.50	342.86	9500	18500	
3.7	1100	0.46	375.38	9500	18500	


ITS 923				
71B5	80B5	90B5/B14	100B5/B14	112B5/B14
				*
			*	*
			*	*
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		*	*	*
		*	*	*
	*	*	*	*
	*	*	*	*

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

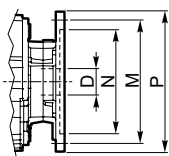
 * = Il fattore di servizio (sf) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. D11 alla pag. D17.

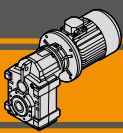
N.B.
Highlighted areas indicate motor inputs available on each size of unit.

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

Before selecting any gearbox, please read the performance values shown in the tables on page D11 to D17.





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



Dati tecnici

n_1 1400 min⁻¹

Technical data

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	$R_2 U$ [N]	$R_2 P$ [N]		IEC Motori applicabili IEC Motor adapters
ITSIS 942							ITS 942	
								90B5/B14 100B5/B14 112B5/B14 132B5/B14 160B5 180B5
	177	1500	28.90	7.93	4206	17268		
	146	1500	23.89	9.59	4701	19178		
	131	1700	24.34	10.67	4816	19916		
	118	1700	21.96	11.82	5113	21074	*	*
	109	2000	23.66	12.91	5070	21422		
	99	2000	21.49	14.21	5364	22590		
	88	2400	23.04	15.91	5258	22990		
	81	2400	21.15	17.33	5527	24097		
	73	2500	19.96	19.13	5725	25158		
	60	2500	16.37	23.32	6426	28055		*
	48	2700	14.01	29.42	7022	31000		*
	45	3000	14.61	31.35	6763	31000		*
	35	3000	11.57	39.60	7751	31000		*
	32	2700	9.53	43.25	8792	31000		
	29	2700	8.60	47.95	9337	31000		
	26	3200	9.34	53.43	8754	31000		
	24	3200	8.57	58.22	9203	31000		
	22	3200	7.73	64.53	9773	31000		
	20	3000	6.65	70.40	10842	31000		
	18	3000	6.08	77.00	11424	31000		

ITSIS 943

	15	3200	5.31	94.05	12175	31000
	14	3200	4.99	99.94	12614	31000
	13	3200	4.56	109.42	13299	31000
	12	3200	4.12	121.00	14102	31000
	10	3200	3.71	134.54	15000	31000
	9.5	3200	3.38	147.69	15000	31000
	8.2	3200	2.94	169.71	15000	31000
	7.5	3200	2.69	185.82	15000	31000
	6.7	3200	2.40	207.90	15000	31000
	6.1	3200	2.18	228.46	15000	31000
	5.6	3200	1.99	250.80	15000	31000
	4.7	3200	1.69	295.48	15000	31000
	4.3	3200	1.54	323.40	15000	31000
	3.9	3200	1.40	356.40	15000	31000

ITS 943

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

N.B.

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



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

Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. D11 alla pag. D17.

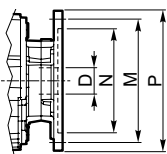
N.B.

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

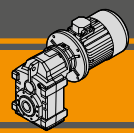


* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

Before selecting any gearbox, please read the performance values shown in the tables on page D11 to D17.













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










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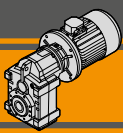
Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R _{2 U} [N]	R _{2 P} [N]	
0.25									
71A4 (1400 min ⁻¹)	5.9	382	2.9	238.53	ITS923		9500	18500	
	5.1	437	2.5	272.74			B5	9500	18500
	4.8	464	2.4	289.29			B5	9500	18500
	4.4	508	2.2	316.73			B5	9500	18500
	4.1	550	2.0	342.86			B5	9500	18500
	3.7	602	1.8	375.38	B5	9500	18500		
	5.4	413	4.1	257.61	ITS933		12000	23000	
	4.8	472	3.6	294.56			B5	12000	23000
	4.5	501	3.4	312.43			B5	12000	23000
	4.1	548	3.1	342.07			B5	12000	23000
3.8	594	2.9	370.29	B5			12000	23000	
3.5	650	2.6	405.42	B5	12000	23000			

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R _{2 U} [N]	R _{2 P} [N]		
0.55										
80A4 (1400 min ⁻¹)	19	265	4.2	75.00	ITS923		9500	18500		
	16	304	3.6	86.28			B5	9500	18500	
	15	333	3.3	94.46			B5	9500	18500	
	13	383	2.9	108.48			B5	9500	18500	
	12	419	2.6	118.77			B5	9500	18500	
	9.9	497	2.2	140.93			B5	9500	18500	
	9.1	544	2.0	154.30			B5	9500	18500	
	8.1	608	1.8	172.40			B5	9500	18500	
	7.4	666	1.7	188.76			B5	9500	18500	
	6.6	745	1.5	211.15			B5	9500	18500	
	5.9	841	1.3	238.53	B5	9500	18500			
	5.1	962	1.1	272.74	B5	9500	18500			
	4.8	1020	1.1	289.29	B5	9500	18500			
	4.4	1117	1.0	316.73	B5	9500	18500			
	30	165	10.0	46.73	ITS932		10992	23000		
	27	181	9.1	51.30			B5	11559	23000	
	23	213	7.7	60.44			B5	12000	23000	
	21	233	7.1	66.15			B5	12000	23000	
	19	257	5.8	72.90			B5	12000	23000	
	17	286	6.0	81.00			ITS933		12000	23000
15	329	5.2	93.18	B5					12000	23000
14	360	4.7	102.02	B5					12000	23000
12	413	4.1	117.16	B5					12000	23000
11	452	3.8	128.28	B5					12000	23000
9.2	537	3.2	152.21	B5	12000	23000				
8.4	588	2.9	166.65	B5	12000	23000				
7.5	657	2.6	186.19	B5	12000	23000				
6.9	719	2.4	203.86	B5	12000	23000				
6.1	804	2.1	228.05	B5	12000	23000				
5.4	908	1.9	257.61	B5	12000	23000				
4.8	1039	1.6	294.56	B5	12000	23000				
4.5	1102	1.5	312.43	B5	12000	23000				
4.1	1206	1.4	342.07	B5	12000	23000				
3.8	1306	1.3	370.29	B5	12000	23000				
3.5	1430	1.2	405.42	B5	12000	23000				
15	332	9.6	94.05	ITS943		15000	31000			
14	352	9.1	99.94			B5	15000	31000		
13	386	8.3	109.42			B5	15000	31000		
12	427	7.5	121.00			B5	15000	31000		
10	474	6.7	134.54			B5	15000	31000		
9.5	521	6.1	147.69			B5	15000	31000		
8.2	599	5.3	169.71			B5	15000	31000		
7.5	655	4.9	185.82			B5	15000	31000		
6.7	733	4.4	207.90			B5	15000	31000		
6.1	806	4.0	228.46			B5	15000	31000		
5.6	884	3.6	250.80	B5	15000	31000				
4.7	1042	3.1	295.48	B5	15000	31000				
4.3	1141	2.8	323.40	B5	15000	31000				
3.9	1257	2.5	356.40	B5	15000	31000				

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R _{2 U} [N]	R _{2 P} [N]	
0.37									
71B4 (1400 min ⁻¹)	5.9	566	1.9	238.53	ITS923		9500	18500	
	5.1	647	1.7	272.74			B5	9500	18500
	4.8	686	1.6	289.29			B5	9500	18500
	4.4	751	1.5	316.73			B5	9500	18500
	4.1	813	1.4	342.86			B5	9500	18500
	3.7	891	1.2	375.38	B5	9500	18500		
	5.4	611	2.8	257.61	ITS933		12000	23000	
	4.8	699	2.4	294.56			B5	12000	23000
	4.5	741	2.3	312.43			B5	12000	23000
	4.1	812	2.1	342.07			B5	12000	23000
3.8	879	1.9	370.29	B5			12000	23000	
3.5	962	1.8	405.42	B5	12000	23000			











P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R _{2 U} [N]	R _{2 P} [N]	
0.55									
80A4 (1400 min ⁻¹)	247	20	25	5.66	ITS922		3016	10554	
	198	25	20	7.06			B5	3424	11905
	167	30	17	8.37			B5	3775	13059
	153	33	20	9.13			B5	3969	13693
	134	38	17	10.43			B5	4283	14723
	116	43	15	12.04			B5	4647	15910
	104	49	15	13.50			B5	4958	16920
	90	56	13	15.50			B5	5359	18223
	79	64	14	17.81			B5	5795	18500
	64	78	11	21.73			B5	6474	18500
	61	83	11	22.92			B5	6667	18500
	59	86	11	23.80			B5	6807	18500
	53	96	9.4	26.63			B5	7240	18500
	48	105	8.5	29.26			B5	7623	18500
	44	116	8.6	32.14			B5	8021	18500
	40	124	8.1	35.19			B5	8430	18500
	36	139	7.2	39.38			B5	8951	18500
	32	153	6.6	43.27			B5	9408	18500
	29	168	6.0	47.50			B5	9500	18500
	25	197	5.6	55.96			B5	9500	18500
23	216	5.1	61.25	B5	9500	18500			
21	238	4.6	67.50	B5	9500	18500			

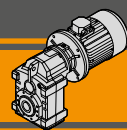


ITS Motoriduttori pendolari Helical parallel gearmotors

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Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R _{2 U} [N]	R _{2 P} [N]	P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R _{2 U} [N]	R _{2 P} [N]	
0.75									0.75									
80B4 (1400 min ⁻¹)	247	28	18	5.66	ITS922		3008	10535	80B4 (1400 min ⁻¹)	15	452	7.1	94.05	ITS943		15000	31000	
	198	35	14	7.06			B5	3413		11879	14	481	6.7			99.94	B5	15000
	167	41	12	8.37			3760	13026		13	526	6.1	109.42			B5	15000	31000
	153	45	14	9.13			3951	13655		12	582	5.5	121.00			B5	15000	31000
	134	51	13	10.43			4262	14675		10	647	4.9	134.54			B5	15000	31000
	116	59	11	12.04			4621	15851		9.5	710	4.5	147.69			B5	15000	31000
	104	66	11	13.50			4926	16850		8.2	816	3.9	169.71			B5	15000	31000
	90	76	9.9	15.50			5319	18136		7.5	894	3.6	185.82			B5	15000	31000
	79	87	10	17.81			5745	18500		6.7	1000	3.2	207.90			B5	15000	31000
	64	107	8.4	21.73			6406	18500		6.1	1099	2.9	228.46			B5	15000	31000
	61	113	8.0	22.92			6593	18500		5.6	1206	2.7	250.80			B5	15000	31000
	59	117	7.7	23.80			6728	18500		4.7	1421	2.3	295.48			B5	15000	31000
	53	131	6.9	26.63			7146	18500		4.3	1555	2.1	323.40			B5	15000	31000
	48	144	6.3	29.26			7514	18500		3.9	1714	1.9	356.40			B5	15000	31000
	44	158	6.3	32.14			7895	18500										
	40	169	5.9	35.19			8287	18500										
	36	189	5.3	39.38			8780	18500										
	32	208	4.8	43.27			9210	18500										
	29	228	4.4	47.50			9500	18500										
	25	269	4.1	55.96			9500	18500										
	23	295	3.7	61.25			9500	18500										
	21	325	3.4	67.50			9500	18500										
	19	361	3.0	75.00	ITS923		9500	18500	90S4 (1400 min ⁻¹)	247	41	12	5.66	ITS922		B5/B14	2993	10503
	16	415	2.7	86.28			B5	9500		18500	198	51	9.8			7.06	B5/B14	3393
	15	454	2.4	94.46			9500	18500		167	60	8.3	8.37			B5/B14	3734	12967
	13	522	2.1	108.48			9500	18500		153	66	9.9	9.13			B5/B14	3921	13587
	12	571	1.9	118.77			9500	18500		134	75	8.6	10.43			B5/B14	4225	14592
	9.9	678	1.6	140.93			9500	18500		116	87	7.5	12.04			B5/B14	4574	15748
	9.1	742	1.5	154.30			9500	18500		104	97	7.7	13.50			B5/B14	4869	16726
	8.1	829	1.3	172.40			9500	18500		90	112	6.7	15.50			B5/B14	5249	17983
	7.4	908	1.2	188.76			9500	18500		79	128	7.0	17.81			B5/B14	5658	18500
	6.6	1015	1.1	211.15			9500	18500		64	157	5.7	21.73			B5/B14	6287	18500
										61	165	5.5	22.92			B5/B14	6463	18500
										59	171	5.3	23.80			B5/B14	6591	18500
										53	192	4.7	26.63			B5/B14	6982	18500
										48	211	4.3	29.26			B5/B14	7323	18500
										44	232	4.3	32.14			B5/B14	7673	18500
										40	248	4.0	35.19			B5/B14	8037	18500
										36	278	3.6	39.38			B5/B14	8481	18500
										32	305	3.3	43.27			B5/B14	8862	18500
										29	335	3.0	47.50			B5/B14	9245	18500
										25	395	2.8	55.96			B5/B14	9500	18500
										23	432	2.5	61.25			B5/B14	9500	18500
										21	476	2.3	67.50			B5/B14	9500	18500
										19	529	2.1	75.00	ITS923		B5/B14	9500	18500
										16	609	1.8	86.28			B5/B14	9500	18500
										15	666	1.7	94.46			B5/B14	9500	18500
										13	765	1.4	108.48			B5/B14	9500	18500
										12	838	1.3	118.77			B5/B14	9500	18500
										9.9	994	1.1	140.93			B5/B14	9500	18500
										9.1	1088	1.0	154.30			B5/B14	9500	18500
										8.1	1216	0.9	172.40			B5/B14	9500	18500
										107	94	9.6	13.06	ITS932		B5/B14	5321	20175
										96	105	8.6	14.58			B5/B14	5658	21394
										83	121	8.3	16.81			B5/B14	6121	23000
										73	139	7.2	19.24			B5/B14	6594	23000
										59	170	7.1	23.57			B5/B14	7365	23000
										57	178	6.7	24.75			B5/B14	7561	23000
										54	186	7.5	25.81			B5/B14	7732	23000
										48	208	6.7	28.88			B5/B14	8209	23000
										40	250	6.6	34.71			B5/B14	9040	23000
										37	274	6.0	38.01			B5/B14	9471	23000
										33	300	5.5	42.53			B5/B14	10042	23000
										30	330	5.0	46.73			B5/B14	10526	23000
										27	362	4.6	51.30			B5/B14	11019	23000
										23	426	3.9	60.44			B5/B14	11913	23000
										21	467	3.5	66.15			B5/B14	12000	23000
										19	514	2.9	72.90			B5/B14	12000	23000



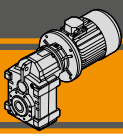
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Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ U [N]	R ₂ P [N]
1.1								
90S4 (1400 min ⁻¹)	17	571	3.0	81.00	ITS933	B5/B14	12000	23000
	15	657	2.6	93.18		B5/B14	12000	23000
14	720	2.4	102.02	B5/B14		12000	23000	
12	826	2.1	117.16	B5/B14		12000	23000	
11	905	1.9	128.28	B5/B14		12000	23000	
9.2	1074	1.6	152.21	B5/B14		12000	23000	
8.4	1175	1.4	166.65	B5/B14		12000	23000	
7.5	1313	1.3	186.19	B5/B14		12000	23000	
6.9	1438	1.2	203.86	B5/B14		12000	23000	
6.1	1608	1.1	228.05	B5/B14		12000	23000	
5.4	1817	0.9	257.61	B5/B14	12000	23000		
32	312	8.7	43.25	ITS942	B5/B14	13823	31000	
29	345	7.8	47.95		B5/B14	14603	31000	
26	377	8.5	53.43		B5/B14	15000	31000	
24	411	7.8	58.22		B5/B14	15000	31000	
22	455	7.0	64.53		B5/B14	15000	31000	
20	497	6.0	70.40		B5/B14	15000	31000	
18	543	5.5	77.00	B5/B14	15000	31000		
15	663	4.8	94.05	ITS943	B5/B14	15000	31000	
14	705	4.5	99.94		B5/B14	15000	31000	
13	772	4.1	109.42		B5/B14	15000	31000	
12	853	3.7	121.00		B5/B14	15000	31000	
10	949	3.4	134.54		B5/B14	15000	31000	
9.5	1042	3.1	147.69		B5/B14	15000	31000	
8.2	1197	2.7	169.71		B5/B14	15000	31000	
7.5	1311	2.4	185.82		B5/B14	15000	31000	
6.7	1466	2.2	207.90		B5/B14	15000	31000	
6.1	1611	2.0	228.46		B5/B14	15000	31000	
5.6	1769	1.8	250.80	B5/B14	15000	31000		
4.7	2084	1.5	295.48	B5/B14	15000	31000		
4.3	2281	1.4	323.40	B5/B14	15000	31000		
3.9	2514	1.3	356.40	B5/B14	15000	31000		

1.5								
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ U [N]	R ₂ P [N]
90L4 (1400 min ⁻¹)	247	56	9.0	5.66	ITS922	B5/B14	2977	10467
	198	69	7.2	7.06		B5/B14	3370	11782
167	82	6.1	8.37	B5/B14		3704	12900	
153	90	7.2	9.13	B5/B14		3887	13510	
134	102	6.3	10.43	B5/B14		4182	14498	
116	118	5.5	12.04	B5/B14		4520	15630	
104	133	5.7	13.50	B5/B14		4805	16585	
90	152	4.9	15.50	B5/B14		5169	17808	
79	175	5.1	17.81	B5/B14		5558	18500	
64	213	4.2	21.73	B5/B14		6150	18500	
61	225	4.0	22.92	B5/B14		6315	18500	
59	234	3.9	23.80	B5/B14		6433	18500	
53	262	3.4	26.63	B5/B14		6794	18500	
48	287	3.1	29.26	B5/B14		7104	18500	
44	316	3.2	32.14	B5/B14		7420	18500	
40	338	3.0	35.19	B5/B14		7750	18500	
36	379	2.6	39.38	B5/B14		8139	18500	
32	416	2.4	43.27	B5/B14		8465	18500	
29	457	2.2	47.50	B5/B14		8785	18500	
25	538	2.0	55.96	B5/B14		9328	18500	
23	589	1.9	61.25	B5/B14		9500	18500	
21	649	1.7	67.50	B5/B14		9500	18500	
19	721	1.5	75.00	ITS923		B5/B14	9500	18500
16	830	1.3	86.28			B5/B14	9500	18500
15	909	1.2	94.46		B5/B14	9500	18500	
13	1043	1.1	108.48		B5/B14	9500	18500	
12	1142	1.0	118.77		B5/B14	9500	18500	





P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ U [N]	R ₂ P [N]
1.5								
90L4 (1400 min ⁻¹)	155	89	9.6	9.03	ITS932	B5/B14	4297	16485
	141	97	9.3	9.90		B5/B14	4523	17311
124	111	8.1	11.27	B5/B14		4861	18549	
107	128	7.0	13.06	B5/B14		5275	20059	
96	143	6.3	14.58	B5/B14		5603	21257	
83	165	6.1	16.81	B5/B14		6053	22900	
73	189	5.3	19.24	B5/B14		6509	23000	
59	232	5.2	23.57	B5/B14		7248	23000	
57	243	4.9	24.75	B5/B14		7434	23000	
54	254	5.5	25.81	B5/B14		7597	23000	
48	284	4.9	28.88	B5/B14		8047	23000	
40	341	4.8	34.71	B5/B14		8824	23000	
37	373	4.4	38.01	B5/B14		9222	23000	
33	409	4.0	42.53	B5/B14		9751	23000	
30	449	3.7	46.73	B5/B14		10188	23000	
27	493	3.3	51.30	B5/B14		10626	23000	
23	581	2.8	60.44	B5/B14		11404	23000	
21	636	2.6	66.15	B5/B14		11831	23000	
19	701	2.1	72.90	B5/B14		12000	23000	
17	779	2.2	81.00	ITS933		B5/B14	12000	23000
15	896	1.9	93.18			B5/B14	12000	23000
14	981	1.7	102.02			B5/B14	12000	23000
12	1127	1.5	117.16			B5/B14	12000	23000
11	1234	1.4	128.28			B5/B14	12000	23000
9.2	1464	1.2	152.21		B5/B14	12000	23000	
8.4	1603	1.1	166.65		B5/B14	12000	23000	
7.5	1791	0.9	186.19		B5/B14	12000	23000	
48	289	9.3	29.42		ITS942	B5/B14	11078	31000
45	308	9.7	31.35			B5/B14	11463	31000
35	389	7.7	39.60	B5/B14		12974	31000	
32	425	6.4	43.25	B5/B14		13584	31000	
29	471	5.7	47.95	B5/B14		14322	31000	
26	514	6.2	53.43	B5/B14		15000	31000	
24	560	5.7	58.22	B5/B14		15000	31000	
22	621	5.2	64.53	B5/B14		15000	31000	
20	677	4.4	70.40	B5/B14		15000	31000	
18	741	4.1	77.00	B5/B14		15000	31000	
15	905	3.5	94.05	ITS943	B5/B14	15000	31000	
14	961	3.3	99.94		B5/B14	15000	31000	
13	1052	3.0	109.42		B5/B14	15000	31000	
12	1164	2.7	121.00		B5/B14	15000	31000	
10	1294	2.5	134.54		B5/B14	15000	31000	
9.5	1421	2.3	147.69		B5/B14	15000	31000	
8.2	1632	2.0	169.71		B5/B14	15000	31000	
7.5	1787	1.8	185.82		B5/B14	15000	31000	
6.7	2000	1.6	207.90		B5/B14	15000	31000	
6.1	2197	1.5	228.46		B5/B14	15000	31000	
5.6	2412	1.3	250.80	B5/B14	15000	31000		
4.7	2842	1.1	295.48	B5/B14	15000	31000		
4.3	3111	1.0	323.40	B5/B14	15000	31000		

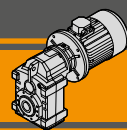


ITS Motoriduttori pendolari Helical parallel gearmotors

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

Technical data



P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ U [N]	R ₂ P [N]	P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ U [N]	R ₂ P [N]		
1.85																			
90LB4 (1400 min ⁻¹)	247	69	7.3	5.66	ITS922	B5/B14	2963	10435	90LB4 (1400 min ⁻¹)	15	1116	2.9	94.05	ITS943	B5/B14	15000	31000		
	198	85	5.8	7.06		B5/B14	3350	11737		14	1186	2.7	99.94		B5/B14	15000	31000		
	167	101	4.9	8.37		B5/B14	3678	12841		13	1298	2.5	109.42		B5/B14	15000	31000		
	153	111	5.9	9.13		B5/B14	3856	13443		12	1435	2.2	121.00		B5/B14	15000	31000		
	134	126	5.1	10.43		B5/B14	4145	14415		10	1596	2.0	134.54		B5/B14	15000	31000		
	116	146	4.5	12.04		B5/B14	4473	15526		9.5	1752	1.8	147.69		B5/B14	15000	31000		
	104	164	4.6	13.50		B5/B14	4749	16462		8.2	2013	1.6	169.71		B5/B14	15000	31000		
	90	188	4.0	15.50		B5/B14	5099	17656		7.5	2204	1.5	185.82		B5/B14	15000	31000		
	79	216	4.2	17.81		B5/B14	5471	18500		6.7	2466	1.3	207.90		B5/B14	15000	31000		
	64	263	3.4	21.73		B5/B14	6031	18500		6.1	2710	1.2	228.46		B5/B14	15000	31000		
	61	278	3.2	22.92		B5/B14	6185	18500		5.6	2975	1.1	250.80		B5/B14	15000	31000		
	59	288	3.1	23.80		B5/B14	6295	18500											
	53	323	2.8	26.63		B5/B14	6629	18500											
	48	354	2.5	29.26		B5/B14	6913	18500											
	44	389	2.6	32.14		B5/B14	7198	18500											
	40	417	2.4	35.19		B5/B14	7500	18500											
	36	467	2.1	39.38		B5/B14	7840	18500											
	32	513	1.9	43.27		B5/B14	8118	18500											
	29	563	1.8	47.50		B5/B14	8382	18500											
	25	664	1.7	55.96		B5/B14	8806	18500											
	23	727	1.5	61.25		B5/B14	9007	18500											
	21	801	1.4	67.50	B5/B14	9189	18500												
	19	890	1.2	75.00	ITS923	B5/B14	9332	18500											
	16	1023	1.1	86.28		B5/B14	9411	18500											
	15	1121	1.0	94.46		B5/B14	9374	18500											
	183	93	9.2	7.65	ITS932	B5/B14	3896	15035											
	155	109	7.8	9.03		B5/B14	4275	16428											
	141	120	7.5	9.90		B5/B14	4497	17246											
	124	137	6.6	11.27		B5/B14	4830	18469											
	107	158	5.7	13.06		B5/B14	5235	19958											
	96	177	5.1	14.58		B5/B14	5555	21137											
	83	204	4.9	16.81		B5/B14	5993	22751											
	73	233	4.3	19.24		B5/B14	6435	23000											
	59	286	4.2	23.57		B5/B14	7145	23000											
	57	300	4.0	24.75		B5/B14	7324	23000											
	54	313	4.5	25.81		B5/B14	7479	23000											
	48	350	4.0	28.88		B5/B14	7906	23000											
	40	421	3.9	34.71		B5/B14	8635	23000											
	37	460	3.6	38.01		B5/B14	9004	23000											
	33	504	3.3	42.53		B5/B14	9495	23000											
	30	554	3.0	46.73		B5/B14	9891	23000											
	27	609	2.7	51.30	B5/B14	10283	23000												
	23	717	2.3	60.44	B5/B14	10959	23000												
	21	785	2.1	66.15	B5/B14	11317	23000												
	19	865	1.7	72.90	B5/B14	11684	23000												
	17	961	1.8	81.00	ITS933	B5/B14	12000	23000											
	15	1105	1.5	93.18		B5/B14	12000	23000											
	14	1210	1.4	102.02		B5/B14	12000	23000											
	12	1390	1.2	117.16		B5/B14	12000	23000											
	11	1522	1.1	128.28		B5/B14	12000	23000											
	9.2	1806	0.9	152.21		B5/B14	12000	23000											
	60	283	8.8	23.32		ITS942	B5/B14	9683	31000										
	48	356	7.6	29.42			B5/B14	10965	31000										
	45	380	7.9	31.35	B5/B14		11337	31000											
	35	480	6.3	39.60	B5/B14		12793	31000											
	32	524	5.2	43.25	B5/B14		13375	31000											
	29	581	4.6	47.95	B5/B14		14077	31000											
	26	634	5.0	53.43	B5/B14		14868	31000											
	24	691	4.6	58.22	B5/B14		15000	31000											
	22	766	4.2	64.53	B5/B14		15000	31000											
	20	835	3.6	70.40	B5/B14		15000	31000											
	18	913	3.3	77.00	B5/B14		15000	31000											
2.2																			
100LA4 (1400 min ⁻¹)	247	81	6.1	5.66	ITS922	B5/B14	2949	10402	100LA4 (1400 min ⁻¹)	198	102	4.9	7.06	ITS923	B5/B14	2949	10402		
	167	121	4.1	8.37		B5/B14	3330	11692		167	121	4.1	8.37		B5/B14	3330	11692		
	153	132	4.9	9.13		B5/B14	3651	12782		153	132	4.9	9.13		B5/B14	3651	12782		
	134	150	4.3	10.43		B5/B14	3826	13376		134	150	4.3	10.43		B5/B14	3826	13376		
	116	174	3.7	12.04		B5/B14	4107	14332		116	174	3.7	12.04		B5/B14	4107	14332		
	104	194	3.9	13.50		B5/B14	4427	15423		104	194	3.9	13.50		B5/B14	4427	15423		
	90	223	3.4	15.50		B5/B14	4693	16338		90	223	3.4	15.50		B5/B14	4693	16338		
	79	257	3.5	17.81		B5/B14	5030	17503		79	257	3.5	17.81		B5/B14	5030	17503		
	64	313	2.9	21.73		B5/B14	5384	18500		64	313	2.9	21.73		B5/B14	5384	18500		
	61	330	2.7	22.92		B5/B14	5912	18500		61	330	2.7	22.92		B5/B14	5912	18500		
	59	343	2.6	23.80		B5/B14	6055	18500		59	343	2.6	23.80		B5/B14	6055	18500		
	53	384	2.3	26.63		B5/B14	6158	18500		53	384	2.3	26.63		B5/B14	6158	18500		
	48	422	2.1	29.26		B5/B14	6465	18500		48	422	2.1	29.26		B5/B14	6465	18500		
	44	463	2.2	32.14		B5/B14	6722	18500		44	463	2.2	32.14		B5/B14	6722	18500		
	40	496	2.0	35.19		B5/B14	6976	18500		40	496	2.0	35.19		B5/B14	6976	18500		
	36	555	1.8	39.38		B5/B14	7249	18500											





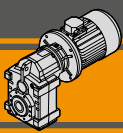
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Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ U [N]	R ₂ P [N]
2.2								
100LA4 (1400 min ⁻¹)	98	205	9.8	14.21	ITS942	B5/B14	7340	26991
	88	229	10	15.91		B5/B14	7809	28652
	81	250	9.6	17.33		B5/B14	8183	29976
	73	276	9.1	19.13		B5/B14	8636	31000
	60	336	7.4	23.32		B5/B14	9604	31000
	48	424	6.4	29.42		B5/B14	10851	31000
	45	452	6.6	31.35		B5/B14	11212	31000
	35	571	5.3	39.60		B5/B14	12611	31000
	32	623	4.3	43.25		B5/B14	13167	31000
	29	691	3.9	47.95		B5/B14	13831	31000
	26	754	4.2	53.43	B5/B14	14582	31000	
	24	821	3.9	58.22	B5/B14	15000	31000	
	22	910	3.5	64.53	B5/B14	15000	31000	
	20	993	3.0	70.40	B5/B14	15000	31000	
	18	1086	2.8	77.00	B5/B14	15000	31000	
	15	1327	2.4	94.05	ITS943	B5/B14	15000	31000
	14	1410	2.3	99.94		B5/B14	15000	31000
	13	1544	2.1	109.42		B5/B14	15000	31000
	12	1707	1.9	121.00		B5/B14	15000	31000
	10	1898	1.7	134.54		B5/B14	15000	31000
9.5	2083	1.5	147.69	B5/B14		15000	31000	
8.2	2394	1.3	169.71	B5/B14		15000	31000	
7.5	2621	1.2	185.82	B5/B14		15000	31000	
6.7	2933	1.1	207.90	B5/B14		15000	31000	
6.1	3223	1.0	228.46	B5/B14		15000	31000	

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ U [N]	R ₂ P [N]
3.0								
100LB4 (1400 min ⁻¹)	247	111	4.5	5.66	ITS922	B5/B14	2916	10329
	198	139	3.6	7.06		B5/B14	3284	11589
	167	164	3.0	8.37		B5/B14	3591	12648
	153	179	3.6	9.13		B5/B14	3757	13222
	134	205	3.2	10.43		B5/B14	4022	14143
	116	237	2.7	12.04		B5/B14	4319	15186
	104	265	2.8	13.50		B5/B14	4565	16056
	90	304	2.5	15.50		B5/B14	4870	17153
	79	350	2.6	17.81		B5/B14	5185	18309
	64	427	2.1	21.73		B5/B14	5639	18500
	61	450	2.0	22.92		B5/B14	5759	18500
	59	468	1.9	23.80		B5/B14	5843	18500
	53	523	1.7	26.63		B5/B14	6089	18500
	48	575	1.6	29.26		B5/B14	6286	18500
	44	631	1.6	32.14		B5/B14	6470	18500
	40	677	1.5	35.19		B5/B14	6677	18500
	36	757	1.3	39.38		B5/B14	6856	18500
	32	832	1.2	43.27		B5/B14	6976	18500
	29	914	1.1	47.50		B5/B14	7059	18500
	25	1077	1.0	55.96		B5/B14	7090	18500





P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ U [N]	R ₂ P [N]
3.0								
100LB4 (1400 min ⁻¹)	228	121	7.1	6.13	ITS932	B5/B14	3401	13251
	183	150	5.7	7.65		B5/B14	3840	14890
	155	177	4.8	9.03		B5/B14	4201	16240
	141	194	4.6	9.90		B5/B14	4412	17029
	124	221	4.1	11.27		B5/B14	4725	18204
	107	257	3.5	13.06		B5/B14	5103	19626
	96	286	3.1	14.58		B5/B14	5398	20743
	83	330	3.0	16.81		B5/B14	5796	22260
	73	378	2.6	19.24		B5/B14	6191	23000
	59	463	2.6	23.57		B5/B14	6809	23000
	57	486	2.5	24.75		B5/B14	6960	23000
	54	507	2.8	25.81		B5/B14	7091	23000
	48	567	2.5	28.88		B5/B14	7442	23000
	40	682	2.4	34.71		B5/B14	8014	23000
	37	747	2.2	38.01		B5/B14	8287	23000
	33	818	2.0	42.53		B5/B14	8657	23000
	30	899	1.8	46.73		B5/B14	8918	23000
	27	987	1.7	51.30		B5/B14	9154	23000
	23	1163	1.4	60.44		B5/B14	9496	23000
	21	1272	1.3	66.15		B5/B14	9629	23000
	19	1402	1.1	72.90	B5/B14	9715	23000	
	17	1558	1.1	81.00	ITS933	B5/B14	9724	23000
	15	1792	0.9	93.18		B5/B14	9562	23000
	98	279	7.2	14.21	ITS942	B5/B14	7258	26808
	88	313	7.7	15.91		B5/B14	7711	28435
	81	340	7.1	17.33		B5/B14	8071	29728
	73	376	6.7	19.13		B5/B14	8504	31000
	60	458	5.5	23.32		B5/B14	9425	31000
	48	578	4.7	29.42		B5/B14	10592	31000
	45	616	4.9	31.35		B5/B14	10925	31000
	35	778	3.9	39.60		B5/B14	12196	31000
	32	850	3.2	43.25		B5/B14	12689	31000
	29	942	2.9	47.95		B5/B14	13269	31000
	26	1028	3.1	53.43	B5/B14	13929	31000	
	24	1120	2.9	58.22	B5/B14	14413	31000	
	22	1241	2.6	64.53	B5/B14	14983	31000	
	20	1354	2.2	70.40	B5/B14	15000	31000	
	18	1481	2.0	77.00	B5/B14	15000	31000	
	15	1809	1.8	94.05	ITS943	B5/B14	15000	31000
	14	1923	1.7	99.94		B5/B14	15000	31000
13	2105	1.5	109.42	B5/B14		15000	31000	
12	2328	1.4	121.00	B5/B14		15000	31000	
10	2588	1.2	134.54	B5/B14		15000	31000	
9.5	2841	1.1	147.69	B5/B14		15000	31000	
8.2	3265	1.0	169.71	B5/B14		15000	31000	

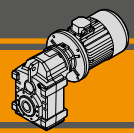


ITS Motoriduttori pendolari Helical parallel gearmotors

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Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ U [N]	R ₂ P [N]	P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ U [N]	R ₂ P [N]		
4.0									5.5										
112M4 (1400 min ⁻¹)	247	148	3.4	5.66	ITS922	B5/B14	2876	10238	132S4 (1400 min ⁻¹)	247	204	2.5	5.66	ITS922	B5/B14	2815	10100		
	198	185	2.7	7.06		B5/B14	3226	11460		198	254	2.0	7.06		B5/B14	B5/B14	3140	11266	
	167	219	2.3	8.37		B5/B14	3516	12480		167	301	1.7	8.37		B5/B14	B5/B14	3403	12228	
	153	239	2.7	9.13		B5/B14	3671	13030		153	329	2.0	9.13		B5/B14	B5/B14	3541	12741	
	134	273	2.4	10.43		B5/B14	3915	13906		134	376	1.7	10.43		B5/B14	B5/B14	3755	13552	
	116	316	2.1	12.04		B5/B14	4186	14891		116	434	1.5	12.04		B5/B14	B5/B14	3985	14448	
	104	354	2.1	13.50		B5/B14	4404	15704		104	486	1.5	13.50		B5/B14	B5/B14	4164	15174	
	90	406	1.8	15.50		B5/B14	4671	16717		90	558	1.3	15.50		B5/B14	B5/B14	4371	16061	
	79	467	1.9	17.81		B5/B14	4937	17767		79	642	1.4	17.81		B5/B14	B5/B14	4564	16953	
	64	569	1.6	21.73		B5/B14	5298	18500		64	783	1.1	21.73		B5/B14	B5/B14	4787	18183	
	61	600	1.5	22.92		B5/B14	5388	18500		61	825	1.1	22.92		B5/B14	B5/B14	4832	18494	
	59	623	1.4	23.80		B5/B14	5450	18500		59	857	1.1	23.80		B5/B14	B5/B14	4859	18500	
	53	697	1.3	26.63		B5/B14	5619	18500		ITS932	228	221	3.8		6.13	B5/B14	3314	13027	
	48	766	1.2	29.26		B5/B14	5740	18500			183	276	3.1		7.65	B5/B14	3717	14575	
	44	842	1.2	32.14		B5/B14	5836	18500			155	325	2.6		9.03	B5/B14	4041	15833	
	40	903	1.1	35.19		B5/B14	5961	18500			141	357	2.5		9.90	B5/B14	4226	16559	
	36	1010	1.0	39.38		B5/B14	6001	18500			124	406	2.2		11.27	B5/B14	4498	17630	
	32	1110	0.9	43.27		B5/B14	5983	18500			107	470	1.9		13.06	B5/B14	4815	18904	
	228	161	5.3	6.13		ITS932	B5/B14	3366	13162			96	525		1.7	14.58	B5/B14	5056	19886
	183	200	4.2	7.65			B5/B14	3790	14764			83	605		1.7	16.81	B5/B14	5368	21192
	155	237	3.6	9.03			B5/B14	4137	16077			73	693		1.4	19.24	B5/B14	5661	22462
	141	259	3.5	9.90			B5/B14	4338	16841			59	849		1.4	23.57	B5/B14	6077	23000
	124	295	3.0	11.27			B5/B14	4634	17974			57	891		1.3	24.75	B5/B14	6170	23000
	107	342	2.6	13.06			B5/B14	4988	19337			54	930		1.5	25.81	B5/B14	6246	23000
	96	382	2.4	14.58			B5/B14	5261	20400		48	1040	1.3		28.88	B5/B14	6433	23000	
	83	440	2.3	16.81			B5/B14	5625	21833		40	1250	1.3		34.71	B5/B14	6663	23000	
	73	504	2.0	19.24			B5/B14	5979	23000		37	1369	1.2		38.01	B5/B14	6728	23000	
	59	617	1.9	23.57			B5/B14	6516	23000		33	1500	1.1		42.53	B5/B14	6834	23000	
	57	648	1.9	24.75			B5/B14	6644	23000		30	1648	1.0		46.73	B5/B14	6801	23000	
	54	676	2.1	25.81			B5/B14	6753	23000		27	1809	0.9		51.30	B5/B14	6701	23000	
	48	756	1.9	28.88		B5/B14	7039	23000		ITS942	177	285	5.3		7.93	B5/B14	5157	19427	
	40	909	1.8	34.71		B5/B14	7474	23000			146	345	4.3		9.59	B5/B14	5711	21458	
	37	996	1.7	38.01		B5/B14	7663	23000			131	384	4.4		10.67	B5/B14	6041	22671	
	33	1091	1.5	42.53		B5/B14	7928	23000			118	426	4.0		11.82	B5/B14	6372	23896	
	30	1199	1.4	46.73		B5/B14	8071	23000			108	465	4.3		12.91	B5/B14	6667	24990	
	27	1316	1.3	51.30		B5/B14	8173	23000			98	512	3.9		14.21	B5/B14	7002	26238	
	23	1550	1.1	60.44		B5/B14	8224	23000			88	573	4.2		15.91	B5/B14	7405	27755	
	21	1697	1.0	66.15	B5/B14	8162	23000		81		624	3.8	17.33	B5/B14	7720	28952			
	98	372	5.4	14.21	ITS942	B5/B14	7155	26580			73	689	3.6	19.13	B5/B14	8095	30386		
	88	417	5.8	15.91		B5/B14	7589	28163			60	840	3.0	23.32	B5/B14	8864	31000		
	81	454	5.3	17.33		B5/B14	7931	29417			48	1060	2.5	29.42	B5/B14	9782	31000		
	73	501	5.0	19.13		B5/B14	8340	30929			45	1129	2.7	31.35	B5/B14	10029	31000		
	60	611	4.1	23.32		B5/B14	9201	31000		35	1426	2.1	39.60	B5/B14	10899	31000			
	48	771	3.5	29.42		B5/B14	10268	31000		32	1558	1.7	43.25	B5/B14	11198	31000			
	45	821	3.7	31.35		B5/B14	10567	31000		29	1727	1.6	47.95	B5/B14	11513	31000			
	35	1037	2.9	39.60		B5/B14	11677	31000		26	1884	1.7	53.43	B5/B14	11889	31000			
	32	1133	2.4	43.25		B5/B14	12093	31000		24	2053	1.6	58.22	B5/B14	12076	31000			
	29	1256	2.1	47.95		B5/B14	12567	31000		22	2276	1.4	64.53	B5/B14	12231	31000			
	26	1370	2.3	53.43		B5/B14	13113	31000		20	2483	1.2	70.40	B5/B14	12289	31000			
	24	1493	2.1	58.22		B5/B14	13478	31000		18	2716	1.1	77.00	B5/B14	12262	31000			
	22	1655	1.9	64.53	B5/B14	13882	31000		ITS943	15	3317	1.0	94.05	B5/B14	11787	31000			
	20	1806	1.7	70.40	B5/B14	14184	31000												
	18	1975	1.5	77.00	B5/B14	14446	31000												
	15	2412	1.3	94.05	B5/B14	14785	31000												
	14	2563	1.2	99.94	B5/B14	14800	31000												
	13	2807	1.1	109.42	B5/B14	14723	31000												
	12	3103	1.0	121.00	B5/B14	14473	31000												
7.5																			
					ITS922	B5/B14	2734	9917		132MA4 (1400 min ⁻¹)	247	278	1.8	5.66	B5/B14	2734	9917		
						B5/B14	3025	11008			198	347	1.4	7.06	B5/B14	3025	11008		
						B5/B14	3253	11892			167	411	1.2	8.37	B5/B14	3253	11892		
						B5/B14	3369	12357			153	448	1.4	9.13	B5/B14	3369	12357		
						B5/B14	3542	13078		134	512	1.3	10.43	B5/B14	3542	13078			
						B5/B14	3717	13857		116	592	1.1	12.04	B5/B14	3717	13857			
						B5/B14	3843	14469		104	663	1.1	13.50	B5/B14	3843	14469			
						B5/B14	3972	15188		90	761	1.0	15.50	B5/B14	3972	15188			
						B5/B14	4066	15869		79	875	1.0	17.81	B5/B14	4066	15869			



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Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R _{2 U} [N]	R _{2 P} [N]
7.5								
132MA4 (1400 min ⁻¹)	228	301	2.8	6.13	ITS932		B5/B14	3245 12848
	183	376	2.3	7.65			B5/B14	3618 14323
155	444	1.9	9.03	B5/B14			3912 15506	
141	486	1.9	9.90	B5/B14			4078 16183	
124	553	1.6	11.27	B5/B14			4316 17170	
107	642	1.4	13.06	B5/B14			4585 18326	
96	716	1.3	14.58	B5/B14			4782 19201	
83	825	1.2	16.81	B5/B14			5025 20338	
73	945	1.1	19.24	B5/B14			5237 21409	
59	1158	1.0	23.57	B5/B14			5492 22947	
57	1216	1.0	24.75	B5/B14			5538 23000	
54	1268	1.1	25.81	B5/B14			5571 23000	
48	1418	1.0	28.88	B5/B14	5627 23000			
40	1705	1.0	34.71	B5/B14	5583 23000			
177	389	3.9	7.93	ITS942		B5/B14	5076 19243	
146	471	3.2	9.59			B5/B14	5601 21210	
131	524	3.2	10.67			B5/B14	5911 22378	
118	581	2.9	11.82			B5/B14	6220 23553	
108	634	3.2	12.91			B5/B14	6492 24597	
98	698	2.9	14.21			B5/B14	6797 25781	
88	781	3.1	15.91			B5/B14	7160 27212	
81	851	2.8	17.33			B5/B14	7440 28332	
73	940	2.7	19.13			B5/B14	7767 29663	
60	1145	2.2	23.32			B5/B14	8415 31000	
48	1445	1.9	29.42			B5/B14	9133 31000	
45	1540	1.9	31.35			B5/B14	9312 31000	
35	1945	1.5	39.60	B5/B14	9861 31000			
32	2124	1.3	43.25	B5/B14	10004 31000			
29	2355	1.1	47.95	B5/B14	10108 31000			
26	2569	1.2	53.43	B5/B14	10256 31000			
24	2800	1.1	58.22	B5/B14	10206 31000			
22	3103	1.0	64.53	B5/B14	10030 31000			

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R _{2 U} [N]	R _{2 P} [N]	
9.2									
132L4 (1400 min ⁻¹)	247	341	1.5	5.66	ITS922		B5/B14	2666 9762	
	198	425	1.2	7.06			B5/B14	2928 10789	
	167	504	1.0	8.37			B5/B14	3125 11607	
	153	550	1.2	9.13			B5/B14	3222 12030	
134	629	1.0	10.43	B5/B14	3361 12676				
228	370	2.3	6.13	ITS932		B5/B14	3186 12696		
183	461	1.8	7.65			B5/B14	3534 14108		
155	544	1.6	9.03			B5/B14	3804 15229		
141	596	1.5	9.90			B5/B14	3952 15864		
124	679	1.3	11.27			B5/B14	4161 16779		
107	787	1.1	13.06			B5/B14	4390 17835		
96	878	1.0	14.58			B5/B14	4550 18619		
83	1012	1.0	16.81			B5/B14	4734 19612		
177	477	3.1	7.93			ITS942		B5/B14	5007 19086
146	578	2.6	9.59					B5/B14	5508 20999
131	643	2.6	10.67					B5/B14	5800 22130
118	712	2.4	11.82					B5/B14	6089 23262
108	778	2.6	12.91	B5/B14	6342 24263				
98	856	2.3	14.21	B5/B14	6623 25394				
88	958	2.5	15.91	B5/B14	6952 26750				
81	1044	2.3	17.33	B5/B14	7202 27805				
73	1153	2.2	19.13	B5/B14	7488 29048				
60	1405	1.8	23.32	B5/B14	8034 31000				
48	1773	1.5	29.42	B5/B14	8582 31000				
45	1889	1.6	31.35	B5/B14	8703 31000				
35	2386	1.3	39.60	B5/B14	8979 31000				
32	2606	1.0	43.25	B5/B14	8990 31000				
29	2889	0.9	47.95	B5/B14	8914 31000				
26	3152	1.0	53.43	B5/B14	8869 31000				

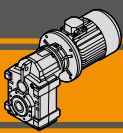
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R _{2 U} [N]	R _{2 P} [N]		
11.0										
160M4 (1400 min ⁻¹)	228	442	1.9	6.13	ITS932		B5	3123 12535		
	183	551	1.5	7.65			B5	3446 13881		
	155	651	1.3	9.03			B5	3688 14935		
	141	713	1.3	9.90			B5	3819 15526		
	124	812	1.1	11.27			B5	3997 16366		
	107	941	1.0	13.06			B5	4183 17315		
	177	571	2.6	7.93			ITS942		B5	4934 18920
	146	691	2.2	9.59					B5	5409 20776
	131	768	2.2	10.67					B5	5683 21867
	118	851	2.0	11.82					B5	5952 22953
	108	930	2.2	12.91					B5	6184 23910
	98	1024	2.0	14.21					B5	6438 24983
88	1146	2.1	15.91	B5	6732 26261					
81	1248	1.9	17.33	B5	6950 27246					
73	1378	1.8	19.13	B5	7193 28397					
60	1680	1.5	23.32	B5	7630 30695					
48	2119	1.3	29.42	B5	7999 31000					
45	2258	1.3	31.35	B5	8058 31000					
35	2853	1.1	39.60	B5	8046 31000					

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R _{2 U} [N]	R _{2 P} [N]
15.0								
160L4 (1400 min ⁻¹)	228	603	1.4	6.13	ITS932		B5	2984 12177
	183	752	1.1	7.65			B5	3248 13377
	155	887	1.0	9.03			B5	3432 14283
177	779	1.9	7.93	ITS942		B5	4771 18551	
146	942	1.6	9.59			B5	5189 20280	
131	1048	1.6	10.67			B5	5423 21282	
118	1161	1.5	11.82			B5	5646 22267	
108	1268	1.6	12.91			B5	5832 23124	
98	1396	1.4	14.21			B5	6028 24070	
88	1563	1.5	15.91			B5	6242 25174	
81	1702	1.4	17.33			B5	6389 26006	
73	1879	1.3	19.13			B5	6537 26950	
60	2291	1.1	23.32			B5	6733 28729	

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R _{2 U} [N]	R _{2 P} [N]
18.5								
180M4 (1400 min ⁻¹)	177	960	1.6	7.93	ITS942		B5	4629 18228
	146	1162	1.3	9.59			B5	4997 19846
	131	1292	1.3	10.67			B5	5196 20770
	118	1432	1.2	11.82			B5	5378 21667
	108	1564	1.3	12.91			B5	5524 22436
	98	1722	1.2	14.21			B5	5670 23271
	88	1927	1.2	15.91			B5	5814 24224
	81	2099	1.1	17.33			B5	5898 24920
73	2318	1.1	19.13	B5	5963 25685			

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R _{2 U} [N]	R _{2 P} [N]
22.0								
180L4 (1400 min ⁻¹)	177	1142	1.3	7.93	ITS942		B5	4487 17905
	146	1382	1.1	9.59			B5	4805 19412
	131	1537	1.1	10.67			B5	4968 20258
	118	1703	1.0	11.82			B5	5110 21067
	108	1859	1.1	12.91			B5	5217 21749
	98	2048	1.0	14.21			B5	5311 22473
	88	2292	1.0	15.91			B5	5385 23273

ITS

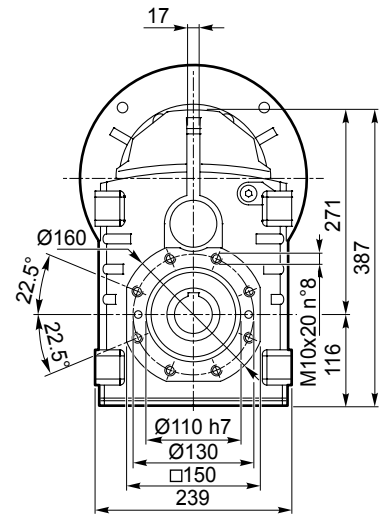
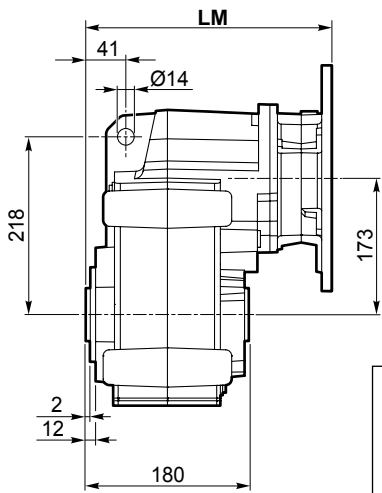


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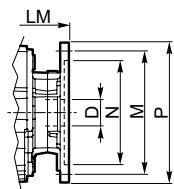
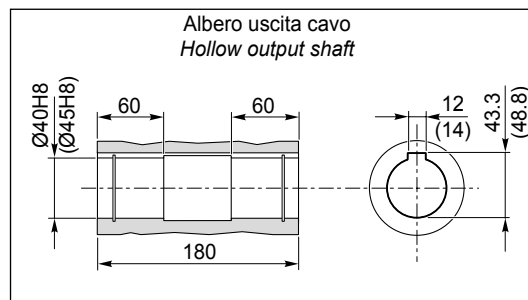
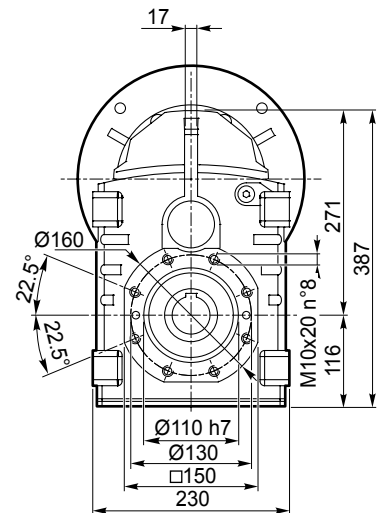
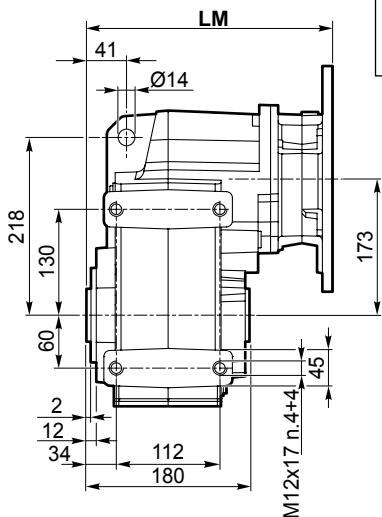
Dimensions

ITS 922 - ITS 923

**ITS 922 U
ITS 923 U**

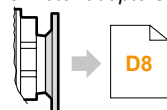


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ITS 923 P**

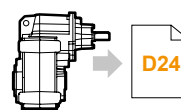


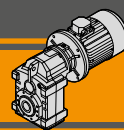
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LM	282.5	282.5	282.5	287	286.5	287	307.5	
N	110	130	130	95	180	110	230	130
M	130	165	165	115	215	130	265	165
P	160	200	200	140	250	160	300	200
D	14	19	24		28		38	

IEC Motori applicabili
IEC Motor adapters



ITSIS..



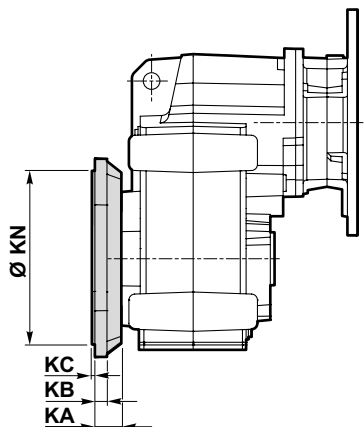


Dimensioni

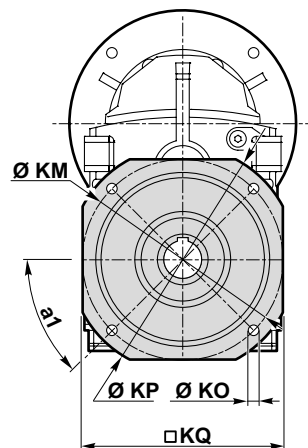
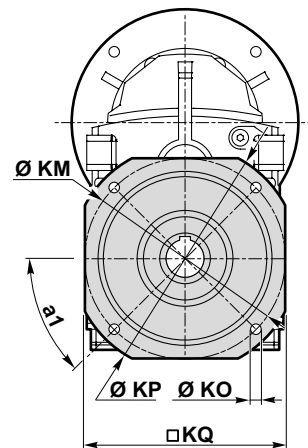
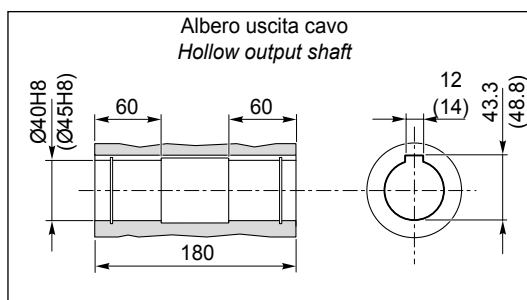
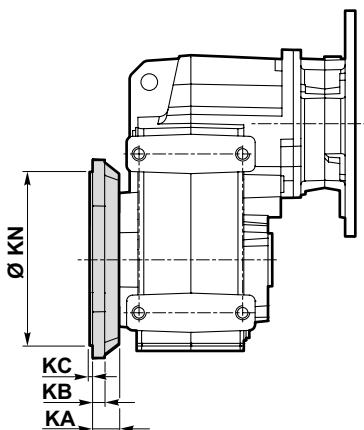
Dimensions

ITS 922 - ITS 923

ITS 922 U/F...
ITS 923 U/F...



ITS 922 P/F...
ITS 923 P/F...

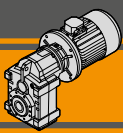


ITS

Versione F / F Version											
ITS	KA	a ₁	KB	KC	Ø KM	KN f7	KO	KP □	KQ	Flangia / Flange	Peso / Weight [kg]
										Tipo / Type	
922 923	35	45°	13	4	165	130	11	200	172	F200	2.6
	35	45°	13	4	215	180	14	250	215	F250	3.8
	35	45°	13	4	265	230	14	300	265	F300	5.6

Peso / Weight [kg]									
ITS	71 B5	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	
922 U	-	42	42	41	44	42	47	44	
922 P	-	42	42	41	44	41	47	44	
923 U	44	45	45	44	47	44			-
923 P	44	44	44	43	46	44			-

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

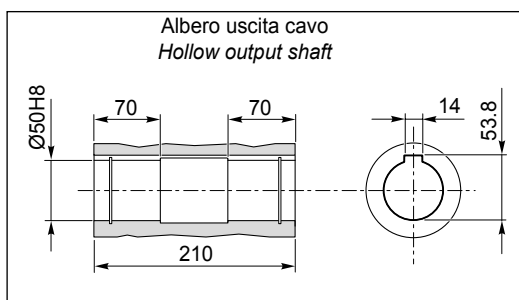
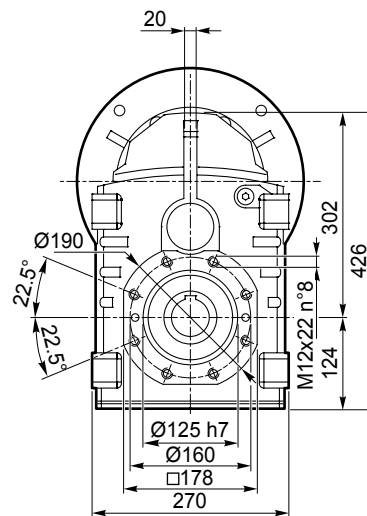
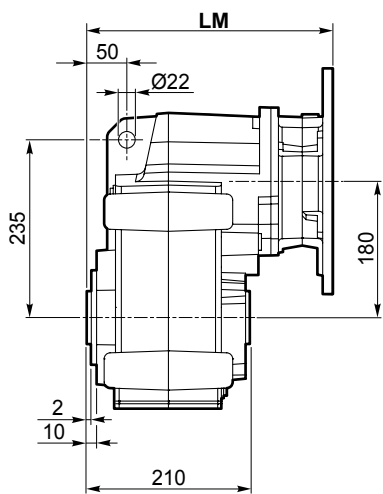


Dimensioni

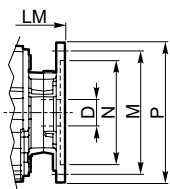
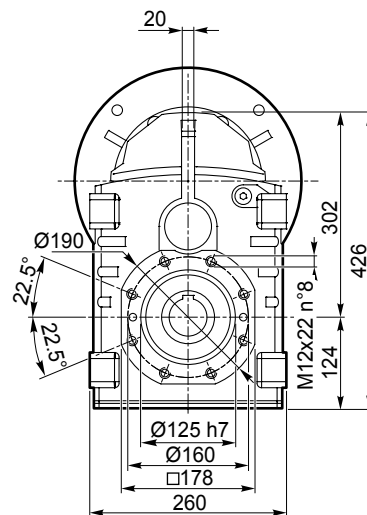
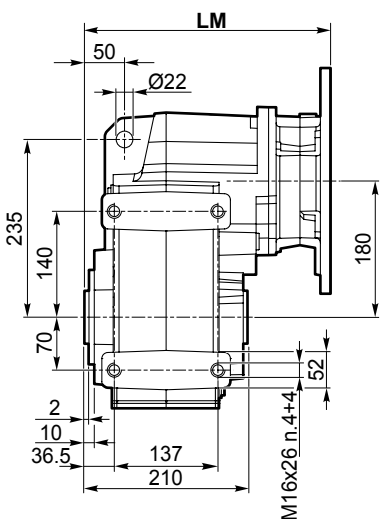
Dimensions

ITS 932 - ITS 933

**ITS 932 U
ITS 933 U**

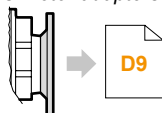


**ITS 932 P
ITS 933 P**

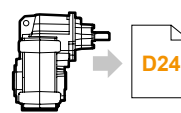


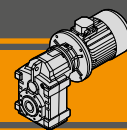
Dimensioni IEC / IEC Dimensions									
	71 B5	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5
LM	297.5	297.5	297.5	302	301.5	302	322.5		372.5
N	110	130	130	95	180	110	230	130	250
M	130	165	165	115	215	130	265	165	300
P	160	200	200	140	250	160	300	200	350
D	14	19	24		28		38		42

IEC Motori applicabili
IEC Motor adapters



ITSIS..





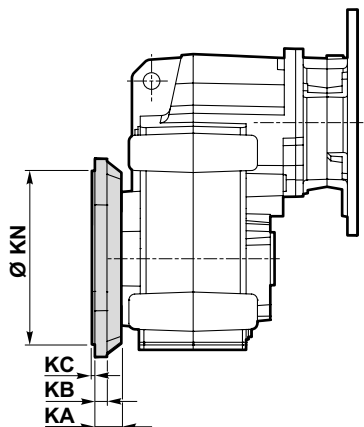
Dimensioni

Dimensions

ITS 932 - ITS 933

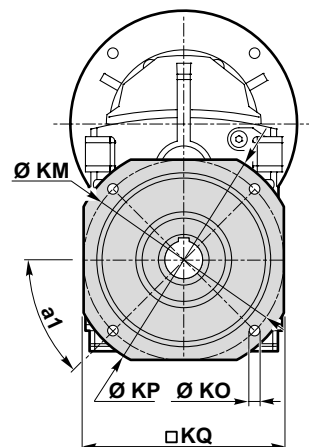
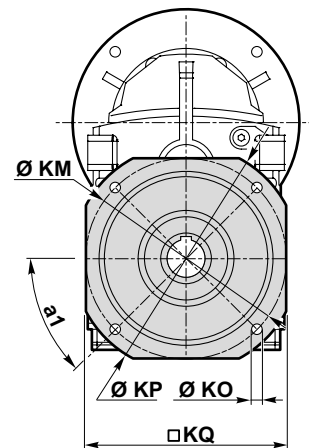
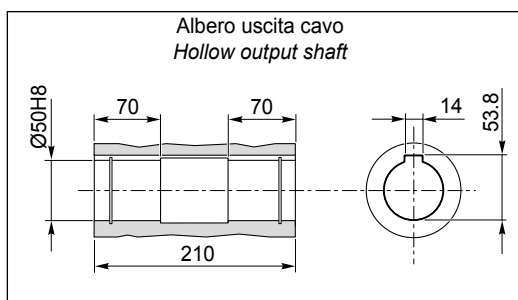
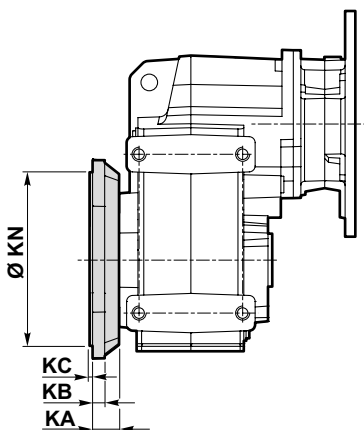
ITS 932 U/F...

ITS 933 U/F...



ITS 932 P/F...

ITS 933 P/F...

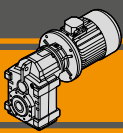


ITS

Versione F / F Version											
ITS	KA	a ₁	KB	KC	Ø KM	KN f7	KO	KP □	KQ	Flangia / Flange	Peso / Weight [kg]
										Tipo / Type	
932 933	40	45°	16	4	215	180	14	250	215	F250	4.8
	40	45°	16	4	265	230	14	300	265	F300	7.1
	40	45°	16	4	300	250	18	350	300	F350	9.1

Peso / Weight [kg]										
ITS	71 B5	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	
932 U	-	55	55	54	57	54	60	57	68	
932 P	-	54	54	53	56	54	59	56	68	
933 U	58	59	59	58	61	58	-	-	-	
933 P	58	58	58	57	60	58	-	-	-	

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

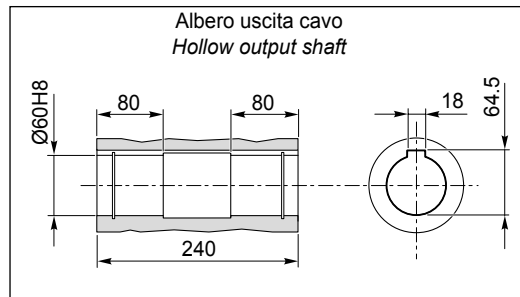
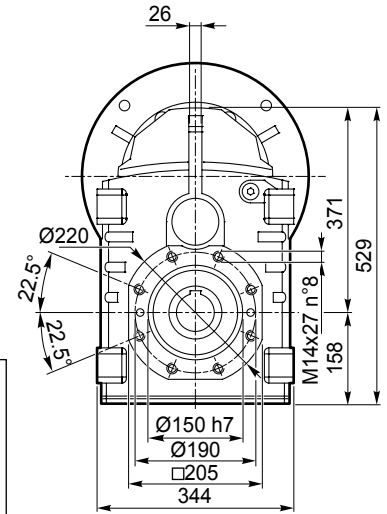
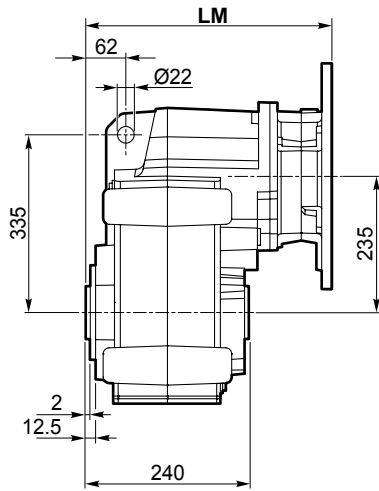


Dimensioni

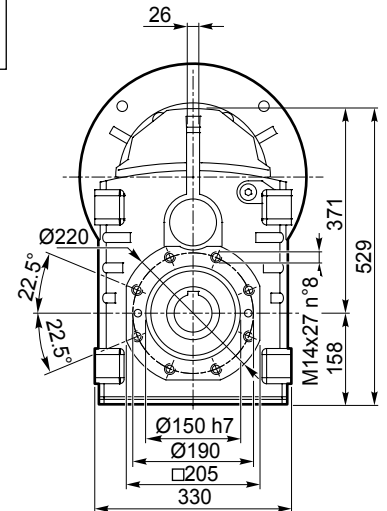
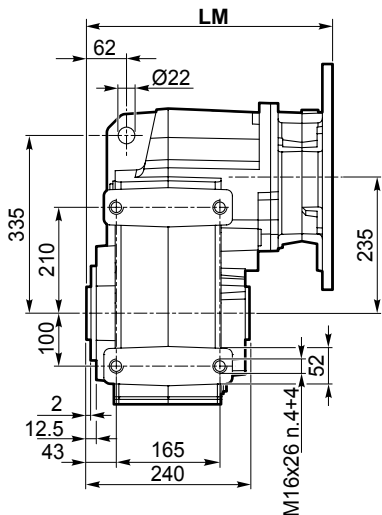
Dimensions

ITS 942 - ITS 943

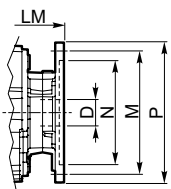
**ITS 942 U
ITS 943 U**



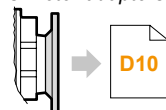
**ITS 942 P
ITS 943 P**



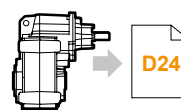
Dimensioni IEC / IEC Dimensions									
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5
LM	325.5	325.5	330	329.5	330	350.5		400.5	400.5
N	130	130	95	180	110	230	130	250	250
M	165	165	115	215	130	265	165	300	300
P	200	200	140	250	160	300	200	350	350
D	19	24		28		38		42	48

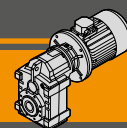


IEC Motori applicabili
IEC Motor adapters



ITSIS..



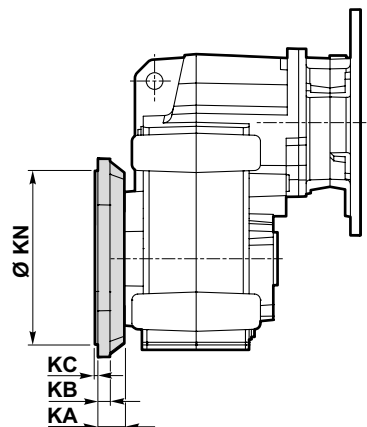


Dimensioni

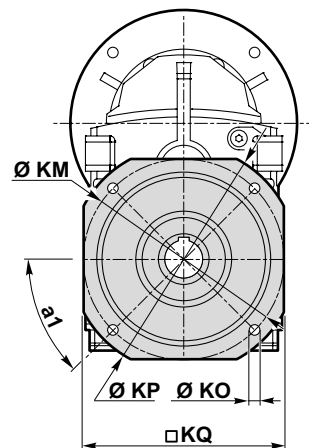
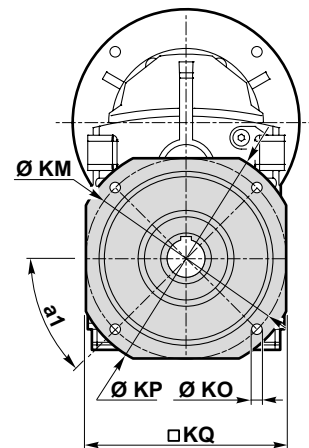
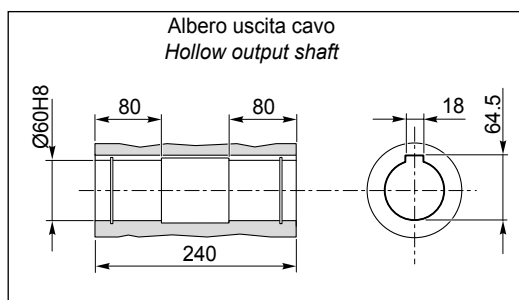
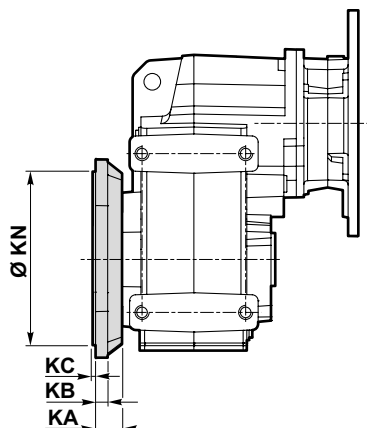
Dimensions

ITS 942 - ITS 943

ITS 942 U/F...
ITS 943 U/F...



ITS 942 P/F...
ITS 943 P/F...



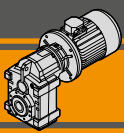
ITS

Versione F / F Version											
ITS	KA	a ₁	KB	KC	Ø KM	KN f7	KO	KP □	KQ	Flangia / Flange	Peso / Weight [kg]
										Tipo / Type	
942 943	42.5	45°	18	4	265	230	14	300	265	F300	7.4
	42.5	45°	18	5	300	250	18	350	300	F350	10.2
	42.5	45°	18	5	400	350	18	450	400	F450	16.9

Peso / Weight [kg]										
ITS	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5	
942 U	-	93	92	95	92	98	95	109	109	
942 P	-	92	91	94	91	97	94	108	108	
943 U	99	99	98	101	98	104	101	-	-	
943 P	98	98	97	100	97	103	100	-	-	

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

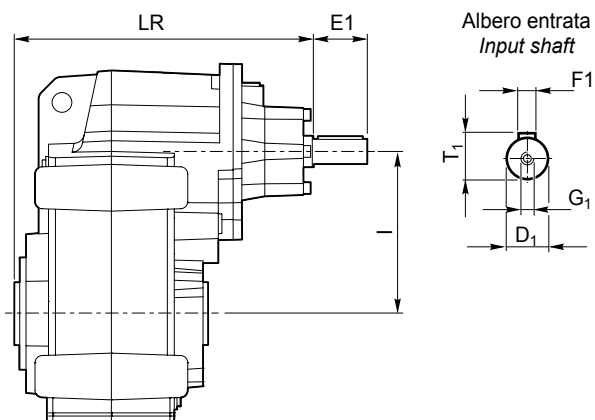




Dimensioni

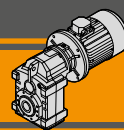
Dimensions

ITSIS...



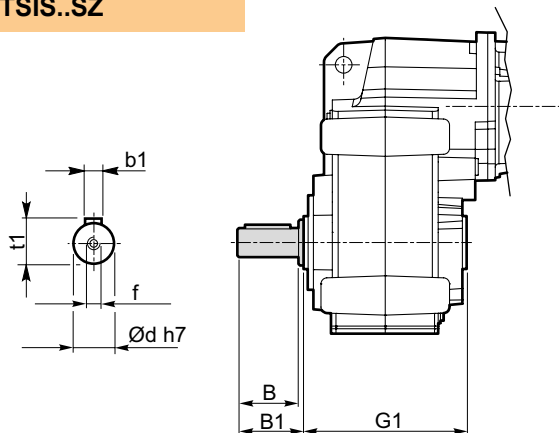
ITHIS	Versione Version	LR	D1	E1	I	T1	F1	G1
922	U P U/F... P/F...	315	28	60	173	31	8	M10
923		315	28	60	173	31	8	M10
932		330	28	60	180	31	8	M10
933		330	28	60	180	31	8	M10
942		375.5	38	80	235	41	10	M12
943		358	28	60	235	31	8	M10

ITHIS	Peso / Weight [kg]
922 U	43
922 P	43
923 U	46
923 P	45
932 U	56
932 P	55
933 U	60
933 P	59
942 U	99
942 P	98
943 U	100
943 P	99



Albero lento / Output shaft

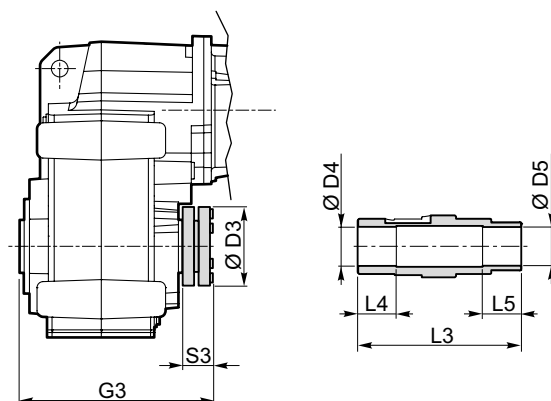
ITS...SZ
ITSIS..SZ



ITS	d h7	B	B1	G1	f	b1	t1	Peso / Weight [kg]
922 923	40	80	84	180	M16	12	43	2.2
932 933	50	100	105	210	M16	14	53.5	4.3
942 943	60	120	125	240	M20	18	64	7.1

Albero lento con calettatore / Output shaft with shrink disk

ITS...G...
ITSIS..G..



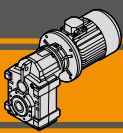
Albero lento con calettatore / Output shaft with shrink disk

ITS	D3	D4 H8	D5 H8	G3	L3	L4	L5	S3	G4	
922/3	G40	100	41	40	217.5	215	45	45	34.5	90
	G45	100	46	45	217.5	215	45	45	34.5	90
932/3	G50	110	51	50	247.5	245	50	50	34.5	105
942/3	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.

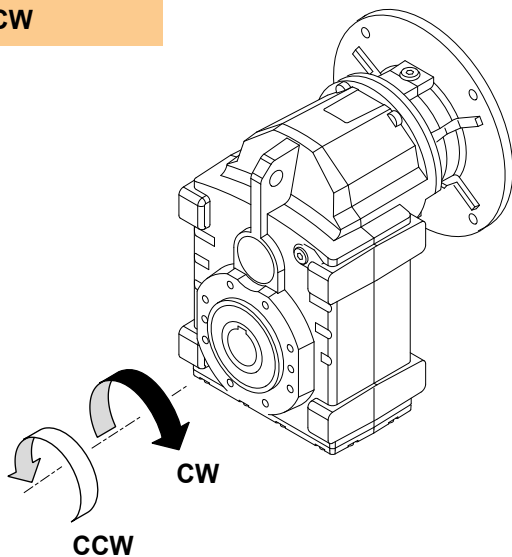
Output shaft kit with shrink disk available on request:
for assembly instructions please contact our Technical Service





Dispositivo antiretro / Backstop device

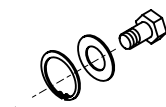
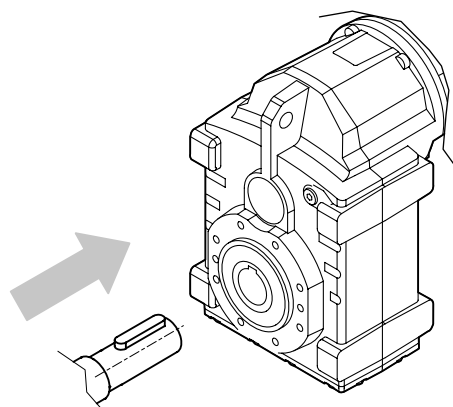
ITS...CW
ITS...CCW



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.

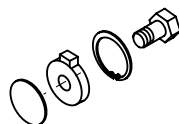
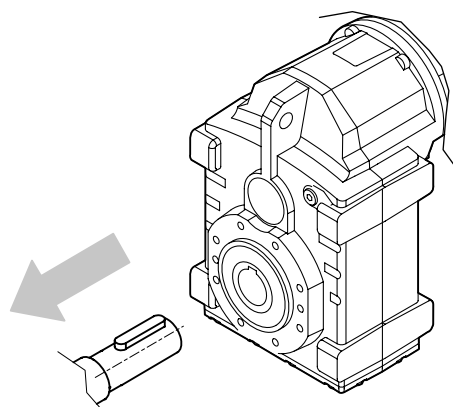
Kit di montaggio albero uscita / Output shaft assembly kit



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

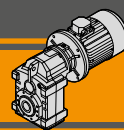
Output shaft assembly kit available upon request: for assembly instructions please contact our Technical Assistance

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.

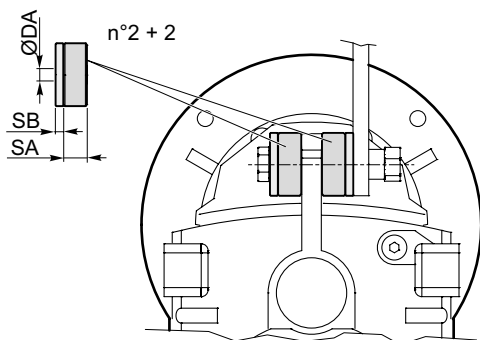
Output shaft disassembly kit available upon request: for assembly instructions please contact our Technical Assistance



Kit braccio di reazione / Torque arm kit

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

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



Braccio di reazione / Torque arm

ITS	ØDA	SA	SB
922 923	13	15	5
932 933	21	30	10
942 943	21	30	10

Appendice
Appendix

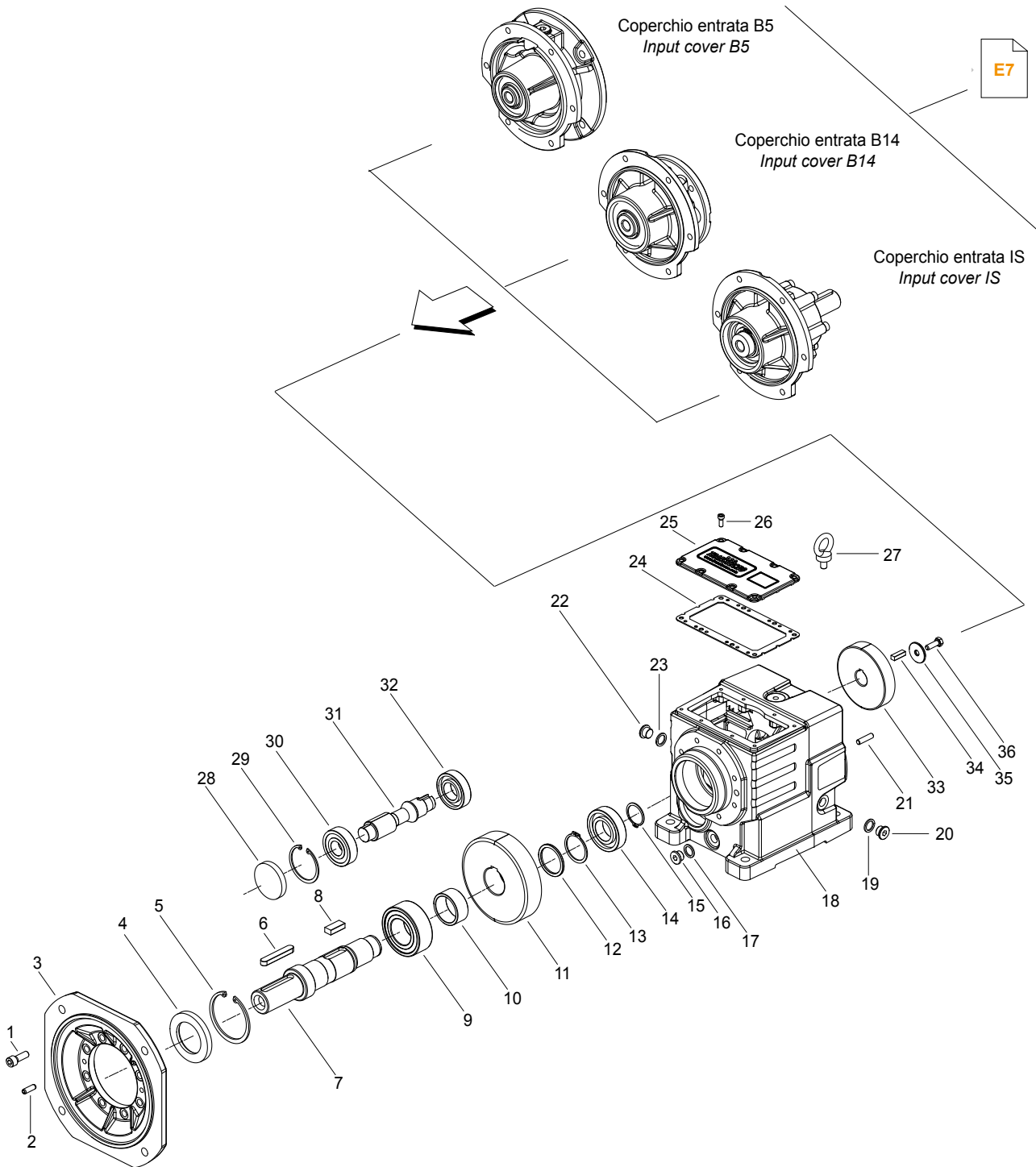


Indice	Index	Pag. Page
Liste parti di ricambio	<i>Spare parts list</i>	
ITH..2	<i>ITH..2</i>	E2
ITH..3	<i>ITH..3</i>	E3
ITB..	<i>ITB..</i>	E4
ITS..2	<i>ITS..2</i>	E5
ITS..3	<i>ITS..3</i>	E6
Coperchio entrata	<i>Input cover</i>	E7

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**

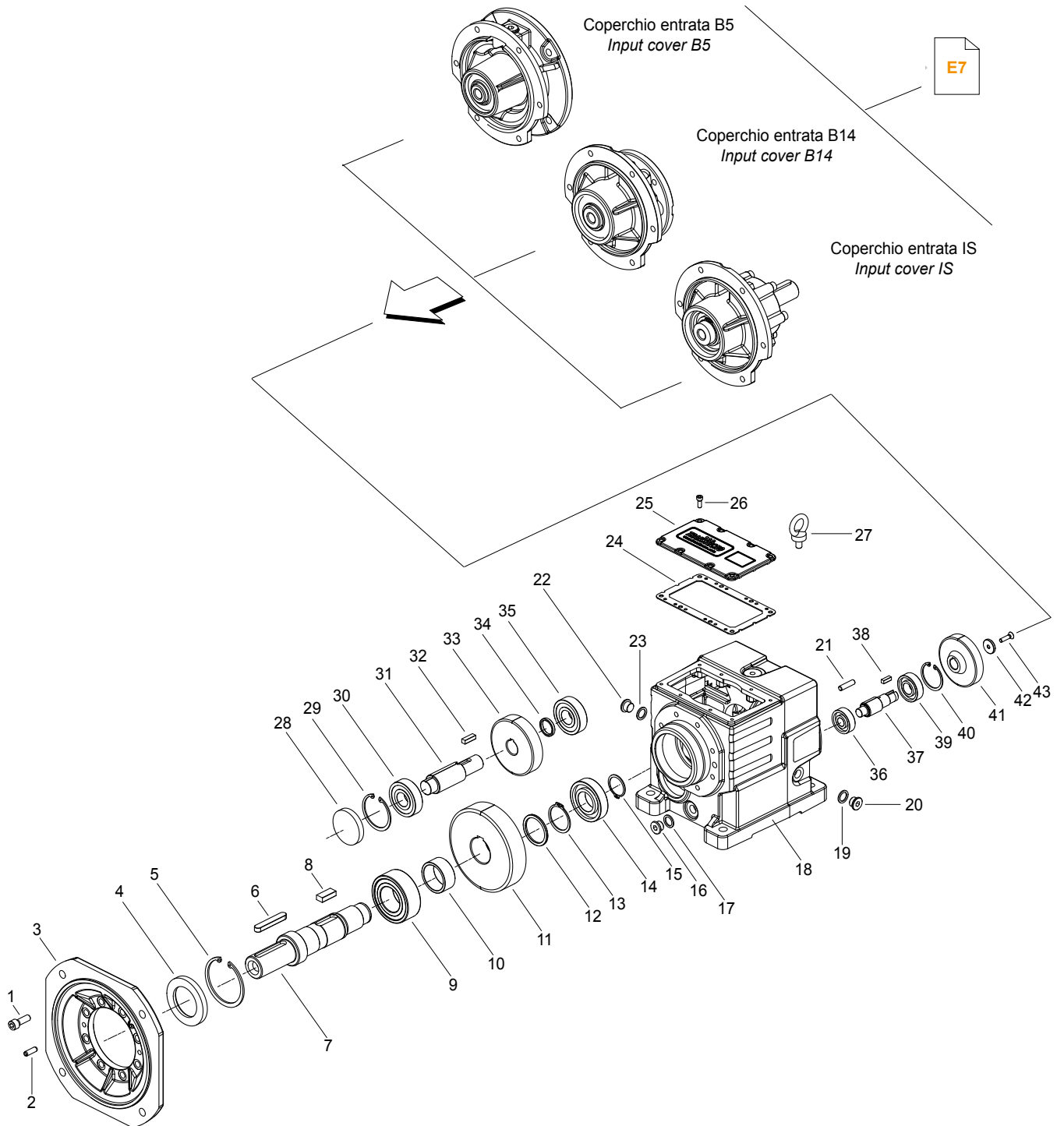
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ITH..2



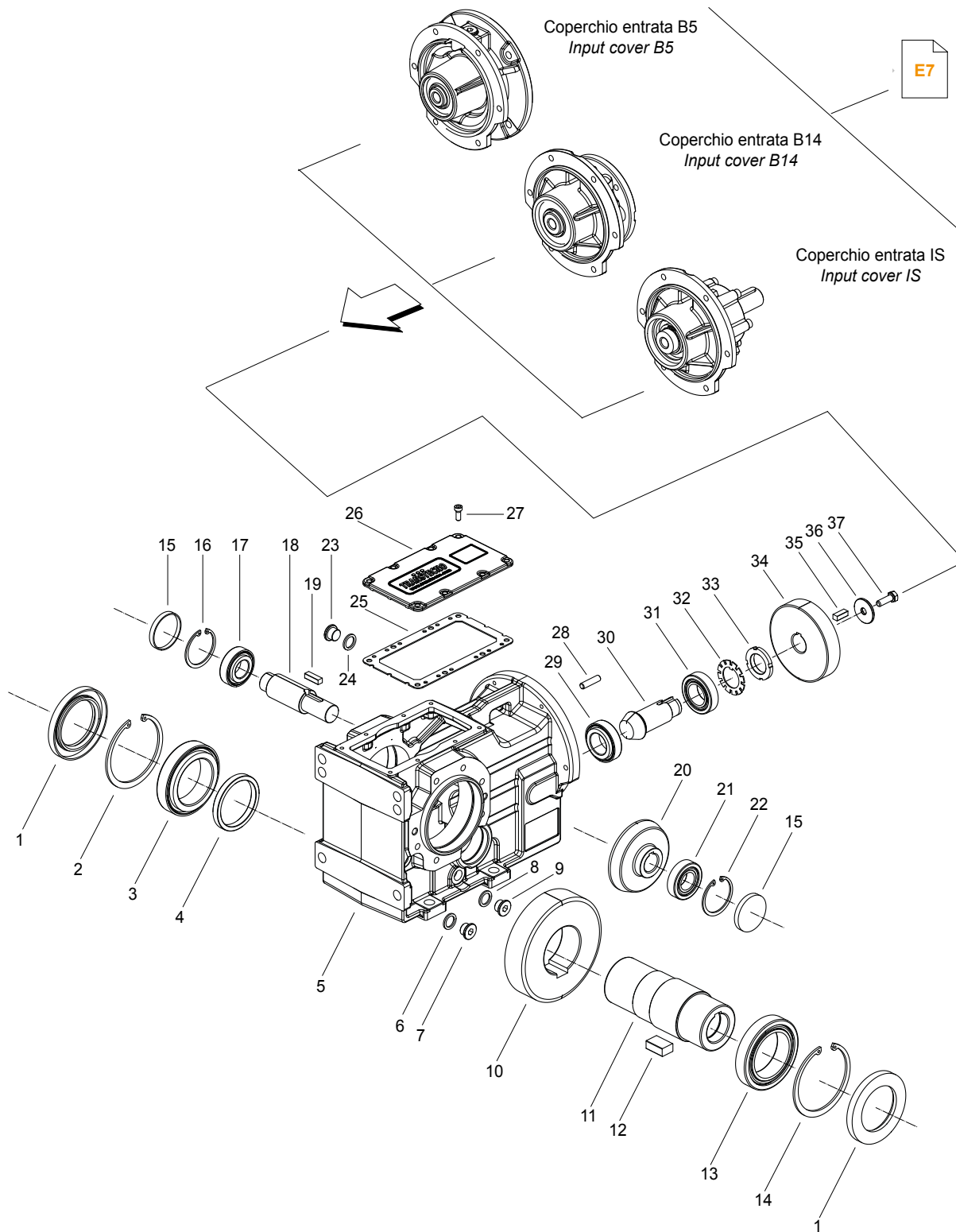
ITH	Anelli di tenuta / Oil seals	
	4	28
112	45/80/10	52x10
122	55/85/10	62x10
132	65/100/10	72x10
142	75/120/10	80x10

ITH..3



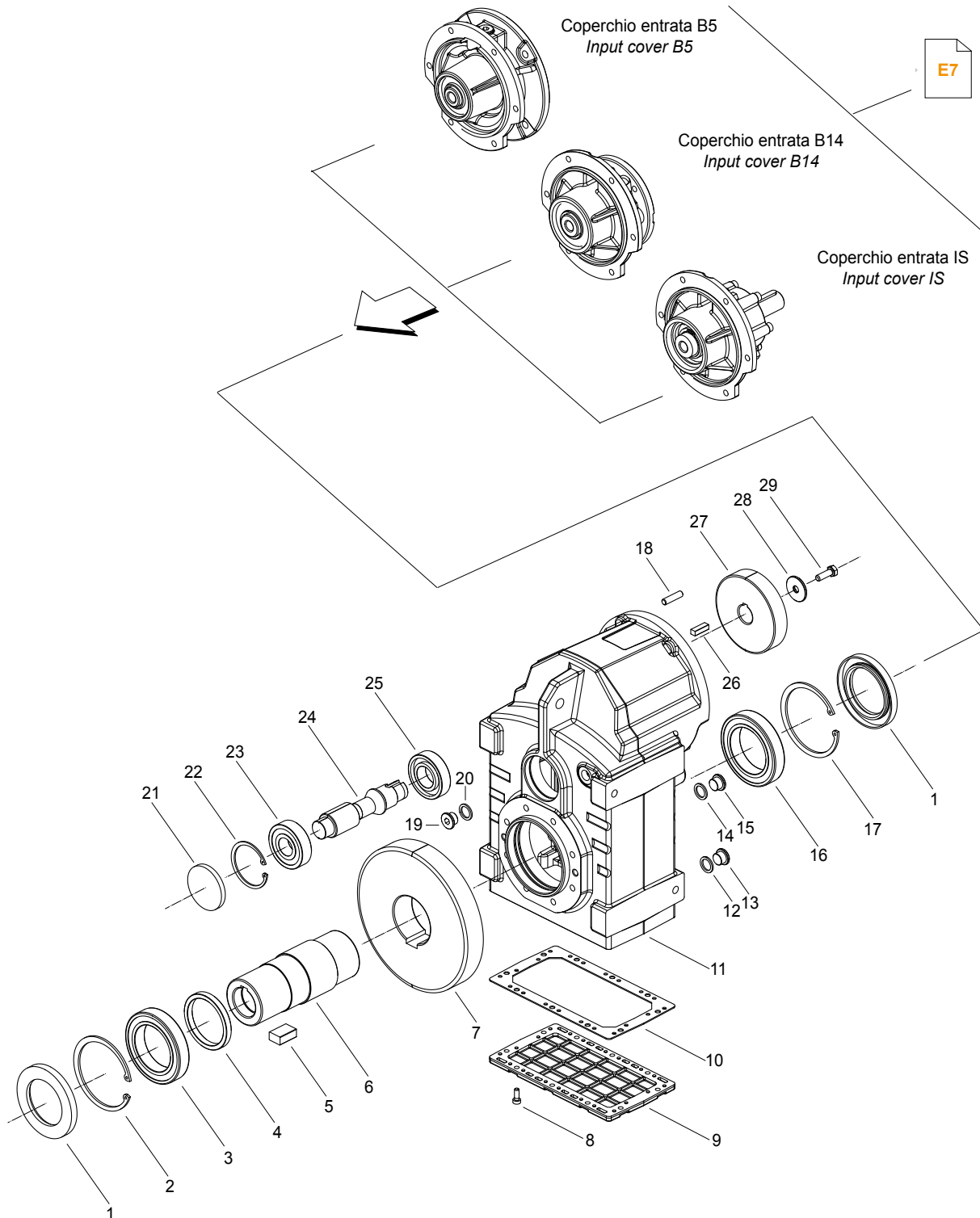
ITH	Anelli di tenuta / Oil seals	RCA
	4	28
113	45/80/10	52x10
123	55/85/10	62x10
133	65/100/10	72x10
143	75/120/10	80x10

ITB ..



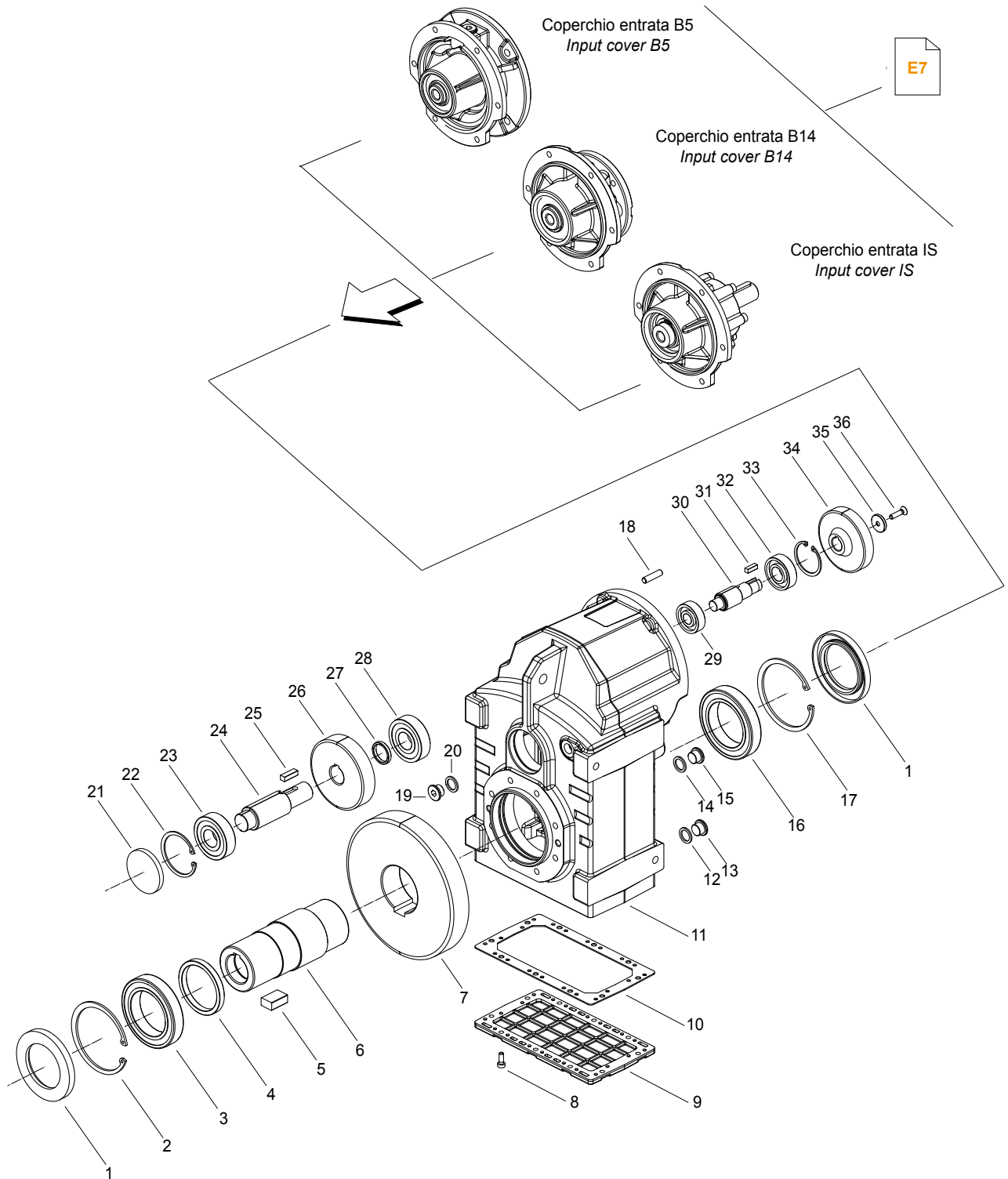
ITB	Anelli di tenuta / Oil seals	RCA
	1	15
423	65/100/10	52x7
433	70/110/12	72x10
443	85/130/10	80x10

ITS ..2



ITS	Anelli di tenuta / Oil seals	
		RCA
	1	21
922	65/100/10	62x7
932	70/110/12	62x7
942	85/130/10	72x10

ITS ..3

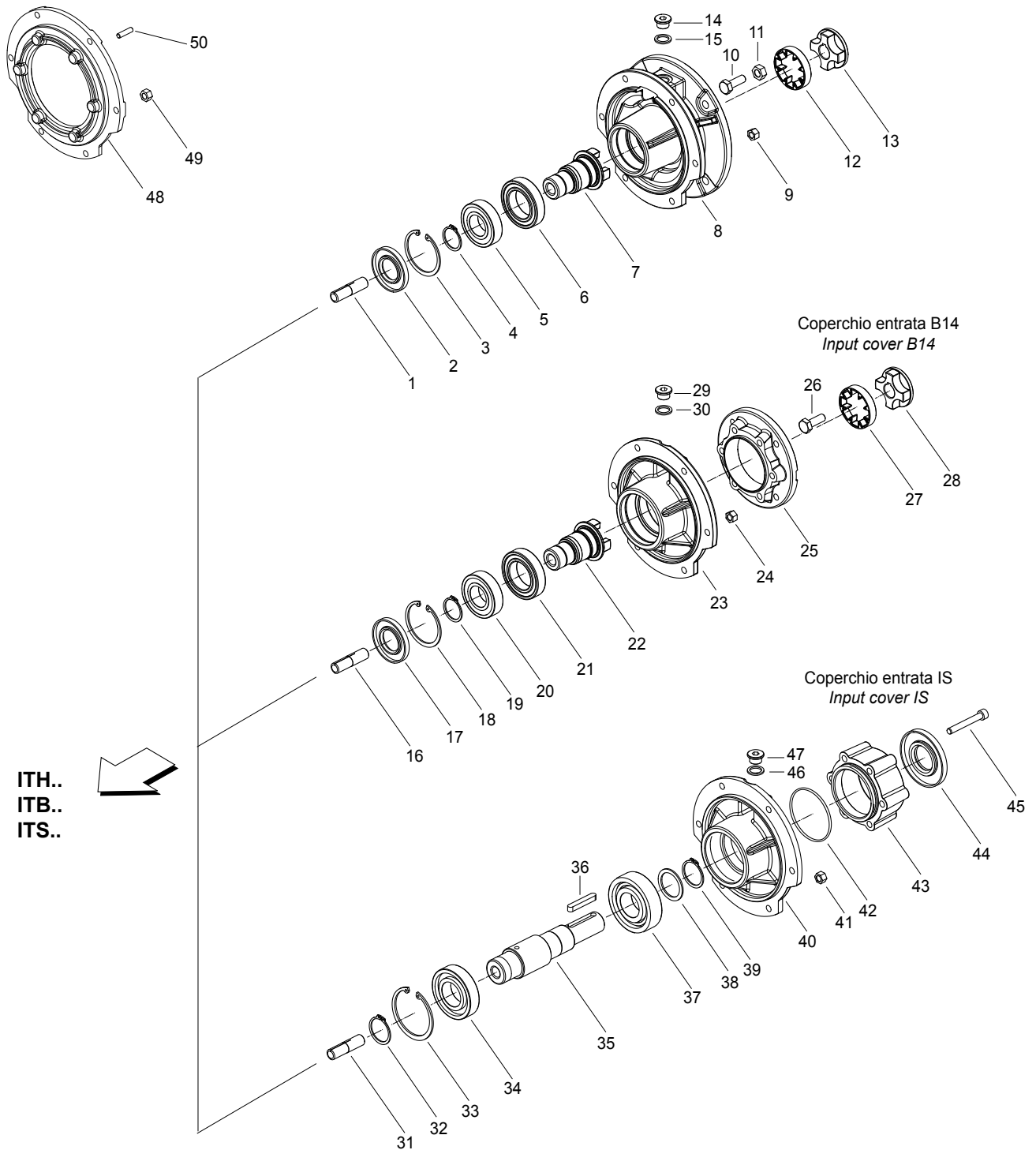


ITS	Anelli di tenuta / Oil seals	
		RCA
	1	21
923	65/100/10	62x10
933	70/110/12	62x10
943	85/130/10	72x10

COPERCHIO ENTRATA - INPUT COVER

Adattatore entrata...
Input adapter...

Coperchio entrata B5
Input cover B5



ITH..
ITB..
ITS..

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
132	40/80/10

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



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