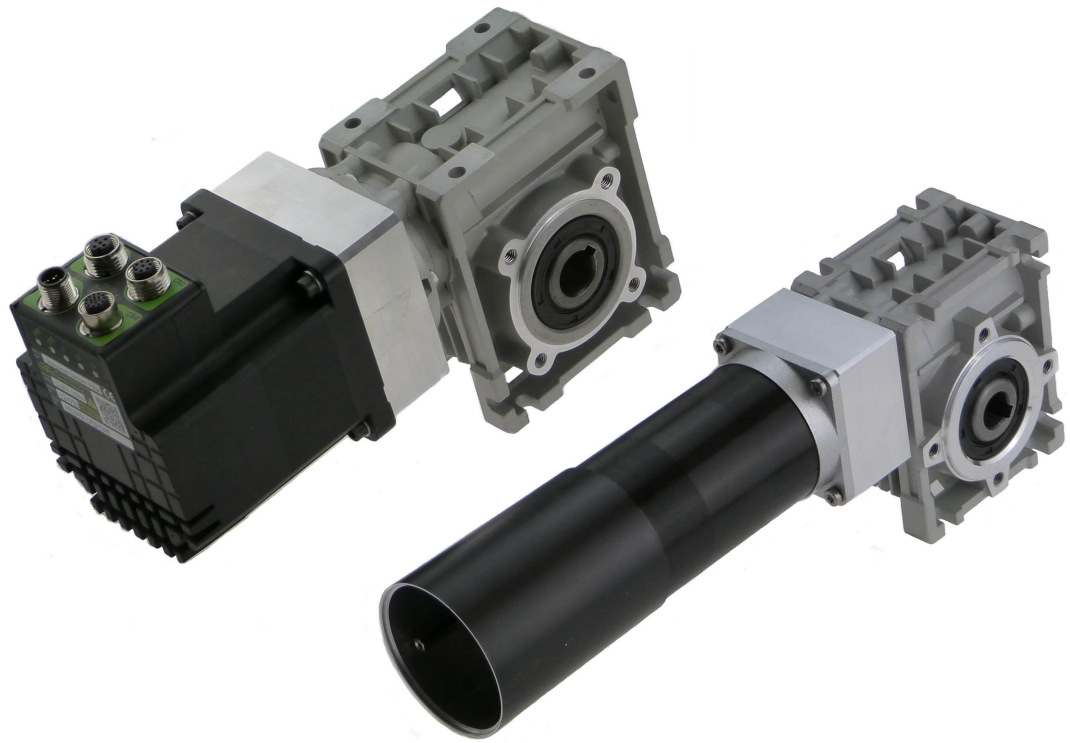
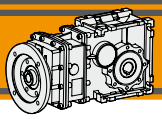
HTTB
Bevel Helical Gearboxes



JVL Industri Elektronik A/S



ENERGY SAVING

Caratteristiche tecniche

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

- Carcassa in alluminio nelle grandezze 402, 502, 633 e 903. La grandezza 1103 è costruita con carcassa in ghisa.
- Ingranaggi sempre rettificati.
- Lubrificazione permanente con olio sintetico.

Technical features

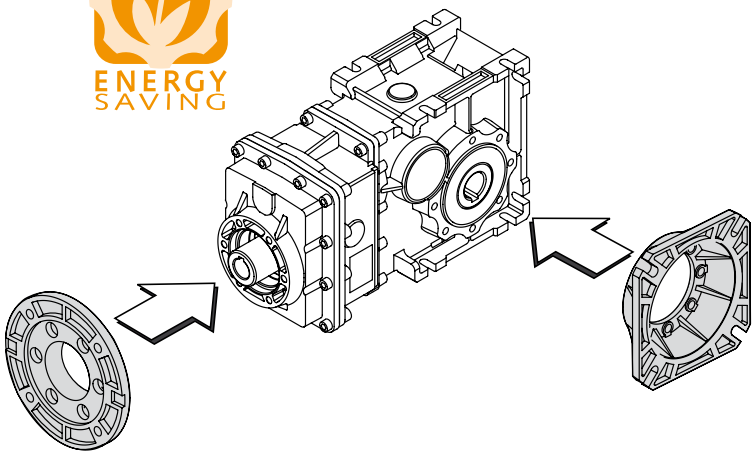
The high degree of modularity of HTTB bevel helical gearbox al-lows it to be completely interchangeable with HTTW wormgearbo-xes.

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

Common features of all HTTB range are:

- *Die-cast aluminum housing on sizes 402, 502, 633 and 903. Cast-iron housing on size 1103.*
- *Ground helical gears.*
- *Permanent synthetic oil long-life lubrication.*

ENERGY SAVING



Designazione

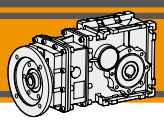
Classification

RIDUTTORE / *GEARBOX*

HTTB	63	3	U	9.81	D25	90	B5	SZDX	BRSX	90	B3
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 reazione *Torque arm*	Angolo *Angle*	Pos. di montaggio *Mounting position*
HTTB	**40** **50** **63** **90** **110**	**2** **3**	**U...** **FD...** **FS...** **FBD...** **FBS...** **FLD...** **FLS...**	vedi tabelle *see tables*	vedi tabelle *see tables*	**56..** **—** **90..**	**B5** **B14**	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX**	**0°** **90°** **180°** **270°**	**B3** **B8** **B6** **B7** **V5** **V6**

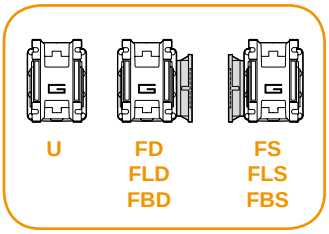
RIDUTTORE / *GEARBOX*

HTTBI	63	3	U	9.81	D25	SZDX	BRSX	90	B3
Tipo *Type*	Grandezza *Size*	Stadi *Stages*	Versione *Version*	Rapporto *Ratio*	Albero uscita *Output shaft*	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*	Pos. di montaggio *Mounting position*
HTTBI	**40** **50** **63** **90** **110**	**2** **3**	**U...** **FD...** **FS...** **FBD...** **FBS...** **FLD...** **FLS...**	vedi tabelle *see tables*	vedi tabelle *see tables*	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX**	**0°** **90°** **180°** **270°**	**B3** **B8** **B6** **B7** **V5** **V6**

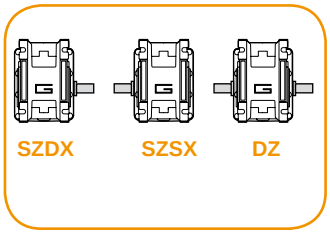


Designazione — *Classification*

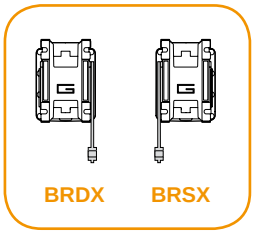
Versione Riduttore / *Gearbox Version*



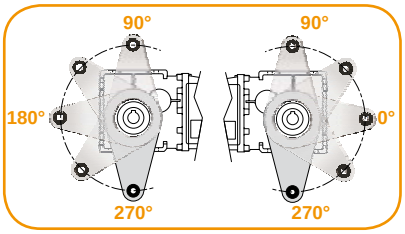
Albero di uscita / *Output shaft*



Braccio di reazione / *Torque arm*



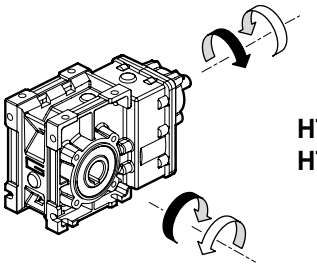
Angolo / *Angle*



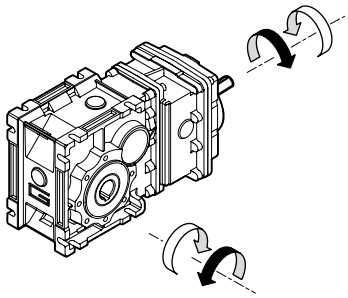
MOTORE / *MOTOR*				
1.5kW	**4p**	**3ph**	**50Hz**	**T1**
Potenza *Power* Vedi tabelle *See tables*	Poli *Poles* **2p** **4p** **6p** **8p**	Fasi *Phases* **1ph** **3ph**	Frequenza *Frequency* **50Hz** **60Hz**	Pos. morsettiera *Terminal box pos.* **T1** (Std) **T4** **T2** **T3**

Sensi di rotazione — *Direction of rotation*

HTTB...2
HTTBI..2



HTTB...3
HTTBI..3



Simbologia — *Symbols*

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

Lubrificazione — *Lubrication*

Tutti i riduttori nelle taglie 402, 502, 633 e 903 sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione. Per la taglia 1103 la lubrificazione dipende dalla posizione di montaggio.

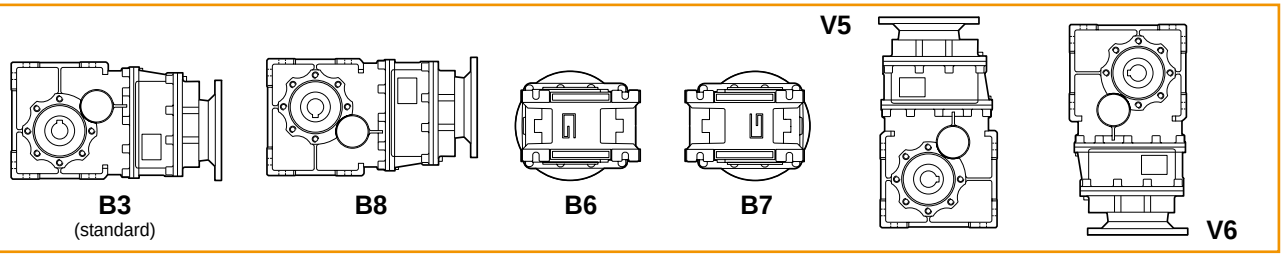
Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use sizes 402, 502, 633 and 903 in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance. For size 1103 lubrication depends on assembly position.

HTTB HTTBI	Quantità di olio (litri) / *Oil quantity (litres)*						
	B3	B8	B6	B7	V5	V6	
402	0.4						Lubrificati a vita *Life lubrication*
502	0.52						
633	1.3						
903	2.8						
1103	4.7	3			5	4.2	

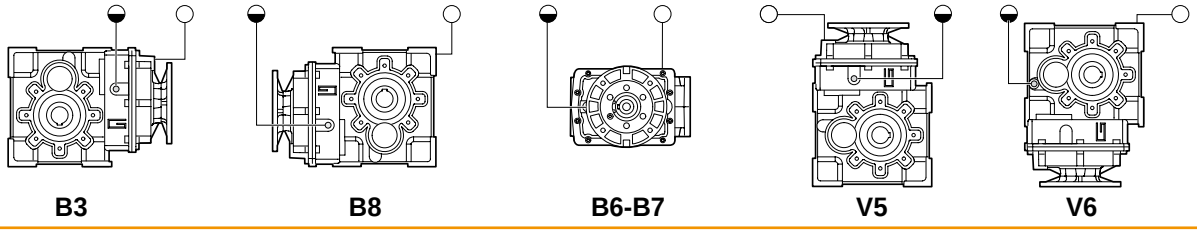
N.B.
Le quantità di lubrificante sono indipendenti dalla posizione di montaggio per le taglie 402, 502, 633 e 903. *The oil quantity does not depend on mounting position for sizes 402, 502, 633 and 903.*

Posizioni di montaggio / *Mounting positions*

HTTB 402-502-633-903

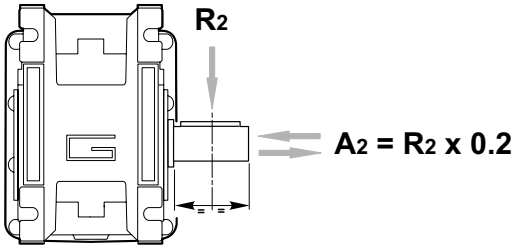


HTTB 1103



Sfiato e tappo di riempimento / *Breather and filling plug*
Livello olio / *Oil level plug*

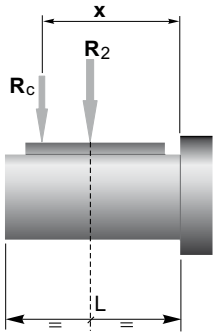
Carichi radiali — *Radial loads*



n_2 [min^{-1}]	R_2 [N]				
	HTTB 402	HTTB 502	HTTB 633	HTTB 903	HTTB1103
400	905	1116	1835	2682	3409
300	996	1228	2020	2952	3752
200	1141	1406	2312	3379	4294
170	1204	1484	2441	3567	4534
140	1414	1743	2604	3806	4837
100	1582	1949	2913	4686	5411
90	1638	2019	3321	4853	5832
60	2047	2490	3801	5556	7299
40	2524	3029	4492	6614	8355
30	2778	3334	5159	7540	9524
20	3180	3816	5906	8631	10903
15	3500	4200	6500	9500	12000
10	3500	4200	6500	9500	12000

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

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

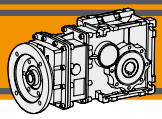


	HTTB 402	HTTB 502	HTTB 633	HTTB 903	HTTB 1103
a	86	104	118	157	173
b	66	79	93	117	133
R_{2MAX}	3500	4200	6500	9500	12000

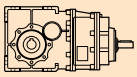
$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

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



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



HTTBI 402

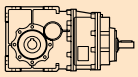
n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
227	40	1.0	6.18
187	40	0.83	7.49
152	40	0.68	9.20
118	45	0.59	11.83
112	45	0.56	12.48
94.4	45	0.47	14.83
79.4	45	0.40	17.63
75.3	55	0.46	18.60
62.7	55	0.38	22.33
58.6	55	0.36	23.91
48.5	65	0.35	28.89
45.4	65	0.33	30.84
41.7	65	0.30	33.57
39.3	65	0.28	35.63
32.7	65	0.24	42.75
25.3	65	0.18	55.31
23.7	65	0.17	59.06
21.8	65	0.16	64.29

HTTBI 502

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

HTTBI 633

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



HTTBI 903

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

HTTBI 1103

n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
198	550	12.1	7.08
156	550	9.5	8.99
128	550	7.9	10.90
112	550	6.9	12.52
89.2	620	6.2	15.69
76.7	810	6.9	18.25
60.4	810	5.4	23.18
49.8	810	4.5	28.11
43.4	810	3.9	32.27
37.7	900	3.8	37.09
29.7	900	3.0	47.12
24.5	900	2.5	57.14
21.3	900	2.1	65.59
17.0	900	1.7	82.21
14.4	900	1.4	97.25
10.8	900	1.1	130.07
7.5	900	0.75	187.50
6.4	900	0.65	217.58

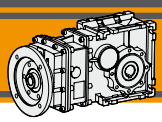
Nota:
Pn_1 è la potenza meccanica.
La potenza applicabile è ridotta del fattore termico.
Per maggiori dettagli consultare il nostro Servizio Tecnico.

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

Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.06						
56A4	**39.3**	14	4.7	35.63	**HTTB402**	**B5/B14**
(1400 min^{-1})	**32.7**	16	4.0	42.75		**B5/B14**
	25.3	21	3.1	55.31		**B5/B14**
	23.7	23	2.9	59.06		**B5/B14**
	21.8	25	2.6	64.29		**B5/B14**
0.09						
56B4	**48.5**	17	3.9	28.89	**HTTB402**	**B5/B14**
(1400 min^{-1})	**45.4**	18	3.7	30.84		**B5/B14**
	41.7	19	3.4	33.57		**B5/B14**
	39.3	21	3.2	35.63		**B5/B14**
	32.7	25	2.6	42.75		**B5/B14**
	25.3	32	2.0	55.31		**B5/B14**
	23.7	34	1.9	59.06		**B5/B14**
	21.8	37	1.8	64.29		**B5/B14**
0.12						
63A4	**227**	5	8.4	6.18	**HTTB402**	**B5/B14**
(1400 min^{-1})	**187**	6	6.9	7.49		**B5/B14**
	152	7	5.6	9.20		**B5/B14**
	118	9	4.9	11.83		**B5/B14**
	112	10	4.7	12.48		**B5/B14**
	94.4	11	3.9	14.83		**B5/B14**
	79.4	14	3.3	17.63		**B5/B14**
	75.3	14	3.8	18.60		**B5/B14**
	62.7	17	3.2	22.33		**B5/B14**
	58.6	18	3.0	23.91		**B5/B14**
	48.5	22	2.9	28.89		**B5/B14**
	45.4	24	2.7	30.84		**B5/B14**
	41.7	26	2.5	33.57		**B5/B14**
	39.3	27	2.4	35.63		**B5/B14**
	32.7	33	2.0	42.75		**B5/B14**
	25.3	43	1.5	55.31		**B5/B14**
	23.7	45	1.4	59.06		**B5/B14**
	21.8	49	1.3	64.29		**B5/B14**
	32.7	33	3.8	42.75	**HTTB502**	**B5/B14**
	25.3	43	2.9	55.31		**B5/B14**
	23.7	45	2.8	59.06		**B5/B14**
	21.8	49	2.5	64.29		**B5/B14**
	18.9	57	4.4	73.96	**HTTB633**	**B5**
	17.8	60	4.1	78.58		**B5**
	15.0	72	3.5	93.33		**B5**
	10.0	108	2.3	140.52		**B5**
	7.7	140	1.8	181.81		**B5**
	6.6	163	1.5	211.31		**B5**
0.18						
63B4	**227**	7	5.6	6.18	**HTTB402**	**B5/B14**
(1400 min^{-1})	**187**	9	4.6	7.49		**B5/B14**
	152	11	3.8	9.20		**B5/B14**
	118	14	3.3	11.83		**B5/B14**
	112	14	3.1	12.48		**B5/B14**
	94.4	17	2.6	14.83		**B5/B14**
	79.4	20	2.2	17.63		**B5/B14**
	75.3	21	2.6	18.60		**B5/B14**
	62.7	26	2.1	22.33		**B5/B14**
	58.6	28	2.0	23.91		**B5/B14**
	48.5	33	1.9	28.89		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.18						
63B4	**45.4**	36	1.8	30.84	**HTTB402**	**B5/B14**
(1400 min^{-1})	**41.7**	39	1.7	33.57		**B5/B14**
	39.3	41	1.6	35.63		**B5/B14**
	32.7	49	1.3	42.75		**B5/B14**
	25.3	64	1.0	55.31		**B5/B14**
	23.7	68	0.95	59.06		**B5/B14**
	21.8	74	0.88	64.29		**B5/B14**
	45.4	36	3.5	30.84	**HTTB502**	**B5/B14**
	41.7	39	3.2	33.57		**B5/B14**
	39.3	41	3.0	35.63		**B5/B14**
	32.7	49	2.5	42.75		**B5/B14**
	25.3	64	2.0	55.31		**B5/B14**
	23.7	68	1.8	59.06		**B5/B14**
	21.8	74	1.7	64.29		**B5/B14**
	24.2	67	3.7	57.93	**HTTB633**	**B5**
	22.7	71	3.5	61.63		**B5**
	18.9	85	2.9	73.96		**B5**
	17.8	91	2.8	78.58		**B5**
	15.0	108	2.3	93.33		**B5**
	10.0	162	1.5	140.52		**B5**
	7.7	210	1.2	181.81		**B5**
	6.6	244	1.0	211.31		**B5**
0.25						
71A4	**227**	10	4.0	6.18	**HTTB402**	**B5/B14**
(1400 min^{-1})	**187**	12	3.3	7.49		**B5/B14**
	152	15	2.7	9.20		**B5/B14**
	118	19	2.4	11.83		**B5/B14**
	112	20	2.2	12.48		**B5/B14**
	94.4	24	1.9	14.83		**B5/B14**
	79.4	28	1.6	17.63		**B5/B14**
	75.3	30	1.8	18.60		**B5/B14**
	62.7	36	1.5	22.33		**B5/B14**
	58.6	38	1.4	23.91		**B5/B14**
	48.5	46	1.4	28.89		**B5/B14**
	45.4	49	1.3	30.84		**B5/B14**
	41.7	54	1.2	33.57		**B5/B14**
	39.3	57	1.1	35.63		**B5/B14**
	32.7	69	0.9	42.75		**B5/B14**
	227	10	7.1	6.18	**HTTB502**	**B5/B14**
	187	12	5.8	7.49		**B5/B14**
	152	15	4.7	9.20		**B5/B14**
	118	19	4.7	11.83		**B5/B14**
	112	20	4.5	12.48		**B5/B14**
	94.4	24	3.8	14.83		**B5/B14**
	79.4	28	3.2	17.63		**B5/B14**
	75.3	30	3.7	18.60		**B5/B14**
	62.7	36	3.1	22.33		**B5/B14**
	58.6	38	2.9	23.91		**B5/B14**
	48.5	46	2.7	28.89		**B5/B14**
	45.4	49	2.5	30.84		**B5/B14**
	41.7	54	2.3	33.57		**B5/B14**
	39.3	57	2.2	35.63		**B5/B14**
	32.7	69	1.8	42.75		**B5/B14**
	25.3	89	1.4	55.31		**B5/B14**
	23.7	95	1.3	59.06		**B5/B14**
	21.8	103	1.2	64.29		**B5/B14**



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.25						
71A4 (1400 min^{-1})	**41.4**	54	4.1	33.81	**HTTB633**	**B5/B14**
	39.0	58	3.8	35.92		**B5/B14**
	36.0	62	4.0	38.88		**B5/B14**
	29.7	76	3.3	47.16		**B5/B14**
	24.2	93	2.7	57.93		**B5/B14**
	22.7	99	2.5	61.63		**B5/B14**
	18.9	119	2.1	73.96		**B5/B14**
	17.8	126	2.0	78.58		**B5/B14**
	15.0	150	1.7	93.33		**B5/B14**
	10.0	225	1.1	140.52		**B5/B14**
	7.7	291	0.9	181.81		**B5/B14**
	24.3	92	5.4	57.52	**HTTB903**	**B5**
	21.2	106	4.7	66.17		**B5**
	16.8	133	3.7	83.20		**B5**
	13.0	173	2.9	108.09		**B5**
	10.6	212	2.4	132.23		**B5**
	9.5	237	2.1	147.92		**B5**
	8.4	268	1.9	167.09		**B5**
	7.3	306	1.6	191.06		**B5**
	6.3	356	1.4	221.88		**B5**
	5.3	422	1.2	262.96		**B5**
0.37						
71B4 (1400 min^{-1})	**227**	15	2.7	6.18	**HTTB402**	**B5/B14**
	187	18	2.3	7.49		**B5/B14**
	152	22	1.8	9.20		**B5/B14**
	118	28	1.6	11.83		**B5/B14**
	112	30	1.5	12.48		**B5/B14**
	94.4	35	1.3	14.83		**B5/B14**
	79.4	42	1.1	17.63		**B5/B14**
	75.3	44	1.2	18.60		**B5/B14**
	62.7	53	1.0	22.33		**B5/B14**
	58.6	57	1.0	23.91		**B5/B14**
	48.5	69	0.9	28.89		**B5/B14**
	45.4	73	0.9	30.84		**B5/B14**
	227	15	4.8	6.18	**HTTB502**	**B5/B14**
	187	18	3.9	7.49		**B5/B14**
	152	22	3.2	9.20		**B5/B14**
	118	28	3.2	11.83		**B5/B14**
	112	30	3.0	12.48		**B5/B14**
	94.4	35	2.6	14.83		**B5/B14**
	79.4	42	2.2	17.63		**B5/B14**
	75.3	44	2.5	18.60		**B5/B14**
	62.7	53	2.1	22.33		**B5/B14**
	58.6	57	1.9	23.91		**B5/B14**
	48.5	69	1.8	28.89		**B5/B14**
	45.4	73	1.7	30.84		**B5/B14**
	41.7	80	1.6	33.57		**B5/B14**
	39.3	85	1.5	35.63		**B5/B14**
	32.7	101	1.2	42.75		**B5/B14**
	25.3	131	1.0	55.31		**B5/B14**
	23.7	140	0.9	59.06		**B5/B14**
	64.9	51	4.3	21.56	**HTTB633**	**B5/B14**
	52.9	63	3.5	26.48		**B5/B14**
	49.7	67	3.3	28.17		**B5/B14**
	41.4	80	2.7	33.81		**B5/B14**
	39.0	85	2.6	35.92		**B5/B14**
	36.0	92	2.7	38.88		**B5/B14**
	29.7	112	2.2	47.16		**B5/B14**
	24.2	137	1.8	57.93		**B5/B14**
	22.7	146	1.7	61.63		**B5/B14**
	18.9	175	1.4	73.96		**B5/B14**
	17.8	186	1.3	78.58		**B5/B14**
	15.0	221	1.1	93.33		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.37						
71B4 (1400 min^{-1})	**29.6**	112	4.5	47.25	**HTTB903**	**B5**
	24.3	136	3.7	57.52		**B5**
	21.2	157	3.2	66.17		**B5**
	16.8	197	2.5	83.20		**B5**
	13.0	256	1.9	108.09		**B5**
	10.6	314	1.6	132.23		**B5**
	9.5	351	1.4	147.92		**B5**
	8.4	396	1.3	167.09		**B5**
	7.3	453	1.1	191.06		**B5**
	6.3	526	0.9	221.88		**B5**
	5.3	624	0.8	262.96		**B5**
0.55						
80A4 (1400 min^{-1})	**227**	22	3.2	6.18	**HTTB502**	**B5/B14**
	187	26	2.6	7.49		**B5/B14**
	152	32	2.2	9.20		**B5/B14**
	118	42	2.2	11.83		**B5/B14**
	112	44	2.0	12.48		**B5/B14**
	94.4	52	1.7	14.83		**B5/B14**
	79.4	62	1.4	17.63		**B5/B14**
	75.3	66	1.7	18.60		**B5/B14**
	62.7	79	1.4	22.33		**B5/B14**
	58.6	84	1.3	23.91		**B5/B14**
	48.5	102	1.2	28.89		**B5/B14**
	45.4	109	1.1	30.84		**B5/B14**
	41.7	118	1.1	33.57		**B5/B14**
	39.3	126	1.0	35.63		**B5/B14**
	213	23	6.5	6.58	**HTTB633**	**B5/B14**
	175	28	5.3	7.99		**B5/B14**
	143	35	4.3	9.81		**B5/B14**
	134	37	4.1	10.44		**B5/B14**
	112	44	3.4	12.53		**B5/B14**
	105	47	3.2	13.31		**B5/B14**
	88.6	56	3.0	15.81		**B5/B14**
	78.8	63	3.5	17.77		**B5/B14**
	64.9	76	2.9	21.56		**B5/B14**
	52.9	93	2.4	26.48		**B5/B14**
	49.7	99	2.2	28.17		**B5/B14**
	41.4	119	1.8	33.81		**B5/B14**
	39.0	127	1.7	35.92		**B5/B14**
	36.0	137	1.8	38.88		**B5/B14**
	29.7	166	1.5	47.16		**B5/B14**
	24.2	204	1.2	57.93		**B5/B14**
	22.7	217	1.2	61.63		**B5/B14**
	18.9	261	1.0	73.96		**B5/B14**
	17.8	277	0.9	78.58		**B5/B14**
	46.3	107	4.2	30.25	**HTTB903**	**B5/B14**
	35.7	138	3.6	39.26		**B5/B14**
	29.6	167	3.0	47.25		**B5/B14**
	24.3	203	2.5	57.52		**B5/B14**
	21.2	233	2.1	66.17		**B5/B14**
	16.8	293	1.7	83.20		**B5/B14**
	13.0	381	1.3	108.09		**B5/B14**
	10.6	466	1.1	132.23		**B5/B14**
	9.5	522	1.0	147.92		**B5/B14**
	8.4	589	0.8	167.09		**B5/B14**
	29.7	166	5.4	47.12	**HTTB1103**	**B5**
	24.5	202	4.5	57.14		**B5**
	21.3	231	3.9	65.59		**B5**
	17.0	290	3.1	82.21		**B5**
	14.4	343	2.6	97.25		**B5**
	10.8	459	2.0	130.07		**B5**
	7.5	661	1.4	187.50		**B5**
	6.4	767	1.2	217.5		**B5**

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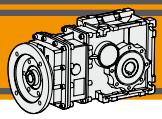
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.75						
80B4 (1400 min^{-1})	**227**	30	2.4	6.18	**HTTB502**	**B5/B14**
	187	36	1.9	7.49		**B5/B14**
	152	44	1.6	9.20		**B5/B14**
	118	57	1.6	11.83		**B5/B14**
	112	60	1.5	12.48		**B5/B14**
	94.4	71	1.3	14.83		**B5/B14**
	79.4	85	1.1	17.63		**B5/B14**
	75.3	89	1.2	18.60		**B5/B14**
	62.7	107	1.0	22.33		**B5/B14**
	58.6	115	1.0	23.91		**B5/B14**
	48.5	139	0.9	28.89		**B5/B14**
	213	32	4.7	6.58	**HTTB633**	**B5/B14**
	175	38	3.9	7.99		**B5/B14**
	143	47	3.2	9.81		**B5/B14**
	134	50	3.0	10.44		**B5/B14**
	112	60	2.5	12.53		**B5/B14**
	105.2	64	2.3	13.31		**B5/B14**
	88.6	76	2.2	15.81		**B5/B14**
	78.8	85	2.6	17.77		**B5/B14**
	64.9	104	2.1	21.56		**B5/B14**
	52.9	127	1.7	26.48		**B5/B14**
	49.7	135	1.6	28.17		**B5/B14**
	41.4	163	1.4	33.81		**B5/B14**
	39.0	173	1.3	35.92		**B5/B14**
	36.0	187	1.3	38.88		**B5/B14**
	29.7	227	1.1	47.16		**B5/B14**
	24.2	279	0.9	57.93		**B5/B14**
	22.7	296	0.8	61.63		**B5/B14**
	64.8	104	4.3	21.60	**HTTB903**	**B5/B14**
	53.2	126	3.6	26.30		**B5/B14**
	46.3	145	3.1	30.25		**B5/B14**
	35.7	189	2.6	39.26		**B5/B14**
	29.6	227	2.2	47.25		**B5/B14**
	24.3	277	1.8	57.52		**B5/B14**
	21.2	318	1.6	66.17		**B5/B14**
	16.8	400	1.2	83.20		**B5/B14**
	13.0	519.8	1.0	108.09		**B5**
	49.8	135	6.0	28.11	**HTTB1103**	**B5**
	43.4	155	5.2	32.27		**B5**
	37.7	178	5.0	37.09		**B5**
	29.7	227	4.0	47.12		**B5**
	24.5	275	3.3	57.14		**B5**
	21.3	315	2.9	65.59		**B5**
	17.0	395	2.3	82.21		**B5**
	14.4	468	1.9	97.25		**B5**
	10.8	626	1.4	130.07		**B5**
	7.5	902	1.0	187.50		**B5**
	6.4	1046	0.9	217.58		**B5**
1.1						
90S4 (1400 min^{-1})	**213**	46	3.2	6.58	**HTTB633**	**B5/B14**
	175	56	2.7	7.99		**B5/B14**
	143	69	2.2	9.81		**B5/B14**
	105	94	1.6	13.31		**B5/B14**
	88.6	112	1.5	15.81		**B5/B14**
	78.8	125	1.8	17.77		**B5/B14**
	64.9	152	1.4	21.56		**B5/B14**
	52.9	187	1.2	26.48		**B5/B14**
	39.0	253	0.9	35.92		**B5/B14**
	36.0	274	0.9	38.88		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.1						
90S4 (1400 min^{-1})	**211**	47	6.0	6.65	**HTTB903**	**B5/B14**
	175	56	5.0	8.00		**B5/B14**
	144	69	4.1	9.74		**B5/B14**
	125	79	3.5	11.21		**B5/B14**
	99.3	99	3.0	14.09		**B5/B14**
	78.0	127	3.6	17.95		**B5/B14**
	64.8	152	3.0	21.60		**B5/B14**
	53.2	185	2.4	26.30		**B5/B14**
	46.3	213	2.1	30.25		**B5/B14**
	35.7	277	1.8	39.26		**B5/B14**
	29.6	333	1.5	47.25		**B5/B14**
	24.3	406	1.2	57.52		**B5/B14**
	21.2	467	1.1	66.17		**B5/B14**
	16.8	587	0.9	83.20		**B5/B14**
	60.4	164	5.0	23.18	**HTTB1103**	**B5/B14**
	49.8	198	4.1	28.11		**B5/B14**
	43.4	228	3.6	32.27		**B5/B14**
	37.7	262	3.4	37.09		**B5/B14**
	29.7	332	2.7	47.12		**B5/B14**
	24.5	403	2.2	57.14		**B5/B14**
	21.3	463	1.9	65.59		**B5/B14**
	17.0	580	1.6	82.21		**B5/B14**
	14.4	686	1.3	97.25		**B5/B14**
	10.8	917	1.0	130.07		**B5/B14**
1.5						
90L4 (1400 min^{-1})	**213**	63	2.4	6.58	**HTTB633**	**B5/B14**
	175	77	2.0	7.99		**B5/B14**
	143	94	1.6	9.81		**B5/B14**
	105	128	1.2	13.31		**B5/B14**
	88.6	152	1.1	15.81		**B5/B14**
	78.8	171	1.3	17.77		**B5/B14**
	64.9	207	1.1	21.56		**B5/B14**
	52.9	255	0.9	26.48		**B5/B14**
	211	64	4.4	6.65	**HTTB903**	**B5/B14**
	175	77	3.6	8.00		**B5/B14**
	144	94	3.0	9.74		**B5/B14**
	125	108	2.6	11.21		**B5/B14**
	99.3	136	2.2	14.09		**B5/B14**
	78.0	173	2.6	17.95		**B5/B14**
	64.8	208	2.2	21.60		**B5/B14**
	53.2	253	1.8	26.30		**B5/B14**
	46.3	291	1.5	30.25		**B5/B14**
	35.7	378	1.3	39.26		**B5/B14**
	29.6	454	1.1	47.25		**B5/B14**
	24.3	553	0.9	57.52		**B5/B14**
	198	68	8.1	7.08	**HTTB1103**	**B5/B14**
	156	86	6.4	8.99		**B5/B14**
	128	105	5.2	10.90		**B5/B14**
	112	120	4.6	12.52		**B5/B14**
	89.2	151	4.1	15.69		**B5/B14**
	76.7	176	4.6	18.25		**B5/B14**
	60.4	223	3.6	23.18		**B5/B14**
	49.8	270	3.0	28.11		**B5/B14**
	43.4	310	2.6	32.27		**B5/B14**
	37.7	357	2.5	37.09		**B5/B14**
	29.7	453	2.0	47.12		**B5/B14**
	24.5	550	1.6	57.14		**B5/B14**
	21.3	631	1.4	65.59		**B5/B14**
	17.0	791	1.1	82.21		**B5/B14**
	14.4	935	1.0	97.25		**B5/B14**

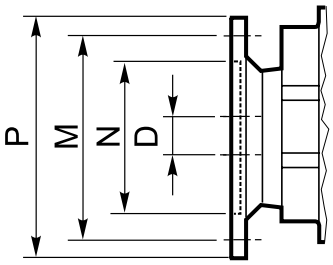


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.85						
90LB4 (1400 min^{-1})	**213**	78	1.9	6.58	**HTTB633**	**B5/B14**
	175	95	1.6	7.99		**B5/B14**
	143	116	1.3	9.81		**B5/B14**
	105	158	1.0	13.31		**B5/B14**
	88.6	188	0.9	15.81		**B5/B14**
	78.8	211	1.0	17.77		**B5/B14**
	211	79	3.5	6.65	**HTTB903**	**B5/B14**
	175	95	2.9	8.00		**B5/B14**
	144	116	2.4	9.74		**B5/B14**
	125	133	2.1	11.21		**B5/B14**
	99.3	167	1.8	14.09		**B5/B14**
	78.0	213	2.1	17.95		**B5/B14**
	64.8	256	1.8	21.60		**B5/B14**
	53.2	312	1.4	26.30		**B5/B14**
	46.3	359	1.3	30.25		**B5/B14**
	35.7	466	1.1	39.26		**B5/B14**
	29.6	561	0.9	47.25		**B5/B14**
	198	84	6.6	7.08	**HTTB1103**	**B5/B14**
	156	107	5.2	8.99		**B5/B14**
	128	129	4.3	10.90		**B5/B14**
	112	148	3.7	12.52		**B5/B14**
	89.2	186	3.3	15.69		**B5/B14**
	76.7	216	3.7	18.25		**B5/B14**
	60.4	275	2.9	23.18		**B5/B14**
	49.8	334	2.4	28.11		**B5/B14**
	43.4	383	2.1	32.27		**B5/B14**
	37.7	440	2.0	37.09		**B5/B14**
	29.7	559	1.6	47.12		**B5/B14**
	24.5	678	1.3	57.14		**B5/B14**
	21.3	778	1.2	65.59		**B5/B14**
	17.0	975	0.9	82.21		**B5/B14**
2.2						
100LA4 (1400 min^{-1})	**211**	94	3.0	6.65	**HTTB903**	**B5/B14**
	175	113	2.5	8.00		**B5/B14**
	144	137	2.0	9.74		**B5/B14**
	125	158	1.8	11.21		**B5/B14**
	99.3	199	1.5	14.09		**B5/B14**
	78.0	253	1.8	17.95		**B5/B14**
	64.8	305	1.5	21.60		**B5/B14**
	53.2	371	1.2	26.30		**B5/B14**
	46.3	427	1.1	30.25		**B5/B14**
	35.7	554	0.9	39.26		**B5/B14**
	198	100	5.5	7.08	**HTTB1103**	**B5/B14**
	156	127	4.3	8.99		**B5/B14**
	128	154	3.6	10.90		**B5/B14**
	112	177	3.1	12.52		**B5/B14**
	89.2	221	2.8	15.69		**B5/B14**
	76.7	257	3.1	18.25		**B5/B14**
	60.4	327	2.5	23.18		**B5/B14**
	49.8	397	2.0	28.11		**B5/B14**
	43.4	455	1.8	32.27		**B5/B14**
	37.7	523	1.7	37.09		**B5/B14**
	29.7	665	1.4	47.12		**B5/B14**
	24.5	806	1.1	57.14		**B5/B14**
	21.3	925	1.0	65.59		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
3						
100LB4 (1400 min^{-1})	**211**	128	2.2	6.65	**HTTB903**	**B5/B14**
	175	154	1.8	8.00		**B5/B14**
	144	187	1.5	9.74		**B5/B14**
	125	216	1.3	11.21		**B5/B14**
	99.3	271	1.1	14.09		**B5/B14**
	78.0	345	1.3	17.95		**B5/B14**
	64.8	416	1.1	21.60		**B5/B14**
	53.2	506	0.9	26.30		**B5/B14**
	198	136	4.0	7.08	**HTTB1103**	**B5/B14**
	156	173	3.2	8.99		**B5/B14**
	128	210	2.6	10.90		**B5/B14**
	112	241	2.3	12.52		**B5/B14**
	89.2	302	2.1	15.69		**B5/B14**
	76.7	351	2.3	18.25		**B5/B14**
	60.4	446	1.8	23.18		**B5/B14**
	49.8	541	1.5	28.11		**B5/B14**
	43.4	621	1.3	32.27		**B5/B14**
	37.7	713	1.3	37.09		**B5/B14**
	29.7	906	1.0	47.12		**B5/B14**
4						
112M4 (1400 min^{-1})	**211**	171	1.6	6.65	**HTTB903**	**B5/B14**
	175	205	1.4	8.00		**B5/B14**
	144	250	1.1	9.74		**B5/B14**
	125	287	1.0	11.21		**B5/B14**
	99.3	361	0.8	14.09		**B5/B14**
	78.0	460	1.0	17.95		**B5/B14**
	198	182	3.0	7.08	**HTTB1103**	**B5/B14**
	156	231	2.4	8.99		**B5/B14**
	128	280	2.0	10.90		**B5/B14**
	112	321	1.7	12.52		**B5/B14**
	89.2	402	1.5	15.69		**B5/B14**
	76.7	468	1.7	18.25		**B5/B14**
	60.4	595	1.4	23.18		**B5/B14**
	49.8	721	1.1	28.11		**B5/B14**
	43.4	828	1.0	32.27		**B5/B14**
	37.7	951	0.9	37.09		**B5/B14**
5.5						
132S4 (1400 min^{-1})	**198**	250	2.2	7.08	**HTTB1103**	**B5**
	156	317	1.7	8.99		**B5**
	128	385	1.4	10.90		**B5**
	112	441	1.2	12.52		**B5**
	89.2	553	1.1	15.69		**B5**
	76.7	644	1.3	18.25		**B5**
	60.4	818	1.0	23.18		**B5**
7.5						
132MA4 (1400 min^{-1})	**198**	340	1.6	7.08	**HTTB1103**	**B5**
	156	432	1.3	8.99		**B5**
	128	524	1.0	10.90		**B5**
	112	602	0.9	12.52		**B5**
	89.2	754	0.8	15.69		**B5**
	76.7	878	0.9	18.25		**B5**

Motori applicabili

IEC Motor adapters

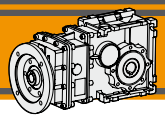


	IEC	N	M	P	D	i (rapporto / *ratio*)																
						6.18	7.49	9.2	11.83	12.48	14.83	17.63	18.6	22.33	23.91	28.89	30.84	33.57	35.63	42.75	55.31	59.06	64.29
HTTB402	**71B5**	110	130	160	14																		
	71B14	70	85	105																			
	63B5	95	115	140	11																		
	63B14	60	75	90																			
	56B5	80	100	120	9																		
	56B14	50	65	80																			

	IEC	N	M	P	D	i (rapporto / *ratio*)																
						6.18	7.49	9.2	11.83	12.48	14.83	17.63	18.6	22.33	23.91	28.89	30.84	33.57	35.63	42.75	55.31	59.06	64.29
HTTB502	**80B5**	130	165	200	19																		
	80B14	80	100	120																			
	71B5	110	130	160	14																		
	71B14	70	85	105																			
	63B5	95	115	140	11																		
	63B14	60	75	90																			
	56B5	80	100	120	9																		
	56B14	50	65	80																			

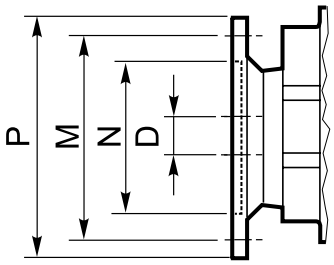
N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.
B/BS = Boccola di riduzione in acciaio

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



Motori applicabili

IEC Motor adapters



	IEC	N	M	P	D	i (rapporto / *ratio*)																								
						6.58	7.99	9.81	10.44	12.53	13.31	15.81	17.77	21.56	26.48	28.17	33.81	35.92	38.88	47.16	57.93	61.63	73.96	78.58	93.33	140.52	181.81	211.31
HTTB633	**90 B5**	130	165	200	24																							
	90 B14	95	115	140																								
	80 B5	130	165	200	19																							
	80 B14	80	100	120																								
	71 B5	110	130	160	14																							
	71 B14	70	85	105																								
	63 B5	95	115	140	11																							

	IEC	N	M	P	D	i (rapporto / *ratio*)																								
						6.65	8.00	9.74	11.21	14.09	17.95	21.60	26.30	30.25	39.26	47.25	57.52	66.17	83.20	108.09	132.23	147.92	167.09	191.06	221.88	262.96				
HTTB903	**100/112B5**	180	215	250	28																							
	100/112B14	110	130	160																								
	90 B5	130	165	200	24																							
	90 B14	95	115	140																								
	80 B5	130	165	200	19																							
	80 B14	80	100	120																								
	71 B5	110	130	160	14	**B**																						

	IEC	N	M	P	D	i (rapporto / *ratio*)																								
						7.08	8.99	10.90	12.52	15.69	18.25	23.18	28.11	32.27	37.09	47.12	57.14	65.59	82.21	97.25	130.07	187.50	217.58							
HTTB1103	**132/B5**	230	265	300	38																							
	100/112B5	180	215	250	28																							
	100/112B14	110	130	160																								
	90 B5	130	165	200	24	**B**																						
	90 B14	95	115	140																								
	80 B5	130	165	200	19	**BS**																						

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

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

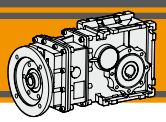
Dimensioni — *Dimensions*

HTTB HTTBI	A	C	E	G	H	I	K	KE	a_2	L	M	N f7	N1	O	P	Q	R	S	U	V	HTTB Peso / *Weight* [kg]	HTTBI Peso / *Weight* [kg]
402	70	100	121.5	154.5	50	24.5	60	4-M6x11	45°	73	75	60	71	6.5	87	55	71.5	6.5	151.5	35	3.4	3.5
502	80	120	144	165.5(1) 175.5(2)	60	23	70	4-M8x12	45°	87	85	70	85	8.5	98	64	84	7	162.5	40	4.7(1) 5(2)	4.8
633	100	144	174	241	72	0	85	7-M8x15	45°	106	95	80	104	8.5	110	80	102	8	233	50	9.5	9.2
903	140	206	238	287	103	0	100	7-M10x20	45°	134	130	110	130	13	160	102	135	11	279.5	70	18.4	18.1
1103	170	255	295	277.5	127.5	30	115	7-M10x19	45°	148	165	130	145	14	200	125	167.5	14	256.5	85	50	50.3

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

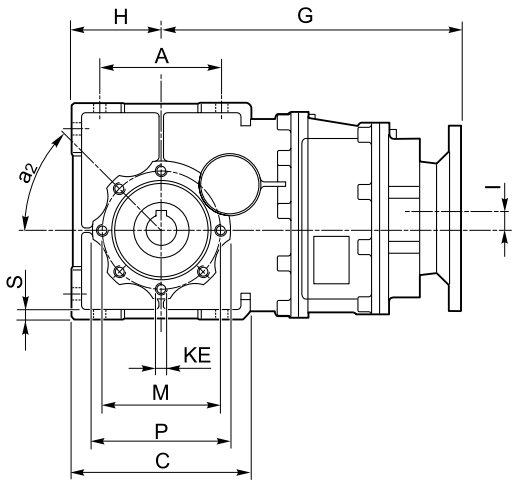
HTTB HTTBI	Albero entrata *Input shaft*					Albero uscita cavo *Hollow output shaft*				
	D_1 j6	E_1	F_1	G_1	T_1	D_2 H8	F_2	G_2	b	t
402	14	30	5	M6	16	18 20	26	78	6	20.8 22.8
502	14	30	5	M6	16	25	30	92	8	28.3
633	16	40	5	M6	18	25	35	112	8	28.3
903	19	40	6	M6	21.5	35	45	140	10	38.3
1103	28	60	8	M10	31	42	50	155	12	45.3

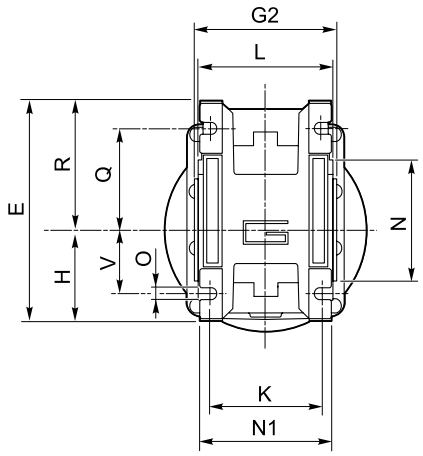
	Flange uscita / *Output flanges*																									
	F									**FL**									**FB**							
HTTB HTTBI	a_1	KA	KB	KC	KM	KN H8	KO	KP	KQ	a_1	KA	KB	KC	KM	KN H8	KO	KP	KQ	a_1	KA	KB	KC	KM	KN H8	KO	KP	KQ
402	45°	67	7.5	4.5	80-95	60	9	110	95	45°	97	7.5	4.5	80-95	60	9	110	95	45°	80	8.5	5	115-125	95	9.5	140	112
502	45°	90	9	5	90-110	70	11	125	110	45°	120	9	5	90-110	70	11	125	110	45°	89	9	5	130-145	110	9.5	160	132
633	45°	82	10	6	150 - 160	115	11	180	142	45°	112	10	8	150 - 160	115	11	180	142	45°	98	11	5	165	130	11	200	160
903	45°	111	13	6	175 - 188	152	14	210	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1103	45°	131	15	6	230	170	14	280	260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



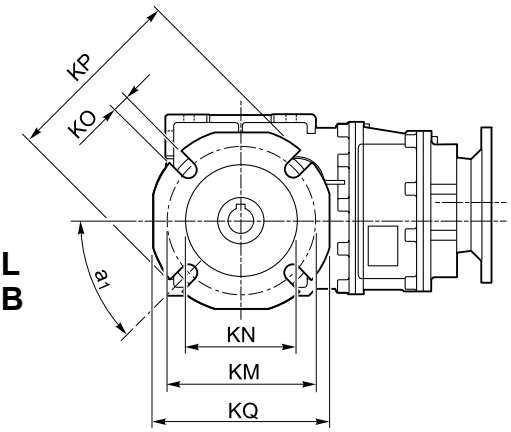
HTTB.. - HTTBI..

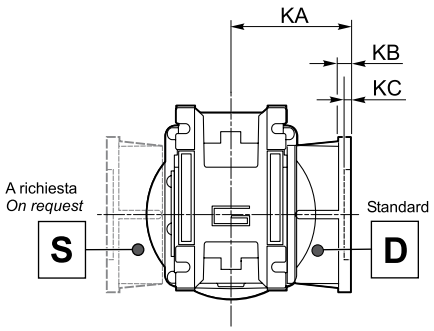
HTTB..U



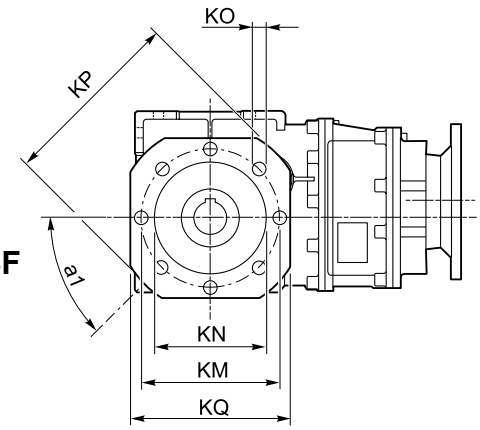


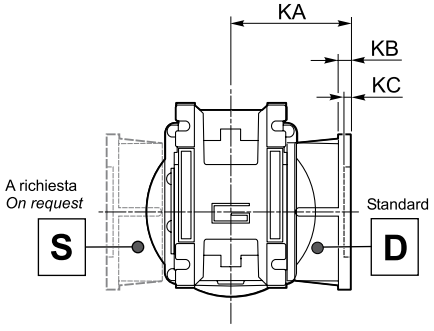
HTTB..F
HTTB..FL
HTTB..FB





HTTB1103F





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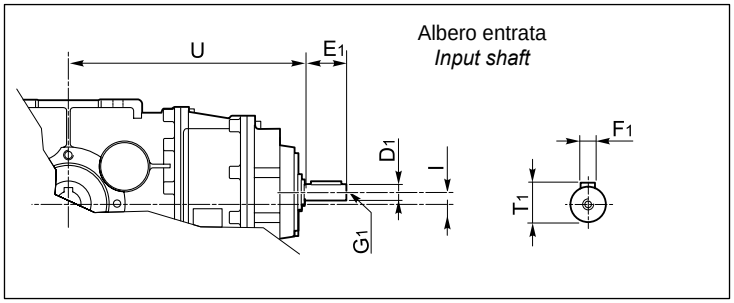
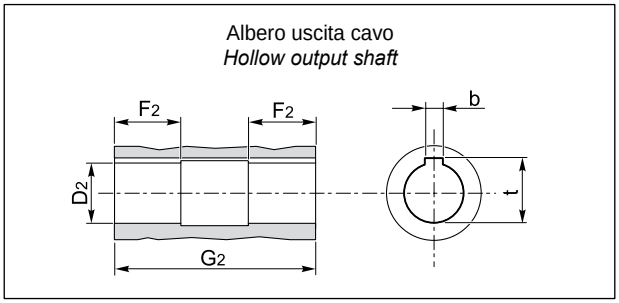
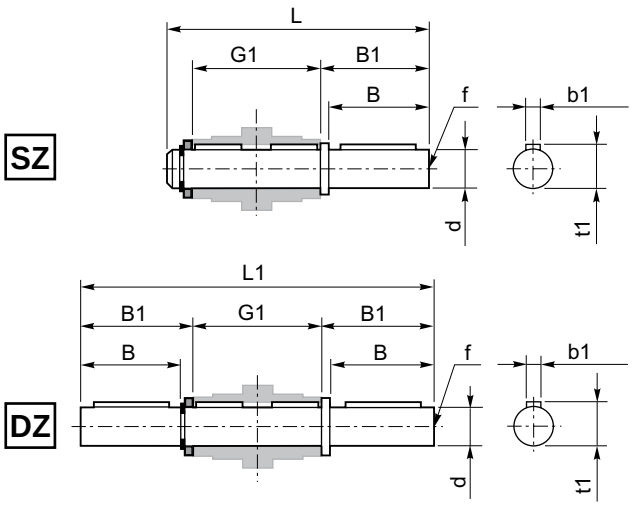
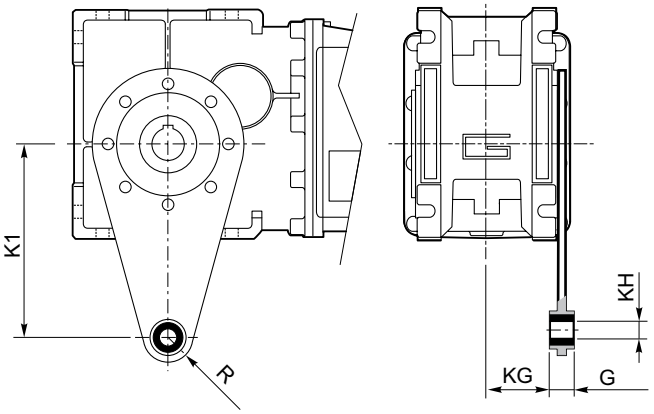




Accessori — *Accessories*





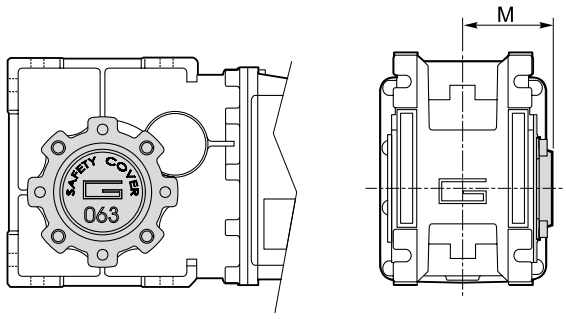
Albero lento / *Output shaft*

HTTB HTTBI	d h7	B	B1	G1	L	L1	f	b1	t1
402	18	40	43	78	128	164	M6	6	20.5
502	25	50	53.5	92	153	199	M10	8	28
633	25	50	53.5	112	173	219	M10	8	28
903	35	80	84.5	140	234	309	M12	10	38
1103	42	80	84.5	155	249	324	M16	12	45

Braccio di reazione / *Torque arm*

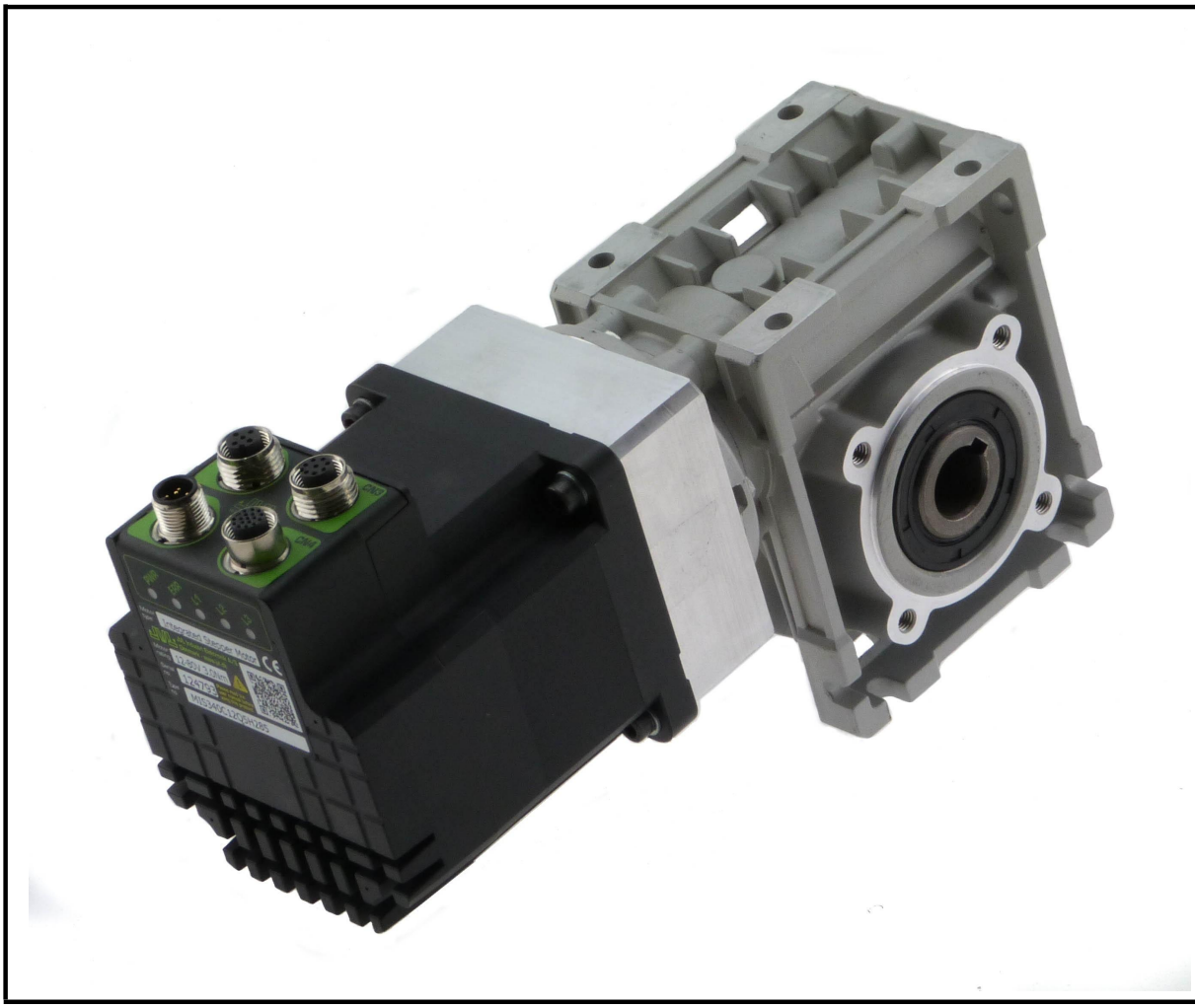
HTTB HTTBI	K1	G	KG	KH	R
402	100	14	31	10	18
502	100	14	38	10	18
633	150	14	47.5	10	18
903	200	25	56.5	20	30
1103	250	30	62	25	35

SC - *Safety cover*

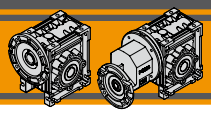


HTTB HTTBI	M
402	54.5
502	62.5
633	73
903	94
1103	102

HTTW / HTTWP
Wormgearboxes
Pre-stage Wormgearboxes



JVL Industri Elektronik A/S



Caratteristiche tecniche — *Technical features*

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

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

The high degree of modularity is a design feature of HTTW and HTTWP wormgearboxes range thanks to a wide selection of input and ou-tput kits.
Main features of HTTW and HTTWP range are:

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

Designazione — *Classification*

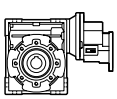
RIDUTTORI A VITE SENZA FINE / WORMGEARBOXES

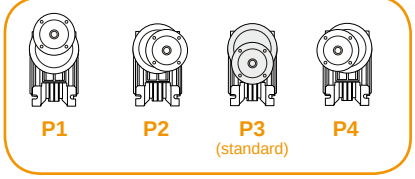
RIDUTTORE / *GEARBOX*

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

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

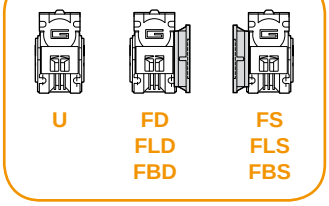
RIDUTTORE / *GEARBOX*

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

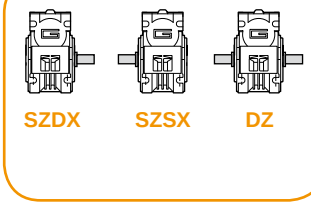


Designazione — *Classification*

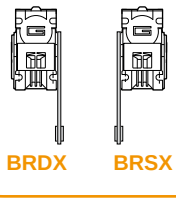
Versione Riduttore *Gearbox Version*



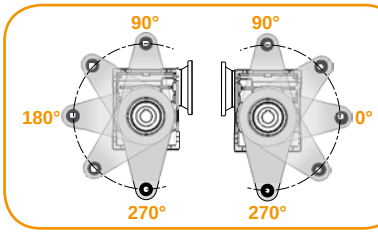
Albero di uscita *Output shaft*



Braccio di reazione *Torque arm*



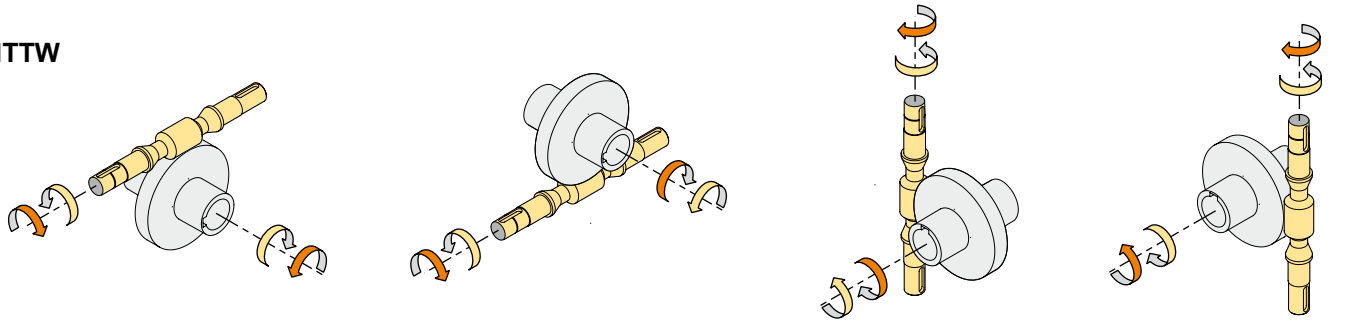
Angolo *Angle*



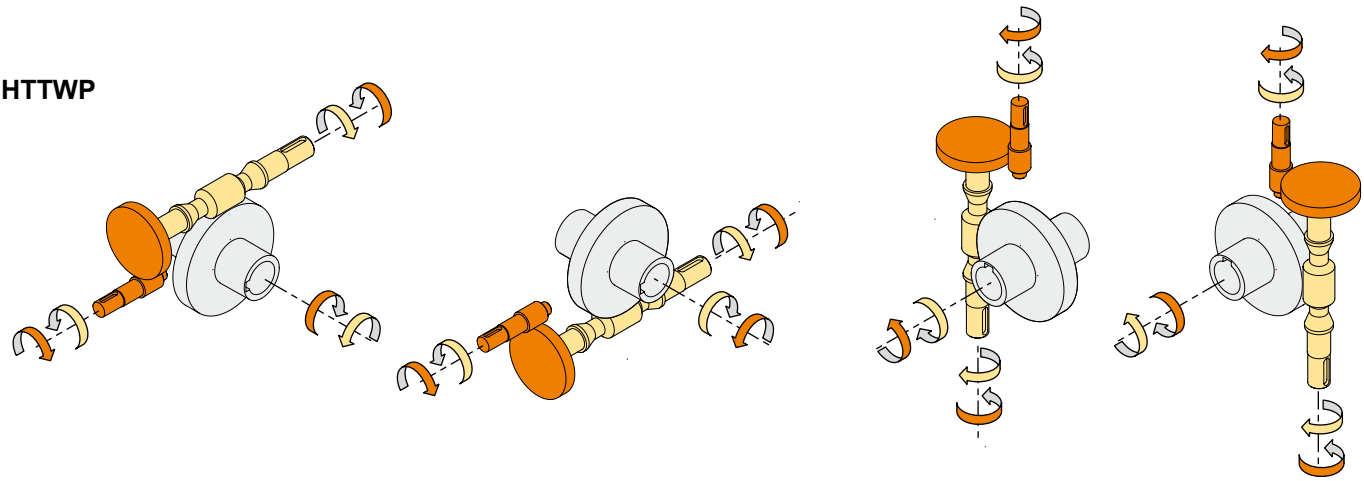
MOTORE CM / *CM MOTOR*				
0.75kW	**4p**	**3ph**	**50Hz**	**T1**
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*
Vedi tabelle *See tables*	**2p** **4p** **6p** **8p**	**1ph** **3ph**	**50Hz** **60Hz**	**T1** (Std) **T4** **T2** **T3**

Sensi di rotazione — *Direction of rotation*

HTTW



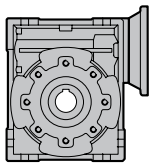
HTTWP



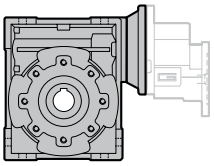
Simbologia — *Symbols*

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

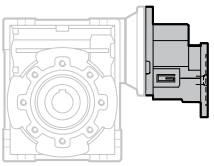
Lubrificazione — *Lubrication*



HTTW	Quantità di olio (litri) / *Oil quantity (litres)*						
	B3	B8	B6	B7	V5	V6	
026	0.02						Lubrificati a vita *Life lubrication*
030	0.03						
040	0.07						
050	0.1						
063	0.25						
075	0.4						
090	0.7						
110	1.1						
130	4.5	3.3	3.5	3.5	4.5	3.3	



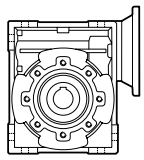
HTTWP	Quantità di olio (litri) / *Oil quantity (litres)*						
	B3	B8	B6	B7	V5	V6	
056/030	0.03						Lubrificati a vita *Life lubrication*
056/040 - 063/040	0.07						
063/050 - 071/050	0.1						
063/063 - 071/063 - 080/063	0.25						
071/075 - 080/075 - 090/075	0.4						
071/090 - 080/090 - 090/090	0.7						
080/110 - 090/110	1.1						
080/130 - 090/130	4.5	3.3	3.5	3.5	4.5	3.3	



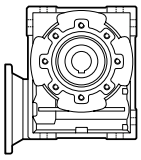
HTTWP				
056/030 056/040	063/040 063/050 063/063	071/050 071/063 071/075 071/090	080/063 080/075 080/090 080/110 080/130	090/075 090/090 090/110 090/130
Lubrificazione a vita *Life lubricated*				

Posizioni di montaggio / *Mounting positions*

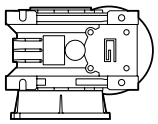
HTTW_HTTWP 026-030-040-050-063-075-090-110



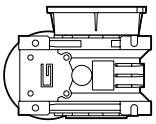
B3 (standard)



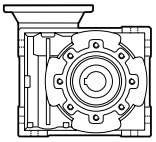
B8



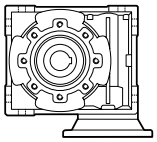
B6



B7

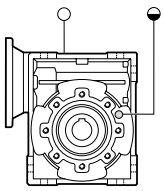


V5

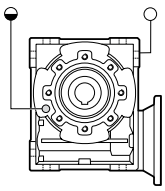


V6

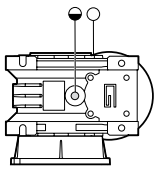
HTTW_HTTWP 130



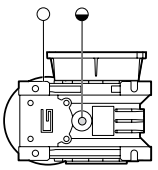
B3 (standard)



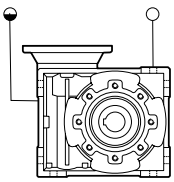
B8



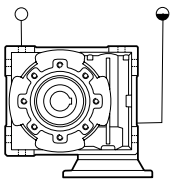
B6



B7



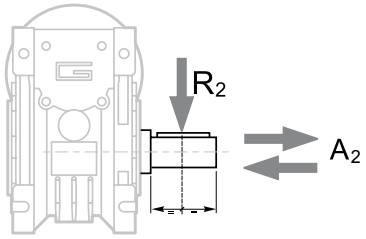
V5



V6

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

Carichi radiali — *Radial loads*

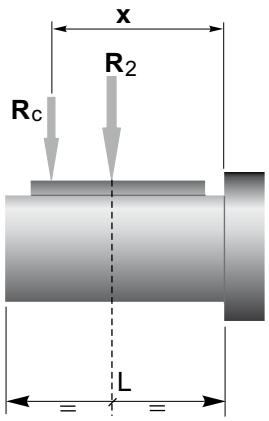


$A_2 = R_2 \times 0.2$

n_2 [min^{-1}]	R_2[N]								
	HTTW026	HTTW030	HTTW040	HTTW050	HTTW063	HTTW075	HTTW090	HTTW110	HTTW130
187	400	674	1264	1770	2445	2824	3161	5058	5732
140	490	743	1392	1949	2692	3110	3481	5570	6313
93	580	851	1596	2234	3085	3564	3990	6384	7235
70	610	936	1754	2456	3392	3918	4386	7018	7953
56	610	1008	1890	2646	3654	4221	4725	7560	8567
47	610	1069	2004	2805	3874	4475	5009	8014	9083
35	610	1179	2210	3095	4273	4937	5526	8842	10021
28	610	1270	2381	3334	4603	5318	5953	9524	10794
23	610	1356	2542	3559	4915	5678	6356	10170	11526
18	610	1471	2759	3862	5334	6162	6897	11036	12507
14	610	1600	3000	4200	5800	6700	7500	12000	13600
		HTTWP... /030	HTTWP... /040	HTTWP... /050	HTTWP... /063	HTTWP... /075	HTTWP... /090	HTTWP... /110	HTTWP... /130

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

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



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

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

$$R \leq R_c$$

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

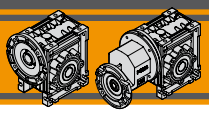
Dati di dentatura — *Toothing data*

	Dati della coppia vite-corona *Worm wheel data*	Rapporto / *Ratio*											
		5	7.5	10	15	20	25	30	40	50	60	80	100
HTTW 026	Z	6	4	3	2	2		1	1	1	1		
	β	34° 35'	24° 41'	19° 1'	12° 57 '	10° 30'		6° 33'	5° 17'	4° 26'	3°49'		
HTTW 030	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	27° 4'	24° 28'	18° 50'	12° 49'	10° 23'	8° 43'	6° 29'	5° 14'	4° 23'	3° 46'	2° 57'	2° 25'
HTTW 040	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	34° 19'	24° 28'	18° 50'	12° 49'	10° 23'	8° 43'	6° 29'	5° 14'	4° 23'	3°46'	2° 57'	2° 25'
HTTW 050	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	33° 37'	23° 54'	18° 23'	12° 29'	10° 6'	8° 28'	6° 19'	5° 5'	4° 15'	3° 39'	2°51'	2° 20'
HTTW 063	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	34° 23'	24° 31'	18° 53'	12° 50'	10° 24'	8° 44'	6° 30'	5° 14'	4° 23'	3° 47'	2° 57'	2° 25'
HTTW 075	Z		4	3	2	2	2	1	1	1	1	1	1
	β		26° 17'	20° 20'	13° 52'	11° 18'	9° 32'	7° 2'	5° 42'	4° 48'	4° 8'	3° 14'	2° 40'
HTTW 090	Z		4	3	2	2	2	1	1	1	1	1	1
	β		29° 11'	22° 43'	15° 36'	12° 50'	10° 53'	7° 56'	6° 30'	5° 29'	4° 45'	3° 45'	3° 6'
HTTW 110	Z		4	3	2	2	2	1	1	1	1	1	1
	β		28° 14'	21° 56'	15° 1'	14° 41'	12° 34'	7° 38'	7° 28'	6° 21'	5° 32'	4° 24'	3° 39'
HTTW 130	Z		4	3	2	2	2	1	1	1	1	1	1
	β		28°43'	22°20'	15°19'	13°47'	11°54'	7°48'	7°00'	6°01'	5°16'	4°08'	3°27'

Rendimento — *Efficiency*

	n_1 [min^{-1}]	Rendimento *Efficiency*	Rapporto / *Ratio*											
			5	7.5	10	15	20	25	30	40	50	60	80	100
HTTW 026	2800	Rd	89	87	85	83	80		73	68	64	60		
	1400		87	84	83	78	74		66	61	57	53		
	900		84	83	80	75	71		61	57	52	48		
		Rs	72	71	68	61	56	46	41	36	34			
HTTW 030	2800	Rd	89	88	86	84	81	78	74	70	65	62	57	52
	1400		86	85	84	79	75	72	67	62	58	55	48	43
	900		84	83	81	75	71	68	62	58	53	49	43	39
		Rs	72	67	63	55	50	43	39	35	31	27	23	21
HTTW 040	2800	Rd	90	89	87	84	83	80	77	73	69	66	60	56
	1400		88	86	84	81	78	74	70	65	60	58	52	46
	900		86	84	82	77	74	70	66	60	57	53	46	41
		Rs	74	71	67	60	55	51	45	40	36	32	28	24
HTTW 050	2800	Rd	91	90	88	86	84	82	78	74	71	68	62	58
	1400		89	87	85	82	79	76	72	67	63	60	54	49
	900		87	85	84	79	75	72	68	62	59	55	48	43
		Rs	73	70	66	59	55	51	44	39	35	32	27	23
HTTW 063	2800	Rd	91	90	88	86	84	83	79	76	73	70	65	60
	1400		90	88	86	84	81	78	75	70	66	63	57	52
	900		89	86	84	81	78	75	70	65	61	58	52	47
		Rs	73	71	67	60	55	51	45	40	36	33	28	24
HTTW 075	2800	Rd		90	89	87	85	84	81	78	75	72	68	63
	1400			89	87	84	83	80	77	73	69	66	60	56
	900			87	85	83	80	77	73	68	64	61	55	50
		Rs		71	68	61	57	53	46	42	38	35	29	26
HTTW 090	2800	Rd		91	90	88	86	85	83	80	78	75	71	67
	1400			90	88	86	84	83	79	76	72	69	64	60
	900			88	87	84	82	80	76	72	68	65	60	55
		Rs		73	70	64	60	56	49	45	41	38	32	28
HTTW 110	2800	Rd		90	89	88	87	86	82	81	79	77	73	70
	1400			89	88	86	85	84	80	79	76	73	68	64
	900			88	87	84	83	82	78	75	71	68	63	59
		Rs		72	69	63	62	59	48	46	44	41	36	32
HTTW 130	2800	Rd		90	89	88	87	86	82	80	79	77	72	70
	1400			89	88	86	84	83	79	76	75	73	69	64
	900			88	87	84	82	81	77	74	73	70	64	59
		Rs		72	69	62	61	59	49	46	43	39	34	30

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



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

HTT

	n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
HTTWI026	280	13	0.44	5
	187	14	0.33	7,5
	140	14	0.25	10
	93	14	0.18	15
	70	14	0.14	20
	47	15	0.11	30
	35	14	0.08	40
	28	13	0.07	50
	23	12	0.06	60
HTTWI030	280	18	0.61	5
	187	20	0.46	7.5
	140	21	0.37	10
	93	21	0.26	15
	70	19	0.19	20
	56	20	0.16	25
	47	22	0.16	30
	35	20	0.12	40
	28	19	0.10	50
	23	17	0.08	60
	18	15	0.06	80
	14	14	0.05	100
HTTWI040	280	41	1.37	5
	187	44	1.00	7.5
	140	45	0.79	10
	93	45	0.54	15
	70	40	0.38	20
	56	38	0.30	25
	47	48	0.34	30
	35	42	0.24	40
	28	39	0.19	50
	23	36	0.15	60
	18	33	0.12	80
	14	31	0.10	100
HTTWI050	280	75	2.5	5
	187	79	1.8	7.5
	140	82	1.4	10
	93	82	0.98	15
	70	72	0.67	20
	56	70	0.54	25
	47	88	0.60	30
	35	76	0.42	40
	28	72	0.34	50
	23	69	0.28	60
	18	60	0.20	80
	14	56	0.17	100
HTTWI063	280	134	4.4	5
	187	144	3.2	7.5
	140	148	2.5	10
	93	154	1.8	15
	70	136	1.23	20
	56	135	1.0	25
	47	166	1.1	30
	35	142	0.74	40
	28	136	0.60	50
	23	126	0.49	60
	18	118	0.38	80
	14	116	0.33	100

	n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
HTTWI075	187	219	4.8	7.5
	140	238	4.0	10
	93	249	2.9	15
	70	224	2.0	20
	56	200	1.5	25
	47	269	1.7	30
	35	235	1.2	40
	28	212	0.90	50
	23	210	0.78	60
	18	190	0.58	80
	14	175	0.46	100
HTTWI090	187	317	6.9	7.5
	140	354	5.9	10
	93	404	4.6	15
	70	384	3.4	20
	56	342	2.4	25
	47	457	2.8	30
	35	404	1.9	40
	28	357	1.5	50
	23	328	1.2	60
	18	302	0.86	80
	14	278	0.68	100
HTTWI110	187	560	12.3	7.5
	140	617	10.3	10
	93	678	7.7	15
	70	661	5.7	20
	56	615	4.3	25
	47	755	4.6	30
	35	716	3.3	40
	28	648	2.5	50
	23	578	1.9	60
	18	523	1.4	80
	14	486	1.1	100
HTTWI130	187	750	16.5	7.5
	140	820	13.7	10
	93	910	10.3	15
	70	910	7.9	20
	56	920	6.5	25
	47	1050	6.5	30
	35	1050	5.1	40
	28	970	3.8	50
	23	890	3.0	60
	18	830	2.2	80
	14	735	1.7	100

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

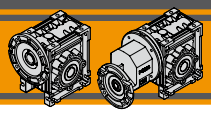
Note:
Pn_1 is an input mechanical power which must be reduced by the heating factor in order to get the relevant one. For more details please contact our Technical Service.

Dati tecnici

Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.06					**HTT**	**HTT**	
56A4 (1400 min^{-1})	**280**	2	*7.3*	5	**W026**		B14
	187	3	*5.4*	7.5	**W026**		B14
	140	3	*4.1*	10	**W026**		B14
	93	5	*2.9*	15	**W026**		B14
	70	6	*2.3*	20	**W026**		B14
	47	8	*1.9*	30	**W026**		B14
	35	10	*1.4*	40	**W026**		B14
	28	12	*1.1*	50	**W026**		B14
	23	13	*0.9*	60	**W026**		B14
	280	2	*10.2*	5	**W030**		B5/B14
	187	3	*7.7*	7.5	**W030**		B5/B14
	140	3	*6.1*	10	**W030**		B5/B14
	93	5	*4.3*	15	**W030**		B5/B14
	70	6	*3.1*	20	**W030**		B5/B14
	56	7	*2.7*	25	**W030**		B5/B14
	47	8	*2.7*	30	**W030**		B5/B14
	35	10	*2.0*	40	**W030**		B5/B14
	28	12	*1.6*	50	**W030**		B5/B14
	23	14	*1.3*	60	**W030**		B5/B14
	23	16	*1.6*	60		**WP056/030**	B14
	19	19	*1.4*	75			B14
	18	16	*1.0*	80	**W030**		B5/B14
	16	21	*1.5*	90			B14
	14	18	*0.8*	100	**W030**		B5/B14
	12	26	*1.1*	120			B14
	9.3	29	*0.9*	150			B14
	28	12	*3.2*	50	**W040**		B5/B14
	23	14	*2.5*	60	**W040**		B5/B14
	23	17	*3.4*	60		**WP056/040**	B14
	19	20	*2.6*	75		**WP056/040**	B14
	18	17	*1.9*	80	**W040**		B5/B14
	16	23	*3.1*	90		**WP056/040**	B14
	14	19	*1.6*	100	**W040**		B5/B14
	12	28	*2.2*	120		**WP056/040**	B14
	9.3	32	*1.8*	150		**WP056/040**	B14
	7.8	35	*1.5*	180		**WP056/040**	B14
	5.8	41	*1.1*	240		**WP056/040**	B14
	4.7	46	*0.9*	300		**WP056/040**	B14
0.09					**HTT**	**HTT**	
56A2 (2800 min^{-1})	**560**	1	*7.3*	5	**W026**		B14
	373	2	*5.5*	7.5	**W026**		B14
	280	3	*4.2*	10	**W026**		B14
	187	4	*2.9*	15	**W026**		B14
	140	5	*2.2*	20	**W026**		B14
	93	7	*1.8*	30	**W026**		B14
	70	8	*1.3*	40	**W026**		B14
	56	10	*1.0*	50	**W026**		B14
	47	11	*0.8*	60	**W026**		B14
	140	5	*2.8*	20	**W030**		B5/B14
	112	6	*2.5*	25	**W030**		B5/B14
	93	7	*2.6*	30	**W030**		B5/B14
	70	9	*1.9*	40	**W030**		B5/B14
	56	10	*1.5*	50	**W030**		B5/B14
	47	11	*1.2*	60	**W030**		B5/B14
	47	13	*1.7*	60		**WP056/030**	B14
	37	15	*1.4*	75		**WP056/030**	B14
	35	14	*0.9*	80	**W030**		B5/B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.09					**HTT**	**HTT**	
56A2 (2800 min^{-1})	**31**	17	*1.6*	90		**WP056/030**	B14
	28	16	*0.7*	100	**W030**		B5/B14
	23	21	*1.1*	120		**WP056/030**	B14
	19	24	*0.9*	150		**WP056/030**	B14
	47	12	*2.4*	60	**W040**		B5/B14
	47	13	*3.4*	60		**WP056/040**	B14
	37	16	*2.8*	75		**WP056/040**	B14
	31	18	*3.1*	90		**WP056/040**	B14
	23	22	*2.2*	120		**WP056/040**	B14
	19	26	*1.8*	150		**WP056/040**	B14
	16	29	*1.5*	180		**WP056/040**	B14
	12	33	*1.2*	240		**WP056/040**	B14
	9.3	37	*1.0*	300		**WP056/040**	B14
56B4 (1400 min^{-1})	**280**	3	*4.9*	5	**W026**		B14
	187	4	*3.6*	7.5	**W026**		B14
	140	5	*2.7*	10	**W026**		B14
	93	7	*1.9*	15	**W026**		B14
	70	9	*1.5*	20	**W026**		B14
	47	12	*1.2*	30	**W026**		B14
	35	15	*0.9*	40	**W026**		B14
	28	17	*0.7*	50	**W026**		B14
	280	3	*6.8*	5	**W030**		B5/B14
	187	4	*5.1*	7.5	**W030**		B5/B14
	140	5	*4.1*	10	**W030**		B5/B14
	93	7	*2.9*	15	**W030**		B5/B14
	70	9	*2.1*	20	**W030**		B5/B14
	56	11	*1.8*	25	**W030**		B5/B14
	47	12	*1.8*	30	**W030**		B5/B14
	35	15	*1.3*	40	**W030**		B5/B14
	28	18	*1.1*	50	**W030**		B5/B14
	23	20	*0.8*	60	**W030**		B5/B14
	23	24	*1.1*	60		**WP056/030**	B14
	19	29	*0.9*	75		**WP056/030**	B14
	18	24	*0.6*	80	**W030**		B5/B14
	16	32	*1.0*	90		**WP056/030**	B14
	12	38	*0.8*	120		**WP056/030**	B14
	35	16	*2.6*	40	**W040**		B5/B14
	28	18	*2.1*	50	**W040**		B5/B14
	23	21	*1.7*	60	**W040**		B5/B14
	23	25	*2.3*	60		**WP056/040**	B14
	19	30	*1.7*	75		**WP056/040**	B14
	18	26	*1.3*	80	**W040**		B5/B14
	16	34	*2.1*	90		**WP056/040**	B14
	14	28	*1.1*	100	**W040**		B5/B14
	12	42	*1.5*	120		**WP056/040**	B14
	9.3	48	*1.2*	150		**WP056/040**	B14
	7.8	53	*1.0*	180		**WP056/040**	B14
	5.8	62	*0.8*	240		**WP056/040**	B14
63A6 (900 min^{-1})	**180**	4	*5.2*	5	**W030**		B5/B14
	120	6	*4.0*	7.5	**W030**		B5/B14
	90	8	*3.1*	10	**W030**		B5/B14
	60	11	*2.3*	15	**W030**		B5/B14
	45	14	*1.6*	20	**W030**		B5/B14
	36	16	*1.4*	25	**W030**		B5/B14
	30	18	*1.5*	30	**W030**		B5/B14
	23	22	*1.0*	40	**W030**		B5/B14
	18	25	*0.9*	50	**W030**		B5/B14



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.09					**HTT**	**HTT**	
63A6	**45**	14	*3.2*	20	**W040**		B5/B14
(900 min^{-1})	**36**	17	*2.6*	25	**W040**		B5/B14
	30	19	*3.0*	30	**W040**		B5/B14
	23	23	*2.1*	40	**W040**		B5/B14
	18	27	*1.7*	50	**W040**		B5/B14
	15	30	*1.4*	60	**W040**		B5/B14
	15	38	*1.8*	60		**WP063/040**	B14
	12	45	*1.3*	75		**WP063/040**	B14
	11	35	*1.1*	80	**W040**		B5/B14
	10	48	*1.7*	90		**WP063/040**	B14
	9	39	*0.9*	100	**W040**		B5/B14
	7.5	58	*1.1*	120		**WP063/040**	B14
	15	32	*2.4*	60	**W050**		B5/B14
	15	38	*3.2*	60		**WP063/050**	B14
	12	45	*2.5*	75		**WP063/050**	B14
	11	37	*1.9*	80	**W050**		B5/B14
	10	49	*3.0*	90		**WP063/050**	B14
	9	41	*1.6*	100	**W050**		B5/B14
	7.5	60	*2.0*	120		**WP063/050**	B14
	6.0	67	*1.7*	150		**WP063/050**	B14
	5.0	74	*1.4*	180		**WP063/050**	B14
	3.8	85	*1.0*	240		**WP063/050**	B14
	6.0	70	*3.0*	150		**WP063/063**	B14
	5.0	77	*2.5*	180		**WP063/063**	B14
	3.8	90	*1.9*	240		**WP063/063**	B14
	3.0	98	*1.5*	300		**WP063/063**	B14
0.12					**HTT**	**HTT**	
56B2	**560**	2	*5.5*	5	**W026**		B14
(2800 min^{-1})	**373**	3	*4.1*	7.5	**W026**		B14
	280	3	*3.2*	10	**W026**		B14
	187	5	*2.2*	15	**W026**		B14
	140	7	*1.7*	20	**W026**		B14
	93	9	*1.3*	30	**W026**		B14
	70	11	*1.0*	40	**W026**		B14
	56	13	*0.8*	50	**W026**		B14
	560	2	*7.1*	5	**W030**		B5/B14
	373	3	*5.6*	7.5	**W030**		B5/B14
	280	4	*4.5*	10	**W030**		B5/B14
	187	5	*3.1*	15	**W030**		B5/B14
	140	7	*2.1*	20	**W030**		B5/B14
	112	8	*1.9*	25	**W030**		B5/B14
	93	9	*2.0*	30	**W030**		B5/B14
	70	11	*1.4*	40	**W030**		B5/B14
	56	13	*1.1*	50	**W030**		B5/B14
	47	15	*0.9*	60	**W030**		B5/B14
	47	17	*1.3*	60		**WP056/030**	B14
	37	20	*1.1*	75		**WP056/030**	B14
	31	22	*1.2*	90		**WP056/030**	B14
	23	28	*0.8*	120		**WP056/030**	B14
	93	9	*4.0*	30	**W040**		B5/B14
	70	12	*2.8*	40	**W040**		B5/B14
	56	14	*2.3*	50	**W040**		B5/B14
	47	16	*1.8*	60	**W040**		B5/B14
	47	18	*2.5*	60		**WP056/040**	B5/B14
	37	21	*2.1*	75		**WP056/040**	B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.12					**HTT**	**HTT**	
56B2	**35**	20	*1.4*	80	**W040**		B5/B14
(2800 min^{-1})	**31**	24	*2.4*	90		**WP056/040**	B14
	28	23	*1.0*	100	**W040**		B5/B14
	23	29	*1.7*	120		**WP056/040**	B14
	19	34	*1.3*	150		**WP056/040**	B14
	16	38	*1.1*	180		**WP056/040**	B14
	12	44	*0.9*	240		**WP056/040**	B14
63A4	**280**	4	*5.1*	5	**W030**		B5/B14
(1400 min^{-1})	**187**	5	*3.8*	7.5	**W030**		B5/B14
	140	7	*3.1*	10	**W030**		B5/B14
	93	10	*2.2*	15	**W030**		B5/B14
	70	12	*1.5*	20	**W030**		B5/B14
	56	15	*1.4*	25	**W030**		B5/B14
	47	16	*1.3*	30	**W030**		B5/B14
	35	20	*1.0*	40	**W030**		B5/B14
	28	24	*0.8*	50	**W030**		
	280	4	*11.4*	5	**W040**		B5/B14
	187	5	*8.3*	7.5	**W040**		B5/B14
	140	7	*6.5*	10	**W040**		B5/B14
	93	10	*4.5*	15	**W040**		B5/B14
	70	13	*3.1*	20	**W040**		B5/B14
	56	15	*2.5*	25	**W040**		B5/B14
	47	17	*2.8*	30	**W040**		B5/B14
	35	21	*2.0*	40	**W040**		B5/B14
	28	25	*1.6*	50	**W040**		B5/B14
	23	28	*1.3*	60	**W040**		B5/B14
	23	34	*1.7*	60		**WP063/040**	B14
	19	40	*1.3*	75		**WP063/040**	B14
	18	34	*1.0*	80	**W040**		B5/B14
	16	45	*1.6*	90		**WP063/040**	B14
	14	38	*0.8*	100	**W040**		B5/B14
	12	56	*1.1*	120		**WP063/040**	B14
	35	22	*3.5*	40	**W050**		B5/B14
	28	26	*2.8*	50	**W050**		B5/B14
	23	29	*2.3*	60	**W050**		B5/B14
	23	34	*3.0*	60		**WP063/050**	B14
	19	40	*2.3*	75		**WP063/050**	B14
	18	35	*1.7*	80	**W050**		B5/B14
	16	47	*2.7*	90		**WP063/050**	B14
	14	40	*1.4*	100	**W050**		B5/B14
	12	57	*1.9*	120		**WP063/050**	B14
	9.3	66	*1.6*	150		**WP063/050**	B14
	7.8	74	*1.3*	180		**WP063/050**	B14
	5.8	85	*1.0*	240		**WP063/050**	B14
	14.0	43	*2.7*	100	**W063**		B5
	9.3	69	*2.8*	150		**WP063/063**	B14
	7.8	77	*2.3*	180		**WP063/063**	B14
	5.8	90	*1.7*	240		**WP063/063**	B14
	4.7	101	*1.4*	300		**WP063/063**	B14
63B6	**180**	5	*3.9*	5	**W030**		B5/B14
(900 min^{-1})	**120**	8	*3.0*	7.5	**W030**		B5/B14
	90	10	*2.3*	10	**W030**		B5/B14
	60	14	*1.7*	15	**W030**		B5/B14
	45	18	*1.2*	20	**W030**		B5/B14
	36	22	*1.0*	25	**W030**		B5/B14
	30	24	*1.1*	30	**W030**		B5/B14
	23	30	*0.8*	40	**W030**		B5/B14

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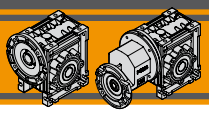
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.12					**HTT**	**HTT**	
63B6	**60**	15	*3.7*	15	**W040**		B5/B14
(900 min^{-1})	**45**	19	*2.4*	20	**W040**		B5/B14
	36	22	*2.0*	25	**W040**		B5/B14
	30	25	*2.2*	30	**W040**		B5/B14
	23	31	*1.6*	40	**W040**		B5/B14
	18	36	*1.3*	50	**W040**		B5/B14
	15	40	*1.1*	60	**W040**		B5/B14
	15	50	*1.3*	60		**WP063/040**	B14
	12	60	*1.0*	75		**WP063/040**	B14
	11	47	*0.9*	80	**W040**		B5/B14
	10	64	*1.3*	90		**WP063/040**	B14
	7.5	78	*0.9*	120		**WP063/040**	B14
	30	26	*3.8*	30	**W050**		B5/B14
	23	32	*2.7*	40	**W050**		B5/B14
	18	38	*2.2*	50	**W050**		B5/B14
	15	42	*1.8*	60	**W050**		B5/B14
	15	51	*2.4*	60		**WP063/050**	B14
	12	60	*1.9*	75		**WP063/050**	B14
	11	49	*1.4*	80	**W050**		B5/B14
	10	65	*2.2*	90		**WP063/050**	B14
	9	55	*1.2*	100	**W050**		B5/B14
	7.5	79	*1.5*	120		**WP063/050**	B14
	6.0	90	*1.3*	150		**WP063/050**	B14
	5.0	99	*1.0*	180		**WP063/050**	B14
	3.8	114	*0.8*	240		**WP063/050**	B14
	11,3	53	*2.4*	80	**W063**		B5
	9,0	60	*2.0*	100	**W063**		B5
	7.5	81	*2.9*	120		**WP063/063**	B14
	6.0	94	*2.2*	150		**WP063/063**	B14
	5.0	103	*1.9*	180		**WP063/063**	B14
	3.8	120	*1.4*	240		**WP063/063**	B14
	3.0	131	*1.1*	300		**WP063/063**	B14
0.18					**HTT**	**HTT**	
63A2	**560**	3	*4.8*	5	**W030**		B5/B14
(2800 min^{-1})	**373**	4	*3.7*	7.5	**W030**		B5/B14
	280	5	*3.0*	10	**W030**		B5/B14
	187	8	*2.1*	15	**W030**		B5/B14
	140	10	*1.4*	20	**W030**		B5/B14
	112	12	*1.3*	25	**W030**		B5/B14
	93	14	*1.3*	30	**W030**		B5/B14
	70	17	*0.9*	40	**W030**		B5/B14
	56	20	*0.8*	50	**W030**		B5/B14
	140	10	*3.0*	20	**W040**		B5/B14
	112	12	*2.3*	25	**W040**		B5/B14
	93	14	*2.7*	30	**W040**		B5/B14
	70	18	*1.9*	40	**W040**		B5/B14
	56	21	*1.5*	50	**W040**		B5/B14
	47	24	*1.2*	60	**W040**		B5/B14
	47	27	*1.7*	60		**WP063/040**	B14
	37	32	*1.4*	75		**WP063/040**	B14
	35	29	*0.9*	80	**W040**		B5/B14
	31	36	*1.6*	90		**WP063/040**	B14
	23	43	*1.1*	120		**WP063/040**	B14
	56	22	*2.6*	50	**W050**		B5/B14
	47	25	*2.1*	60	**W050**		B5/B14
	47	27	*3.0*	60		**WP063/050**	B14
	37	32	*2.3*	75		**WP063/050**	B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.18					**HTT**	**HTT**	
63A2	**35**	30	*1.5*	80	**W050**		B5/B14
(2800 min^{-1})	**31**	37	*2.7*	90		**WP063/050**	B14
	28	36	*1.2*	100	**W050**		B5/B14
	23	45	*1.9*	120		**WP063/050**	B14
	19	53	*1.5*	150		**WP063/050**	B14
	16	60	*1.3*	180		**WP063/050**	B14
	12	69	*1.0*	240		**WP063/050**	B14
	35	32	*2.7*	80	**W063**		B5
	28	37	*2.2*	100	**W063**		B5
	19	55	*2.7*	150		**WP063/063**	B14
	16	63	*2.3*	180		**WP063/063**	B14
	12	75	*1.7*	240		**WP063/063**	B14
	9.3	85	*1.4*	300		**WP063/063**	B14
63B4	**280**	5	*3.4*	5	**W030**		B5/B14
(1400 min^{-1})	**187**	8	*2.6*	7.5	**W030**		B5/B14
	140	10	*2.0*	10	**W030**		B5/B14
	93	15	*1.4*	15	**W030**		B5/B14
	70	18	*1.0*	20	**W030**		B5/B14
	56	22	*0.9*	25	**W030**		B5/B14
	47	25	*0.9*	30	**W030**		
	280	5	*7.6*	5	**W040**		B5/B14
	187	8	*5.6*	7.5	**W040**		B5/B14
	140	10	*4.4*	10	**W040**		B5/B14
	93	15	*3.0*	15	**W040**		B5/B14
	70	19	*2.1*	20	**W040**		B5/B14
	56	23	*1.7*	25	**W040**		B5/B14
	47	26	*1.9*	30	**W040**		B5/B14
	35	32	*1.3*	40	**W040**		B5/B14
	28	37	*1.1*	50	**W040**		B5/B14
	23	43	*0.8*	60	**W040**		B5/B14
	23	51	*1.1*	60		**WP063/040**	B14
	19	60	*0.9*	75		**WP063/040**	B14
	16	68	*1.0*	90		**WP063/040**	B14
	35	33	*2.3*	40	**W050**		B5/B14
	28	39	*1.9*	50	**W050**		B5/B14
	23	44	*1.6*	60	**W050**		B5/B14
	23	51	*2.0*	60		**WP063/050**	B14
	19	60	*1.5*	75		**WP063/050**	B14
	18	53	*1.1*	80	**W050**		B5/B14
	16	70	*1.8*	90		**WP063/050**	B14
	14	60	*0.9*	100	**W050**		B5/B14
	12	85	*1.3*	120		**WP063/050**	B14
	9.3	99	*1.0*	150		**WP063/050**	B14
	7.8	110	*0.9*	180		**WP063/050**	B14
	23	46	*2.7*	60	**W063**		B5
	23	53	*3.6*	60		**WP063/063**	B14
	19	63	*2.7*	75		**WP063/063**	B14
	18	56	*2.1*	80	**W063**		B5
	16	69	*3.4*	90		**WP063/063**	B14
	14	64	*1.8*	100	**W063**		B5
	12	87	*2.4*	120		**WP063/063**	B14
	9.3	103	*1.9*	150		**WP063/063**	B14
	7.8	115	*1.6*	180		**WP063/063**	B14
	5.8	136	*1.1*	240		**WP063/063**	B14
	4.7	152	*0.9*	300		**WP063/063**	B14



Dati tecnici — *Technical data*

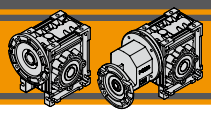
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.18					**HTT**	**HTT**	
71A6	**180**	8	*5.7*	5	**W040**		B5/B14
(900 min^{-1})	**120**	12	*4.2*	7.5	**W040**		B5/B14
	90	16	*3.3*	10	**W040**		B5/B14
	60	22	*2.4*	15	**W040**		B5/B14
	45	28	*1.6*	20	**W040**		B5/B14
	36	33	*1.3*	25	**W040**		B5/B14
	30	38	*1.5*	30	**W040**		B5/B14
	23	46	*1.0*	40	**W040**		B5/B14
	36	34	*2.2*	25	**W050**		B5/B14
	30	39	*2.5*	30	**W050**		B5/B14
	23	47	*1.8*	40	**W050**		B5/B14
	18	56	*1.4*	50	**W050**		B5/B14
	15	63	*1.2*	60	**W050**		B5/B14
	15	76	*1.6*	60		**WP071/050**	B14
	12	90	*1.2*	75		**WP071/050**	B14
	11	73	*0.9*	80	**W050**		B5/B14
	10	98	*1.5*	90		**WP071/050**	B14
	18	58	*2.6*	50	**W063**		B5/B14
	15	66	*2.1*	60	**W063**		B5/B14
	15	75	*3.1*	60		**WP071/063**	B14
	12	88	*2.3*	75		**WP071/063**	B14
	11	79	*1.6*	80	**W063**		B5/B14
	10	101	*2.8*	90		**WP071/063**	B14
	9	90	*1.4*	100	**W063**		B5/B14
	7.5	121	*1.9*	120		**WP071/063**	B14
	6.0	140	*1.5*	150		**WP071/063**	B14
	5.0	155	*1.3*	180		**WP071/063**	B14
	11	84	*2.5*	80	**W075**		B5
	9	96	*2.0*	100	**W075**		B5
	7.5	128	*3.0*	120		**WP071/075**	B14
	6.0	149	*2.3*	150		**WP071/075**	B14
	5.0	165	*1.9*	180		**WP071/075**	B14
	3.8	193	*1.4*	240		**WP071/075**	B14
	3.0	213	*1.1*	300		**WP071/075**	B14
	5.0	179	*2.9*	180		**WP071/090**	B14
	3.8	211	*2.1*	240		**WP071/090**	B14
	3.0	236	*1.7*	300		**WP071/090**	B14
0.22					**HTT**	**HTT**	
63C4	**280**	6	*2.8*	5	**W030**		B5/B14
(1400 min^{-1})	**187**	10	*2.1*	7.5	**W030**		B5/B14
	140	13	*1.7*	10	**W030**		B5/B14
	93	18	*1.2*	15	**W030**		B5/B14
	70	23	*0.8*	20	**W030**		B5/B14
	280	7	*6.2*	5	**W040**		B5/B14
	187	10	*4.5*	7.5	**W040**		B5/B14
	140	13	*3.6*	10	**W040**		B5/B14
	93	18	*2.5*	15	**W040**		B5/B14
	70	23	*1.7*	20	**W040**		B5/B14
	56	28	*1.4*	25	**W040**		B5/B14
	47	32	*1.5*	30	**W040**		B5/B14
	35	39	*1.1*	40	**W040**		B5/B14
	28	45	*0.9*	50	**W040**		B5/B14
	23	62	*0.9*	60		**WP063/040**	B14
	19	73	*0.7*	75		**WP063/040**	B14
	16	83	*0.9*	90		**WP063/040**	B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.22					**HTT**	**HTT**	
63C4	**56**	29	*2,5*	25	**W050**		B5/B14
(1400 min^{-1})	**47**	32	*2,7*	30	**W050**		B5/B14
	35	40	*1.9*	40	**W050**		B5/B14
	28	47	*1.5*	50	**W050**		B5/B14
	23	54	*1.3*	60	**W050**		B5/B14
	23	63	*1.6*	60		**WP063/050**	B14
	19	74	*1.2*	75		**WP063/050**	B14
	18	65	*0.9*	80	**W050**		B5/B14
	16	86	*1.5*	90		**WP063/050**	B14
	14	74	*0.8*	100	**W050**		B5/B14
	12	104	*1.1*	120		**WP063/050**	B14
	9.3	121	*0.9*	150		**WP063/050**	B14
	23	57	*2.2*	60	**W063**		B5
	23	64	*2.9*	60		**WP063/063**	B14
	19	77	*2.2*	75		**WP063/063**	B14
	18	68	*1.7*	80	**W063**		B5
	16	85	*2.8*	90		**WP063/063**	B14
	14	78	*1.5*	100	**W063**		B5
	12	106	*1.9*	120		**WP063/063**	B14
	9.3	126	*1.5*	150		**WP063/063**	B14
	7.8	140	*1.3*	180		**WP063/063**	B14
	5.8	166	*0.9*	240		**WP063/063**	B14
	4.7	185	*0.8*	300		**WP063/063**	B14
0.25					**HTT**	**HTT**	
63B2	**560**	4	*3.4*	5	**W030**		B5/B14
(2800 min^{-1})	**373**	6	*2.7*	7.5	**W030**		B5/B14
	280	7	*2.2*	10	**W030**		B5/B14
	187	11	*1.5*	15	**W030**		B5/B14
	140	14	*1.0*	20	**W030**		B5/B14
	112	17	*0.9*	25	**W030**		B5/B14
	93	19	*1.0*	30	**W030**		B5/B14
	140	14	*2.2*	20	**W040**		B5/B14
	112	17	*1.6*	25	**W040**		B5/B14
	93	20	*1.9*	30	**W040**		B5/B14
	70	25	*1.4*	40	**W040**		B5/B14
	56	29	*1.1*	50	**W040**		B5/B14
	47	34	*0.9*	60	**W040**		B5/B14
	47	37	*1.2*	60		**WP063/040**	B14
	37	44	*1.0*	75		**WP063/040**	B14
	31	50	*1.1*	90		**WP063/040**	B14
	23	60	*0.8*	120		**WP063/040**	B14
	70	25	*2.3*	40	**W050**		B5/B14
	56	30	*1.9*	50	**W050**		B5/B14
	47	35	*1.5*	60	**W050**		B5/B14
	47	38	*2.1*	60		**WP063/050**	B14
	37	45	*1.7*	75		**WP063/050**	B14
	35	42	*1.1*	80	**W050**		B5/B14
	31	51	*1.9*	90		**WP063/050**	B14
	28	49	*0.9*	100	**W050**		B5/B14
	23	62	*1.4*	120		**WP063/050**	B14
	19	74	*1.1*	150		**WP063/050**	B14
	16	83	*0.9*	180		**WP063/050**	B14
	35	44	*2.0*	80	**W063**		B5
	31	53	*3.5*	90		**WP063/063**	B14
	28	51	*1.6*	100	**W063**		B5

Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.25					**HTT**	**HTT**	
63B2 (2800 min^{-1})	**23**	65	*2.5*	120		**WP063/063**	B14
	19	76	*2.0*	150		**WP063/063**	B14
	16	87	*1.6*	180		**WP063/063**	B14
	12	104	*1.2*	240		**WP063/063**	B14
	9.3	118	*1.0*	300		**WP063/063**	B14
71A4 (1400 min^{-1})	**280**	8	*5.5*	5	**W040**		B5/B14
	187	11	*4.0*	7.5	**W040**		B5/B14
	140	14	*3.1*	10	**W040**		B5/B14
	93	21	*2.2*	15	**W040**		B5/B14
	70	27	*1.5*	20	**W040**		B5/B14
	56	32	*1.2*	25	**W040**		B5/B14
	47	36	*1.3*	30	**W040**		B5/B14
	35	44	*0.9*	40	**W040**		B5/B14
	70	27	*2.7*	20	**W050**		B5/B14
	56	32	*2.2*	25	**W050**		B5/B14
	47	37	*2.4*	30	**W050**		B5/B14
	35	46	*1.7*	40	**W050**		B5/B14
	28	54	*1.3*	50	**W050**		B5/B14
	23	61	*1.1*	60	**W050**		B5/B14
	23	71	*1.4*	60		**WP071/050**	B14
	19	84	*1.1*	75		**WP071/050**	B14
	18	74	*0.8*	80	**W050**		B5/B14
	16	98	*1.3*	90		**WP071/050**	B14
	28	56	*2.4*	50	**W063**		B5/B14
	23	64	*2.0*	60	**W063**		B5/B14
	23	73	*2.6*	60		**WP071/063**	B14
	19	88	*2.0*	75		**WP071/063**	B14
	18	78	*1.5*	80	**W063**		B5/B14
	16	96	*2.4*	90		**WP071/063**	B14
	14	89	*1.3*	100	**W063**		B5/B14
	12	120	*1.7*	120		**WP071/063**	B14
	9.3	143	*1.3*	150		**WP071/063**	B14
	7.8	159	*1.1*	180		**WP071/063**	B14
	18	82	*2.3*	80	**W075**		B5
	16	105	*3.6*	90		**WP071/075**	B14
	14	96	*1.8*	100	**W075**		B5
	12	130	*2.6*	120		**WP071/075**	B14
	9.3	153	*2.0*	150		**WP071/075**	B14
	7.8	171	*1.7*	180		**WP071/075**	B14
	5.8	201	*1.2*	240		**WP071/075**	B14
	4.7	226	*1.0*	300		**WP071/075**	B14
	7.8	177	*2.6*	180		**WP071/090**	B14
	5.8	213	*2.0*	240		**WP071/090**	B14
	4.7	241	*1.5*	300		**WP071/090**	B14
71B6 (900 min^{-1})	**180**	11	*4.1*	5	**W040**		B5/B14
	120	17	*3.1*	7.5	**W040**		B5/B14
	90	22	*2.4*	10	**W040**		B5/B14
	60	31	*1.8*	15	**W040**		B5/B14
	45	39	*1.1*	20	**W040**		B5/B14
	36	46	*0.9*	25	**W040**		B5/B14
	30	53	*1.1*	30	**W040**		B5/B14
	23	64	*0.8*	40	**W040**		B5/B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.25					**HTT**	**HTT**	
71B6 (900 min^{-1})	**45**	40	*2.0*	20	**W050**		B5/B14
	36	48	*1.6*	25	**W050**		B5/B14
	30	54	*1.8*	30	**W050**		B5/B14
	23	66	*1.3*	40	**W050**		B5/B14
	18	78	*1.0*	50	**W050**		B5/B14
	15	88	*0.9*	60	**W050**		B5/B14
	15	106	*1.2*	60		**WP071/050**	B14
	12	125	*0.9*	75		**WP071/050**	B14
	10	136	*1.1*	90		**WP071/050**	B14
	23	69	*2.3*	40	**W063**		B5/B14
	18	81	*1.9*	50	**W063**		B5/B14
	15	92	*1.5*	60	**W063**		B5/B14
	15	105	*2.2*	60		**WP071/063**	B14
	12	123	*1.7*	75		**WP071/063**	B14
	11	110	*1.2*	80	**W063**		B5/B14
	10	140	*2.0*	90		**WP071/063**	B14
	9	125	*1.0*	100	**W063**		B5/B14
	7.5	168	*1.4*	120		**WP071/063**	B14
	6.0	195	*1.1*	150		**WP071/063**	B14
	5.0	215	*0.9*	180		**WP071/063**	B14
	11	117	*1.8*	80	**W075**		B5
	10	147	*3.1*	90		**WP071/075**	B14
	9	133	*1.5*	100	**W075**		B5
	7.5	178	*2.2*	120		**WP071/075**	B14
	6.0	207	*1.6*	150		**WP071/075**	B14
	5.0	229	*1.4*	180		**WP071/075**	B14
	3.8	268	*1.0*	240		**WP071/075**	B14
	3.0	296	*0.8*	300		**WP071/075**	B14
	6.0	222	*2.6*	150		**WP071/090**	B14
	5.0	248	*2.1*	180		**WP071/090**	B14
	3.8	293	*1.5*	240		**WP071/090**	B14
	3.0	328	*1.2*	300		**WP071/090**	B14
0.37					**HTT**	**HTT**	
71A2 (2800 min^{-1})	**560**	6	*5.1*	5	**W040**		B5/B14
	373	8	*3.7*	7.5	**W040**		B5/B14
	280	11	*3.0*	10	**W040**		B5/B14
	187	16	*2.2*	15	**W040**		B5/B14
	140	21	*1.5*	20	**W040**		B5/B14
	112	25	*1.1*	25	**W040**		B5/B14
	93	29	*1.3*	30	**W040**		B5/B14
	70	37	*0.9*	40	**W040**		B5/B14
	112	26	*2.0*	25	**W050**		B5/B14
	93	30	*2.3*	30	**W050**		B5/B14
	70	37	*1.6*	40	**W050**		B5/B14
	56	45	*1.3*	50	**W050**		B5/B14
	47	51	*1.0*	60	**W050**		B5/B14
	47	56	*1.4*	60		**WP071/050**	B14
	37	67	*1.1*	75		**WP071/050**	B14
	31	76	*1.3*	90		**WP071/050**	B14
	56	46	*2.2*	50	**W063**		B5/B14
	47	53	*1.8*	60	**W063**		B5/B14
	47	58	*2.7*	60		**WP071/063**	B14
	37	70	*2.0*	75		**WP071/063**	B14
	35	66	*1.3*	80	**W063**		B5/B14



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.37					**HTT**	**HTT**	
71A2	**31**	78	*2.4*	90		**WP071/063**	B14
(2800 min^{-1})	**28**	76	*1.1*	100	**W063**		B5/B14
	23	96	*1.7*	120		**WP071/063**	B14
	19	113	*1.3*	150		**WP071/063**	B14
	16	129	*1.1*	180		**WP071/063**	B14
	35	69	*2.0*	80	**W075**		B5
	28	80	*1.6*	100	**W075**		B5
	23	101	*2.6*	120		**WP071/075**	B14
	19	119	*2.0*	150		**WP071/075**	B14
	16	136	*1.7*	180		**WP071/075**	B14
	12	163	*1.3*	240		**WP071/075**	B14
	9.3	186	*1.0*	300		**WP071/075**	B14
	16	145	*2.6*	180		**WP071/090**	B14
	12	178	*2.0*	240		**WP071/090**	B14
	9.3	204	*1.6*	300		**WP071/090**	B14
71B4	**280**	11	*3.7*	5	**W040**		B5/B14
(1400 min^{-1})	**187**	16	*2.7*	7.5	**W040**		B5/B14
	140	21	*2.1*	10	**W040**		B5/B14
	93	31	*1.5*	15	**W040**		B5/B14
	70	39	*1.0*	20	**W040**		B5/B14
	56	47	*0.8*	25	**W040**		B5/B14
	47	53	*0.9*	30	**W040**		B5/B14
	93	31	*2.6*	15	**W050**		B5/B14
	70	40	*1.8*	20	**W050**		B5/B14
	56	48	*1.5*	25	**W050**		B5/B14
	47	55	*1.6*	30	**W050**		B5/B14
	35	68	*1.1*	40	**W050**		B5/B14
	28	80	*0.9*	50	**W050**		B5/B14
	23	91	*0.8*	60	**W050**		B5/B14
	23	105	*1.0*	60		**WP071/050**	B14
	19	124	*0.7*	75		**WP071/050**	B14
	16	145	*0.9*	90		**WP071/050**	B14
	35	71	*2.0*	40	**W063**		B5/B14
	28	83	*1.6*	50	**W063**		B5/B14
	23	95	*1.3*	60	**W063**		B5/B14
	23	108	*1.7*	60		**WP071/063**	B14
	19	130	*1.3*	75		**WP071/063**	B14
	18	115	*1.0*	80	**W063**		B5/B14
	16	142	*1.6*	90		**WP071/063**	B14
	14	131	*0.9*	100	**W063**		B5/B14
	12	178	*1.2*	120		**WP071/063**	B14
	9.3	211	*0.9*	150		**WP071/063**	B14
	7.8	236	*0.8*	180		**WP071/063**	B14
	28	87	*2.4*	50	**W075**		B5
	23	100	*2.1*	60	**W075**		B5
	23	111	*2.8*	60		**WP071/075**	B14
	19	134	*2.1*	75		**WP071/075**	B14
	18	121	*1.6*	80	**W075**		B5
	16	156	*2.4*	90		**WP071/075**	B14
	14	141	*1.2*	100	**W075**		B5
	12	193	*1.7*	120		**WP071/075**	B14
	9.3	226	*1.4*	150		**WP071/075**	B14
	7.8	254	*1.2*	180		**WP071/075**	B14
	5.8	297	*0.8*	240		**WP071/075**	B14
	4.7	334	*0.7*	300		**WP071/075**	B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.37					**HTT**	**HTT**	
71B4	**18**	129	*2.3*	80	**W090**		B5
(1400 min^{-1})	**14**	151	*1.8*	100	**W090**		B5
	12	196	*2.9*	120		**WP071/090**	B14
	9.3	226	*2.3*	150		**WP071/090**	B14
	7.8	263	*1.8*	180		**WP071/090**	B14
	5.8	315	*1.3*	240		**WP071/090**	B14
	4.7	356	*1.0*	300		**WP071/090**	B14
80A6	**180**	17	*5.2*	5	**W050**		B5/B14
(900 min^{-1})	**120**	25	*3.7*	7.5	**W050**		B5/B14
	90	33	*2.9*	10	**W050**		B5/B14
	60	47	*2.0*	15	**W050**		B5/B14
	45	59	*1.4*	20	**W050**		B5/B14
	36	71	*1.1*	25	**W050**		B5/B14
	30	80	*1.2*	30	**W050**		B5/B14
	45	61	*2.5*	20	**W063**		B5/B14
	36	74	*1.9*	25	**W063**		B5/B14
	30	82	*2.3*	30	**W063**		B5/B14
	23	102	*1.6*	40	**W063**		B5/B14
	18	120	*1.3*	50	**W063**		B5/B14
	15	137	*1.0*	60	**W063**		B5/B14
	15	155	*1.5*	60		**WP080/063**	B14
	12	182	*1.1*	75		**WP080/063**	B14
	10	208	*1.3*	90		**WP080/063**	B14
	18	126	*1.9*	50	**W075**		B5/B14
	15	144	*1.6*	60	**W075**		B5/B14
	15	159	*2.5*	60		**WP080/075**	B14
	12	190	*1.8*	75		**WP080/075**	B14
	11	173	*1.2*	80	**W075**		B5/B14
	10	218	*2.1*	90		**WP080/075**	B14
	9	196	*1.0*	100	**W075**		B5/B14
	7.5	263	*1.5*	120		**WP080/075**	B14
	11	188	*1.9*	80	**W090**		B5/B14
	10	229	*3.5*	90		**WP080/090**	B14
	9	216	*1.5*	100	**W090**		B5/B14
	7.5	235	*2.9*	120		**WP080/090**	B14
	6.0	329	*1.7*	150		**WP080/090**	B14
	5.0	367	*1.4*	180		**WP080/090**	B14
	6.0	352	*3.0*	150		**WP080/110**	B14
	5.0	395	*2.3*	180		**WP080/110**	B14
	3.8	471	*1.7*	240		**WP080/110**	B14
	3.0	531	*1.3*	300		**WP080/110**	B14
	3.8	471	*2.4*	240		**WP080/130**	B14
	3.0	554	*1.8*	300		**WP080/130**	B14
0.55					**HTT**	**HTT**	
71B2	**560**	8	*3.4*	5	**W040**		B5/B14
(2800 min^{-1})	**373**	13	*2.5*	7.5	**W040**		B5/B14
	280	16	*2.0*	10	**W040**		B5/B14
	187	24	*1.5*	15	**W040**		B5/B14
	140	31	*1.0*	20	**W040**		B5/B14

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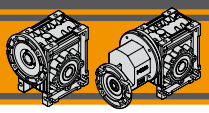
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.55					**HTT**	**HTT**	
71B2	**140**	32	*1.7*	20	**W050**		B5/B14
(2800 min^{-1})	**112**	38	*1.3*	25	**W050**		B5/B14
	93	44	*1.5*	30	**W050**		B5/B14
	70	56	*1.1*	40	**W050**		B5/B14
	56	67	*0.9*	50	**W050**		B5/B14
	47	83	*1.0*	60		**WP071/050**	B14
	37	99	*0.8*	75		**WP071/050**	B14
	31	113	*0.9*	90		**WP071/050**	B14
	70	57	*2.0*	40	**W063**		B5/B14
	56	68	*1.5*	50	**W063**		B5/B14
	47	79	*1.2*	60	**W063**		B5/B14
	47	86	*1.8*	60		**WP071/063**	B14
	37	103	*1.3*	75		**WP071/063**	B14
	35	98	*0.9*	80	**W063**		B5/B14
	31	116	*1.6*	90		**WP071/063**	B14
	23	143	*1.1*	120		**WP071/063**	B14
	19	168	*0.9*	150		**WP071/063**	B14
	47	79	*1.8*	60	**W075**		B5
	47	88	*2.9*	60		**WP071/075**	B14
	37	106	*2.2*	75		**WP071/075**	B14
	35	96	*1.3*	80	**W075**		B5
	31	121	*2.5*	90		**WP071/075**	B14
	28	113	*1.0*	100	**W075**		B5
	23	150	*1.8*	120		**WP071/075**	B14
	19	176	*1.4*	150		**WP071/075**	B14
	16	202	*1.2*	180		**WP071/075**	B14
	12	243	*0.9*	240		**WP071/075**	B14
	35	107	*2.2*	80	**W090**		B5
	28	126	*1.7*	100	**W090**		B5
	23	159	*2.9*	120		**WP071/090**	B14
	19	188	*2.2*	150		**WP071/090**	B14
	16	215	*1.8*	180		**WP071/090**	B14
	12	265	*1.3*	240		**WP071/090**	B14
	9.3	303	*1.0*	300		**WP071/090**	B14
71C4	**280**	17	*2.5*	5	**W040**		B5/B14
(1400 min^{-1})	**187**	24	*1.8*	7.5	**W040**		B5/B14
	140	32	*1.4*	10	**W040**		B5/B14
	93	46	*1.0*	15	**W040**		B5/B14
	140	32	*2.6*	10	**W050**		B5/B14
	93	46	*1.8*	15	**W050**		B5/B14
	70	59	*1.2*	20	**W050**		B5/B14
	56	71	*1.0*	25	**W050**		B5/B14
	47	81	*1.1*	30	**W050**		B5/B14
	35	101	*0.8*	40	**W050**		B5/B14
	70	61	*2.2*	20	**W063**		B5/B14
	56	73	*1.8*	25	**W063**		B5/B14
	47	84	*2.0*	30	**W063**		B5/B14
	35	105	*1.4*	40	**W063**		B5/B14
	28	124	*1.1*	50	**W063**		B5/B14
	23	142	*0.9*	60	**W063**		B5/B14
	23	161	*1.2*	60		**WP071/063**	B14
	19	193	*0.9*	75		**WP071/063**	B14
	16	212	*1.1*	90		**WP071/063**	B14
	12	265	*0.8*	120		**WP071/063**	B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.55					**HTT**	**HTT**	
71C4	**35**	110	*2.1*	40	**W075**		B5
(1400 min^{-1})	**28**	129	*1.6*	50	**W075**		B5
	23	149	*1.4*	60	**W075**		B5
	23	165	*1.9*	60		**WP071/075**	B14
	19	199	*1.4*	75		**WP071/075**	B14
	18	180	*1.1*	80	**W075**		B5
	16	232	*1.6*	90		**WP071/075**	B14
	14	210	*0.8*	100	**W075**		B5
	12	287	*1.2*	120		**WP071/075**	B14
	9.3	336	*0.9*	150		**WP071/075**	B14
	7.8	377	*0.8*	180		**WP071/075**	B14
	18	192	*1.6*	80	**W090**		B5
	16	232	*2.7*	90		**WP071/090**	B14
	14	225	*1.2*	100	**W090**		B5
	12	291	*2.0*	120		**WP071/090**	B14
	9.3	336	*1.5*	150		**WP071/090**	B14
	7.8	390	*1.2*	180		**WP071/090**	B14
	5.8	468	*0.9*	240		**WP071/090**	B14
80A4	**280**	17	*4.5*	5	**W050**		B5/B14
(1400 min^{-1})	**187**	24	*3.2*	7.5	**W050**		B5/B14
	140	32	*2.6*	10	**W050**		B5/B14
	93	46	*1.8*	15	**W050**		B5/B14
	70	59	*1.2*	20	**W050**		B5/B14
	56	71	*1.0*	25	**W050**		B5/B14
	47	81	*1.1*	30	**W050**		B5/B14
	70	61	*2.2*	20	**W063**		B5/B14
	56	73	*1.8*	25	**W063**		B5/B14
	47	84	*2.0*	30	**W063**		B5/B14
	35	105	*1.4*	40	**W063**		B5/B14
	28	124	*1.1*	50	**W063**		B5/B14
	23	142	*0.9*	60	**W063**		B5/B14
	23	161	*1.2*	60		**WP080/063**	B14
	19	193	*0.9*	75		**WP080/063**	B14
	16	212	*1.1*	90		**WP080/063**	B14
	35	110	*2.1*	40	**W075**		B5/B14
	28	129	*1.6*	50	**W075**		B5/B14
	23	149	*1.4*	60	**W075**		B5/B14
	23	165	*1.9*	60		**WP080/075**	B14
	19	199	*1.4*	75		**WP080/075**	B14
	18	180	*1.1*	80	**W075**		B5/B14
	16	232	*1.6*	90		**WP080/075**	B14
	14	210	*0.8*	100	**W075**		B5/B14
	12	287	*1.2*	120		**WP080/075**	B14
	18	192	*1.6*	80	**W090**		B5/B14
	16	232	*2.7*	90		**WP080/090**	B14
	14	225	*1.2*	100	**W090**		B5/B14
	12	291	*2.0*	120		**WP080/090**	B14
	9.3	336	*1.5*	150		**WP080/090**	B14
	7.8	390	*1.2*	180		**WP080/090**	B14



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.55					**HTT**	**HTT**	
80A4	**18**	204	*2.6*	80	**W110**		B5
(1400 min^{-1})	**14**	240	*2.0*	100	**W110**		B5
	9.3	358	*2.5*	150		**WP080/110**	B14
	7.8	410	*2.0*	180		**WP080/110**	B14
	5.8	503	*1.4*	240		**WP080/110**	B14
	4.7	574	*1.1*	300		**WP080/110**	B14
	7.8	424	*2.6*	180		**WP080/130**	B14
	5.8	512	*1.9*	240		**WP080/130**	B14
	4.7	585	*1.5*	300		**WP080/130**	B14
80B6	**180**	26	*3.4*	5	**W050**		B5/B14
(900 min^{-1})	**120**	37	*2.5*	7.5	**W050**		B5/B14
	90	49	*1.9*	10	**W050**		B5/B14
	60	69	*1.4*	15	**W050**		B5/B14
	45	88	*0.9*	20	**W050**		B5/B14
	60	71	*2.5*	15	**W063**		B5/B14
	45	91	*1.7*	20	**W063**		B5/B14
	36	109	*1.3*	25	**W063**		B5/B14
	30	123	*1.5*	30	**W063**		B5/B14
	23	152	*1.1*	40	**W063**		B5/B14
	18	178	*0.8*	50	**W063**		
	15	230	*1.0*	60		**WP080/063**	B14
	12	270	*0.8*	75		**WP080/063**	B14
	10	309	*0.9*	90		**WP080/063**	B14
	36	112	*2.0*	25	**W075**		B5/B14
	30	128	*2.4*	30	**W075**		B5/B14
	23	159	*1.7*	40	**W075**		B5/B14
	18	187	*1.3*	50	**W075**		B5/B14
	15	214	*1.1*	60	**W075**		B5/B14
	15	237	*1.7*	60		**WP080/075**	B14
	12	283	*1.2*	75		**WP080/075**	B14
	11	257	*0.8*	80	**W075**		B5/B14
	10	324	*1.4*	90		**WP080/075**	B14
	7.5	391	*1.0*	120		**WP080/075**	B14
	15	228	*1.7*	60	**W090**		B5/B14
	15	247	*2.7*	60		**WP080/090**	B14
	12	296	*2.0*	75		**WP080/090**	B14
	11	280	*1.2*	80	**W090**		B5/B14
	10	340	*2.3*	90		**WP080/090**	B14
	9	321	*1.0*	100	**W090**		B5/B14
	7.5	350	*1.9*	120		**WP080/090**	B14
	6.0	489	*1.2*	150		**WP080/090**	B14
	5.0	546	*0.9*	180		**WP080/090**	B14
	11	294	*2.1*	80	**W110**		B5
	9	344	*1.6*	100	**W110**		B5
	7.5	446	*2.7*	120		**WP080/110**	B14
	6.0	523	*2.0*	150		**WP080/110**	B14
	5.0	587	*1.6*	180		**WP080/110**	B14
	3.8	700	*1.1*	240		**WP080/110**	B14
	3.0	789	*0.9*	300		**WP080/110**	B14
	5.0	587	*2.2*	180		**WP080/130**	B14
	3.8	700	*1.6*	240		**WP080/130**	B14
	3.0	824	*1.2*	300		**WP080/130**	B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.75					**HTT**	**HTT**	
80A2	**560**	12	*4.6*	5	**W050**		B5/B14
(2800 min^{-1})	**373**	17	*3.3*	7.5	**W050**		B5/B14
	280	23	*2.7*	10	**W050**		B5/B14
	187	33	*1.9*	15	**W050**		B5/B14
	140	43	*1.3*	20	**W050**		B5/B14
	112	52	*1.0*	25	**W050**		B5/B14
	93	60	*1.1*	30	**W050**		B5/B14
	140	43	*2.4*	20	**W063**		B5/B14
	112	53	*1.8*	25	**W063**		B5/B14
	93	61	*2.1*	30	**W063**		B5/B14
	70	78	*1.4*	40	**W063**		B5/B14
	56	93	*1.1*	50	**W063**		B5/B14
	47	107	*0.9*	60	**W063**		B5/B14
	47	117	*1.3*	60		**WP080/063**	B14
	37	141	*1.0*	75		**WP080/063**	B14
	31	158	*1.2*	90		**WP080/063**	B14
	70	80	*2.3*	40	**W075**		B5/B14
	56	96	*1.7*	50	**W075**		B5/B14
	47	111	*1.4*	60	**W075**		B5/B14
	47	120	*2.1*	60		**WP080/075**	B14
	37	145	*1.6*	75		**WP080/075**	B14
	35	139	*1.0*	80	**W075**		B5/B14
	31	165	*1.9*	90		**WP080/075**	B14
	28	161	*0.8*	100	**W075**		B5/B14
	23	205	*1.3*	120		**WP080/075**	B14
	35	145	*1.6*	80	**W090**		B5/B14
	31	171	*3.1*	90		**WP080/090**	B14
	28	171	*1.2*	100	**W090**		B5/B14
	23	217	*2.1*	120		**WP080/090**	B5/B14
	19	256	*1.6*	150		**WP080/090**	B14
	16	293	*1.3*	180		**WP080/090**	B14
	28	179	*2.0*	100	**W110**		B5
	19	267	*2.8*	150		**WP080/110**	B14
	16	307	*2.2*	180		**WP080/110**	B14
	12	379	*1.6*	240		**WP080/110**	B14
	9.3	444	*1.2*	300		**WP080/110**	B14
	16	316	*2.9*	180		**WP080/130**	B14
	12	385	*2.2*	240		**WP080/130**	B14
	9.3	444	*1.7*	300		**WP080/130**	B14
80B4	**280**	23	*3.3*	5	**W050**		B5/B14
(1400 min^{-1})	**187**	33	*2.4*	7.5	**W050**		B5/B14
	140	43	*1.9*	10	**W050**		B5/B14
	93	63	*1.3*	15	**W050**		B5/B14
	70	81	*0.9*	20	**W050**		B5/B14
	56	97	*0.7*	25	**W050**		B5/B14
	47	111	*0.8*	30	**W050**		B5/B14

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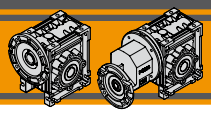
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.75					**HTT**	**HTT**	
80B4 (1400 min^{-1})	**93**	64	*2.4*	15	**W063**		B5/B14
	70	83	*1.6*	20	**W063**		B5/B14
	56	100	*1.4*	25	**W063**		B5/B14
	47	115	*1.4*	30	**W063**		B5/B14
	35	143	*1.0*	40	**W063**		B5/B14
	28	169	*0.8*	50	**W063**		B5/B14
	23	220	*0.9*	60		**WP080/063**	B14
	19	263	*0.7*	75		**WP080/063**	B14
	16	289	*0.8*	90		**WP080/063**	B14
	70	85	*2.6*	20	**W075**		B5/B14
	56	102	*2.0*	25	**W075**		B5/B14
	47	118	*2.3*	30	**W075**		B5/B14
	35	149	*1.6*	40	**W075**		B5/B14
	28	177	*1.2*	50	**W075**		B5/B14
	23	203	*1.0*	60	**W075**		B5/B14
	23	226	*1.4*	60		**WP080/075**	B14
	19	271	*1.0*	75		**WP080/075**	B14
	18	246	*0.8*	80	**W075**		B5/B14
	16	316	*1.2*	90		**WP080/075**	B14
	12	391	*0.9*	120		**WP080/075**	B14
	35	156	*2.6*	40	**W090**		B5/B14
	28	184	*1.9*	50	**W090**		B5/B14
	23	212	*1.5*	60	**W090**		B5/B14
	23	235	*2.2*	60		**WP080/090**	B14
	19	282	*1.6*	75		**WP080/090**	B14
	18	262	*1.2*	80	**W090**		B5/B14
	16	316	*2.0*	90		**WP080/090**	B14
	14	307	*0.9*	100	**W090**		B5/B14
	12	397	*1.5*	120		**WP080/090**	B14
	9.3	459	*1.1*	150		**WP080/090**	B14
	7.8	532	*0.9*	180		**WP080/090**	B14
	23	224	*2.6*	60	**W110**		B5
	19	290	*2.9*	75		**WP080/110**	B14
	18	278	*1.9*	80	**W110**		B5
	16	325	*3.2*	90		**WP080/110**	B14
	14	327	*1.5*	100	**W110**		B5
	12	415	*2.4*	120		**WP080/110**	B14
	9.3	489	*1.9*	150		**WP080/110**	B14
	7.8	560	*1.5*	180		**WP080/110**	B14
	5.8	686	*1.1*	240		**WP080/110**	B14
	4.7	782	*0.8*	300		**WP080/110**	B14
	14	327	*2.2*	100	**W130**		B5
	9.3	504	*2.4*	150		**WP080/130**	B14
	7.8	578	*1.9*	180		**WP080/130**	B14
	5.8	698	*1.4*	240		**WP080/130**	B14
	4.7	797	*1.1*	300		**WP080/130**	B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.75					**HTT**	**HTT**	
90S6 (900 min^{-1})	**180**	35	*4.6*	5	**W063**		B5/B14
	120	51	*3.3*	7.5	**W063**		B5/B14
	90	67	*2.6*	10	**W063**		B5/B14
	60	97	*1.8*	15	**W063**		B5/B14
	45	124	*1.2*	20	**W063**		B5/B14
	36	149	*0.9*	25	**W063**		B5/B14
	30	167	*1.1*	30	**W063**		B5/B14
	45	127	*2.0*	20	**W075**		B5/B14
	36	153	*1.5*	25	**W075**		B5/B14
	30	174	*1.8*	30	**W075**		B5/B14
	23	216	*1.2*	40	**W075**		B5/B14
	15	323	*1.3*	60		**WP090/075**	B5/B14
	12	386	*1.0*	75		**WP090/075**	B5/B14
	10	442	*1.2*	90		**WP090/075**	B5/B14
	8	533	*0.8*	120		**WP090/075**	B5/B14
	23	229	*2.0*	40	**W090**		B5/B14
	18	271	*1.5*	50	**W090**		B5/B14
	15	310	*1.2*	60	**W090**		B5/B14
	15	337	*2.2*	60		**WP090/090**	B5/B14
	12	404	*1.6*	75		**WP090/090**	B5/B14
	10	463	*1.9*	90		**WP090/090**	B5/B14
	8	571	*1.3*	120		**WP090/090**	B5/B14
	6	667	*1.0*	150		**WP090/090**	B5/B14
	5	744	*0.8*	180		**WP090/090**	B5/B14
	18	283	*2.7*	50	**W110**		B5/B14
	15	325	*2.1*	60	**W110**		B5/B14
	15	351	*3.7*	60		**WP090/110**	B5/B14
	12	421	*2.9*	75		**WP090/110**	B5/B14
	11	401	*1.5*	80	**W110**		B5/B14
	10	470	*3.1*	90		**WP090/110**	B5/B14
	9	470	*1.2*	100	**W110**		B5/B14
	8	608	*2.2*	120		**WP090/110**	B5/B14
	6	714	*1.6*	150		**WP090/110**	B5/B14
	5	800	*1.3*	180		**WP090/110**	B5/B14
	4	955	*0.9*	240		**WP090/110**	B5/B14
	3	1076	*0.7*	300		**WP090/110**	B5/B14
	6	714	*2.1*	150		**WP090/130**	B5/B14
	5	800	*1.7*	180		**WP090/130**	B5/B14
	4	955	*1.3*	240		**WP090/130**	B5/B14
	3	1123	*1.0*	300		**WP090/130**	B5/B14
1.1					**HTT**	**HTT**	
80B2 (2800 min^{-1})	**560**	17	*3.2*	5	**W050**		B5/B14
	373	25	*2.3*	7.5	**W050**		B5/B14
	280	33	*1.8*	10	**W050**		B5/B14
	187	48	*1.3*	15	**W050**		B5/B14
	140	63	*0.9*	20	**W050**		B5/B14
	187	48	*2.4*	15	**W063**		B5/B14
	140	63	*1.6*	20	**W063**		B5/B14
	112	78	*1.2*	25	**W063**		B5/B14
	93	89	*1.4*	30	**W063**		B5/B14
	70	114	*1.0*	40	**W063**		B5/B14
	47	172	*0.9*	60		**WP080/063**	B14
	37	207	*0.7*	75		**WP080/063**	B14
	31	232	*0.8*	90		**WP080/063**	B14



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
1.1					**HTT**	**HTT**	
80B2	**93**	91	*2.3*	30	**W075**		B5/B14
(2800 min^{-1})	**70**	117	*1.6*	40	**W075**		B5/B14
	56	141	*1.2*	50	**W075**		B5/B14
	47	162	*1.0*	60	**W075**		B5/B14
	47	176	*1.4*	60		**WP080/075**	B14
	37	212	*1.1*	75		**WP080/075**	B14
	31	242	*1.3*	90		**WP080/075**	B14
	23	300	*0.9*	120		**WP080/075**	B14
	56	146	*1.9*	50	**W090**		B5/B14
	47	169	*1.5*	60	**W090**		B5/B14
	47	181	*2.4*	60		**WP080/090**	B14
	37	221	*1.8*	75		**WP080/090**	B14
	35	213	*1.1*	80	**W090**		B5/B14
	31	251	*2.1*	90		**WP080/090**	B14
	28	251	*0.9*	100	**W090**		B5/B14
	23	318	*1.4*	120		**WP080/090**	B14
	19	375	*1.1*	150		**WP080/090**	B14
	16	430	*0.9*	180		**WP080/090**	B14
	35	219	*1.8*	80	**W110**		B5
	28	263	*1.4*	100	**W110**		B5
	23	331	*2.5*	120		**WP080/110**	B14
	19	392	*1.9*	150		**WP080/110**	B14
	16	450	*1.5*	180		**WP080/110**	B14
	12	556	*1.1*	240		**WP080/110**	B14
	9.3	651	*0.9*	300		**WP080/110**	B14
	19	403	*2.5*	150		**WP080/130**	B14
	16	463	*2.0*	180		**WP080/130**	B14
	12	565	*1.5*	240		**WP080/130**	B14
	9.3	651	*1.2*	300		**WP080/130**	B14
80C4	**280**	33	*2.2*	5	**W050**		B5/B14
(1400 min^{-1})	**187**	49	*1.6*	7.5	**W050**		B5/B14
	140	64	*1.3*	10	**W050**		B5/B14
	93	92	*0.9*	15	**W050**		B5/B14
	280	34	*4.0*	5	**W063**		B5/B14
	187	50	*2.9*	7.5	**W063**		B5/B14
	140	65	*2.3*	10	**W063**		B5/B14
	93	95	*1.6*	15	**W063**		B5/B14
	70	122	*1.1*	20	**W063**		B5/B14
	56	146	*0.9*	25	**W063**		B5/B14
	47	169	*1.0*	30	**W063**		B5/B14
	70	125	*1.8*	20	**W075**		B5/B14
	56	150	*1.3*	25	**W075**		B5/B14
	47	173	*1.6*	30	**W075**		B5/B14
	35	219	*1.1*	40	**W075**		B5/B14
	28	259	*0.8*	50	**W075**		B5/B14
	23	331	*0.9*	60		**WP080/075**	B14
	19	397	*0.7*	75		**WP080/075**	B14
	16	463	*0.8*	90		**WP080/075**	B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
1.1					**HTT**	**HTT**	
80C4	**35**	228	*1.8*	40	**W090**		B5/B14
(1400 min^{-1})	**28**	270	*1.3*	50	**W090**		B5/B14
	23	311	*1.1*	60	**W090**		B5/B14
	23	344	*1.5*	60		**WP080/090**	B14
	19	414	*1.1*	75		**WP080/090**	B14
	18	384	*0.8*	80	**W090**		B5/B14
	16	463	*1.4*	90		**WP080/090**	B14
	12	582	*1.0*	120		**WP080/090**	B14
	9.3	673	*0.8*	150		**WP080/090**	B14
	28	285	*2.3*	50	**W110**		B5
	23	329	*1.8*	60	**W110**		B5
	23	353	*2.5*	60		**WP080/110**	B14
	19	425	*2.0*	75		**WP080/110**	B14
	18	408	*1.3*	80	**W110**		B5
	16	477	*2.2*	90		**WP080/110**	B14
	14	480	*1.0*	100	**W110**		B5
	12	609	*1.6*	120		**WP080/110**	B14
	9.3	717	*1.3*	150		**WP080/110**	B14
	7.8	821	*1.0*	180		**WP080/110**	B14
	18	414	*2.0*	80	**W130**		B5
	16	477	*3.1*	90		**WP080/130**	B14
	14	480	*1.5*	100	**W130**		B5
	12	600	*2.3*	120		**WP080/130**	B14
	9.3	739	*1.7*	150		**WP080/130**	B14
	7.8	847	*1.3*	180		**WP080/130**	B14
	5.8	1024	*0.9*	240		**WP080/130**	B14
90S4	**280**	34	*4.0*	5	**W063**		B5/B14
(1400 min^{-1})	**187**	50	*2.9*	7.5	**W063**		B5/B14
	140	65	*2.3*	10	**W063**		B5/B14
	93	95	*1.6*	15	**W063**		B5/B14
	70	122	*1.1*	20	**W063**		B5/B14
	56	146	*0.9*	25	**W063**		B5/B14
	47	169	*1.0*	30	**W063**		B5/B14
	93	95	*2.6*	15	**W075**		B5/B14
	70	125	*1.8*	20	**W075**		B5/B14
	56	150	*1.3*	25	**W075**		B5/B14
	47	173	*1.6*	30	**W075**		B5/B14
	35	219	*1.1*	40	**W075**		B5/B14
	23	331	*0.9*	60		**WP090/075**	B5/B14
	19	397	*0.7*	75		**WP090/075**	B5/B14
	16	463	*0.8*	90		**WP090/075**	B5/B14
	56	156	*2.2*	25	**W090**		B5/B14
	47	178	*2.6*	30	**W090**		B5/B14
	35	228	*1.8*	40	**W090**		B5/B14
	28	270	*1.3*	50	**W090**		B5/B14
	23	311	*1.1*	60	**W090**		B5/B14
	23	344	*1.5*	60		**WP090/090**	B5/B14
	19	414	*1.1*	75		**WP090/090**	B5/B14
	18	384	*0.8*	80	**W090**		B5/B14
	16	463	*1.4*	90		**WP090/090**	B5/B14
	12	582	*1.0*	120		**WP090/090**	B5/B14
	9	673	*0.8*	150		**WP090/090**	B5/B14

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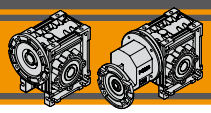
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
1.1					**HTT**	**HTT**	
90S4 (1400 min^{-1})	**35**	237	*3.0*	40	**W110**		B5/B14
	28	285	*2.3*	50	**W110**		B5/B14
	23	329	*1.8*	60	**W110**		B5/B14
	23	353	*2.5*	60		**WP090/110**	B5/B14
	19	425	*2.0*	75		**WP090/110**	B5/B14
	18	408	*1.3*	80	**W110**		B5/B14
	16	477	*2.2*	90		**WP090/110**	B5/B14
	14	480	*1.0*	100	**W110**		B5/B14
	12	609	*1.6*	120		**WP090/110**	B5/B14
	9	717	*1.3*	150		**WP090/110**	B5/B14
	8	821	*1.0*	180		**WP090/110**	B5/B14
	6	1006	*0.7*	240		**WP090/110**	B5/B14
	18	414	*2.0*	80	**W130**		B5
	14	480	*1.5*	100	**W130**		B5
	12	600	*2.1*	120		**WP090/130**	B5/B14
	9	739	*1.7*	150		**WP090/130**	B5/B14
	8	847	*1.3*	180		**WP090/130**	B5/B14
	6	1024	*1.0*	240		**WP090/130**	B5/B14
	5	1169	*0.7*	300		**WP090/130**	B5/B14
90L6 (900 min^{-1})	**180**	52	*3.1*	5	**W063**		B5/B14
	120	75	*2.2*	7.5	**W063**		B5/B14
	90	98	*1.8*	10	**W063**		B5/B14
	60	142	*1.3*	15	**W063**		B5/B14
	45	182	*0.8*	20	**W063**		B5/B14
	60	145	*2.0*	15	**W075**		B5/B14
	45	187	*1.4*	20	**W075**		B5/B14
	36	225	*1.0*	25	**W075**		B5/B14
	30	256	*1.2*	30	**W075**		B5/B14
	23	317	*0.8*	40	**W075**		B5/B14
	15	474	*0.9*	60		**WP090/075**	B5/B14
	12	566	*0.7*	75		**WP090/075**	B5/B14
	10	649	*0.8*	90		**WP090/075**	B5/B14
	45	191	2.3	20	**W090**		B5/B14
	36	233	1.7	25	**W090**		B5/B14
	30	266	2.0	30	**W090**		B5/B14
	23	336	*1.4*	40	**W090**		B5/B14
	18	397	*1.0*	50	**W090**		B5/B14
	15	455	*0.8*	60	**W090**		B5/B14
	15	494	*1.5*	60		**WP090/090**	B5/B14
	12	592	*1.1*	75		**WP090/090**	B5/B14
	10	679	*1.3*	90		**WP090/090**	B5/B14
	8	837	*0.9*	120		**WP090/090**	B5/B14
	18	414	*1.8*	50	**W110**		B5/B14
	15	476	*1.4*	60	**W110**		B5/B14
	15	515	*2.5*	60		**WP090/110**	B5/B14
	12	618	*1.9*	75		**WP090/110**	B5/B14
	11	588	*1.0*	80	**W110**		B5/B14
	10	690	*2.1*	90		**WP090/110**	B5/B14
	9	689	*0.8*	100	**W110**		B5/B14
	8	892	*1.5*	120		**WP090/110**	B5/B14
	6	1047	*1.1*	150		**WP090/110**	B5/B14
	5	1174	*0.9*	180		**WP090/110**	B5/B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
1.1					**HTT**	**HTT**	
90L6 (900 min^{-1})	**11**	598	*1.5*	80	**W130**		B5
	9	689	*1.1*	100	**W130**		B5
	8	865	*1.9*	120		**WP090/130**	B5/B14
	6	1047	*1.4*	150		**WP090/130**	B5/B14
	5	1174	*1.2*	180		**WP090/130**	B5/B14
	4	1400	*0.9*	240		**WP090/130**	B5/B14
1.5					**HTT**	**HTT**	
90S2 (2800 min^{-1})	**560**	23	*4.2*	5	**W063**		B5/B14
	373	35	*3.0*	7.5	**W063**		B5/B14
	280	45	*2.4*	10	**W063**		B5/B14
	187	66	*1.7*	15	**W063**		B5/B14
	140	86	*1.2*	20	**W063**		B5/B14
	112	106	*0.9*	25	**W063**		B5/B14
	93	121	*1.0*	30	**W063**		B5/B14
	140	87	*2.0*	20	**W075**		B5/B14
	112	107	*1.4*	25	**W075**		B5/B14
	93	124	*1.7*	30	**W075**		B5/B14
	70	160	*1.1*	40	**W075**		B5/B14
	47	241	*1.1*	60		**WP090/075**	B5/B14
	37	290	*0.8*	75		**WP090/075**	B5/B14
	31	329	*0.9*	90		**WP090/075**	B5/B14
	70	164	*1.9*	40	**W090**		B5/B14
	56	200	*1.4*	50	**W090**		B5/B14
	47	230	*1.1*	60	**W090**		B5/B14
	47	247	*1.8*	60		**WP090/090**	B5/B14
	37	301	*1.3*	75		**WP090/090**	B5/B14
	31	343	*1.5*	90		**WP090/090**	B5/B14
	23	433	*1.1*	120		**WP090/090**	B5/B14
	19	511	*0.8*	150		**WP090/090**	B5/B14
	56	202	*2.5*	50	**W110**		B5/B14
	47	236	*1.9*	60	**W110**		B5/B14
	37	308	*2.3*	75		**WP090/110**	B5/B14
	35	299	*1.3*	80	**W110**		B5/B14
	31	352	*2.5*	90		**WP090/110**	B5/B14
	28	358	*1.0*	100	**W110**		B5/B14
	23	451	*1.8*	120		**WP090/110**	B5/B14
	19	534	*1.4*	150		**WP090/110**	B5/B14
	16	614	*1.1*	180		**WP090/110**	B5/B14
	12	758	*0.8*	240		**WP090/110**	B5/B14
	35	295	*2.0*	80	**W130**		B5
	28	358	*1.5*	100	**W130**		B5
	23	445	*2.5*	120		**WP090/130**	B5/B14
	19	549	*1.9*	150		**WP090/130**	B5/B14
	16	632	*1.5*	180		**WP090/130**	B5/B14
	12	770	*1.1*	240		**WP090/130**	B5/B14
	9	887	*0.9*	300		**WP090/130**	B5/B14
90L4 (1400 min^{-1})	**280**	46	*2.9*	5	**W063**		B5/B14
	187	68	*2.1*	7.5	**W063**		B5/B14
	140	88	*1.7*	10	**W063**		B5/B14
	93	129	*1.2*	15	**W063**		B5/B14
	70	166	*0.8*	20	**W063**		B5/B14



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
1.5					**HTT**	**HTT**	
90L4	**93**	129	*1.9*	15	**W075**		B5/B14
(1400 min^{-1})	**70**	170	*1.3*	20	**W075**		B5/B14
	56	205	*1.0*	25	**W075**		B5/B14
	47	236	*1.1*	30	**W075**		B5/B14
	35	299	*0.8*	40	**W075**		B5/B14
	70	172	*2.2*	20	**W090**		B5/B14
	56	212	*1.6*	25	**W090**		B5/B14
	47	243	*1.9*	30	**W090**		B5/B14
	35	311	*1.3*	40	**W090**		B5/B14
	28	368	*1.0*	50	**W090**		B5/B14
	23	424	*0.8*	60	**W090**		B5/B14
	23	469	*1.1*	60		**WP090/090**	B5/B14
	19	564	*0.8*	75		**WP090/090**	B5/B14
	16	632	*1.0*	90		**WP090/090**	B5/B14
	12	794	*0.7*	120		**WP090/090**	B5/B14
	35	323	*2.2*	40	**W110**		B5/B14
	28	389	*1.7*	50	**W110**		B5/B14
	23	448	*1.3*	60	**W110**		B5/B14
	23	481	*1.8*	60		**WP090/110**	B5/B14
	19	579	*1.5*	75		**WP090/110**	B5/B14
	18	557	*0.9*	80	**W110**		B5/B14
	16	650	*1.6*	90		**WP090/110**	B5/B14
	12	830	*1.2*	120		**WP090/110**	B5/B14
	9	978	*0.9*	150		**WP090/110**	B5/B14
	8	1119	*0.7*	180		**WP090/110**	B5/B14
	23	448	*2.0*	60	**W130**		B5
	19	579	*2.1*	75		**WP090/130**	B5/B14
	18	565	*1.5*	80	**W130**		B5
	16	650	*2.2*	90		**WP090/130**	B5/B14
	14	655	*1.1*	100	**W130**		B5
	12	818	*1.5*	120		**WP090/130**	B5/B14
	9	1008	*1.2*	150		**WP090/130**	B5/B14
	8	1155	*0.9*	180		**WP090/130**	B5/B14
	6	1396	*0.7*	240		**WP090/130**	B5/B14
100LA6	**120**	104	*2.5*	7.5	**W075**		B5/B14
(900 min^{-1})	**90**	135	*2.0*	10	**W075**		B5/B14
	60	198	*1.5*	15	**W075**		B5/B14
	60	201	*2.4*	15	**W090**		B5/B14
	45	261	*1.7*	20	**W090**		B5/B14
	36	318	*1.2*	25	**W090**		B5/B14
	30	363	*1.5*	30	**W090**		B5/B14
	36	326	*2.1*	25	**W110**		B5/B14
	30	372	*2.3*	30	**W110**		B5/B14
	23	478	*1.7*	40	**W110**		B5/B14
	18	565	*1.3*	50	**W110**		B5/B14
	15	649	*1.1*	60	**W110**		B5/B14
	18	581	*1.8*	50	**W130**		B5
	15	669	*1.5*	60	**W130**		B5
	11	815	*1.1*	80	**W130**		B5
	9	939	*0.8*	100	**W130**		B5

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
2.2					**HTT**	**HTT**	
90L2	**560**	34	*2.8*	5	**W063**		B5/B14
(2800 min^{-1})	**373**	51	*2.0*	7.5	**W063**		B5/B14
	280	66	*1.7*	10	**W063**		B5/B14
	187	97	*1.2*	15	**W063**		B5/B14
	140	126	*0.8*	20	**W063**		B5/B14
	187	98	*1.9*	15	**W075**		B5/B14
	140	128	*1.3*	20	**W075**		B5/B14
	112	158	*1.0*	25	**W075**		B5/B14
	93	182	*1.1*	30	**W075**		B5/B14
	140	129	*2.2*	20	**W090**		B5/B14
	112	159	*1.6*	25	**W090**		B5/B14
	93	187	*1.9*	30	**W090**		B5/B14
	70	240	*1.3*	40	**W090**		B5/B14
	56	293	*1.0*	50	**W090**		B5/B14
	47	362	*1.2*	60		**WP090/090**	B5/B14
	37	441	*0.9*	75		**WP090/090**	B5/B14
	31	503	*1.0*	90		**WP090/090**	B5/B14
	23	635	*0.7*	120		**WP090/090**	B5/B14
	70	243	*2.3*	40	**W110**		B5/B14
	56	296	*1.7*	50	**W110**		B5/B14
	47	347	*1.3*	60	**W110**		B5/B14
	47	366	*2.1*	60		**WP090/110**	B5/B14
	37	452	*1.5*	75		**WP090/110**	B5/B14
	35	438	*0.9*	80	**W110**		B5/B14
	31	516	*1.7*	90		**WP090/110**	B5/B14
	23	662	*1.3*	120		**WP090/110**	B5/B14
	19	783	*1.0*	150		**WP090/110**	B5/B14
	16	900	*0.8*	180		**WP090/110**	B5/B14
	47	347	*1.8*	60	**W130**		B5
	35	432	*1.3*	80	**W130**		B5
	28	525	*1.0*	100	**W130**		B5
	23	653	*1.7*	120		**WP090/130**	B5/B14
	19	805	*1.3*	150		**WP090/130**	B5/B14
	16	927	*1.0*	180		**WP090/130**	B5/B14
	12	1129	*0.8*	240		**WP090/130**	B5/B14
100LA4	**187**	100	*2.2*	7.5	**W075**		B5/B14
(1400 min^{-1})	**140**	131	*1.8*	10	**W075**		B5/B14
	93	189	*1.3*	15	**W075**		B5/B14
	140	132	*2.7*	10	**W090**		B5/B14
	93	194	*2.1*	15	**W090**		B5/B14
	70	252	*1.5*	20	**W090**		B5/B14
	56	311	*1.1*	25	**W090**		B5/B14
	47	356	*1.3*	30	**W090**		B5/B14
	70	255	*2.6*	20	**W110**		B5/B14
	56	315	*2.0*	25	**W110**		B5/B14
	47	360	*2.1*	30	**W110**		B5/B14
	35	474	*1.5*	40	**W110**		B5/B14
	28	570	*1.1*	50	**W110**		B5/B14
	23	657	*0.9*	60	**W110**		B5/B14
	35	456	*2.3*	40	**W130**		B5
	28	563	*1.7*	50	**W130**		B5
	23	657	*1.4*	60	**W130**		B5
	18	828	*1.0*	80	**W130**		B5
	14	960	*0.8*	100	**W130**		B5

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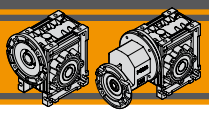
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
2.2					**HTT**		
112M6	**120**	154	*2.5*	7.5	**W090**		B5/B14
(900 min^{-1})	**90**	203	*2.0*	10	**W090**		B5/B14
	60	294	*1.6*	15	**W090**		B5/B14
	45	383	*1.2*	20	**W090**		B5/B14
	36	467	*0.8*	25	**W090**		B5/B14
	30	532	*1.0*	30	**W090**		B5/B14
	45	388	*2,0*	20	**W110**		B5/B14
	36	479	*1.5*	25	**W110**		B5/B14
	30	546	*1.6*	30	**W110**		B5/B14
	23	700	*1.2*	40	**W110**		B5/B14
	18	829	*0.9*	50	**W110**		B5/B14
	23	691	*1.6*	40	**W130**		B5
	18	852	*1.2*	50	**W130**		B5
	15	980	*1.0*	60	**W130**		B5
3.0					**HTT**		
100LA2	**373**	69	*2.3*	7.5	**W075**		B5/B14
(2800 min^{-1})	**280**	91	*1.9*	10	**W075**		B5/B14
	187	134	*1.4*	15	**W075**		B5/B14
	187	135	*2.2*	15	**W090**		B5/B14
	140	176	*1.6*	20	**W090**		B5/B14
	112	217	*1.2*	25	**W090**		B5/B14
	93	255	*1.4*	30	**W090**		B5/B14
	112	220	*2.2*	25	**W110**		B5/B14
	93	252	*2.3*	30	**W110**		B5/B14
	70	332	*1.7*	40	**W110**		B5/B14
	56	404	*1.3*	50	**W110**		B5/B14
	47	473	*0.9*	60	**W110**		B5/B14
	56	404	*1.7*	50	**W130**		B5
	47	473	*1.3*	60	**W130**		B5
	35	589	*0.9*	80	**W130**		B5
100LB4	**187**	137	*1.6*	7.5	**W075**		B5/B14
(1400 min^{-1})	**140**	178	*1.3*	10	**W075**		B5/B14
	93	258	*1.0*	15	**W075**		B5/B14
	187	138	*2.3*	7.5	**W090**		B5/B14
	140	180	*2.0*	10	**W090**		B5/B14
	93	264	*1.5*	15	**W090**		B5/B14
	70	344	*1.1*	20	**W090**		B5/B14
	56	425	*0.8*	25	**W090**		B5/B14
	47	485	*0.9*	30	**W090**		B5/B14
	93	264	*2.6*	15	**W110**		B5/B14
	70	348	*1.9*	20	**W110**		B5/B14
	56	430	*1.4*	25	**W110**		B5/B14
	47	491	*1.5*	30	**W110**		B5/B14
	35	647	*1.1*	40	**W110**		B5/B14
	28	778	*0.8*	50	**W110**		B5/B14
	47	485	*2.2*	30	**W130**		B5
	35	622	*1.7*	40	**W130**		B5
	28	767	*1.3*	50	**W130**		B5
	23	896	*1.0*	60	**W130**		B5

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
3.0					**HTT**		
132S6	**120**	210	*3.2*	7.5	**W110**		B5/B14
(900 min^{-1})	**90**	277	*2.6*	10	**W110**		B5/B14
	60	401	*2.0*	15	**W110**		B5/B14
	45	528	*1.4*	20	**W110**		B5/B14
	36	653	*1.1*	25	**W110**		B5/B14
	45	522	*2.0*	20	**W130**		
	36	645	*1.6*	25	**W130**		B5/B14
	30	735	*1.6*	30	**W130**		B5/B14
	23	942	*1.2*	40	**W130**		B5/B14
4.0					**HTT**		
112M2	**373**	92	*1.7*	7.5	**W075**		B5/B14
(2800 min^{-1})	**280**	121	*1.4*	10	**W075**		B5/B14
	187	178	*1.0*	15	**W075**		B5/B14
	280	123	*2.1*	10	**W090**		B5/B14
	187	180	*1.7*	15	**W090**		B5/B14
	140	235	*1.2*	20	**W090**		B5/B14
	140	237	*2.1*	20	**W110**		B5/B14
	112	293	*1.6*	25	**W110**		B5/B14
	93	336	*1.8*	30	**W110**		B5/B14
	70	442	*1.3*	40	**W110**		B5/B14
	56	539	*0.9*	50	**W110**		B5/B14
112M4	**187**	182	*1.2*	7.5	**W075**		B5/B14
(1400 min^{-1})	**140**	237	*1.0*	10	**W075**		B5/B14
	187	184	*1.7*	7.5	**W090**		B5/B14
	140	240	*1.5*	10	**W090**		B5/B14
	93	352	*1.1*	15	**W090**		B5/B14
	70	458	*0.8*	20	**W090**		B5/B14
	140	240	*2.6*	10	**W110**		B5/B14
	93	352	*1.9*	15	**W110**		B5/B14
	70	464	*1.4*	20	**W110**		B5/B14
	56	573	*1.1*	25	**W110**		B5/B14
	47	655	*1.2*	30	**W110**		B5/B14
	35	862	*0.8*	40	**W110**		B5/B14
	70	458	*2.0*	20	**W130**		B5
	56	566	*1.6*	25	**W130**		B5
	47	647	*1.6*	30	**W130**		B5
	35	829	*1.3*	40	**W130**		B5
	28	1023	*0.9*	50	**W130**		B5
132L6	**120**	280	*2.4*	7.5	**W110**		B5/B14
(900 min^{-1})	**90**	369	*2.0*	10	**W110**		B5/B14
	60	535	*1.5*	15	**W110**		B5/B14
	45	705	*1.1*	20	**W110**		B5/B14
	45	696	*1.5*	20	**W130**		B5/B14
	36	860	*1.2*	25	**W130**		B5/B14
	30	980	*1.2*	30	**W130**		B5/B14



Dati tecnici — *Technical data*

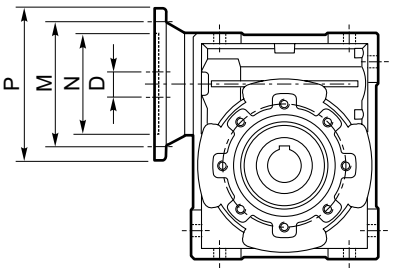
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
5.5					**HTT**		
132SA2	**373**	127	*3.2*	7.5	**W110**		B5/B14
(2800 min^{-1})	**280**	167	*2.7*	10	**W110**		B5/B14
	187	248	*2.0*	15	**W110**		B5/B14
	140	326	*1.5*	20	**W110**		B5/B14
	112	403	*1.2*	25	**W110**		B5/B14
	140	326	*2.1*	20	**W130**		B5/B14
	112	403	*1.6*	25	**W130**		B5/B14
	93	461	*1.7*	30	**W130**		B5/B14
	70	600	*1.3*	40	**W130**		B5/B14
132S4	**187**	250	*2.2*	7.5	**W110**		B5/B14
(1400 min^{-1})	**140**	330	*1.9*	10	**W110**		B5/B14
	93	484	*1.4*	15	**W110**		B5/B14
	70	638	*1.0*	20	**W110**		B5/B14
	56	788	*0.8*	25	**W110**		B5/B14
	187	250	*3.0*	7.5	**W130**		B5/B14
	140	330	*2.5*	10	**W130**		B5/B14
	93	484	*1.9*	15	**W130**		B5/B14
	70	630	*1.4*	20	**W130**		B5/B14
	56	778	*1.2*	25	**W130**		B5/B14
	47	889	*1.2*	30	**W130**		B5/B14
	35	1141	*0.9*	40	**W130**		B5/B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
7.5					**HTT**		
132SB2	**373**	173	*2.4*	7.5	**W110**		B5/B14
(2800 min^{-1})	**280**	228	*2.0*	10	**W110**		B5/B14
	187	338	*1.5*	15	**W110**		B5/B14
	140	445	*1.1*	20	**W110**		B5/B14
	112	550	*0.9*	25	**W110**		B5/B14
	187	338	*2.1*	15	**W130**		B5/B14
	140	445	*1.5*	20	**W130**		B5/B14
	112	550	*1.2*	25	**W130**		B5/B14
	93	629	*1.3*	30	**W130**		B5/B14
	70	819	*0.9*	40	**W130**		B5/B14
132MA4	**187**	341	*1.6*	7.5	**W110**		B5/B14
(1400 min^{-1})	**140**	450	*1.4*	10	**W110**		B5/B14
	93	660	*1.0*	15	**W110**		B5/B14
	70	870	*0.8*	20	**W110**		B5/B14
	187	341	*2.2*	7.5	**W130**		B5/B14
	140	450	*1.8*	10	**W130**		B5/B14
	93	660	*1.4*	15	**W130**		B5/B14
	70	860	*1.1*	20	**W130**		B5/B14
	56	1062	*0.9*	25	**W130**		B5/B14
	47	1213	*0.9*	30	**W130**		B5/B14

Motori applicabili

IEC Motor adapters

HTT	IEC	N	M	P	D	i											
						5	7.5	10	15	20	25	30	40	50	60	80	100
W026	**56B14**	50	65	80	9												
W030	**63B5**	95	115	140	11												
	63B14	60	75	90													
	56B5	80	100	120	9	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**			
	56B14	50	65	80													
W040	**71B5**	110	130	160	14												
	71B14	70	85	105													
	63B5	95	115	140	11	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**				
	63B14	60	75	90													
	56B5	80	100	120	9	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**
	56B14	50	65	80													
W050	**80B5**	130	165	200	19												
	80B14	80	100	120													
	71B5	110	130	160	14	**B**	**B**	**B**	**B**	**B**	**B**	**B**					
	71B14	70	85	105													
	63B5	95	115	140	11	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**	
	63B14	60	75	90													
W063	**90B5**	130	165	200	24												
	90B14	95	115	140													
	80B5	130	165	200	19	**B**	**B**	**B**	**B**	**B**	**B**	**B**					
	80B14	80	100	120													
	71B5	110	130	160	14	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**		
	71B14	70	85	105													
	63B5	95	115	140	11								**BS**	**BS**	**BS**	**B**	**B**
W075	**100/112B5**	180	215	250	28												
	100/112B14	110	130	160													
	90B5	130	165	200	24		**B**	**B**	**B**								
	90B14	95	115	140													
	80B5	130	165	200	19		**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**				
	80B14	80	100	120													
	71B5	110	130	160	14					**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**
W090	**100/112B5**	180	215	250	28												
	100/112B14	110	130	160													
	90B5	130	165	200	24		**B**	**B**	**B**	**B**	**B**	**B**					
	90B14	95	115	140													
	80B5	130	165	200	19		**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**		
	80B14	80	100	120													
	71B5	110	130	160	14								**BS**	**BS**	**BS**	**B**	**B**
W110	**132B5**	230	265	300	38												
	132B14	130	165	200													
	100/112B5	180	215	250	28		**B**	**B**	**B**	**B**	**B**						
	100/112B14	110	130	160													
	90B5	130	165	200	24		**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**		
	90B14	95	115	140													
	80B5	130	165	200	19							**BS**	**BS**	**BS**	**BS**	**B**	**B**
W130	**132B5**	230	265	300	38												
	132B14	130	165	200													
	100/112B5	180	215	250	28		**B**	**B**	**B**	**B**	**B**	**B**	**B**				
	90B5	130	165	200	24		**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**
	80B5	130	165	200	19									**BS**	**BS**	**BS**	**BS**



N.B.

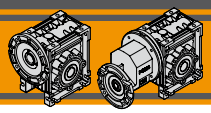
Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.

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

B/BS = Boccola di riduzione in acciaio

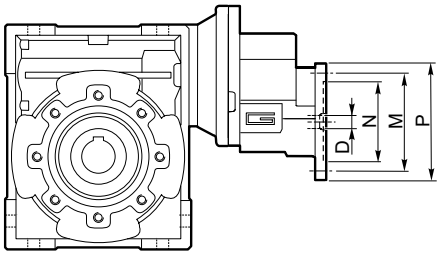
B/BS = Metal shaft sleeve

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



Motori applicabili

IEC Motor adapters



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

N.B.

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

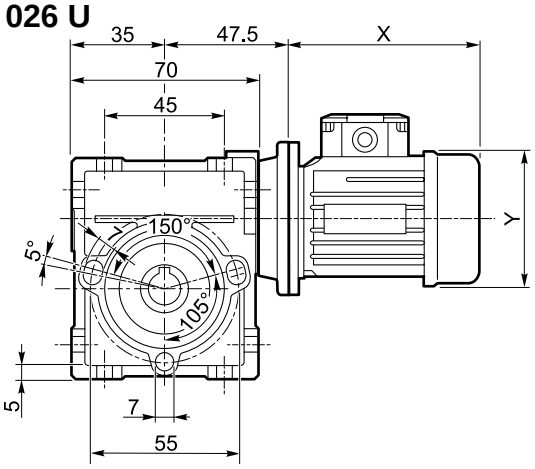
N.B. *Grey areas indicate motor inputs available on each size of unit.*

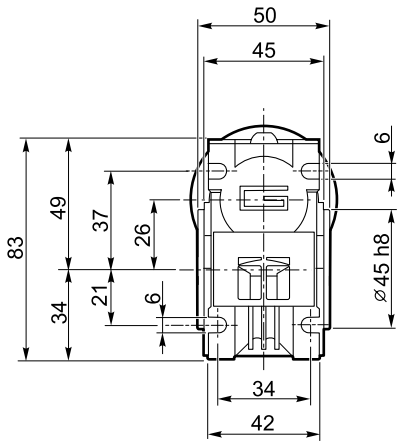
B/BS = Boccola di riduzione in acciaio

B/BS = Metal shaft sleeve

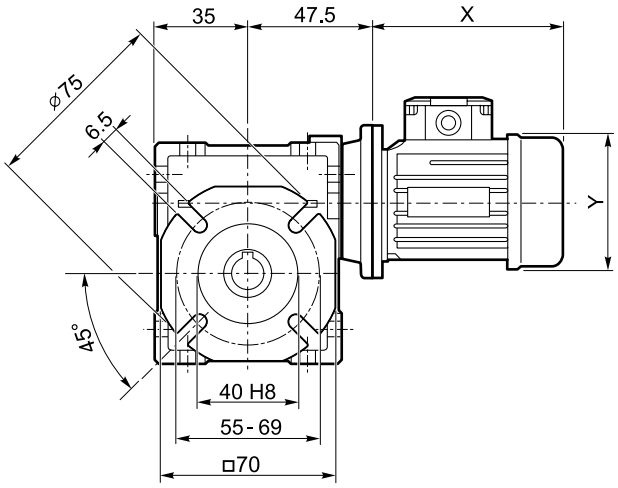
Dimensioni *Dimensions*

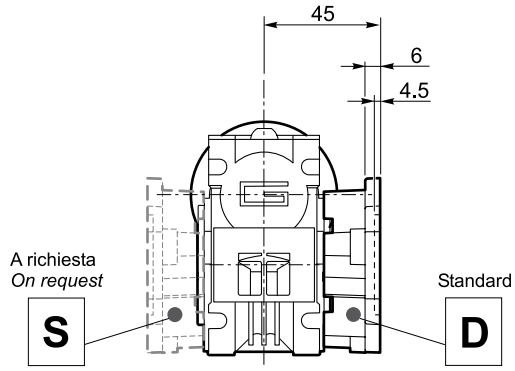
HTTW 026 U





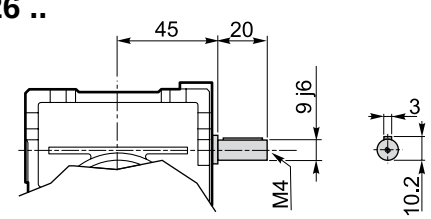
HTTW 026 F

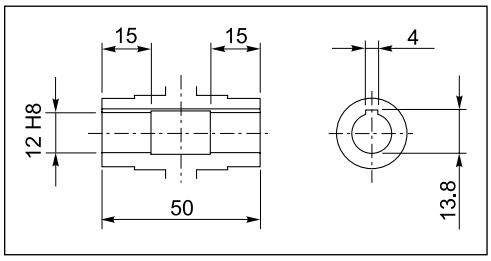




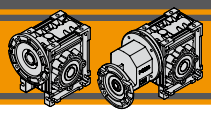
Kg
0.8

HTTWI 026 ..



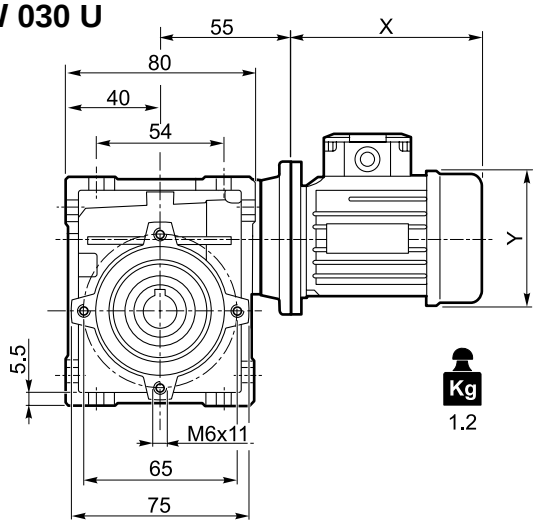


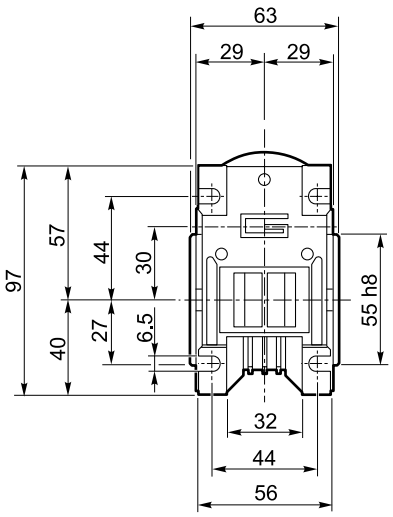
Albero lento cavo / *Hollow output shaft*



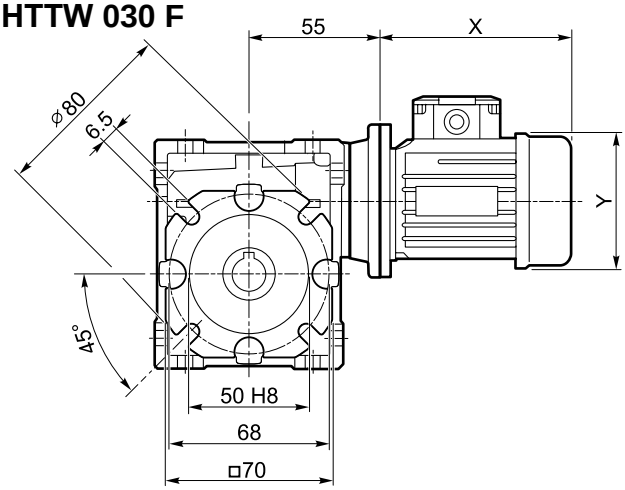
Dimensioni | ***Dimensions***

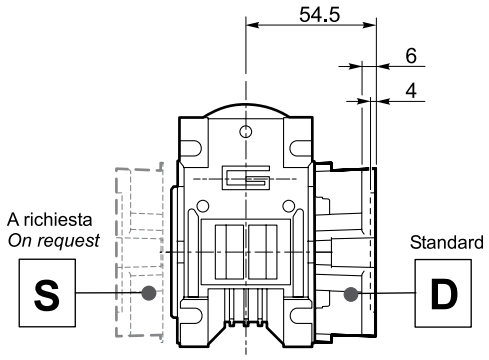
HTTW 030 U

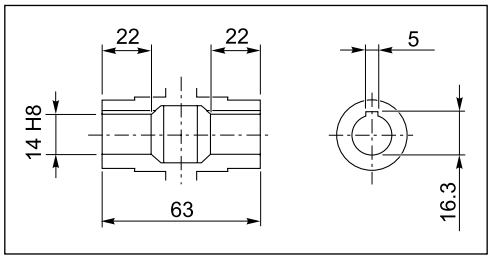




HTTW 030 F

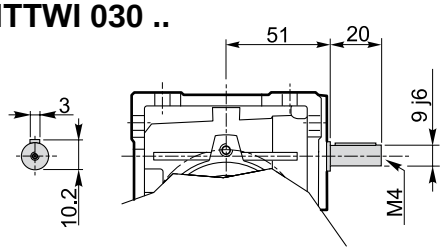




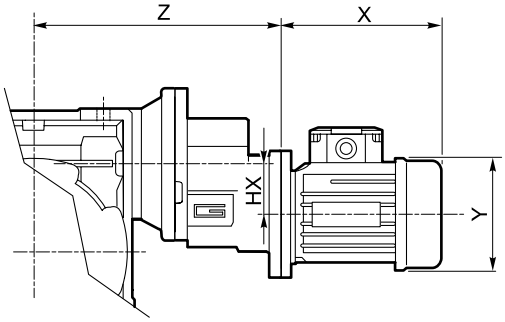


Albero lento cavo / *Hollow output shaft*

HTTWI 030 ..



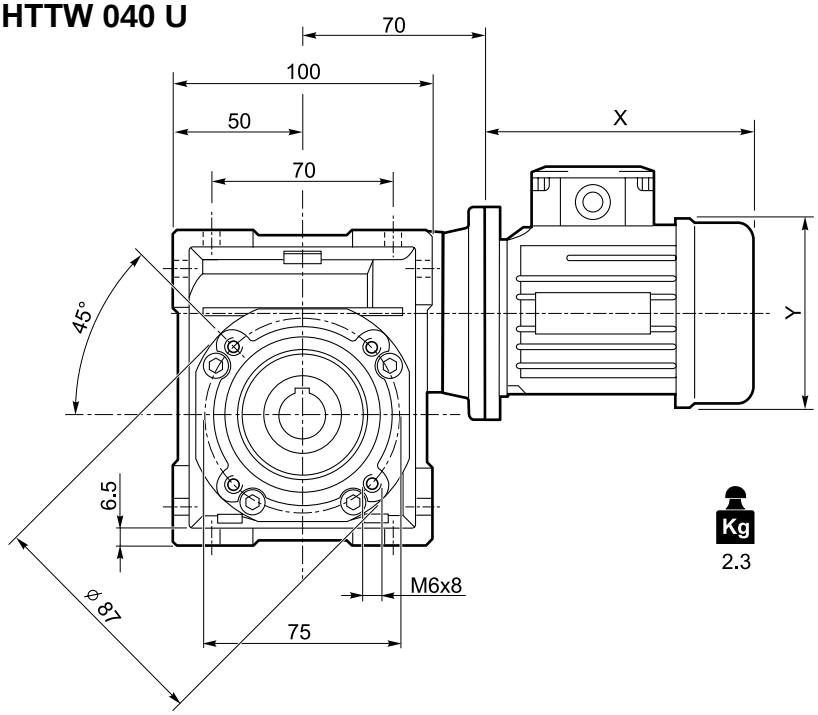
HTTWP ..

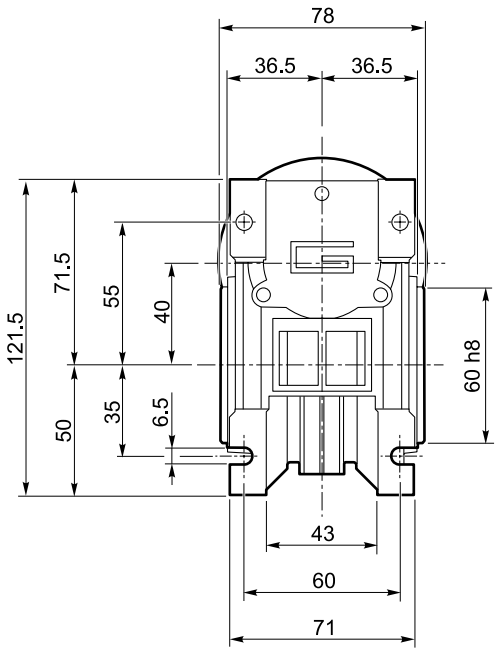


	HX	Z	Kg
056/030	30.5	124	2.1

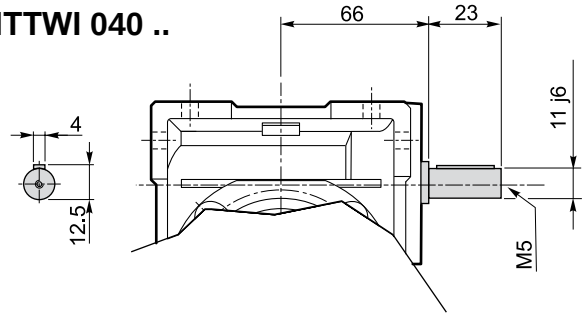
Dimensioni | ***Dimensions***

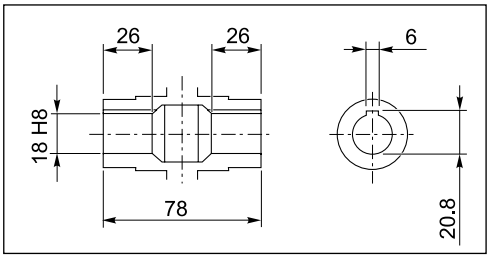
HTTW 040 U





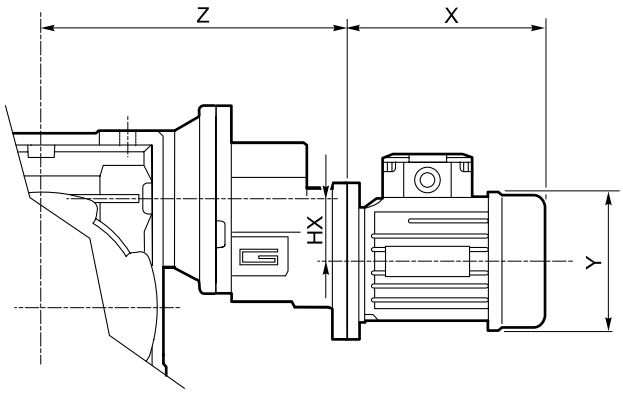
HTTWI 040 ..



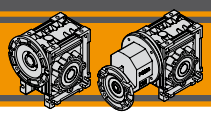


Albero lento cavo / *Hollow output shaft*

HTTWP ..

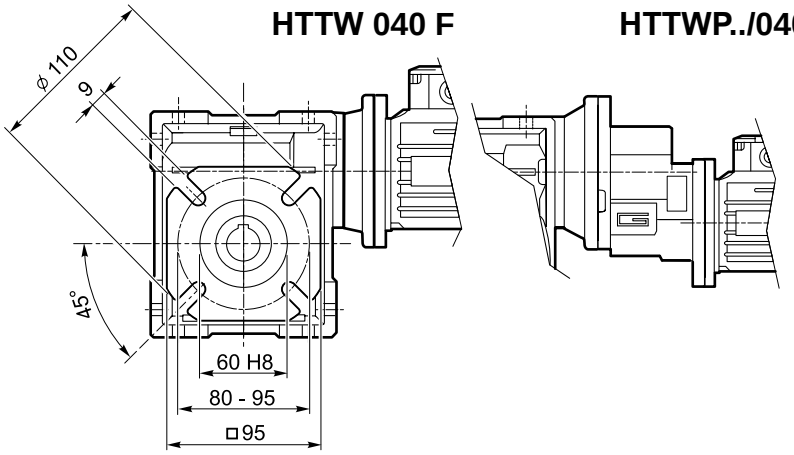


	HX	Z	Kg
056/040	30.5	139	3.2
063/040	30.5	142	3.3

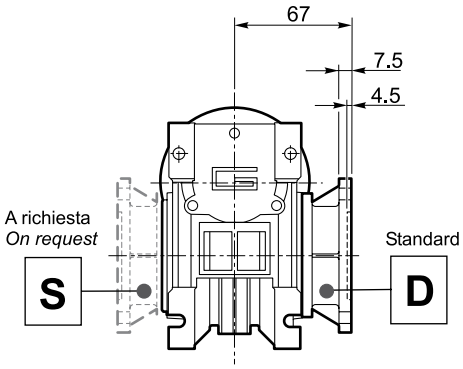


Dimensioni *Dimensions*

HTTW 040 F



HTTWP../040 F



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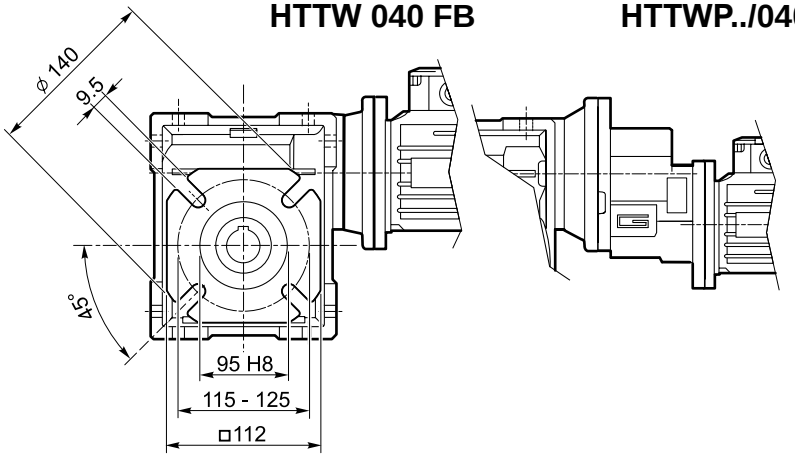

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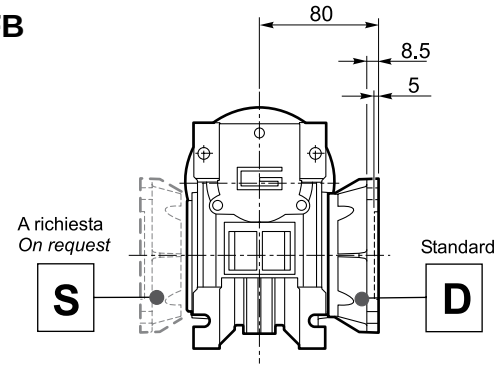

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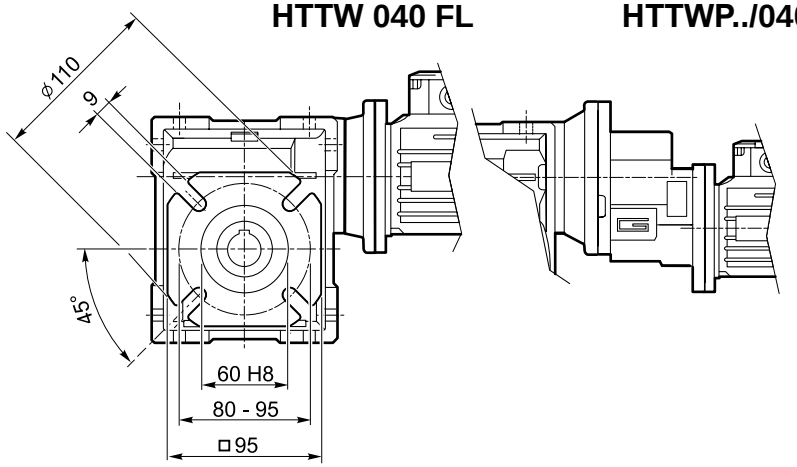

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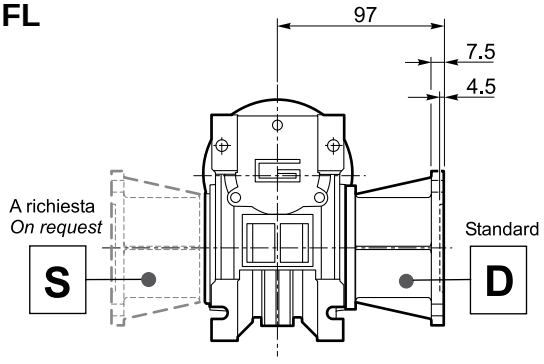
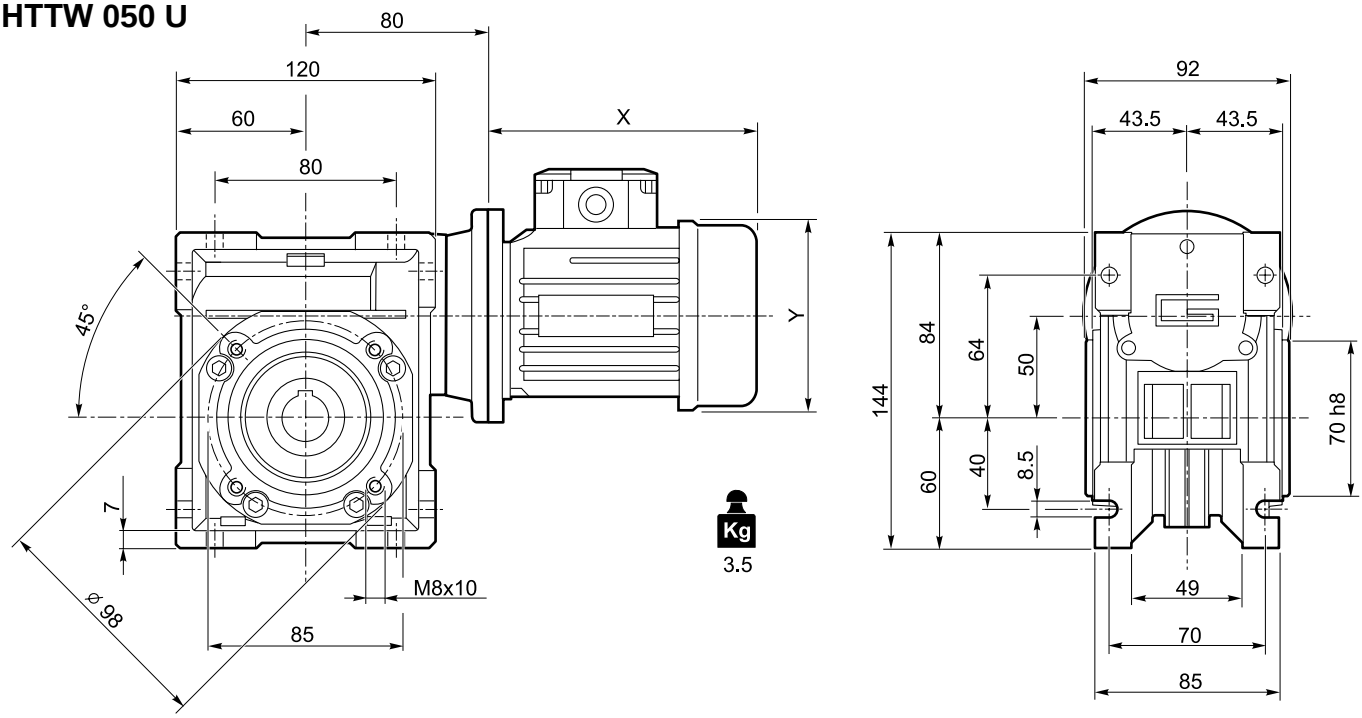
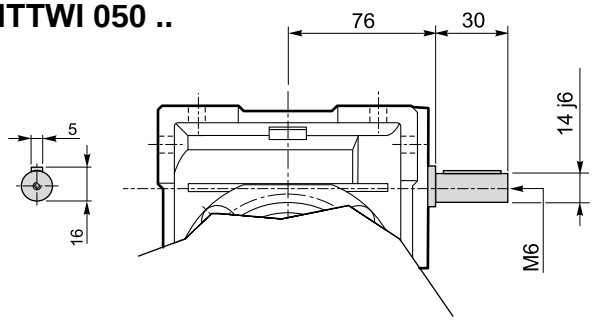


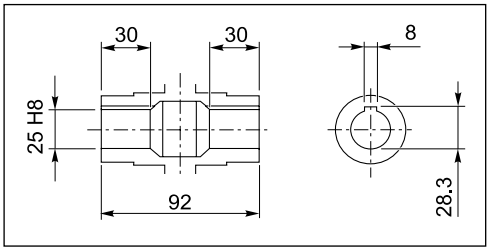
Dimensioni *Dimensions*

HTTW 050 U



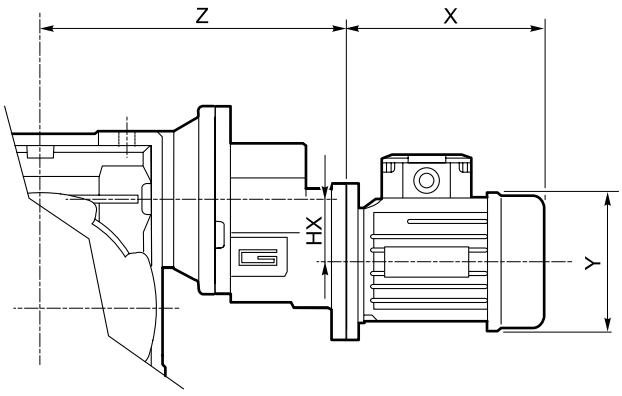
HTTWI 050 ..



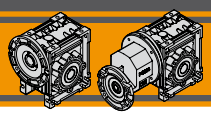


Albero lento cavo / *Hollow output shaft*

HTTWP ..

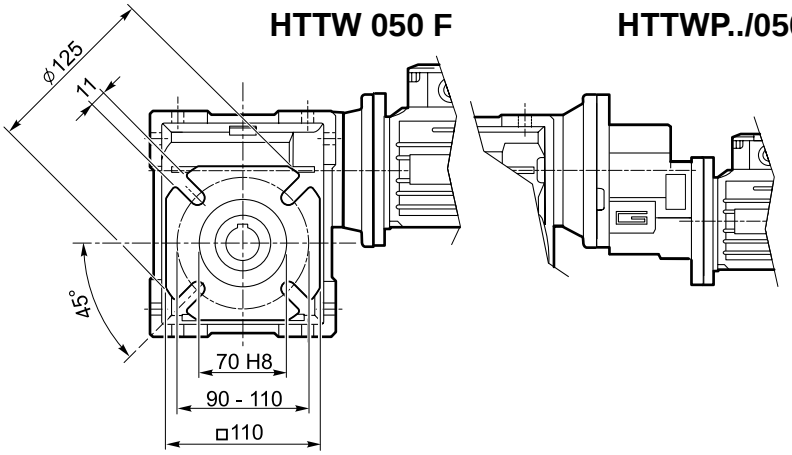


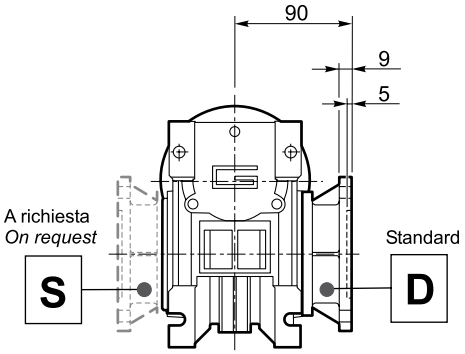
	HX	Z	Kg
063/050	30.5	152	4.5
071/050	41	169	5.5



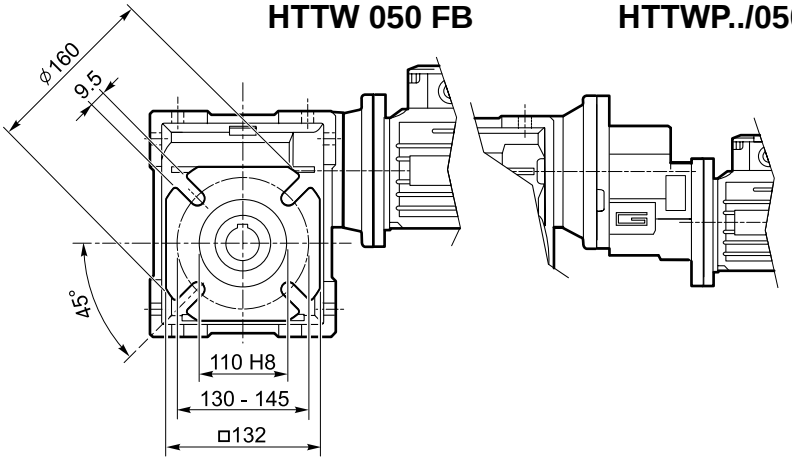
Dimensioni *Dimensions*

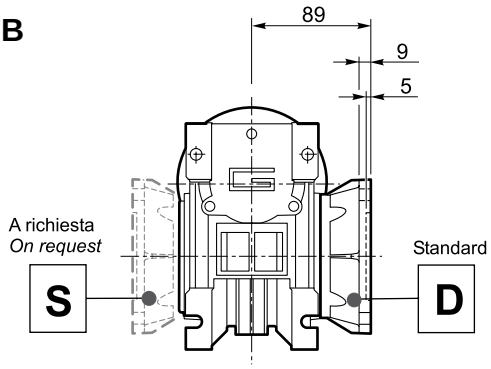
HTTW 050 F HTTWP../050 F



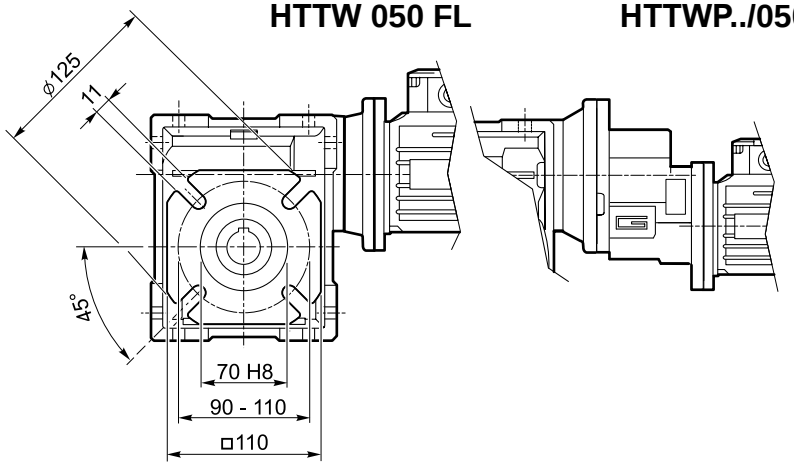


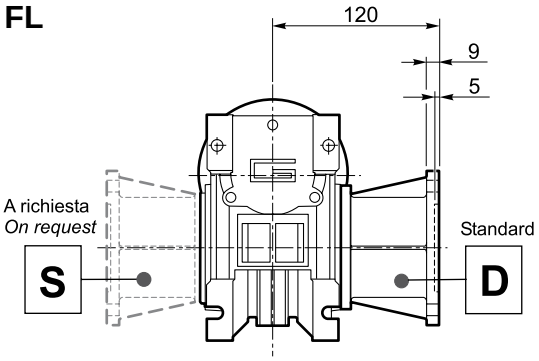
HTTW 050 FB HTTWP../050 FB





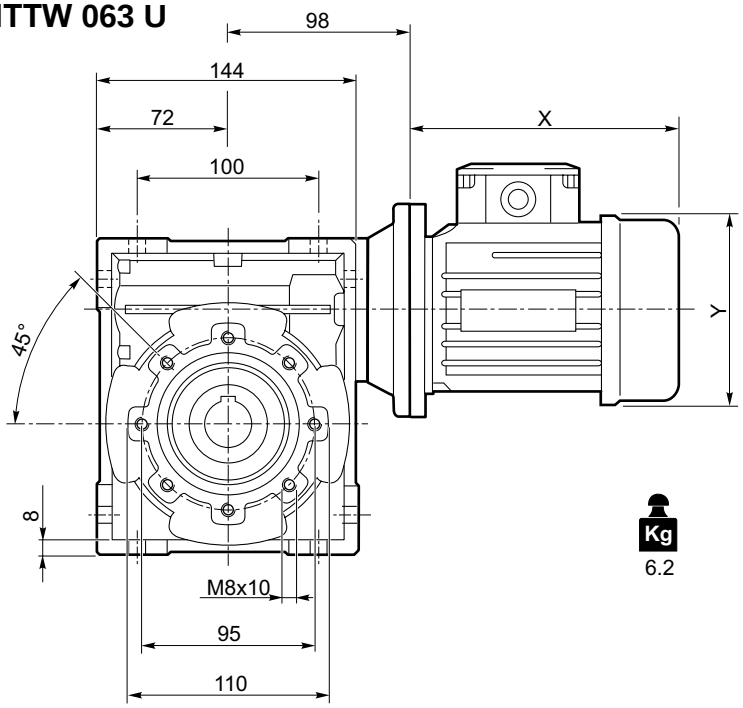
HTTW 050 FL HTTWP../050 FL

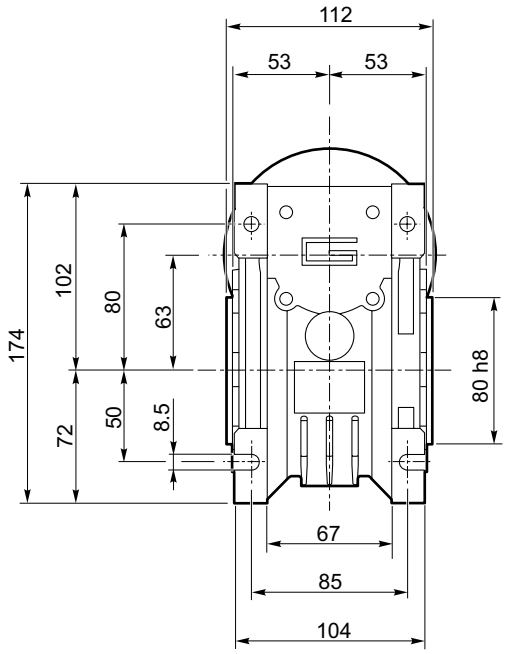




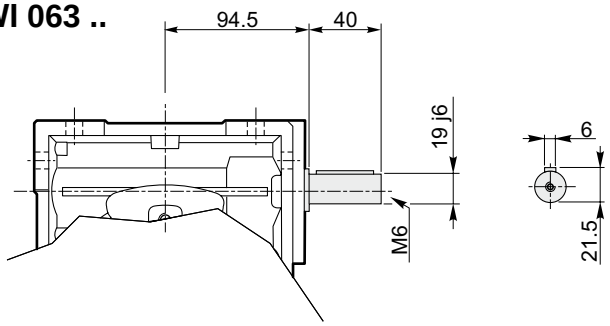
Dimensioni *Dimensions*

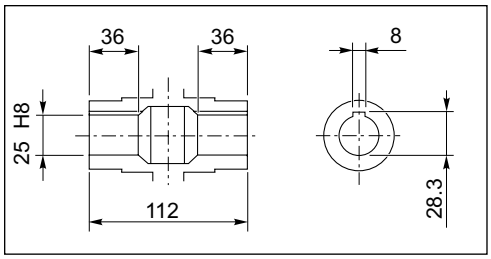
HTTW 063 U





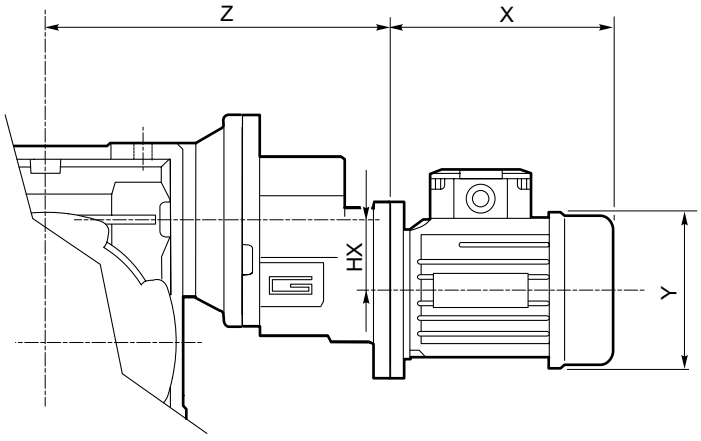
HTTWI 063 ..



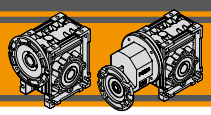


Albero lento cavo / *Hollow output shaft*

HTTWP ..

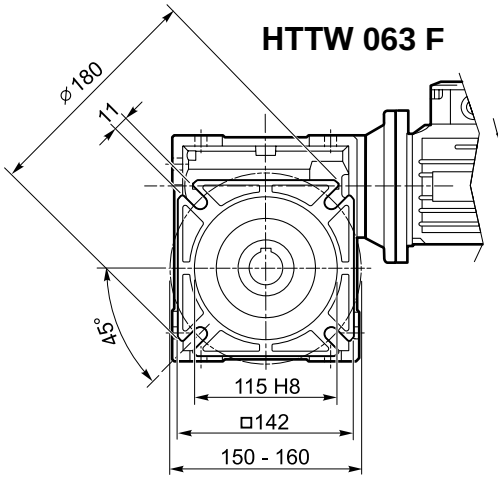


	HX	Z	Kg
063/063	30.5	170	7.2
071/063	41	187	8.2
080/063	41	198	9.0

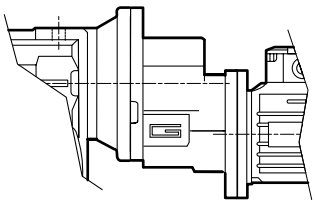


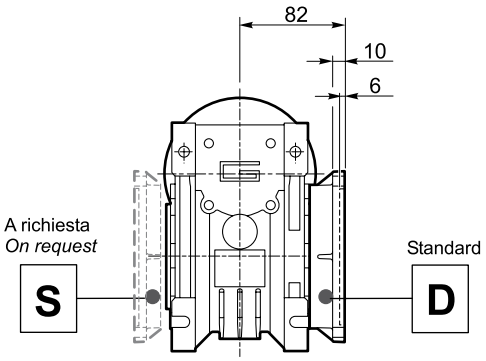
Dimensioni *Dimensions*

HTTW 063 F

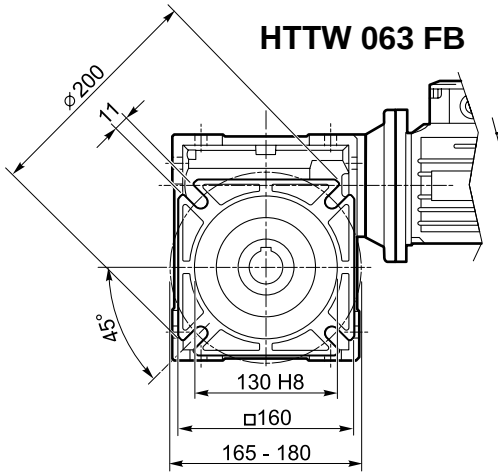


HTTWP../063 F

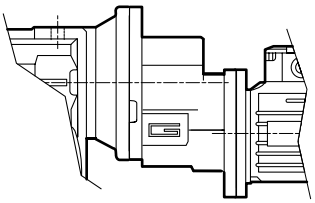


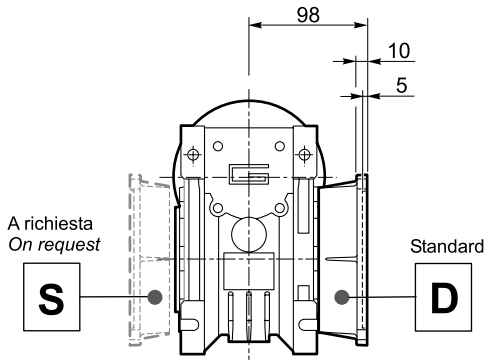


HTTW 063 FB

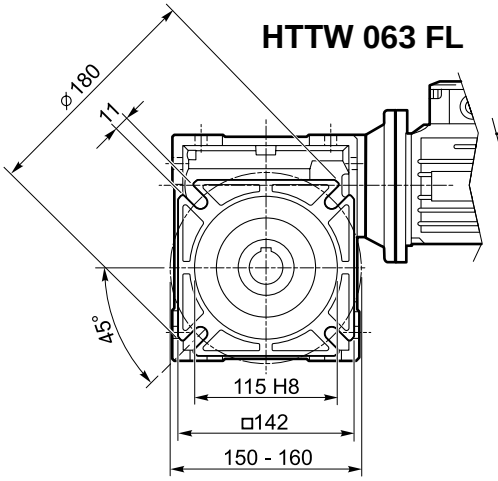


HTTWP../063 FB

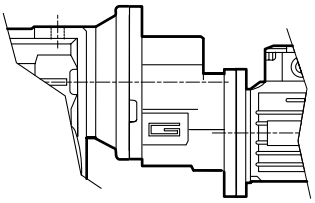


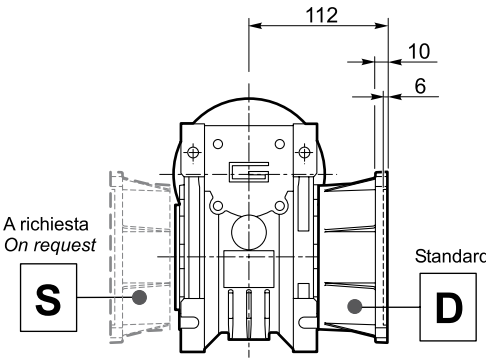


HTTW 063 FL



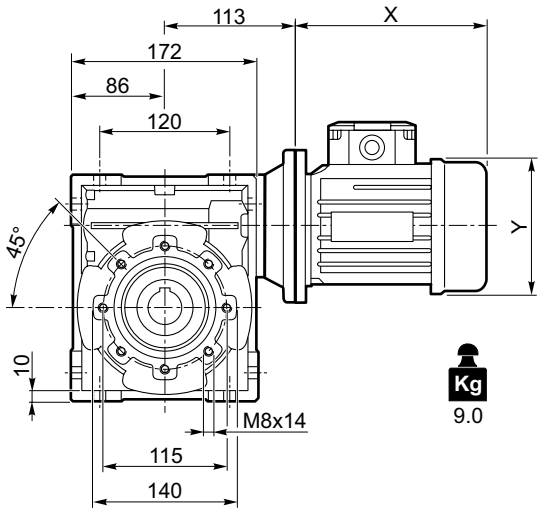
HTTWP../063 FL

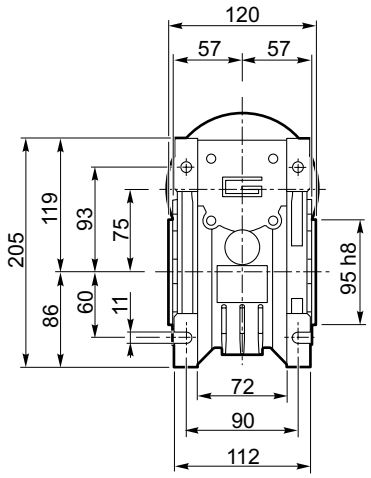




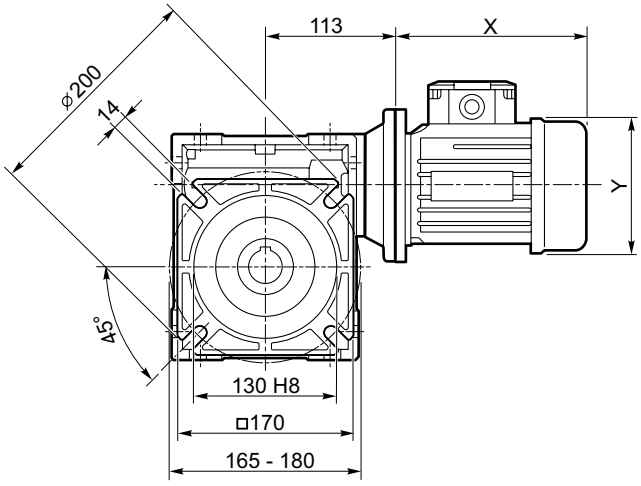
Dimensioni *Dimensions*

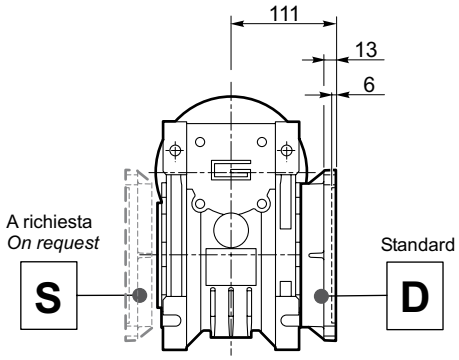
HTTW 075 U



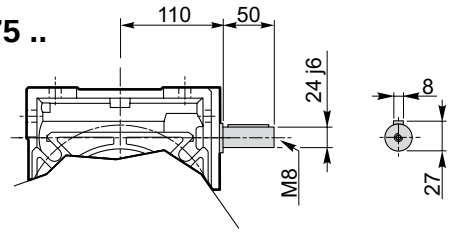


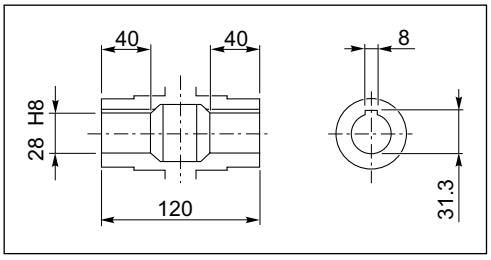
HTTW 075 F





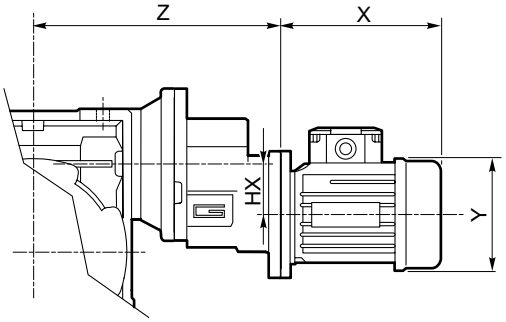
HTTWI 075 ..



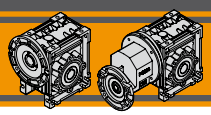


Albero lento cavo / *Hollow output shaft*

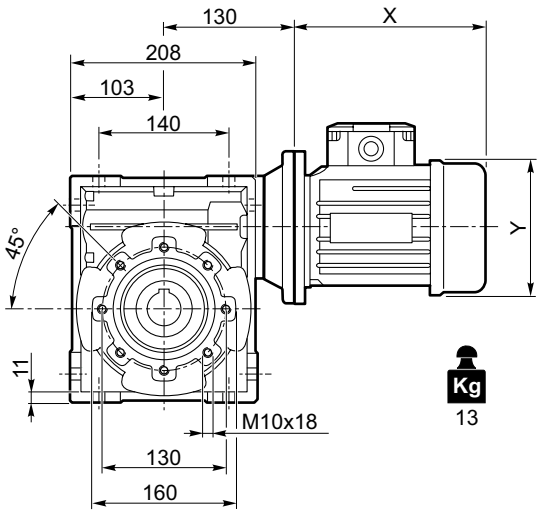
HTTWP ..

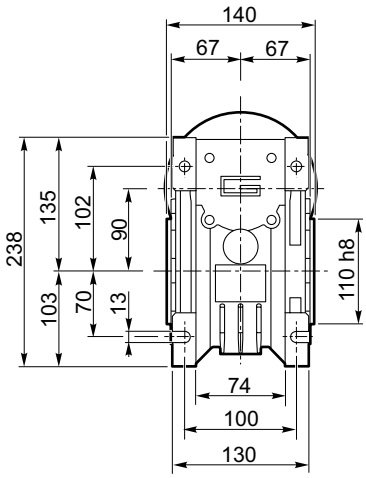


	HX	Z	Kg
071/075	41	202	11.0
080/075	41	213	11.8
090/075	36.5	267	12.5

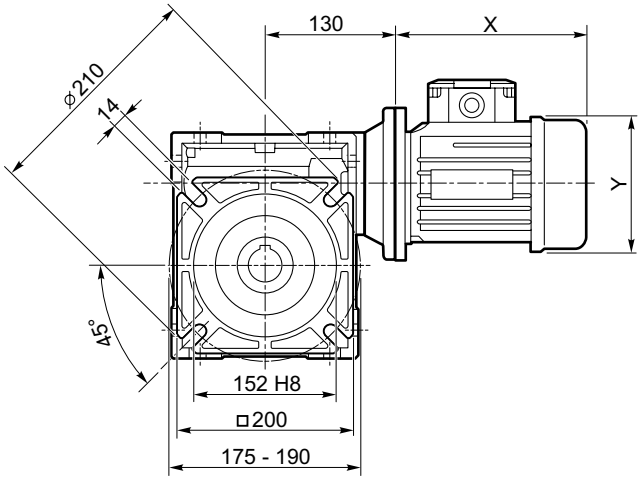


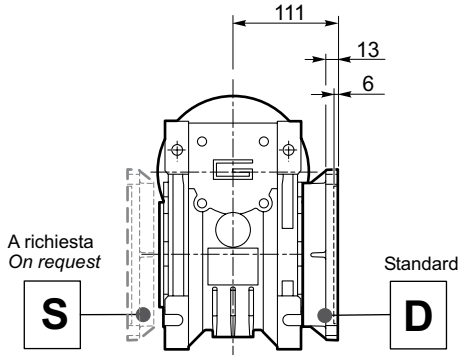
HTTW 090 U



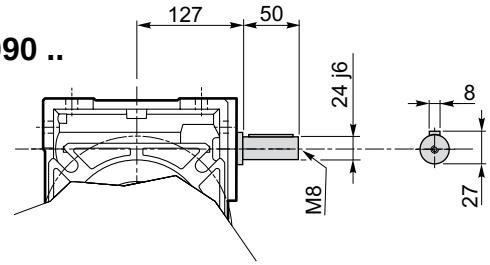


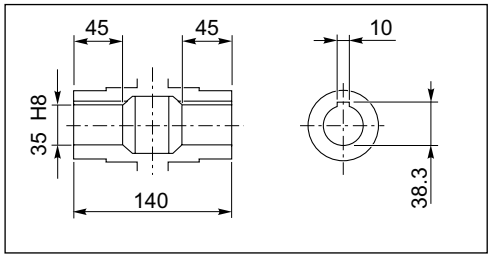
HTTW 090 F





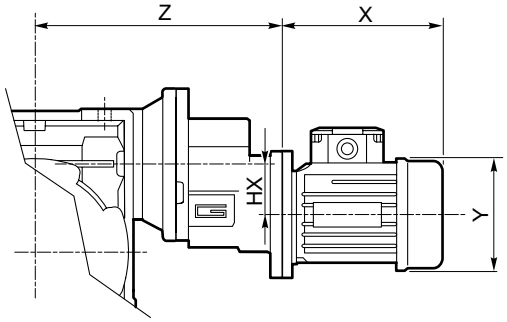
HTTWI 090 ..





Albero lento cavo / *Hollow output shaft*

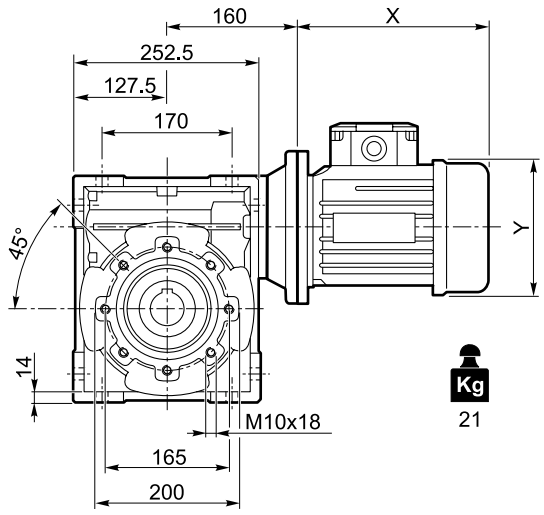
HTTWP ..

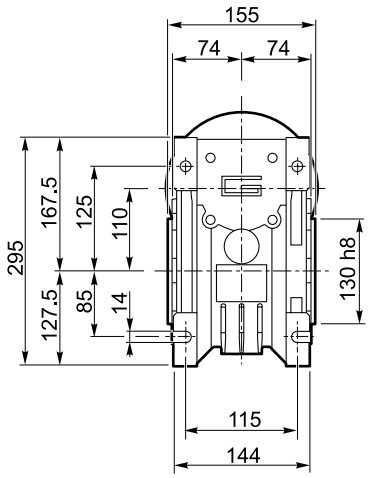


	HX	Z	Kg
071/090	41	219	15.0
080/090	41	230	15.8
090/090	36.5	284	16.5

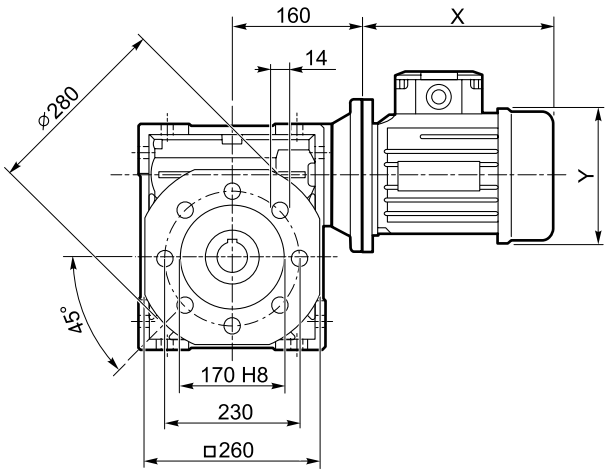
Dimensioni *Dimensions*

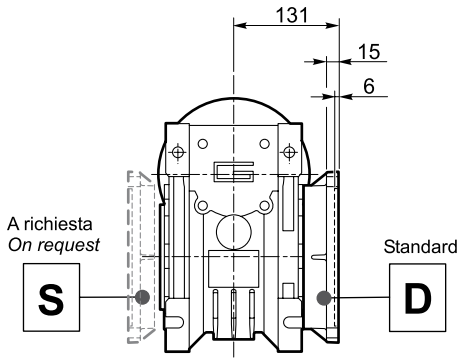
HTTW 110 U



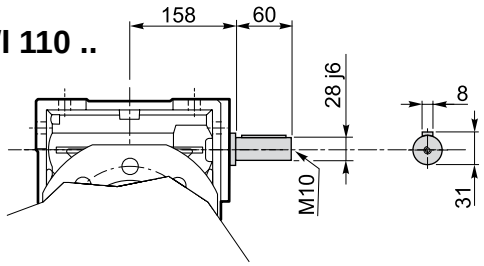


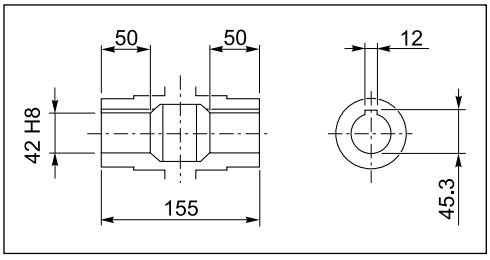
HTTW 110 F





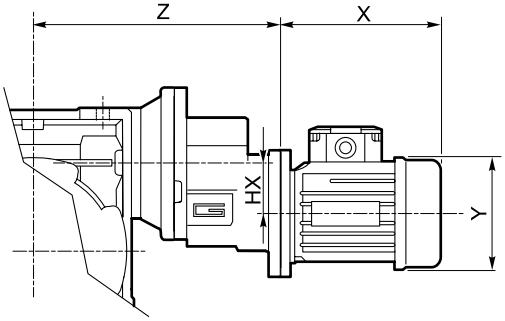
HTTWI 110 ..



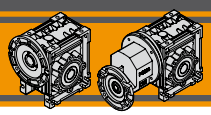


Albero lento cavo / *Hollow output shaft*

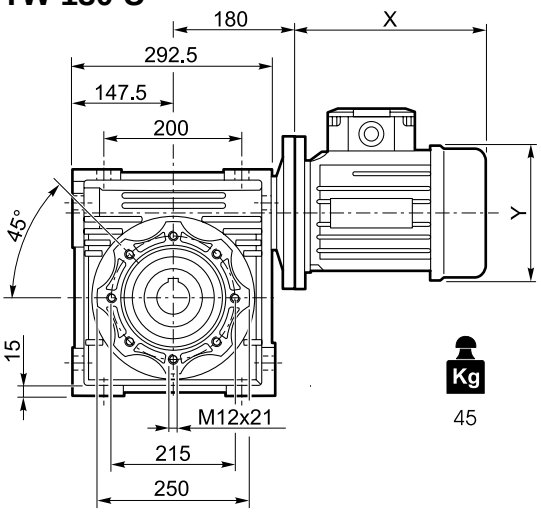
HTTWP ..

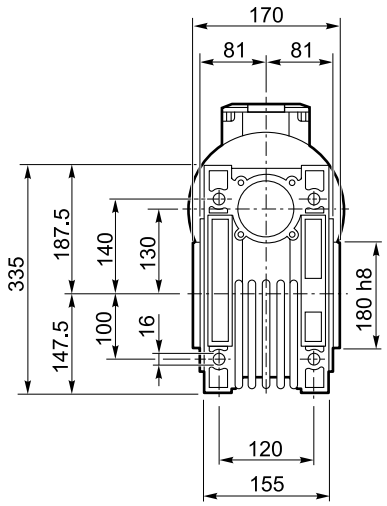


	HX	Z	Kg
080/110	41	260	23.8
090/110	36.5	314	24.5

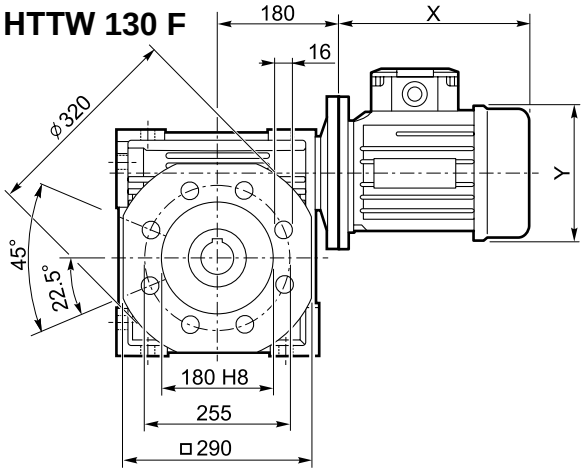


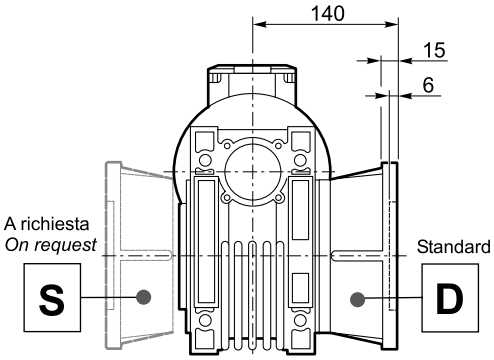
HTTW 130 U

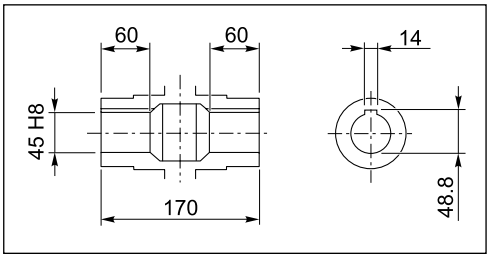




HTTW 130 F

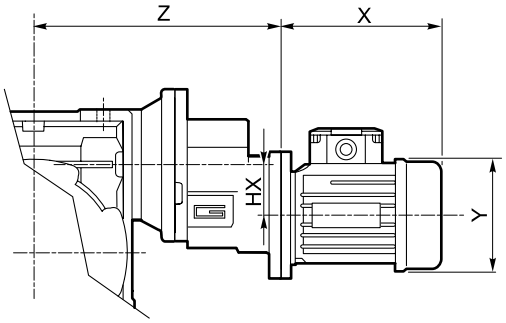






Albero lento cavo / *Hollow output shaft*

HTTWP ..

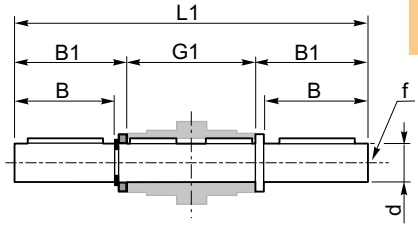


	HX	Z	Kg
080/130	41	280	47.8
090/130	36.5	334	48.5

Accessori — *Accessories*

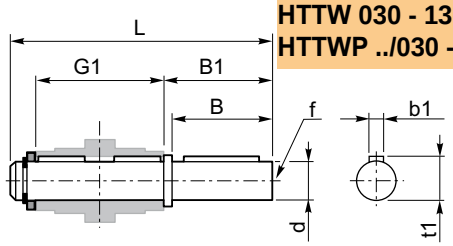
Albero lento semplice e doppio — *Single and double output shaft*

DZ



HTTW 030 - 130
HTTWP ../030 - ./130

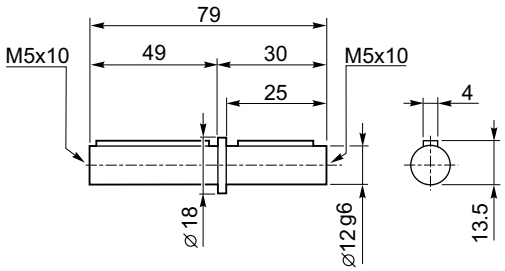
SZ



HTTW 030 - 130
HTTWP ../030 - ../130

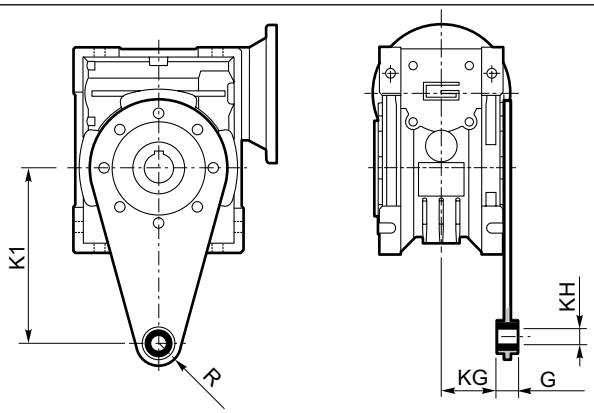
HTTW	HTTWP	d h7	B	B1	G1	L	L1	f	b1	t1
030	056/030	14	30	32.5	63	102	128	M6	5	16
040	056/040 063/040	18	40	43	78	128	164	M6	6	20.5
050	063/050 071/050	25	50	53.5	92	153	199	M10	8	28
063	063/063 071/063 080/063	25	50	53.5	112	173	219	M10	8	28
075	071/075 080/075 090/075	28	60	63.5	120	192	247	M10	8	31
090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

HTTW 026



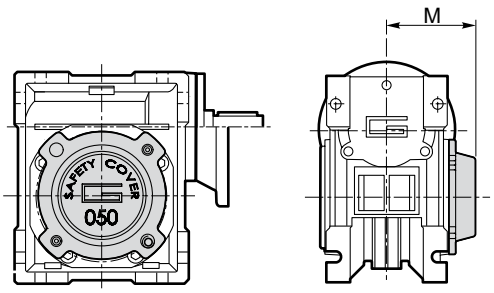
Braccio di reazione — *Torque arm*

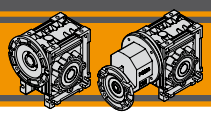
HTTW	HTTWP	K1	G	KG	KH	R
030	056/030	85	14	23	8	15
040	056/040 063/040	100	14	31	10	18
050	063/050 071/050	100	14	38	10	18
063	063/063 071/063 080/063	150	14	47.5	10	18
075	071/075 080/075 090/075	200	25	46.5	20	30
090	071/090 080/090 090/090	200	25	56.5	20	30
110	080/110 090/110	250	30	62	25	35
130	080/130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



SC *- Safety Cover*

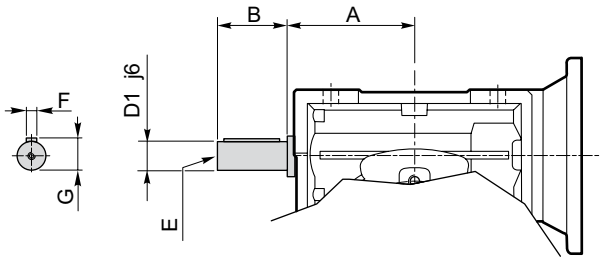
HTTW	HTTWP	M
030	056/030	47
040	056/040 063/040	54.5
050	063/050 071/050	62.5
063	063/063 071/063 080/063	73
075	071/075 080/075 090/075	79
090	071/090 080/090 090/090	94
110	080/110 090/110	102
130	080/130 090/130	117





VS - Vite sporgente / *Extended input shaft*

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



Note/*Notes*