

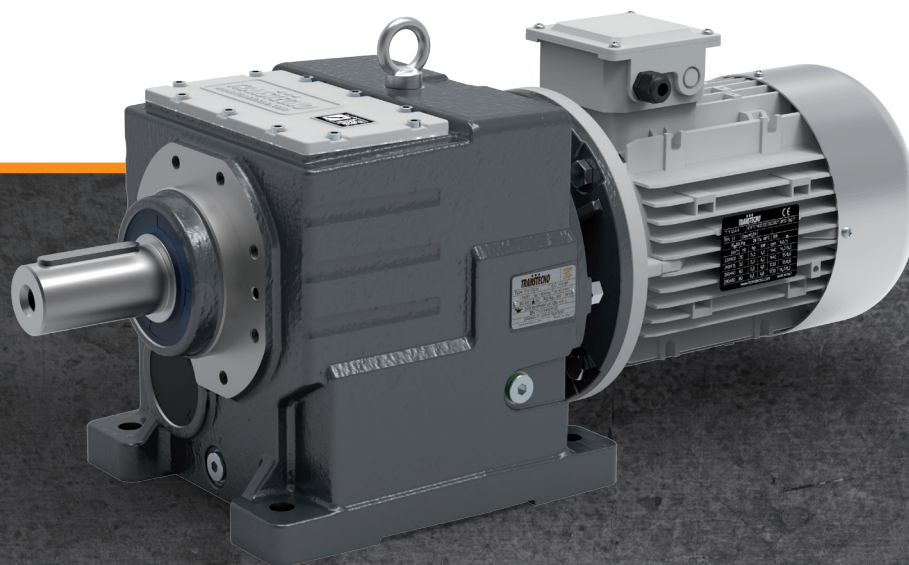
TRANSTECNO[®]
the modular gearmotor

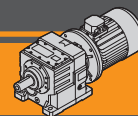
ITH

ITH



Motoriduttori ad ingranaggi cilindrici Helical in-line gearmotors

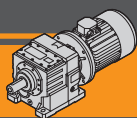




Indice	Index	Pag. Page
Caratteristiche tecniche	<i>Technical features</i>	B2
Versioni	<i>Versions</i>	B2
Designazione	<i>Classification</i>	B3
Sensi di rotazione	<i>Direction of rotation</i>	B3
Simbologia	<i>Symbols</i>	B3
Lubrificazione	<i>Lubrication</i>	B4
Carichi radiali in entrata	<i>Input radial 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

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

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

**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:

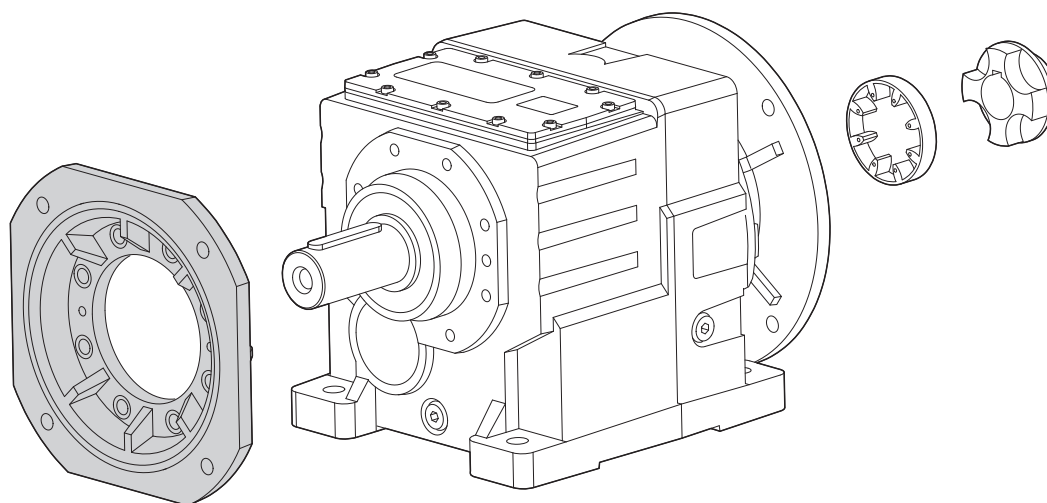
- Costruzione robusta con carcassa in ghisa;
- Elevata modularità;
- Lubrificazione con olio sintetico;
- Accoppiamento al motore tramite giunto elastico.
- Verniciatura a polvere epossidica RAL 7016 di spessore medio 0,10 – 0,15 mm.

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.

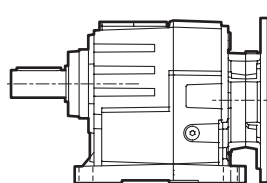
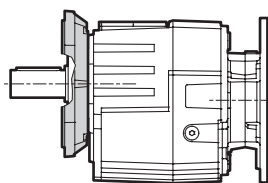
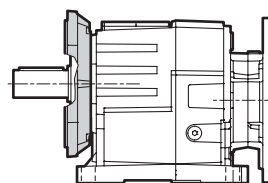
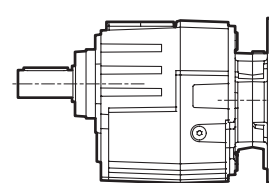
The main features of ITH range are:

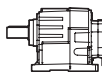
- Robust cast iron housings;
- High degree of modularity;
- Lubrication with synthetic oil;
- Coupled to motor with flexible coupling.
- Epoxy powder coating RAL 7016 average thickness 0,10 – 0,15 mm.

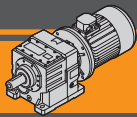


Versioni

Versions

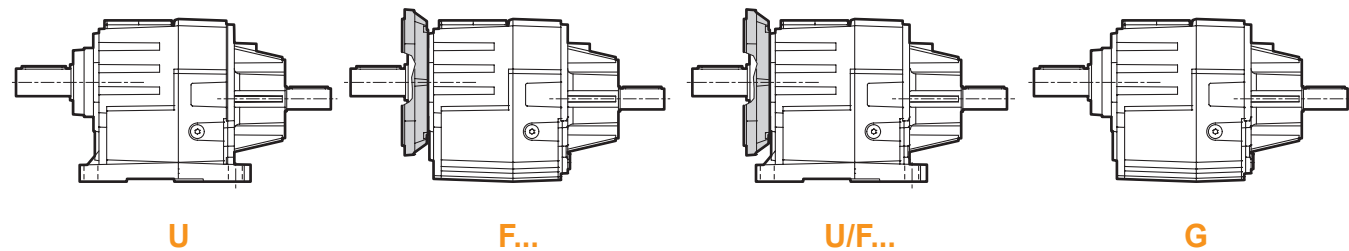
**U****F...****U/F...****G**

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

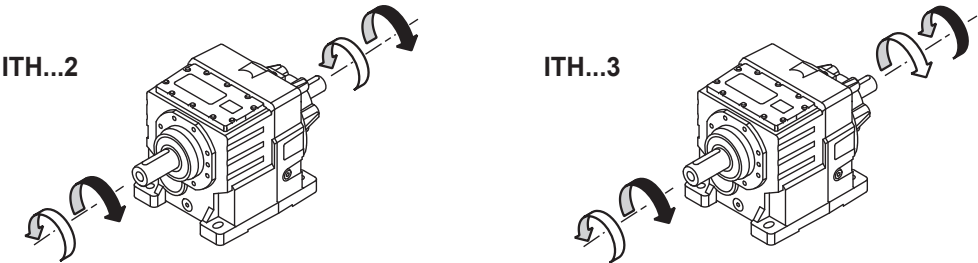


RIDUTTORE / GEARBOX						
ITHIS	12	2	H	26.28	D40	M1
Tipo Type	Grandezza Size	Stadi Stages	Versione Version	Rapporto Ratio	Albero uscita Output shaft	Pos. di montaggio Mounting position
ITHIS 	11 12 13 14	2 3	U F... U/F... G	vedi tabelle see tables	vedi tabelle see tables	M1 (B3) M2 (V6) M3 (B8) M4 (V5) 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) T3

Sensi di rotazione

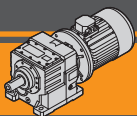
Direction of rotation



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
Pn_1 [kW]	Potenza nominale in entrata / Nominal input power
Mn_2 [Nm]	Coppia nominale in uscita in funzione di Pn_1 / Nominal output torque referred to Pn_1
sf	Fattore di servizio / Service factor
R_1 [N]	Carico radiale ammissibile in entrata / Permitted input radial load
A_1 [N]	Carico assiale ammissibile in entrata / Permitted input axial load
R_2 [N]	Carico radiale ammissibile in uscita / Permitted output radial load
A_2 [N]	Carico assiale ammissibile in uscita / Permitted output axial load

**ITH**

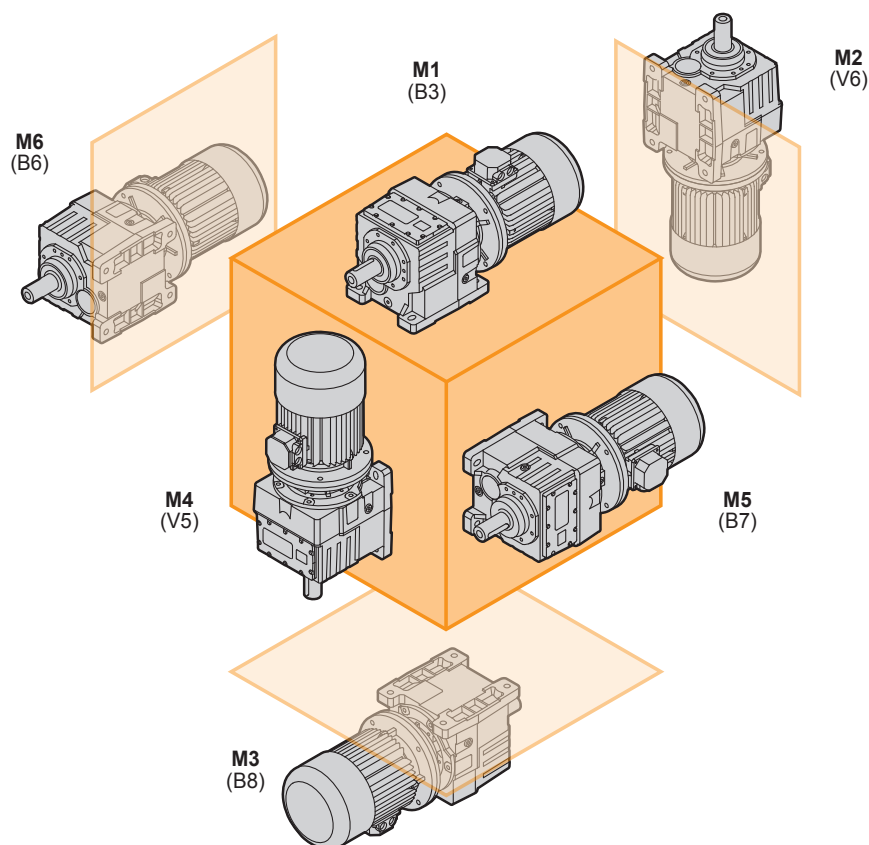
Motoriduttori ad ingranaggi cilindrici Helical in-line gearmotors

Lubrificazione

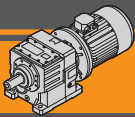
I motoriduttori della serie ITH sono forniti completi di lubrificante sintetico viscosità 320. La quantità di lubrificante dipende dalla posizione di montaggio.

Lubrication

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



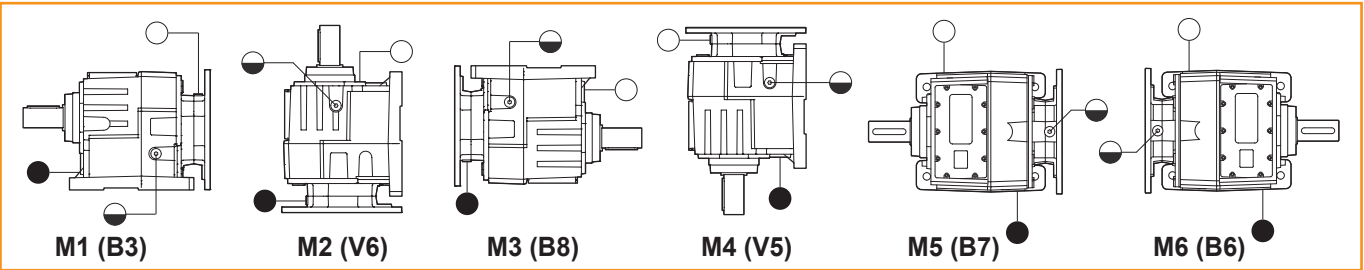
ITH	Quantità di olio (litri) / Oil quantity (litres)					
	M1 (B3)	M2 (V6)	M3 (B8)	M4 (V5)	M5 (B7)	M6 (B6)
112 113	1,1	3,9	3,7	3,4	2,4	2,4
122 123	1,7	5,0	4,3	4,3	3,1	2,9
132 133	4,5	9,5	8,3	8,6	5,9	5,7
142 143	8,1	14,5	11,5	14,4	9,4	9,0



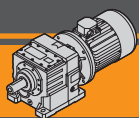
Lubrificazione

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

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

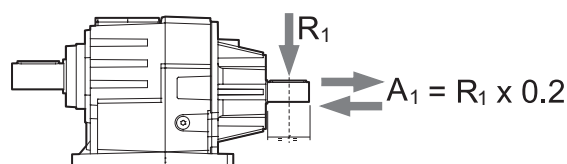
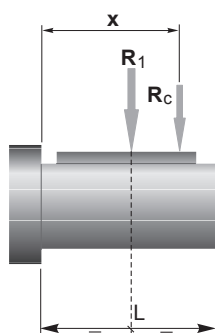
ITH 132 ITH 142	n ₁ [min ⁻¹]	Potenza motore/ Motor Power [kW]					
		5.5	7.5	9.2	11.0	15.0	18.5
R ₁ [N]	1400	3700				2800	1200
	900	4900			3300	650	-
	500	5250	3900	1300	-	-	-

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

Quando il carico radiale risultante non è applicato sulla mezzes-
sia 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	139
b	110	110	110	118	110	118	110	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

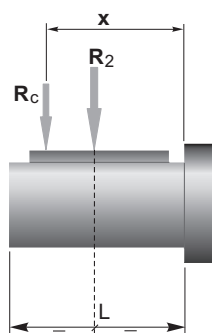
Carichi radiali in uscita**Output Radial loads**

I carichi radiali uscita massimi applicabili sono riportati nelle ta-
belle dati tecnici.

Quando il carico radiale risultante non è applicato sulla mezzes-
sia 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:

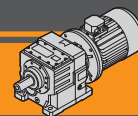


	ITH 112	ITH 113	ITH 122	ITH 123	ITH 132	ITH 133	ITH 142	ITH 143
a	184	208	247	286	149	168	197	226
b	8200	12500	18500	22500	8200	12500	18500	22500

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

$$R \leq R_c$$

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



Dati tecnici

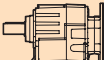
n_1 1400 min⁻¹

Technical data

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	R_2 [N]
---	-------------------------------	----------------	----------------	-----	--------------

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

	IEC Motori applicabili IEC Motor adapters					
---	--	--	--	--	--	--

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.



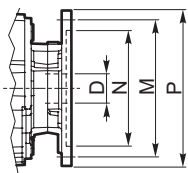
* = Il fattore di servizio (**sf**) deve essere scelto in funzione dell'applicazione: si prega di contattare il nostro Servizio Tecnico.



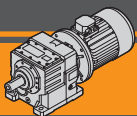
* = The service factor (**sf**) has to be selected depending on application: please contact our Technical Department.

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****n₁ 1400 min⁻¹****Technical data**

	n₂ [min ⁻¹]	Mn₂ [Nm]	Pn₁ [kW]	i	R₂ [N]
---	--	-------------------------------	-------------------------------	----------	-----------------------------

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

	IEC Motori applicabili IEC Motor adapters				
---	--	--	--	--	--

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.

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

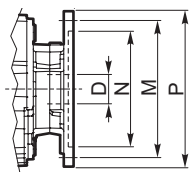
Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B11 alla pag. B19.

N.B.

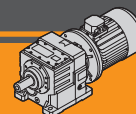
Highlighted areas indicate motor inputs available on each size of unit.

* = 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**

	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

 $n_1 \text{ 1400 min}^{-1}$

Technical data

	n₂ [min ⁻¹]	Mn₂ [Nm]	Pn₁ [kW]	i	R₂ [N]
---	--	-------------------------------	-------------------------------	----------	-----------------------------

THIS 132

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

 **IEC Motori applicabili**
IEC Motor adapters

ITH 132

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

THIS 133

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

ITH 133

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

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.

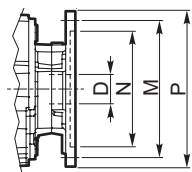
N.B.

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

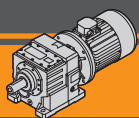


* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

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



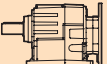
Dimensioni IEC / IEC Dimensions									
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5
N	130	130	95	180	110	230	130	250	250
M	165	165	115	215	130	265	165	300	300
P	200	200	140	250	160	300	200	350	350
D	19	24		28		38		42	48

**ITH****Motoriduttori ad ingranaggi cilindrici**
Helical in-line gearmotors**Dati tecnici** **n_1 1400 min⁻¹****Technical data**

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	R_2 [N]
---	-------------------------------	----------------	----------------	-----	--------------

ITHIS 142

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

	IEC Motori applicabili IEC Motor adapters					
--	--	--	--	--	--	--

ITH 142

100 B5/B14	112 B5/B14	132 B5/B14	160 B5	180 B5	200 B5
*	*				
*	*				
					*
					*
					*
					*
					*
				*	*
				*	*
				*	*
				*	*

ITHIS 143

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

ITH 143

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

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.

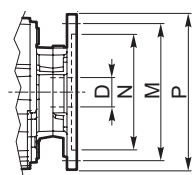
Prima di eseguire la scelta del motoriduttore riferirsi alle prestazioni elencate nelle tabelle dalla pag. B11 alla pag. B19.

N.B.

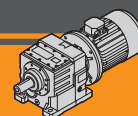
Highlighted areas indicate motor inputs available on each size of unit.

* = 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



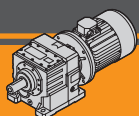
Dati tecnici

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]
0.25							
71A4 (1400 min ⁻¹)	54	43	14	26.16	ITH112	B5	8200
	39	60	11	36.35		B5	8200
	34	68	10	41.57		B5	8200
	29	79	7.6	48.27		B5	8200
	24	94	6.4	57.21		B5	8200
	25	89	7.9	55.27	ITH113	B5	8200
	21	108	6.5	67.61		B5	8200
	19	120	5.8	74.96		B5	8200
	15	147	4.8	91.70		B5	8200
	13	175	4.0	108.91		B5	8200
	10	219	3.2	136.65		B5	8200
	8.5	263	2.7	163.98		B5	8200
	8.1	278	2.5	173.44		B5	8200
	7.6	297	2.4	185.20		B5	8200
	6.9	323	2.2	201.58		B5	8200
	6.6	340	2.1	212.17		B5	8200
	6.2	363	1.9	226.55		B5	8200
	5.7	395	1.8	246.59		B5	8200
	7.9	285	3.4	178.10	ITH123	B5	12500
	6.9	326	3.0	203.65		B5	12500
	6.5	346	2.8	216.00		B5	12500
	5.9	379	2.6	236.49		B5	12500
	5.5	410	2.4	256.00		B5	12500
	5.0	449	2.2	280.29		B5	12500

0.37							
71B4 (1400 min ⁻¹)	54	63	9.5	26.16	ITH112	B5	8200
	39	88	7.7	36.35		B5	8200
	34	101	6.8	41.57		B5	8200
	29	117	5.1	48.27		B5	8200
	24	139	4.3	57.21		B5	8200
	25	131	5.3	55.27	ITH113	B5	8200
	21	160	4.4	67.61		B5	8200
	19	178	3.9	74.96		B5	8200
	15	218	3.2	91.70		B5	8200
	13	258	2.7	108.91		B5	8200
	10	324	2.2	136.65		B5	8200
	8.5	389	1.8	163.98		B5	8200
	8.1	411	1.7	173.44		B5	8200
	7.6	439	1.6	185.20		B5	8200
	6.9	478	1.5	201.58		B5	8200
	6.6	503	1.4	212.17		B5	8200
	6.2	537	1.3	226.55		B5	8200
	5.7	585	1.2	246.59		B5	8200
	7.9	423	2.3	178.10	ITH123	B5	12500
	6.9	483	2.0	203.65		B5	12500
	6.5	512	1.9	216.00		B5	12500
	5.9	561	1.7	236.49		B5	12500
	5.5	607	1.6	256.00		B5	12500
	5.0	665	1.5	280.29		B5	12500

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

**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]
------------------------	--	------------------------	----	---	---	---	-----------------------

0.55

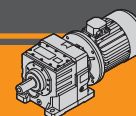
80A4 (1400 min ⁻¹)	23	215	8.8	60.92	ITH133	B5	18500
	22	228	8.3	64.74		B5	18500
	20	250	7.6	70.88		B5	18500
	18	276	6.9	78.38		B5	18500
	16	307	6.2	87.14		B5	18500
	15	337	5.6	95.67		B5	18500
	13	388	4.9	109.93		B5	18500
	12	424	4.5	120.36		B5	18500
	10	475	4.0	134.66		B5	18500
	9.5	522	3.6	147.98		B5	18500
	8.6	573	3.3	162.45		B5	18500
	7.3	675	2.8	191.39		B5	18500
	6.7	739	2.6	209.48		B5	18500
	6.1	814	2.3	230.85		B5	18500
	13	393	8.9	111.40	ITH143	B5	22500
	12	425	8.2	120.42		B5	22500
	11	465	7.5	131.84		B5	22500
	9.5	520	6.7	147.51		B5	22500
	8.6	572	6.1	162.10		B5	22500
	7.9	628	5.6	177.95		B5	22500
	7.2	684	5.1	193.96		B5	22500
	6.1	809	4.3	229.46		B5	22500
	5.5	892	3.9	252.87		B5	22500

0.75

80B4 (1400 min ⁻¹)	260	26	13	5.38	ITH112	B5	4390
	216	32	11	6.47		B5	4874
	178	39	10	7.88		B5	5441
	164	42	9.5	8.54		B5	5693
	155	44	9.4	9.06		B5	5881
	136	50	8.3	10.28		B5	6305
	123	56	8.6	11.39		B5	6669
	112	61	7.8	12.52		B5	7019
	95	73	6.9	14.80		B5	7680
	77	89	6.0	18.10		B5	8200
	69	99	5.3	20.25		B5	8200
	60	116	5.2	23.52		B5	8200
	54	128	4.7	26.16		B5	8200
	49	141	4.6	28.77		B5	8200
	44	158	4.3	32.18	ITH113	B5	8200
	39	179	3.8	36.35		B5	8200
	34	204	3.3	41.57		B5	8200
	29	237	2.5	48.27		B5	8200
	24	281	2.1	57.21		B5	8200
	25	266	2.6	55.27		B5	8200
	21	325	2.2	67.61		B5	8200
	19	361	1.9	74.96		B5	8200
	15	441	1.6	91.70		B5	8200
	13	524	1.3	108.91	ITH122	B5	11895
	10	657	1.1	136.65		B5	12500
	82	84	10	17.11		B5	12500
	72	96	8.9	19.50		B5	12500
	65	105	8.6	21.43		B5	12500
	58	118	8.3	24.00		B5	12500
	53	129	7.6	26.28		B5	12500
	48	144	6.8	29.40		B5	12500
	43	159	6.2	32.31		B5	12500
	39	174	5.6	35.47		B5	12500
	34	205	4.8	41.78		B5	12500
	31	225	4.4	45.73		B5	12500
	28	248	4.0	50.40		B5	12500

0.75

80B4 (1400 min ⁻¹)	25	269	3.6	56.00	ITH123	B5	12500
	23	295	3.3	61.31		B5	12500
	20	339	2.9	70.53		B5	12500
	17	390	2.5	81.00		B5	12500
	16	426	2.3	88.68		B5	12500
	13	506	1.9	105.23		B5	12500
	12	554	1.8	115.21		B5	12500
	11	619	1.6	128.73		B5	12500
	9.7	693	1.4	144.00		B5	12500
	8.9	758	1.3	157.66		B5	12500
	7.9	856	1.1	178.10		B5	12500
	6.9	979	1.0	203.65		B5	12500
	6.5	1039	0.9	216.00		B5	12500
	37	185	10	37.71	ITH132	B5	18500
	33	205	9.3	41.80		B5	18500
	31	224	8.5	45.60		B5	18500
	28	245	7.8	49.88		B5	18500
	23	293	6.5	60.92	ITH133	B5	18500
	22	311	6.1	64.74		B5	18500
	20	341	5.6	70.88		B5	18500
	18	377	5.0	78.38		B5	18500
	16	419	4.5	87.14		B5	18500
	15	460	4.1	95.67		B5	18500
	13	529	3.6	109.93		B5	18500
	12	579	3.3	120.36		B5	18500
	10	648	2.9	134.66		B5	18500
	9.5	712	2.7	147.98		B5	18500
	8.6	781	2.4	162.45	ITH143	B5	22500
	7.3	920	2.1	191.39		B5	22500
	6.7	1007	1.9	209.48		B5	22500
	6.1	1110	1.7	230.85		B5	22500
	18	382	9.2	79.43		B5	22500
	16	413	8.5	85.85		B5	22500
	13	536	6.5	111.40		B5	22500
	12	579	6.0	120.42		B5	22500
	11	634	5.5	131.84		B5	22500
	9.5	709	4.9	147.51	ITH143	B5	22500
	8.6	780	4.5	162.10		B5	22500
	7.9	856	4.1	177.95		B5	22500
	7.2	933	3.8	193.96		B5	22500
	6.7	1008	3.5	209.65		B5	22500
	6.1	1103	3.2	229.46		B5	22500
	5.5	1216	2.9	252.87		B5	22500



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

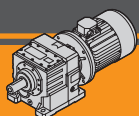
90S4 (1400 min ⁻¹)	260	39	9.0	5.38	ITH112	B5/14	4354
	216	47	7.5	6.47		B5/14	4825
	178	57	7.1	7.88		B5/14	5374
	164	62	6.5	8.54		B5/14	5617
	155	65	6.4	9.06		B5/14	5798
	136	74	5.7	10.28		B5/14	6204
	123	82	5.8	11.39		B5/14	6550
	112	90	5.3	12.52		B5/14	6881
	95	107	4.7	14.80		B5/14	7500
	77	130	4.1	18.10		B5/14	8200
	69	146	3.6	20.25		B5/14	8200
	60	169	3.5	23.52		B5/14	8200
	54	188	3.2	26.16		B5/14	8200
	49	207	3.1	28.77		B5/14	8200
	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
	21	477	1.5	67.61		B5/14	8200
	19	529	1.3	74.96		B5/14	8200
	15	647	1.1	91.70		B5/14	8200
	13	768	0.9	108.91		B5/14	8200
	159	64	10	8.82	ITH122	B5/14	8152
	139	73	10	10.08		B5/14	8778
	123	82	9.2	11.35		B5/14	9371
	105	96	8.9	13.30		B5/14	10218
	88	115	7.4	15.92		B5/14	11257
	82	123	6.9	17.11		B5/14	11698
	72	140	6.1	19.50		B5/14	12500
	65	154	5.8	21.43		B5/14	12500
	58	173	5.7	24.00		B5/14	12500
	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

1.1

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

1.5

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

**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]
------------------------	--	------------------------	----	---	---	---	-----------------------

1.5

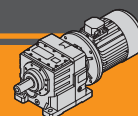
90L4 (1400 min ⁻¹)	271	50	11	5.17	ITH122	B5/14	6002
	209	66	8.4	6.69		B5/14	6929
	180	77	7.8	7.79		B5/14	7541
	159	87	7.5	8.82		B5/14	8073
	139	99	7.6	10.08		B5/14	8681
	123	111	6.7	11.35		B5/14	9253
	105	131	6.5	13.30		B5/14	10067
	88	156	5.4	15.92		B5/14	11056
	82	168	5.1	17.11		B5/14	11473
	72	192	4.4	19.50		B5/14	12254
	65	210	4.3	21.43		B5/14	12500
	58	236	4.2	24.00		B5/14	12500
	53	258	3.8	26.28		B5/14	12500
	48	289	3.4	29.40		B5/14	12500
	43	317	3.1	32.31		B5/14	12500
	39	348	2.8	35.47		B5/14	12500
	34	410	2.4	41.78		B5/14	12500
	31	449	2.2	45.73		B5/14	12500
	28	495	2.0	50.40		B5/14	12500
	25	539	1.8	56.00	ITH123	B5/14	12500
	23	590	1.7	61.31		B5/14	12500
	20	678	1.4	70.53		B5/14	12500
	17	779	1.3	81.00		B5/14	12500
	16	853	1.1	88.68		B5/14	12500
	13	1012	1.0	105.23		B5/14	12500
	155	89	10	9.03	ITH132	B5/14	18500
	136	101	9.4	10.30		B5/14	18500
	127	108	8.8	11.01		B5/14	18500
	113	122	9.9	12.39		B5/14	18500
	95	145	8.3	14.80		B5/14	18500
	93	148	8.8	15.11		B5/14	18500
	75	184	8.2	18.69		B5/14	18500
	69	199	8.0	20.31		B5/14	18500
	55	252	6.4	25.65		B5/14	18500
	51	270	6.3	27.48		B5/14	18500
	46	299	5.7	30.46		B5/14	18500
	40	340	5.6	34.61		B5/14	18500
	37	370	5.1	37.71		B5/14	18500
	33	411	4.6	41.80		B5/14	18500
	31	448	4.2	45.60		B5/14	18500
	28	490	3.9	49.88		B5/14	18500
	23	586	3.2	60.92	ITH133	B5/14	18500
	22	623	3.1	64.74		B5/14	18500
	20	682	2.8	70.88		B5/14	18500
	18	754	2.5	78.38		B5/14	18500
	16	838	2.3	87.14		B5/14	18500
	15	920	2.1	95.67		B5/14	18500
	13	1057	1.8	109.93		B5/14	18500
	12	1158	1.6	120.36		B5/14	18500
	10	1295	1.5	134.66		B5/14	18500
	9.5	1423	1.3	147.98		B5/14	18500
	8.6	1562	1.2	162.45		B5/14	18500
	7.3	1841	1.0	191.39		B5/14	18500

1.5

90L4 (1400 min ⁻¹)	23	594	5.9	61.74	ITH143	B5/14	22500
	21	642	5.5	66.73		B5/14	22500
	18	764	4.6	79.43		B5/14	22500
	16	826	4.2	85.85		B5/14	22500
	13	1072	3.3	111.40		B5/14	22500
	12	1158	3.0	120.42		B5/14	22500
	11	1268	2.8	131.84		B5/14	22500
	9.5	1419	2.5	147.51		B5/14	22500
	8.6	1559	2.2	162.10		B5/14	22500
	7.9	1712	2.0	177.95		B5/14	22500
	7.2	1866	1.9	193.96		B5/14	22500
	6.7	2016	1.7	209.65		B5/14	22500
	6.1	2207	1.6	229.46		B5/14	22500
	5.5	2432	1.4	252.87		B5/14	22500

1.85

90LB4 (1400 min ⁻¹)	260	65	5.4	5.38	ITH112	B5/14	4276
	216	78	4.5	6.47		B5/14	4721
	178	95	4.2	7.88		B5/14	5232
	164	103	3.9	8.54		B5/14	5455
	155	110	3.8	9.06		B5/14	5620
	136	125	3.4	10.28		B5/14	5987
	123	138	3.5	11.39		B5/14	6295
	112	152	3.2	12.52		B5/14	6584
	95	179	2.8	14.80		B5/14	7113
	77	219	2.4	18.10		B5/14	7761
	69	245	2.2	20.25		B5/14	8120
	60	285	2.1	23.52		B5/14	8200
	54	317	1.9	26.16		B5/14	8200
	49	349	1.9	28.77		B5/14	8200
	44	390	1.7	32.18		B5/14	8200
	39	440	1.5	36.35		B5/14	8200
	34	504	1.4	41.57		B5/14	8200
	29	585	1.0	48.27		B5/14	8200
	25	656	1.1	55.27	ITH113	B5/14	8200
	271	61	9.0	5.17	ITH122	B5/14	5973
	209	81	6.8	6.69		B5/14	6884
	180	94	6.4	7.79		B5/14	7485
	159	107	6.1	8.82		B5/14	8004
	139	122	6.1	10.08		B5/14	8595
	123	137	5.5	11.35		B5/14	9150
	105	161	5.3	13.30		B5/14	9935
	88	193	4.4	15.92		B5/14	10880
	82	207	4.1	17.11		B5/14	11276
	72	236	3.6	19.50		B5/14	12012
	65	260	3.5	21.43		B5/14	12500
	58	291	3.4	24.00		B5/14	12500
	53	318	3.1	26.28		B5/14	12500
	48	356	2.8	29.40		B5/14	12500
	43	391	2.5	32.31		B5/14	12500
	39	430	2.3	35.47		B5/14	12500
	34	506	1.9	41.78		B5/14	12500
	31	554	1.8	45.73		B5/14	12500
	28	611	1.6	50.40		B5/14	12500
	25	664	1.5	56.00	ITH123	B5/14	12500
	23	727	1.3	61.31		B5/14	12500
	20	837	1.2	70.53		B5/14	12500
	17	961	1.0	81.00		B5/14	12500
	16	1052	0.9	88.68		B5/14	12500



Dati tecnici

Technical data

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

1.85

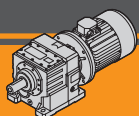
90LB4 (1400 min ⁻¹)	155	109	8.2	9.03	ITH132	B5/14	18500	
	136	125	7.6	10.30		B5/14	18500	
	127	133	7.1	11.01		B5/14	18500	
	113	150	8.0	12.39		B5/14	18500	
	95	179	6.7	14.80		B5/14	18500	
	93	183	7.1	15.11		B5/14	18500	
	75	226	6.6	18.69		B5/14	18500	
	69	246	6.5	20.31		B5/14	18500	
	55	311	5.1	25.65		B5/14	18500	
	51	333	5.1	27.48		B5/14	18500	
	46	369	4.6	30.46		B5/14	18500	
	40	419	4.5	34.61		B5/14	18500	
	37	457	4.2	37.71		B5/14	18500	
	33	506	3.8	41.80		B5/14	18500	
	31	552	3.4	45.60		B5/14	18500	
	28	604	3.1	49.88		B5/14	18500	
						ITH133		
	23	723	2.6	60.92	B5/14		18500	
	22	768	2.5	64.74	B5/14		18500	
	20	841	2.3	70.88	B5/14		18500	
	18	930	2.0	78.38	B5/14		18500	
	16	1034	1.8	87.14	B5/14		18500	
	15	1135	1.7	95.67	B5/14		18500	
	13	1304	1.5	109.93	B5/14		18500	
	12	1428	1.3	120.36	B5/14		18500	
	10	1597	1.2	134.66	B5/14		18500	
	9.5	1755	1.1	147.98	B5/14		18500	
	8.6	1927	1.0	162.45	B5/14		18500	
						ITH143		
	23	732	4.8	61.74	B5/14		22500	
	21	792	4.4	66.73	B5/14		22500	
	18	942	3.7	79.43	B5/14		22500	
	16	1018	3.4	85.85	B5/14		22500	
	13	1322	2.6	111.40	B5/14		22500	
	12	1428	2.5	120.42	B5/14		22500	
	11	1564	2.2	131.84	B5/14		22500	
	9.5	1750	2.0	147.51	B5/14		22500	
	8.6	1923	1.8	162.10	B5/14		22500	
	7.9	2111	1.7	177.95	B5/14		22500	
	7.2	2301	1.5	193.96	B5/14		22500	
	6.7	2487	1.4	209.65	B5/14		22500	
	6.1	2722	1.3	229.46	B5/14		22500	
	5.5	3000	1.2	252.87	B5/14	22500		

2.2

100LA4 (1400 min ⁻¹)	260	77	4.5	5.38	ITH112	B5/14	4240
	216	93	3.8	6.47		B5/14	4672
	178	113	3.5	7.88		B5/14	5166
	164	123	3.3	8.54		B5/14	5379
	155	131	3.2	9.06		B5/14	5537
	136	148	2.8	10.28		B5/14	5886
	123	164	2.9	11.39		B5/14	6175
	112	180	2.7	12.52		B5/14	6446
	95	213	2.3	14.80		B5/14	6933
	77	261	2.0	18.10		B5/14	7513
	69	292	1.8	20.25		B5/14	7823
	60	339	1.8	23.52		B5/14	8200
	54	377	1.6	26.16		B5/14	8200
	49	414	1.6	28.77		B5/14	8200
	44	464	1.5	32.18		B5/14	8200
	39	524	1.3	36.35		B5/14	8200
	34	599	1.1	41.57		B5/14	8200

2.2

100LA4 (1400 min ⁻¹)	271	73	7.5	5.17	ITH122	B5/14	5944
	209	96	5.7	6.69		B5/14	6840
	180	112	5.3	7.79		B5/14	7428
	159	127	5.1	8.82		B5/14	7935
	139	145	5.2	10.08		B5/14	8510
	123	164	4.6	11.35		B5/14	9047
	105	192	4.4	13.30		B5/14	9803
	88	229	3.7	15.92		B5/14	10704
	82	247	3.4	17.11		B5/14	11079
	72	281	3.0	19.50		B5/14	11770
	65	309	2.9	21.43		B5/14	12276
	58	346	2.8	24.00		B5/14	12500
	53	379	2.6	26.28		B5/14	12500
	48	424	2.3	29.40		B5/14	12500
	43	465	2.1	32.31		B5/14	12500
	39	511	1.9	35.47		B5/14	12500
	34	602	1.6	41.78		B5/14	12500
	31	659	1.5	45.73		B5/14	12500
	28	726	1.3	50.40		B5/14	12500
	25	790	1.2	56.00		ITH123	B5/14
	23	865	1.1	61.31	B5/14		12500
	20	995	1.0	70.53	B5/14		12500
	155	130	6.9	9.03	ITH132	B5/14	18500
	136	148	6.4	10.30		B5/14	18500
	127	159	6.0	11.01		B5/14	18500
	113	179	6.7	12.39		B5/14	18500
	95	213	5.6	14.80		B5/14	18500
	93	218	6.0	15.11		B5/14	18500
	75	269	5.6	18.69		B5/14	18500
	69	293	5.5	20.31		B5/14	18500
	55	370	4.3	25.65		B5/14	18500
	51	396	4.3	27.48		B5/14	18500
	46	439	3.9	30.46		B5/14	18500
	40	499	3.8	34.61		B5/14	18500
	37	543	3.5	37.71		B5/14	18500
	33	602	3.2	41.80		B5/14	18500
	31	657	2.9	45.60		B5/14	18500
	28	719	2.6	49.88		B5/14	18500
	23	859	2.2	60.92		ITH133	B5/14
	22	913	2.1	64.74	B5/14		18500
	20	1000	1.9	70.88	B5/14		18500
	18	1106	1.7	78.38	B5/14		18500
	16	1229	1.5	87.14	B5/14		18500
	15	1350	1.4	95.67	B5/14		18500
	13	1551	1.2	109.93	B5/14		18500
	12	1698	1.1	120.36	B5/14		18500
	10	1900	1.0	134.66	B5/14	18500	
	85	236	9.7	16.40	ITH142	B5/14	22500
	69	292	9.6	20.24		B5/14	22500
	54	374	8.5	25.99		B5/14	22500
	43	466	6.9	32.35		B5/14	22500
	32	628	5.1	43.57		B5/14	22500
	30	682	4.7	47.35		B5/14	22500
	27	746	4.3	51.76		B5/14	22500

**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

100LA4 (1400 min ⁻¹)	23	871	4.0	61.74	ITH143	B5/14	22500
	21	941	3.7	66.73		B5/14	22500
	18	1120	3.1	79.43		B5/14	22500
	16	1211	2.9	85.85		B5/14	22500
	13	1572	2.2	111.40		B5/14	22500
	12	1699	2.1	120.42		B5/14	22500
	11	1860	1.9	131.84		B5/14	22500
	9.5	2081	1.7	147.51		B5/14	22500
	8.6	2287	1.5	162.10		B5/14	22500
	7.9	2510	1.4	177.95		B5/14	22500
	7.2	2736	1.3	193.96		B5/14	22500
	6.7	2957	1.2	209.65		B5/14	22500
	6.1	3237	1.1	229.46		B5/14	22500
	5.5	3567	1.0	252.87		B5/14	22500

3.0

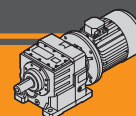
100LB4 (1400 min ⁻¹)	260	106	3.3	5.38	ITH112	B5/14	4157
	216	127	2.8	6.47		B5/14	4561
	178	155	2.6	7.88		B5/14	5014
	164	168	2.4	8.54		B5/14	5207
	155	178	2.4	9.06		B5/14	5348
	136	202	2.1	10.28		B5/14	5654
	123	224	2.1	11.39		B5/14	5903
	112	246	2.0	12.52		B5/14	6130
	95	291	1.7	14.80		B5/14	6521
	77	356	1.5	18.10		B5/14	6946
	69	398	1.3	20.25		B5/14	7146
	60	462	1.3	23.52		B5/14	7350
	54	514	1.2	26.16		B5/14	7437
	49	565	1.2	28.77		B5/14	7459
	44	632	1.1	32.18		B5/14	7402
	39	714	1.0	36.35		B5/14	7212
	271	99	5.5	5.17	ITH122	B5/14	5878
	209	131	4.2	6.69		B5/14	6738
	180	153	3.9	7.79		B5/14	7298
	159	173	3.8	8.82		B5/14	7777
	139	198	3.8	10.08		B5/14	8315
	123	223	3.4	11.35		B5/14	8812
	105	261	3.3	13.30		B5/14	9500
	88	313	2.7	15.92		B5/14	10302
	82	336	2.5	17.11		B5/14	10628
	72	383	2.2	19.50		B5/14	11215
	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

3.0

100LB4 (1400 min ⁻¹)	155	177	5.1	9.03	ITH132	B5/14	18500
	136	202	4.7	10.30		B5/14	18500
	127	216	4.4	11.01		B5/14	18500
	113	243	4.9	12.39		B5/14	18500
	95	291	4.1	14.80		B5/14	18500
	93	297	4.4	15.11		B5/14	18500
	75	367	4.1	18.69		B5/14	18500
	69	399	4.0	20.31		B5/14	18500
	55	504	3.2	25.65		B5/14	18500
	51	540	3.1	27.48		B5/14	18500
	46	598	2.8	30.46		B5/14	18500
	40	680	2.8	34.61		B5/14	18500
	37	741	2.6	37.71		B5/14	18500
	33	821	2.3	41.80	ITH133	B5/14	18500
	31	896	2.1	45.60		B5/14	18500
	28	980	1.9	49.88		B5/14	18500
	23	1172	1.6	60.92		B5/14	18500
	22	1245	1.5	64.74		B5/14	18500
	20	1363	1.4	70.88		B5/14	18500
	18	1508	1.3	78.38		B5/14	18500
	16	1676	1.1	87.14		B5/14	18500
	15	1840	1.0	95.67		B5/14	18500
	110	251	8.8	12.78	ITH142	B5/14	22500
	99	277	8.3	14.08		B5/14	22500
	85	322	7.1	16.40		B5/14	22500
	69	398	7.0	20.24		B5/14	22500
	54	511	6.3	25.99		B5/14	22500
	43	636	5.0	32.35	ITH143	B5/14	22500
	32	856	3.7	43.57		B5/14	22500
	30	930	3.4	47.35		B5/14	22500
	27	1017	3.1	51.76		B5/14	22500
	23	1188	2.9	61.74		B5/14	22500
	21	1284	2.7	66.73		B5/14	22500
	18	1528	2.3	79.43		B5/14	22500
	16	1651	2.1	85.85		B5/14	22500
	13	2143	1.6	111.40		B5/14	22500
	12	2316	1.5	120.42		B5/14	22500
	11	2536	1.4	131.84		B5/14	22500
	9.5	2838	1.2	147.51		B5/14	22500
	8.6	3118	1.1	162.10		B5/14	22500
	7.9	3423	1.0	177.95		B5/14	22500

4.0

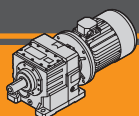
112M4 (1400 min ⁻¹)	260	141	2.5	5.38	ITH112	B5/14	4053
	216	169	2.1	6.47		B5/14	4422
	178	206	1.9	7.88		B5/14	4824
	164	224	1.8	8.54		B5/14	4991
	155	237	1.8	9.06		B5/14	5111
	136	269	1.6	10.28		B5/14	5365
	123	298	1.6	11.39		B5/14	5563
	112	328	1.5	12.52		B5/14	5735
	95	388	1.3	14.80		B5/14	6005
	77	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



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]
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	ITH132	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
									72	702	1.2	19.50		B5/B14	9484
	155	237	3.8	9.03		B5/14	18353		65	772	1.2	21.43		B5/B14	9622
	136	270	3.5	10.30	ITH133	B5/14	18500		58	864	1.1	24.00	ITH132	B5/B14	9712
	127	288	3.3	11.01		B5/14	18500		53	946	1.0	26.28		B5/B14	9710
	113	325	3.7	12.39		B5/14	18500		48	1059	0.9	29.40		B5/B14	9593
	95	388	3.1	14.80		B5/14	18500								
	93	396	3.3	15.11		B5/14	18500		278	178	4.8	5.03	ITH132	B5/B14	13316
	75	490	3.1	18.69		B5/14	18500		230	219	3.9	6.09		B5/B14	14674
	69	532	3.0	20.31		B5/14	18500		203	249	3.6	6.91		B5/B14	15633
	55	672	2.4	25.65		B5/14	18500		186	270	3.3	7.51		B5/B14	16290
	51	720	2.4	27.48		B5/14	18500		167	301	3.0	8.36		B5/B14	17159
	46	798	2.1	30.46		B5/14	18500		155	325	2.8	9.03		B5/B14	17797
	40	907	2.1	34.61		B5/14	18500		136	371	2.6	10.30		B5/B14	18500
	37	988	1.9	37.71		B5/14	18500		127	396	2.4	11.01		B5/B14	18500
	33	1095	1.7	41.80		B5/14	18500		113	446	2.7	12.39		B5/B14	18500
	31	1194	1.6	45.60		B5/14	18500		95	533	2.3	14.80		B5/B14	18500
	28	1306	1.5	49.88	ITH142	B5/14	18500		93	544	2.4	15.11	ITH142	B5/B14	18500
									75	673	2.2	18.69		B5/B14	18500
	23	1562	1.2	60.92		B5/14	18500		69	731	2.2	20.31		B5/B14	18500
	22	1660	1.1	64.74		B5/14	18500		55	924	1.7	25.65		B5/B14	18500
	20	1818	1.0	70.88		B5/14	18500		51	990	1.7	27.48		B5/B14	18500
	18	2010	0.9	78.38		B5/14	18500		46	1097	1.5	30.46		B5/B14	18500
									40	1246	1.5	34.61		B5/B14	18500
	110	335	6.6	12.78		B5/14	22500		37	1358	1.4	37.71		B5/B14	18500
	99	369	6.2	14.08		B5/14	22500		33	1506	1.3	41.80		B5/B14	18500
	85	429	5.4	16.40		B5/14	22500		31	1642	1.2	45.60		B5/B14	18500
	69	530	5.3	20.24	ITH143	B5/14	22500		28	1796	1.1	49.88		B5/B14	18500
	54	681	4.7	25.99		B5/14	22500								
	43	847	3.8	32.35		B5/14	22500		228	217	8.3	6.15	ITH142	B5/B14	21811
	32	1141	2.8	43.57		B5/14	22500		190	265	6.8	7.35		B5/B14	22500
	30	1240	2.6	47.35		B5/14	22500		158	320	6.3	8.88		B5/B14	22500
	27	1356	2.4	51.76		B5/14	22500		144	351	5.7	9.75		B5/B14	22500
									135	373	5.6	10.35		B5/B14	22500
	23	1583	2.2	61.74		B5/14	22500		120	419	5.0	11.65		B5/B14	22500
	21	1712	2.0	66.73		B5/14	22500		110	460	4.8	12.78		B5/B14	22500
	18	2037	1.7	79.43		B5/14	22500		99	507	4.5	14.08		B5/B14	22500
	16	2202	1.6	85.85		B5/14	22500		85	591	3.9	16.40		B5/B14	22500
	13	2857	1.2	111.40		B5/14	22500		79	639	4.4	17.73		B5/B14	22500
	12	3088	1.1	120.42		B5/14	22500		69	729	3.8	20.24		B5/B14	22500
	11	3381	1.0	131.84		B5/14	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

**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]
------------------------	--	------------------------	----	---	---	---	-----------------------

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

7.5

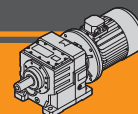
132MA4 (1400 min ⁻¹)	260	264	1.3	5.38	ITH112	B5/B14	3691
	216	318	1.1	6.47		B5/B14	3935
	178	387	1.0	7.88		B5/B14	4160
	164	420	1.0	8.54		B5/B14	4235
	155	445	0.9	9.06		B5/B14	4282
	271	249	2.2	5.17	ITH122	B5/B14	5505
	209	328	1.7	6.69		B5/B14	6166
	180	383	1.6	7.79		B5/B14	6569
	159	433	1.5	8.82		B5/B14	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

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	ITH122	B5/B14	6554
	139	607	1.2	10.08		B5/B14	6805
	123	684	1.1	11.35		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	ITH132	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
	228	363	5.0	6.15		B5/B14	21179
	190	443	4.1	7.35	ITH142	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



Dati tecnici

Technical data

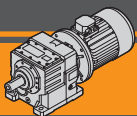
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]
11.0							
160M4 (1400 min ⁻¹)	228	434	4.1	6.15	ITH142	B5	20871
	190	529	3.4	7.35		B5	22500
	158	640	3.1	8.88		B5	22500
	144	702	2.8	9.75		B5	22500
	135	745	2.8	10.35		B5	22500
	120	839	2.5	11.65		B5	22500
	110	920	2.4	12.78		B5	22500
	99	1014	2.3	14.08		B5	22500
	85	1181	1.9	16.40		B5	22500
	79	1277	2.2	17.73		B5	22500
	69	1458	1.9	20.24		B5	22500
	54	1872	1.7	25.99		B5	22500
	50	2024	1.6	28.10		B5	22500
	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

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

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			R ₂ [N]
22.0							
180L4 (1400 min ⁻¹)	278	710	1.2	5.03	ITH132	B5	10941
	230	878	1.0	6.09		B5	11394
	228	868	2.1	6.15	ITH142	B5	18992
	190	1059	1.7	7.35		B5	20034
	158	1280	1.6	8.88		B5	21065
	144	1404	1.4	9.75		B5	21474
	135	1491	1.4	10.35		B5	21693
	120	1678	1.3	11.65		B5	22000
	110	1840	1.2	12.78		B5	22097
	99	2028	1.1	14.08		B5	22028
	85	2362	1.0	16.40		B5	21475
	79	2555	1.1	17.73		B5	20928
	69	2916	1.0	20.24		B5	19494

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



ITH

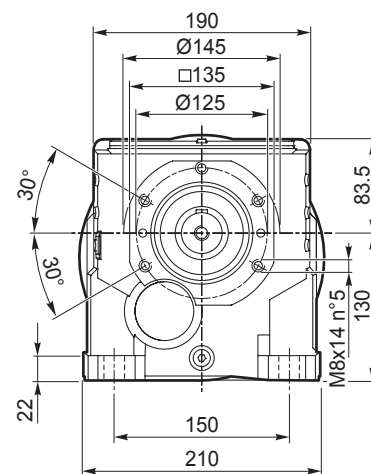
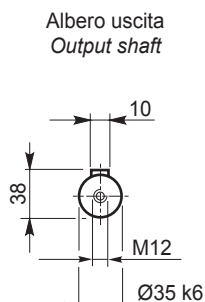
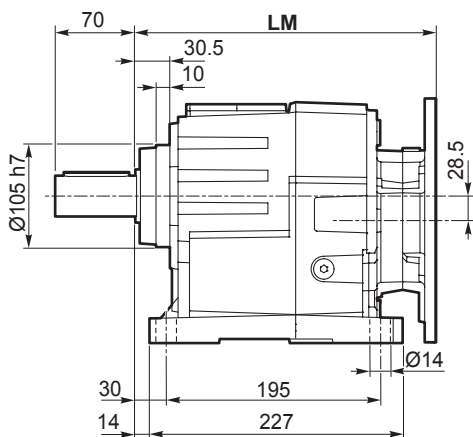
Motoriduttori ad ingranaggi cilindrici
Helical in-line gearmotors

Dimensioni

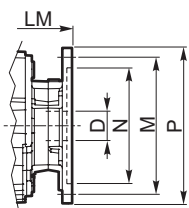
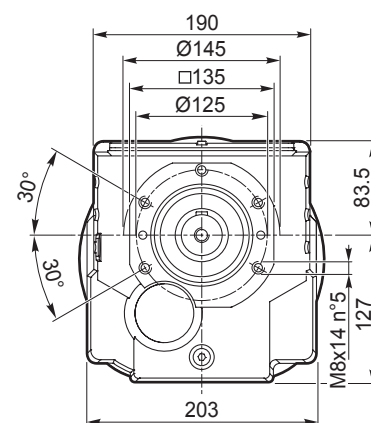
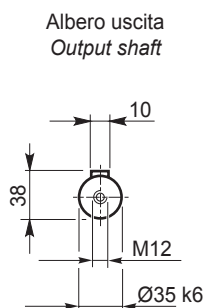
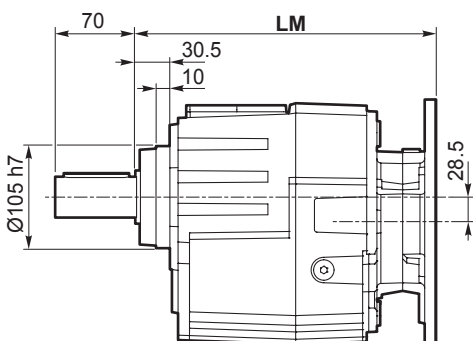
Dimensions

ITH 112 - ITH 113

ITH 112 U
ITH 113 U

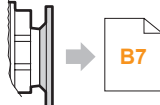


ITH 112 G
ITH 113 G

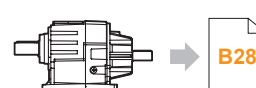


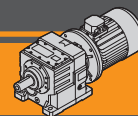
Dimensioni IEC / IEC Dimensions								
	71 B5	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14
LM	289			293,5	293	293,5	314	
N	110	130	130	95	180	110	230	130
M	130	165	165	115	215	130	265	165
P	160	200	200	130	250	160	300	200
D	14	19	24		28		38	

IEC Motori applicabili
IEC Motor adapters



ITHIS 112...
ITHIS 113...



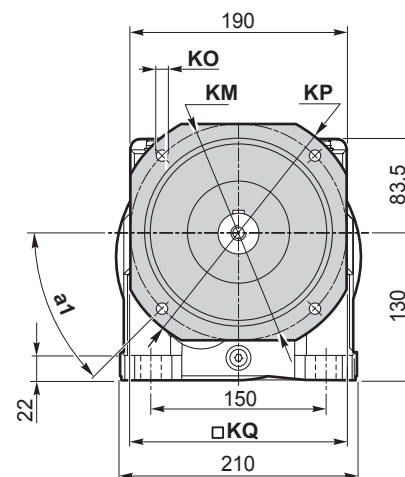
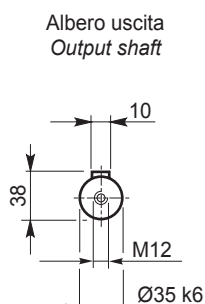
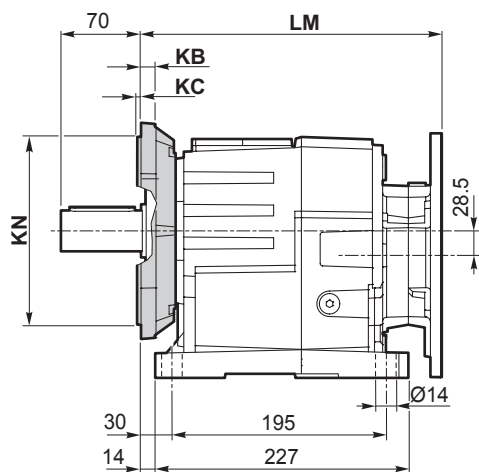


Dimensioni

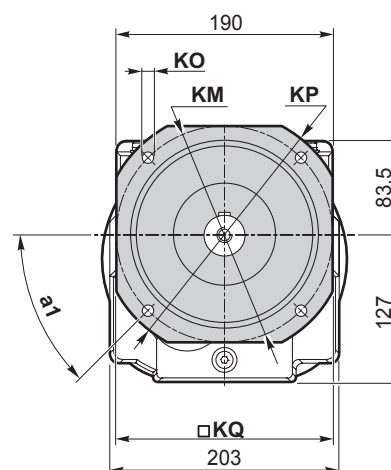
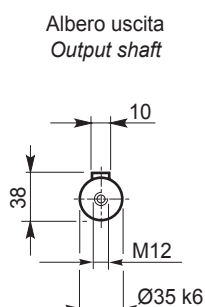
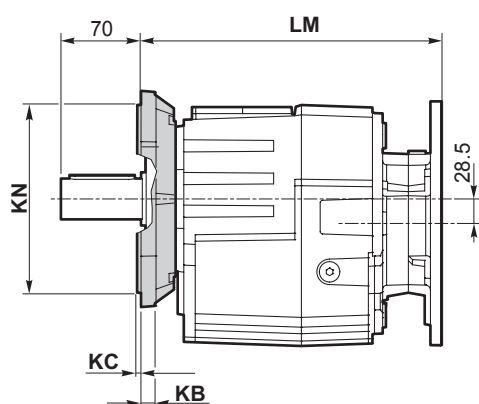
Dimensions

ITH 112 - ITH 113

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



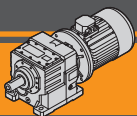
ITH 112 F...
ITH 113 F...



Versione F / F Version										
ITH	a ₁	KB	KC	KM	KN f7	KO	KP	KQ	Flangia / Flange	Peso / Weight [kg]
									Tipo / Type	
112 113	45°	12	4	165	130	11	200	165	F200	2.1
	45°	12	4	215	180	14	250	215	F250	3.2

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



ITH

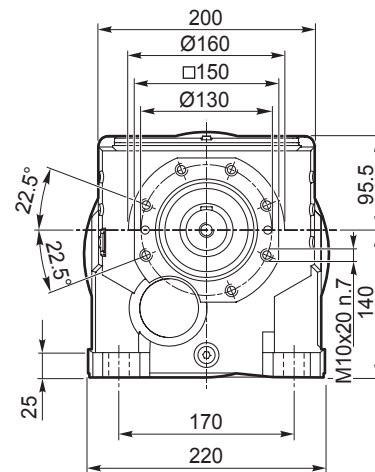
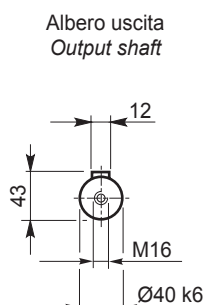
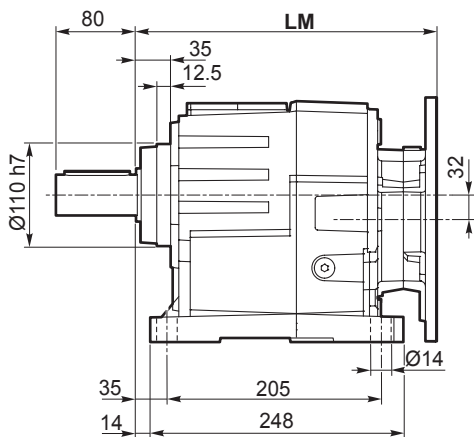
Motoriduttori ad ingranaggi cilindrici
Helical in-line gearmotors

Dimensioni

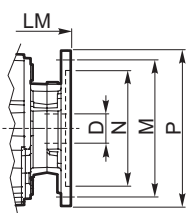
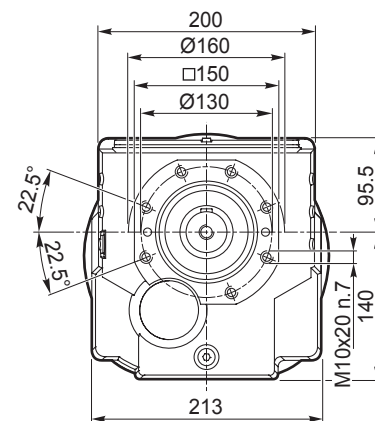
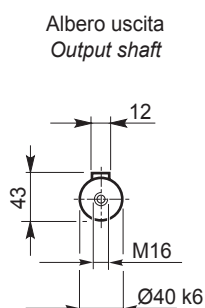
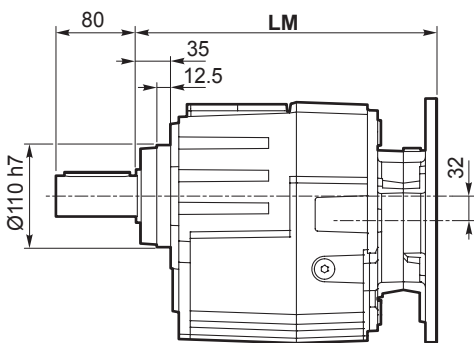
Dimensions

ITH 122 - ITH 123

ITH 122 U
ITH 123 U

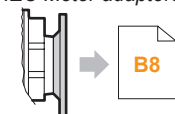


ITH 122 G
ITH 123 G

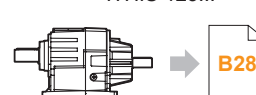


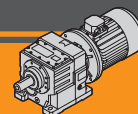
Dimensioni IEC / IEC Dimensions								
	71 B5	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14
LM	309.5			314	313.5	314	334.5	
N	110	130	130	95	180	110	230	130
M	130	165	165	115	215	130	265	165
P	160	200	200	130	250	160	300	200
D	14	19	24		28		38	

IEC Motori applicabili
IEC Motor adapters



ITHIS 122...
ITHIS 123...



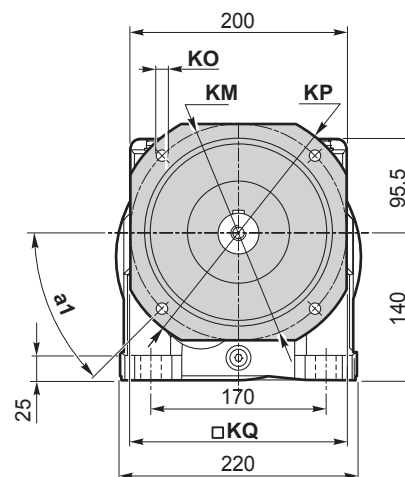
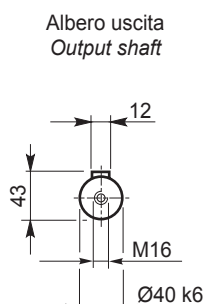
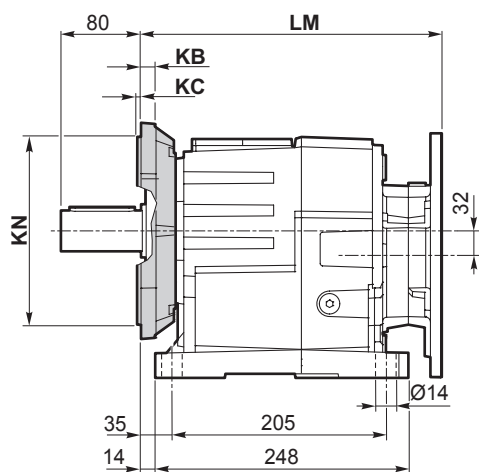


Dimensioni

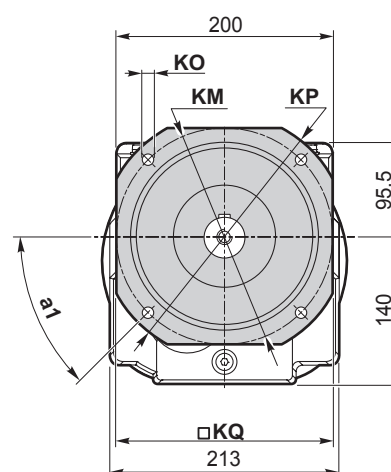
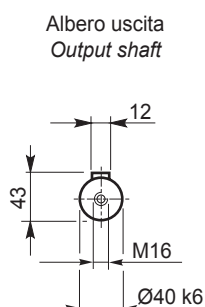
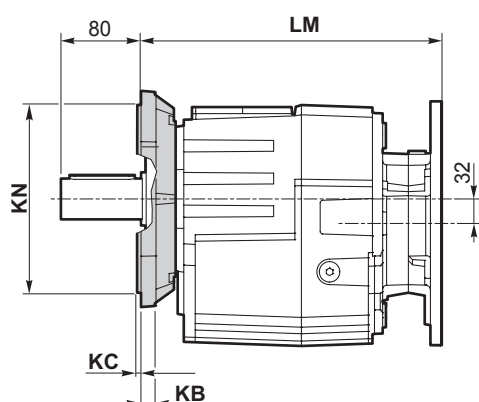
Dimensions

ITH 122- ITH 123

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



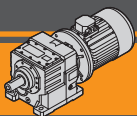
ITH 122 F...
ITH 123 F...



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



ITH

Motoriduttori ad ingranaggi cilindrici
Helical in-line gearmotors

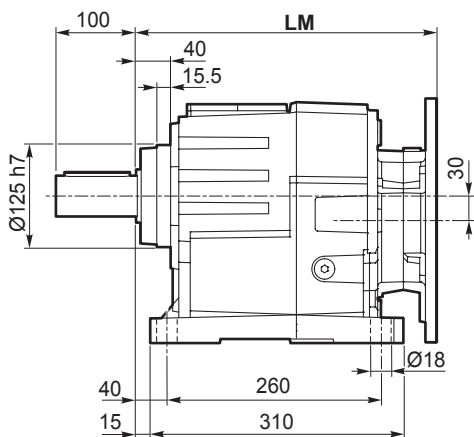
Dimensioni

Dimensions

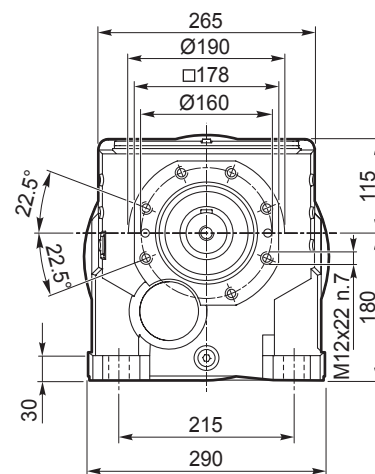
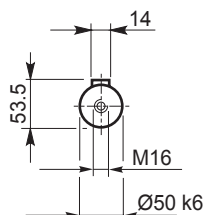
ITH 132 - ITH 133

ITH 132 U

ITH 133 U

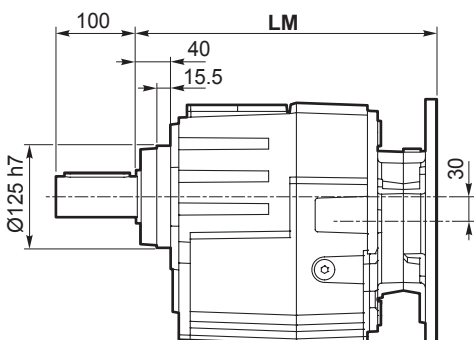


Albero uscita
Output shaft

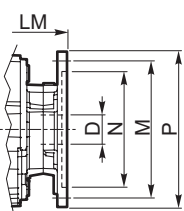
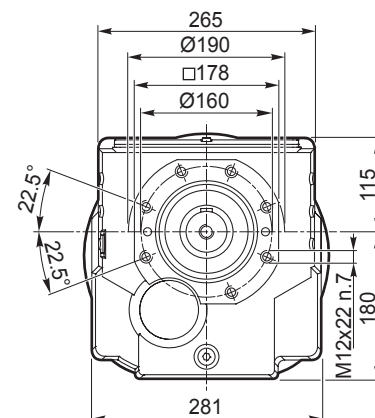
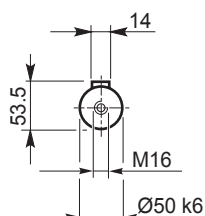


ITH 132 G

ITH 133 G



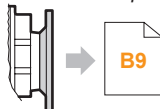
Albero uscita
Output shaft



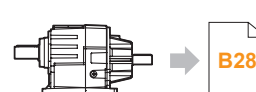
Dimensioni IEC / IEC Dimensions

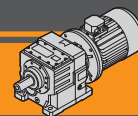
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5
LM	340.5		345	344.5	345	365.5		415.5	
N	130		95	180	110	230	130	250	
M	165		115	215	130	265	165	300	
P	200		140	250	160	300	200	350	
D	19	24		28		38		42	48

IEC Motori applicabili
IEC Motor adapters



ITHIS 132...
ITHIS 133...



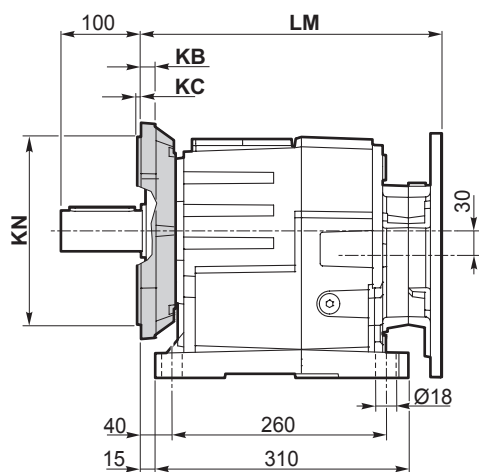


Dimensioni

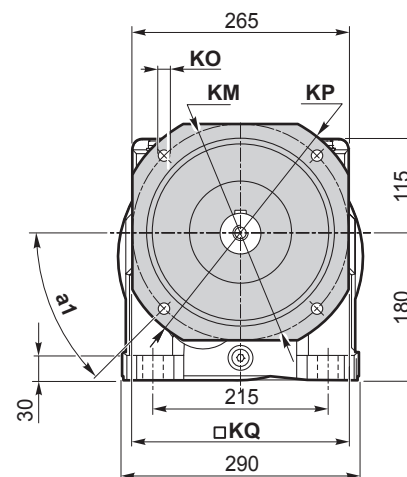
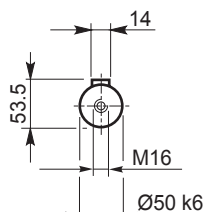
Dimensions

ITH 132- ITH 133

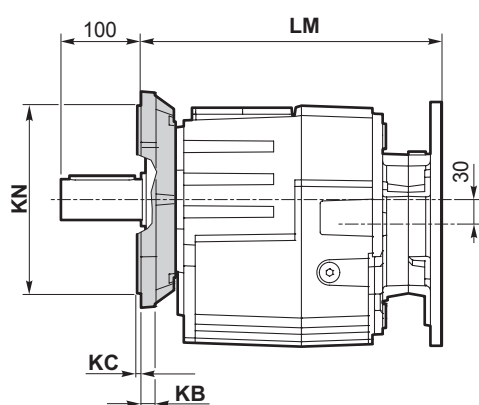
ITH 132 U/F...
ITH 133 U/F...



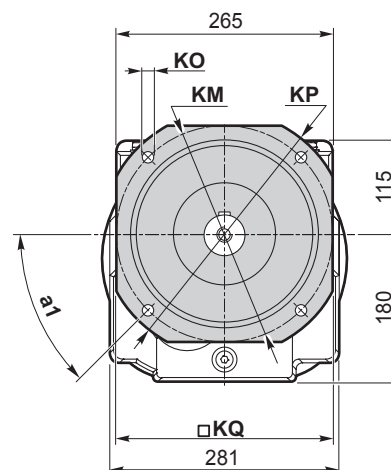
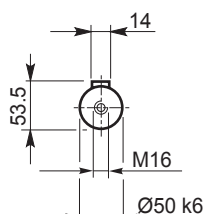
Albero uscita
Output shaft



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



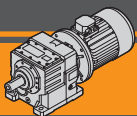
Albero uscita
Output shaft



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



ITH

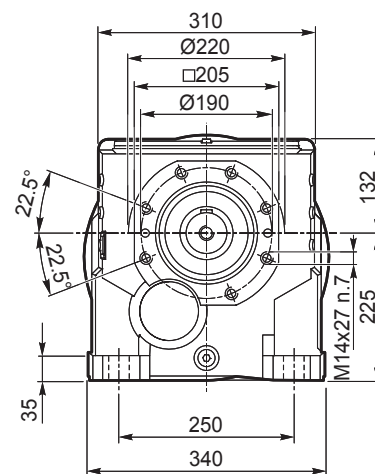
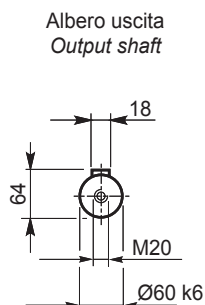
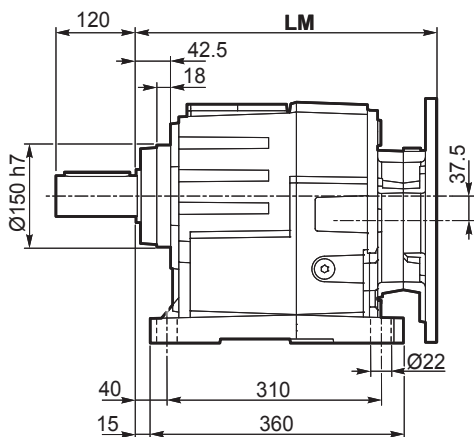
Motoriduttori ad ingranaggi cilindrici
Helical in-line gearmotors

Dimensioni

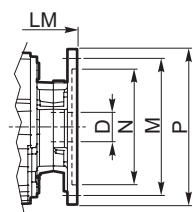
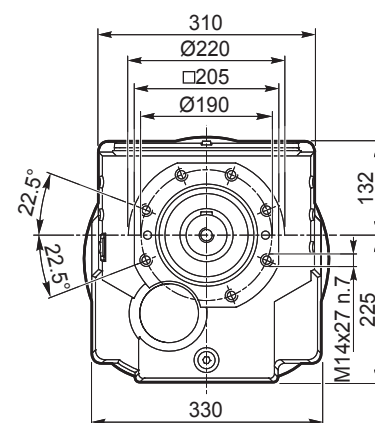
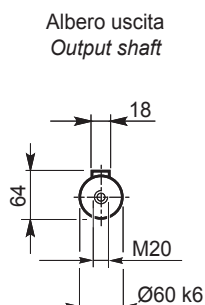
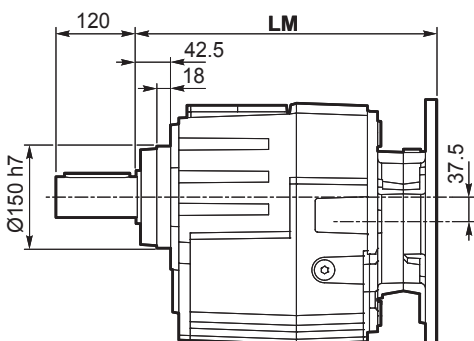
Dimensions

ITH 142 - ITH 143

ITH 142 U
ITH 143 U

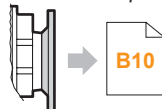


ITH 142 G
ITH 143 G

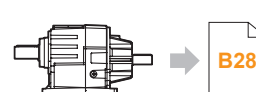


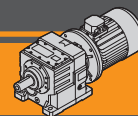
Dimensioni IEC / IEC Dimensions										
	80 B5	90 B5	90 B14	100/112 B5	100/112 B14	132 B5	132 B14	160 B5	180 B5	200 B5
LM	373.5		378	377.5	378	398.5		448.5		460.5
N	130		95	180	110	230	130	250		300
M	165		115	215	130	265	165	300		350
P	200		140	250	160	300	200	350		400
D	19	24		28		38		42	48	55

IEC Motori applicabili
IEC Motor adapters



ITHIS 142...
ITHIS 143...



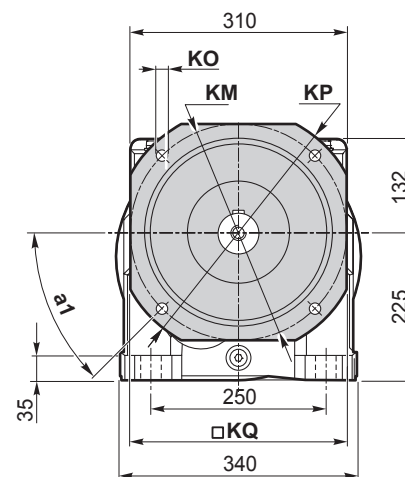
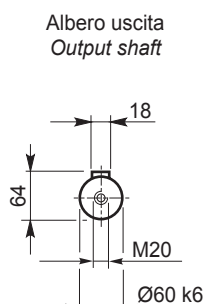
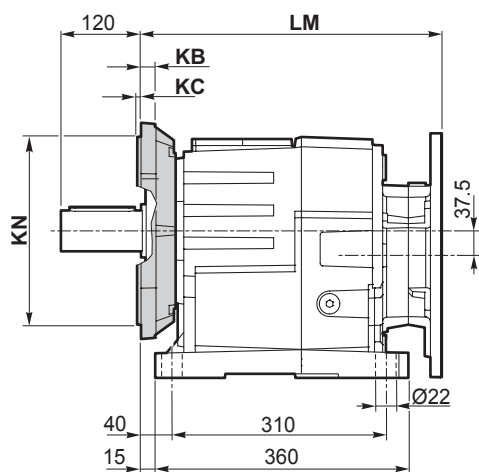


Dimensioni

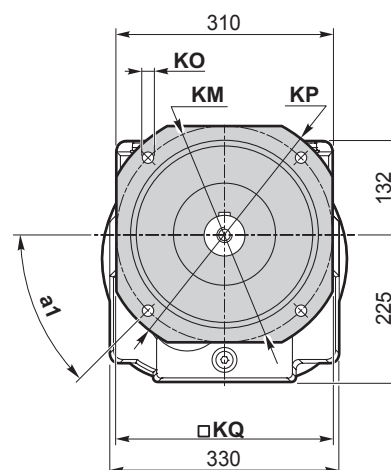
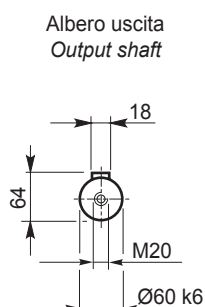
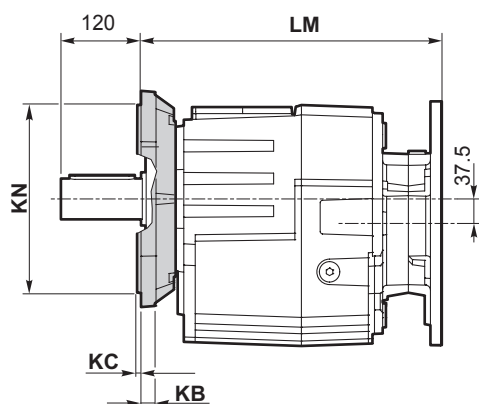
Dimensions

ITH 142- ITH 143

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



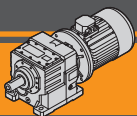
ITH 142 F...
ITH 143 F...



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



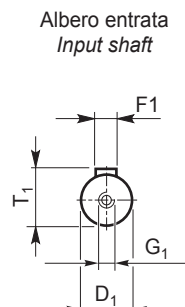
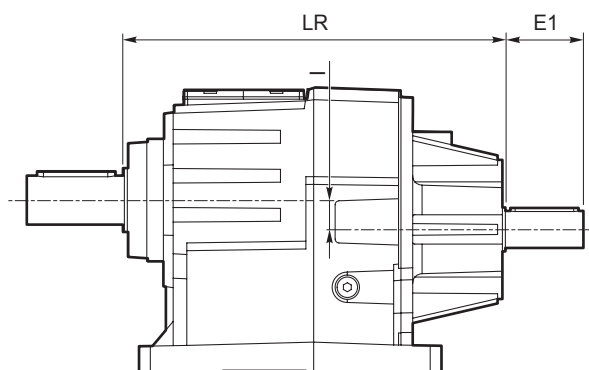
ITH

Motoriduttori ad ingranaggi cilindrici
Helical in-line gearmotors

Dimensioni

Dimensions

ITHIS...



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

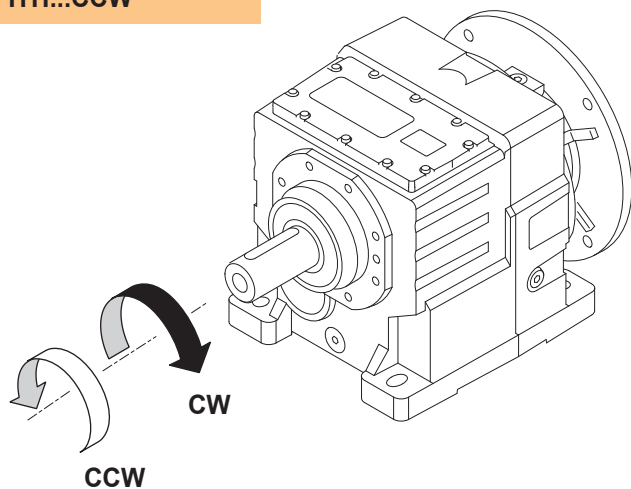
ITHIS	Peso / Weight [kg]
112 U	29
112 G	28
113 U	30
113 G	28
122 U	37
122 G	35
123 U	38
123 G	36
132 U	73
132 G	69
133 U	69
133 G	65
142 U	110
142 G	104
143 U	107
143 G	101

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.