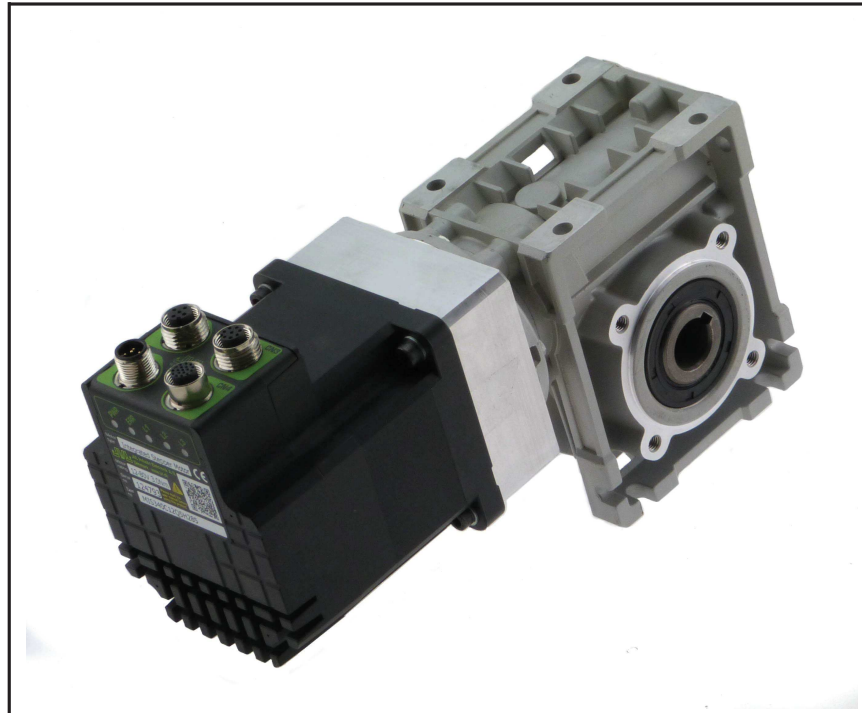
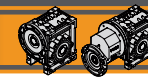


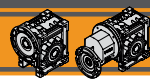
**HTTW / HTTWP
Wormgearboxes
Pre-stage Wormgearboxes**



JVL Industri Elektronik A/S



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HTTW/HTTWP RIDUTTORI A VITE SENZA FINE WORMGEARBOXES

Caratteristiche tecniche

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 alluminio;
- Lubrificazione permanente con olio sintetico.

Technical features

The high degree of modularity is a design feature of HTTW and HTTWP wormgearboxes range thanks to a wide selection of input and output 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

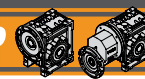
RIDUTTORI A VITE SENZA FINE / WORMGEARBOXES

RIDUTTORE / GEARBOX										
HTTW	050	U	10	71	B5	SZDX	BRSX	90	B3	VS
Il tipo Type	La grandezza Size	La versione riduttore Gearbox Version	Il rapporto Ratio	IEC 	La forma costruttiva Version	Il libero di uscita Output shaft	Il raggio di reazione Torque arm	Il ngolo Angle	Il pos. di montaggio Mounting position	Il pzioni Options
HTTW 	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
HTTWI 										

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

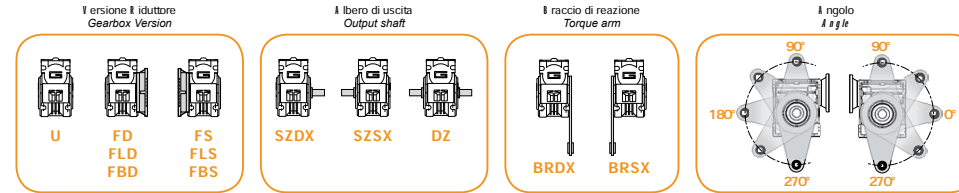
RIDUTTORE / GEARBOX											
HTTWP	063/050	U	90	63	B14	SZDX	BRSX	90	P4	B3	VS
Il tipo Type	La grandezza Size	La versione riduttore Gearbox Version	Il rapporto Ratio	IEC 	La forma costruttiva Version	Il libero di uscita Output shaft	Il raggio di reazione Torque arm	Il ngolo Angle	Il pos. di montaggio precoppia Pre stage mounting position	Il pos. di montaggio Mounting position	Il pzioni 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

P1 P2 P3 (standard) P4



Designazione

Classification



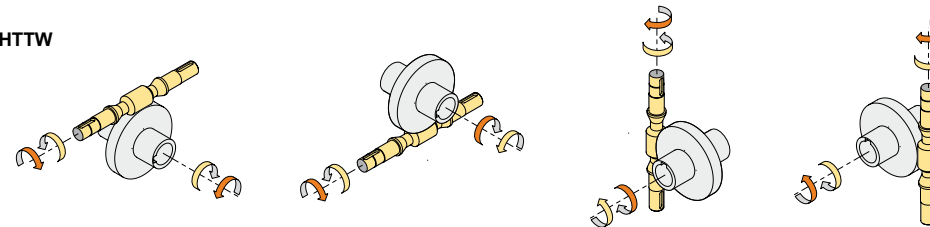
MOTORE CM / CM MOTOR				
0.75kW	4p	3ph	50Hz	T1
Il potenza Power	Il poli Poles	Il asi Phases	Il frequenza Frequency	Il os. morsetteria Terminal box pos.
Vedi tabelle See tables	2p 4p 6p 8p	1ph 3ph	50Hz 60Hz	T1 (Std) T4 T2 T3

HTTW/HTTWP

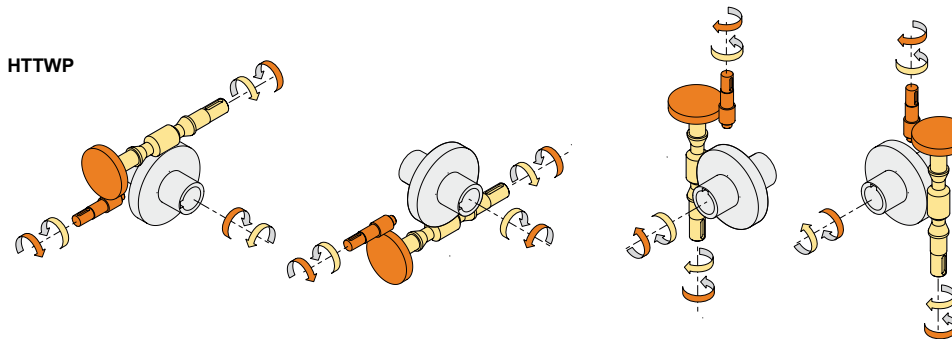
Sensi di rotazione

Direction of rotation

HTTW



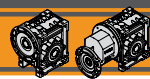
HTTWP



Simbologia

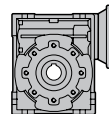
Symbols

n_1 [min ⁻¹]	Il velocità in ingresso / Input speed	sf	Il fattore di servizio / Service factor
n_2 [min ⁻¹]	Il velocità in uscita / Output speed	R d %	Il rendimento dinamico / Dynamic efficiency
i	Il rapporto di riduzione / Ratio	R s %	Il rendimento statico / Static efficiency
P_1 [kW]	Il potenza in entrata / Nominal input power	R_2 [N]	Il carico radiale ammissibile in uscita / Permitted output radial load
M_2 [N m]	Il coppia in uscita in funzione di P_1 / Output torque referred to P_1	A_2 [N]	Il carico assiale ammissibile in uscita / Permitted output axial load
P_{n1} [kW]	Il potenza nominale in entrata / Nominal input power	l	Il numero di principi della vite / Worm starts
M_{n2} [N m]	Il coppia nominale in uscita in funzione di P_{n1} / Nominal output torque referred to P_{n1}	β	Il ngolo d'elica / Helix angle



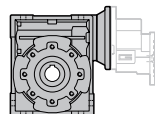
Lubrificazione

Lubrication



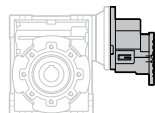
Quantità di olio (litri) / $\emptyset$ il quantity (litres)						
HTTW	B3	B8	B6	B7	V5	V6
026			0.02			
030			0.03			
040			0.07			
050			0.1			
063			0.25			
075			0.4			
090			0.7			
110			1.1			
130	4.5	3.3	3.5	3.5	4.5	3.3

Lubrificazione a vita
Life lubrication



Quantità di olio (litri) / $\emptyset$ il quantity (litres)						
HTTWP	B3	B8	B6	B7	V5	V6
056/030			0.03			
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

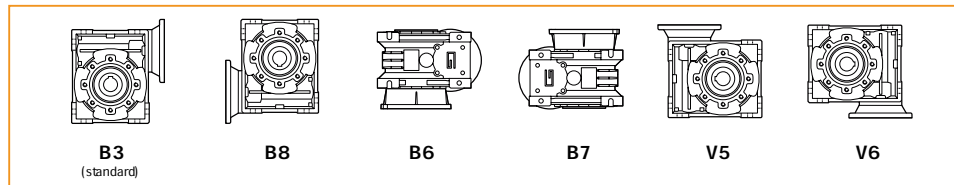
Lubrificazione a vita
Life lubrication



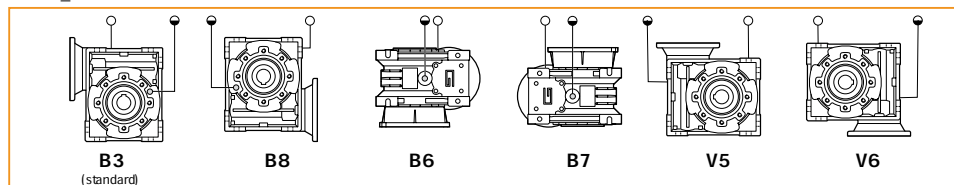
HTTWP				
056/030 056/040	063/040 063/050 063/063	071/050 071/063 071/075 071/090	080/063 080/075 080/090 080/110 080/130	090/075 090/090 090/110 090/130
Lubrificazione a vita Life lubrication				

Posizioni di montaggio / Mounting positions

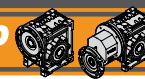
HTTW_HTTWP 026-030-040-050-063-075-090-110



HTTW_HTTWP 130

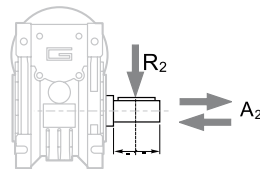


○ Sfiato e tappo di riempimento / Breather and filling plug
● Livello olio / Oil level plug



Carichi radiali

R adial loads

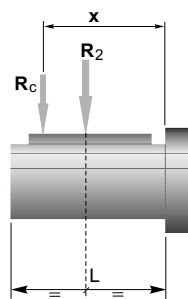


$$A_2 = R_2 \times 0.2$$

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:



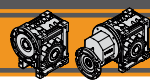
	HTTW	HTTW / HTTWP							
	026	030	040	050	063	075	090	110	130
a	56	65	84	101	120	131	182	176	188
b	43	50	64	76	95	101	122	136	148
R _{2MAX}	610	1600	3000	4200	5800	6700	7500	12000	13600

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

$$R \leq R_c$$

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

HTTW/HTTWP



Dati di dentatura

Tooth 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° 11'	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	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	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	2	1	1	1	1	1	1
	β		28° 14'	21° 56'	15° 11'	14° 41'	12° 34'	7° 38'	7° 28'	6° 21'	5° 32'	4° 24'	3° 39'
HTTW 130	Z	4	3	2	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'

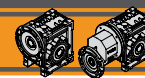
Rendimento

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	R d	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		
HTTW 030	2800	R s	72	71	68	61	56	46	41	36	34			
	1400		89	88	86	84	81	78	74	70	65	62	57	52
	900		86	85	84	79	75	72	67	62	58	55	48	43
HTTW 040	2800	R d	84	83	81	75	71	68	62	58	53	49	43	39
	1400		72	67	63	55	50	43	39	35	31	27	23	21
	900		90	89	87	84	83	80	77	73	69	66	60	56
HTTW 050	2800	R d	88	86	84	81	78	74	70	65	60	58	52	46
	1400		86	84	82	77	74	70	66	60	57	53	46	41
	900		74	71	67	60	55	51	45	40	36	32	28	24
HTTW 063	2800	R d	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
HTTW 075	2800	R s	73	70	66	59	55	51	44	39	35	32	27	23
	1400		91	90	88	86	84	83	79	76	73	70	65	60
	900		90	88	86	84	81	78	75	70	66	63	57	52
HTTW 090	2800	R d	89	86	84	81	78	75	70	65	61	58	52	47
	1400		73	71	67	60	55	51	45	40	36	33	28	24
	900		90	89	87	85	84	81	78	75	72	68	63	58
HTTW 110	2800	R d	89	87	84	83	80	77	73	69	66	60	56	
	1400		87	85	83	80	77	73	68	64	61	55	50	
	900		71	68	61	57	53	46	42	38	35	29	26	
HTTW 130	2800	R s	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	88	86	84	81	78	75	70	66	63	57	52
HTTW 130	2800	R d	72	69	63	62	59	48	46	44	41	36	32	
	1400		90	89	88	87	86	82	80	79	77	72	70	
	900		89	88	86	84	83	79	76	75	73	69	64	59
HTTW 130	2800	R s	88	87	84	82	81	77	74	73	70	64	59	
	1400		72	69	62	61	59	49	46	43	39	34	30	
	900		88	87	84	82	81	77	74	73	70	64	59	



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

	n_2 [min ⁻¹]	Mn_2 [N m]	Pn_1 [kW]	i
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HTTWI026 HTT

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 [N m]	Pn_1 [kW]	i
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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

HTTW/HTTWP

Nota:

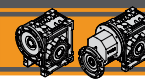
P_{n1} è la potenza meccanica.

La potenza applicabile è ridotta del fattore termico.

Per maggiori dettagli consultare il nostro Servizio Tecnico.

Note:

P_{n1} 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.

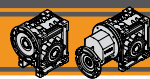


Dati tecnici

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i					
Q.09								Q.12									
HTT								HTT									
63 A 6 (900 min ⁻¹)	45	14	3.2	20	W040		B 5/B 14	56 B 2 (2800 min ⁻¹)	35	20	1.4	80	W040		B 5/B 14		
	36	17	2.6	25	W040		B 5/B 14		31	24	2.4	90	W040	WP056/040	B 14		
	30	19	3.0	30	W040		B 5/B 14		28	23	1.0	100	W040		B 5/B 14		
	23	23	2.1	40	W040		B 5/B 14		23	29	1.7	120		WP056/040	B 14		
	18	27	1.7	50	W040		B 5/B 14		19	34	1.3	150		WP056/040	B 14		
	15	30	1.4	60	W040		B 5/B 14		16	38	1.1	180		WP056/040	B 14		
	15	38	1.8	60		WP063/040	B 14		12	44	0.9	240		WP056/040	B 14		
	12	45	1.3	75		WP063/040	B 14		63 A 4 (1400 min ⁻¹)	280	4	5.1	5	W030		B 5/B 14	
	11	35	1.1	80	W040		B 5/B 14			187	5	3.8	7.5	W030		B 5/B 14	
	10	48	1.7	90		WP063/040	B 14			140	7	3.1	10	W030		B 5/B 14	
	9	39	0.9	100	W040		B 5/B 14			93	10	2.2	15	W030		B 5/B 14	
	7.5	58	1.1	120		WP063/040	B 14			70	12	1.5	20	W030		B 5/B 14	
	15	32	2.4	60	W050		B 5/B 14			56	15	1.4	25	W030		B 5/B 14	
	15	38	3.2	60		WP063/050	B 14			47	16	1.3	30	W030		B 5/B 14	
	12	45	2.5	75		WP063/050	B 14			35	20	1.0	40	W030		B 5/B 14	
	11	37	1.9	80	W050		B 5/B 14			28	24	0.8	50	W030		B 5/B 14	
	10	49	3.0	90		WP063/050	B 14			280	4	11.4	5	W040		B 5/B 14	
	9	41	1.6	100	W050		B 5/B 14			187	5	8.3	7.5	W040		B 5/B 14	
	7.5	60	2.0	120		WP063/050	B 14			140	7	6.5	10	W040		B 5/B 14	
	6.0	67	1.7	150		WP063/050	B 14			93	10	4.5	15	W040		B 5/B 14	
	5.0	74	1.4	180		WP063/050	B 14			70	13	3.1	20	W040		B 5/B 14	
	3.8	85	1.0	240		WP063/050	B 14			56	15	2.5	25	W040		B 5/B 14	
	6.0	70	3.0	150		WP063/063	B 14			47	17	2.8	30	W040		B 5/B 14	
	5.0	77	2.5	180		WP063/063	B 14			35	21	2.0	40	W040		B 5/B 14	
	3.8	90	1.9	240		WP063/063	B 14			28	25	1.6	50	W040		B 5/B 14	
	3.0	98	1.5	300		WP063/063	B 14			23	28	1.3	60	W040		B 5/B 14	
Q.12	HTT								HTT								
	56 B 2 (2000 min ⁻¹)	560	2	5.5	5	W026		B 14	63 B 6 (800 min ⁻¹)	180	5	3.9	5	W030		B 5/B 14	
		373	3	4.1	7.5	W026		B 14		120	8	3.0	7.5	W030		B 5/B 14	
		280	3	3.2	10	W026		B 14		90	10	2.3	10	W030		B 5/B 14	
		187	5	2.2	15	W026		B 14		60	14	1.7	15	W030		B 5/B 14	
		140	7	1.7	20	W026		B 14		45	18	1.2	20	W030		B 5/B 14	
		93	9	1.3	30	W026		B 14		36	22	1.0	25	W030		B 5/B 14	
		70	11	1.0	40	W026		B 14		30	24	1.1	30	W030		B 5/B 14	
		56	13	0.8	50	W026		B 14		23	30	0.8	40	W030		B 5/B 14	
		560	2	7.1	5	W030		B 5/B 14		180	5	3.9	5	W030		B 5/B 14	
		373	3	5.6	7.5	W030		B 5/B 14		120	8	3.0	7.5	W030		B 5/B 14	
		280	4	4.5	10	W030		B 5/B 14		90	10	2.3	10	W030		B 5/B 14	
		187	5	3.1	15	W030		B 5/B 14		60	14	1.7	15	W030		B 5/B 14	
		140	7	2.1	20	W030		B 5/B 14		45	18	1.2	20	W030		B 5/B 14	
		112	8	1.9	25	W030		B 5/B 14		36	22	1.0	25	W030		B 5/B 14	
		93	9	2.0	30	W030		B 5/B 14		30	24	1.1	30	W030		B 5/B 14	
		70	11	1.4	40	W030		B 5/B 14		23	30	0.8	40	W030		B 5/B 14	
		56	13	1.1	50	W030		B 5/B 14		140	43	2.7	100	W063		B 5	
		47	15	0.9	60	W030		B 5/B 14		9.3	69	2.8	150		WP063/063	B 14	
		47	17	1.3	60		WP056/030	B 14		7.8	77	2.3	180		WP063/063	B 14	
		37	20	1.1	75		WP056/030	B 14		5.8	90	1.7	240		WP063/063	B 14	
		31	22	1.2	90		WP056/030	B 14		4.7	101	1.4	300		WP063/063	B 14	
		23	28	0.8	120		WP056/030	B 14		63 B 6 (800 min ⁻¹)	180	5	3.9	5	W030		B 5/B 14
		93	9	4.0	30	W040		B 5/B 14			120	8	3.0	7.5	W030		B 5/B 14
		70	12	2.8	40	W040		B 5/B 14			90	10	2.3	10	W030		B 5/B 14
		56	14	2.3	50	W040		B 5/B 14			60	14	1.7	15	W030		B 5/B 14
47		16	1.8	60	W040		B 5/B 14	45			18	1.2	20	W030		B 5/B 14	
47	18	2.5	60		WP056/040	B 5/B 14	36	22	1.0		25	W030		B 5/B 14			
37	21	2.1	75		WP056/040	B 14	30	24	1.1		30	W030		B 5/B 14			
							23	30	0.8		40	W030		B 5/B 14			

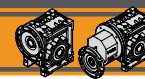
HTTW/HTTWP



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Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i			
Q.12								Q.18							
63 B 6 (900 min ⁻¹)	60	15	3.7	15	W040		B 5/B 14	63 A 2 (2800 min ⁻¹)	35	30	1.5	80	W050		B 5/B 14
	45	19	2.4	20	W040		B 5/B 14		31	37	2.7	90	W050	WP063/050	B 14
	36	22	2.0	25	W040		B 5/B 14		28	36	1.2	100		WP063/050	B 5/B 14
	30	25	2.2	30	W040		B 5/B 14		23	45	1.9	120		WP063/050	B 14
	23	31	1.6	40	W040		B 5/B 14		19	53	1.5	150		WP063/050	B 14
	18	36	1.3	50	W040		B 5/B 14		16	60	1.3	180		WP063/050	B 14
	15	40	1.1	60	W040		B 5/B 14		12	69	1.0	240		WP063/050	B 14
	15	50	1.3	60		WP063/040	B 14		35	32	2.7	80	W063		B 5
	12	60	1.0	75		WP063/040	B 14		28	37	2.2	100	W063		B 5
	11	47	0.9	80	W040		B 5/B 14		19	55	2.7	150		WP063/063	B 14
	10	64	1.3	90		WP063/040	B 14		16	63	2.3	180		WP063/063	B 14
	7.5	78	0.9	120		WP063/040	B 14		12	75	1.7	240		WP063/063	B 14
	30	26	3.8	30	W050		B 5/B 14		9.3	85	1.4	300		WP063/063	B 14
	23	32	2.7	40	W050		B 5/B 14								
	18	38	2.2	50	W050		B 5/B 14								
	15	42	1.8	60	W050		B 5/B 14								
	15	51	2.4	60		WP063/050	B 14								
	12	60	1.9	75		WP063/050	B 14								
	11	49	1.4	80	W050		B 5/B 14								
	10	65	2.2	90		WP063/050	B 14								
	9	55	1.2	100	W050		B 5/B 14								
	7.5	79	1.5	120		WP063/050	B 14								
	6.0	90	1.3	150		WP063/050	B 14								
	5.0	99	1.0	180		WP063/050	B 14								
	3.8	114	0.8	240		WP063/050	B 14								
	11,3	53	2.4	80	W063		B 5								
	9,0	60	2.0	100	W063		B 5								
	7.5	81	2.9	120		WP063/063	B 14								
	6.0	94	2.2	150		WP063/063	B 14								
	5.0	103	1.9	180		WP063/063	B 14								
	3.8	120	1.4	240		WP063/063	B 14								
	3.0	131	1.1	300		WP063/063	B 14								
Q.18								Q.18							
63 A 2 (2800 min ⁻¹)	560	3	4.8	5	W030		B 5/B 14		280	5	3.4	5	W030		B 5/B 14
	373	4	3.7	7.5	W030		B 5/B 14		187	8	2.6	7.5	W030		B 5/B 14
	280	5	3.0	10	W030		B 5/B 14		140	10	2.0	10	W030		B 5/B 14
	187	8	2.1	15	W030		B 5/B 14		93	15	1.4	15	W030		B 5/B 14
	140	10	1.4	20	W030		B 5/B 14		70	18	1.0	20	W030		B 5/B 14
	112	12	1.3	25	W030		B 5/B 14		56	22	0.9	25	W030		B 5/B 14
	93	14	1.3	30	W030		B 5/B 14		47	25	0.9	30	W030		B 5/B 14
	70	17	0.9	40	W030		B 5/B 14								
	56	20	0.8	50	W030		B 5/B 14								
	140	10	3.0	20	W040		B 5/B 14								
	112	12	2.3	25	W040		B 5/B 14								
	93	14	2.7	30	W040		B 5/B 14								
	70	18	1.9	40	W040		B 5/B 14								
	56	21	1.5	50	W040		B 5/B 14								
	47	24	1.2	60	W040		B 5/B 14								
	47	27	1.7	60		WP063/040	B 14								
	37	32	1.4	75		WP063/040	B 14								
	35	29	0.9	80	W040		B 5/B 14								
	31	36	1.6	90		WP063/040	B 14								
	23	43	1.1	120		WP063/040	B 14								
	56	22	2.6	50	W050		B 5/B 14								
	47	25	2.1	60	W050		B 5/B 14								
	47	27	3.0	60		WP063/050	B 14								
	37	32	2.3	75		WP063/050	B 14								
	35	29	0.9	80		WP063/050	B 14								
	31	36	1.6	90		WP063/050	B 14								
	23	43	1.1	120		WP063/050	B 14								
	56	22	2.6	50	W050		B 5/B 14								
	47	25	2.1	60	W050		B 5/B 14								
	47	27	3.0	60		WP063/050	B 14								
	37	32	2.3	75		WP063/050	B 14								
	35	29	0.9	80		WP063/050	B 14								
	31	36	1.6	90		WP063/050	B 14								
	23	43	1.1	120		WP063/050	B 14								
	56	22	2.6	50	W050		B 5/B 14								
	47	25	2.1	60	W050		B 5/B 14								
	47	27	3.0	60		WP063/050	B 14								
	37	32	2.3	75		WP063/050	B 14								

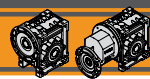


Dati tecnici

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i			
Q.18								Q.22							
71 A 6 (900 min ⁻¹)	180	8	5.7	5	W040		B 5/B 14	63 C 4 (1400 min ⁻¹)	56	29	2.5	25	W050		B 5/B 14
	120	12	4.2	7.5	W040		B 5/B 14		47	32	2.7	30	W050		B 5/B 14
	90	16	3.3	10	W040		B 5/B 14		35	40	1.9	40	W050		B 5/B 14
	60	22	2.4	15	W040		B 5/B 14		28	47	1.5	50	W050		B 5/B 14
	45	28	1.6	20	W040		B 5/B 14		23	54	1.3	60	W050		B 5/B 14
	36	33	1.3	25	W040		B 5/B 14		23	63	1.6	60		WP063/050	B 14
	30	38	1.5	30	W040		B 5/B 14		19	74	1.2	75		WP063/050	B 14
	23	46	1.0	40	W040		B 5/B 14		18	65	0.9	80	W050		B 5/B 14
									16	86	1.5	90		WP063/050	B 14
	36	34	2.2	25	W050		B 5/B 14		14	74	0.8	100	W050		B 5/B 14
	30	39	2.5	30	W050		B 5/B 14		12	104	1.1	120		WP063/050	B 14
	23	47	1.8	40	W050		B 5/B 14		9.3	121	0.9	150		WP063/050	B 14
	18	56	1.4	50	W050		B 5/B 14								
	15	63	1.2	60	W050		B 5/B 14		23	57	2.2	60	W063		B 5
	15	76	1.6	60		WP071/050	B 14		23	64	2.9	60		WP063/063	B 14
	12	90	1.2	75		WP071/050	B 14		19	77	2.2	75		WP063/063	B 14
	11	73	0.9	80	W050		B 5/B 14		18	68	1.7	80	W063		B 5
	10	98	1.5	90		WP071/050	B 14		16	85	2.8	90		WP063/063	B 14
									14	78	1.5	100	W063		B 5
	18	58	2.6	50	W063		B 5/B 14		12	106	1.9	120		WP063/063	B 14
	15	66	2.1	60	W063		B 5/B 14		9.3	126	1.5	150		WP063/063	B 14
	15	75	3.1	60		WP071/063	B 14		7.8	140	1.3	180		WP063/063	B 14
	12	88	2.3	75		WP071/063	B 14		5.8	166	0.9	240		WP063/063	B 14
	11	79	1.6	80	W063		B 5/B 14		4.7	185	0.8	300		WP063/063	B 14
	10	101	2.8	90		WP071/063	B 14								
	9	90	1.4	100	W063		B 5/B 14								
	7.5	121	1.9	120		WP071/063	B 14								
	6.0	140	1.5	150		WP071/063	B 14								
	5.0	155	1.3	180		WP071/063	B 14								
	11	84	2.5	80	W075		B 5								
	9	96	2.0	100	W075		B 5								
	7.5	128	3.0	120		WP071/075	B 14								
	6.0	149	2.3	150		WP071/075	B 14								
	5.0	165	1.9	180		WP071/075	B 14								
	3.8	193	1.4	240		WP071/075	B 14								
	3.0	213	1.1	300		WP071/075	B 14								
	5.0	179	2.9	180		WP071/090	B 14								
	3.8	211	2.1	240		WP071/090	B 14								
	3.0	236	1.7	300		WP071/090	B 14								
Q.22								Q.25							
63 C 4 (1400 min ⁻¹)	280	6	2.8	5	W030		B 5/B 14	63 B 2 (2800 min ⁻¹)	560	4	3.4	5	W030		B 5/B 14
	187	10	2.1	7.5	W030		B 5/B 14		373	6	2.7	7.5	W030		B 5/B 14
	140	13	1.7	10	W030		B 5/B 14		280	7	2.2	10	W030		B 5/B 14
	93	18	1.2	15	W030		B 5/B 14		187	11	1.5	15	W030		B 5/B 14
	70	23	0.8	20	W030		B 5/B 14		140	14	1.0	20	W030		B 5/B 14
									112	17	0.9	25	W030		B 5/B 14
									93	19	1.0	30	W030		B 5/B 14
	280	7	6.2	5	W040		B 5/B 14		140	14	2.2	20	W040		B 5/B 14
	187	10	4.5	7.5	W040		B 5/B 14		112	17	1.6	25	W040		B 5/B 14
	140	13	3.6	10	W040		B 5/B 14		93	20	1.9	30	W040		B 5/B 14
	93	18	2.5	15	W040		B 5/B 14		70	25	1.4	40	W040		B 5/B 14
	70	23	1.7	20	W040		B 5/B 14		56	29	1.1	50	W040		B 5/B 14
	56	28	1.4	25	W040		B 5/B 14		47	34	0.9	60	W040		B 5/B 14
	47	32	1.5	30	W040		B 5/B 14		47	37	1.2	60		WP063/040	B 14
	35	39	1.1	40	W040		B 5/B 14		37	44	1.0	75		WP063/040	B 14
	28	45	0.9	50	W040		B 5/B 14		31	50	1.1	90		WP063/040	B 14
	23	62	0.9	60		WP063/040	B 14		23	60	0.8	120		WP063/040	B 14
	19	73	0.7	75		WP063/040	B 14								
	16	83	0.9	90		WP063/040	B 14								
									70	25	2.3	40	W050		B 5/B 14
									56	30	1.9	50	W050		B 5/B 14
									47	35	1.5	60	W050		B 5/B 14
									47	38	2.1	60		WP063/050	B 14
									37	45	1.7	75		WP063/050	B 14
									35	42	1.1	80	W050		B 5/B 14
									31	51	1.9	90		WP063/050	B 14
									28	49	0.9	100	W050		B 5/B 14
									23	62	1.4	120		WP063/050	B 14
									19	74	1.1	150		WP063/050	B 14
									16	83	0.9	180		WP063/050	B 14
									35	44	2.0	80	W063		B 5
									31	53	3.5	90		WP063/063	B 14
									28	51	1.6	100	W063		B 5

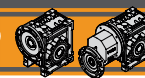
HTTW/HTTWP



Dati tecnici

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i																	
Q.25								Q.25																					
HTT								HTT																					
63 B 2 (2000 min ⁻¹)	23	6.5	2.5	120		WP063/063	B 14	71 B 6 (900 min ⁻¹)	45	40	2.0	20	W050		B 5/B 14														
	19	7.6	2.0	150		WP063/063	B 14		36	48	1.6	25	W050		B 5/B 14														
	16	8.7	1.6	180		WP063/063	B 14		30	54	1.8	30	W050		B 5/B 14														
	12	10.4	1.2	240		WP063/063	B 14		23	66	1.3	40	W050		B 5/B 14														
	9.3	11.8	1.0	300		WP063/063	B 14		18	78	1.0	50	W050		B 5/B 14														
71 A 4 (1400 min ⁻¹)	280	8	5.5	5	W040		B 5/B 14	15	88	0.9	60	W050		B 5/B 14															
	187	11	4.0	7.5	W040		B 5/B 14	15	106	1.2	60		WP071/050	B 14															
	140	14	3.1	10	W040		B 5/B 14	12	125	0.9	75		WP071/050	B 14															
	93	21	2.2	15	W040		B 5/B 14	10	136	1.1	90		WP071/050	B 14															
	70	27	1.5	20	W040		B 5/B 14	23	69	2.3	40	W063		B 5/B 14															
	56	32	1.2	25	W040		B 5/B 14		18	81	1.9	50	W063		B 5/B 14														
	47	36	1.3	30	W040		B 5/B 14		15	92	1.5	60	W063		B 5/B 14														
	35	44	0.9	40	W040		B 5/B 14		15	105	2.2	60		WP071/063	B 14														
	70	27	2.7	20	W050		B 5/B 14			12	123	1.7	75		WP071/063	B 14													
										11	110	1.2	80	W063		B 5/B 14													
										10	140	2.0	90		WP071/063	B 14													
										9	125	1.0	100	W063		B 5/B 14													
										7.5	168	1.4	120		WP071/063	B 14													
	28	54	1.3	50	W050		B 5/B 14		6.0	195	1.1	150		WP071/063	B 14														
	23	61	1.1	60	W050		B 5/B 14		5.0	215	0.9	180		WP071/063	B 14														
	23	71	1.4	60		WP071/050	B 14	11	117	1.8	80	W075		B 5															
	19	84	1.1	75		WP071/050	B 14																						
	18	74	0.8	80	W050		B 5/B 14																						
	16	98	1.3	90		WP071/050	B 14																						
	28	56	2.4	50	W063		B 5/B 14																						
	23	64	2.0	60	W063		B 5/B 14								7.5	178	2.2	120		WP071/075	B 14								
	23	73	2.6	60		WP071/063	B 14								6.0	222	1.4	180		WP071/075	B 14								
	19	88	2.0	75		WP071/063	B 14								5.0	229	1.4	180		WP071/075	B 14								
	18	78	1.5	80	W063		B 5/B 14								3.8	268	1.0	240		WP071/075	B 14								
	16	96	2.4	90		WP071/063	B 14								3.0	296	0.8	300		WP071/075	B 14								
	14	89	1.3	100	W063		B 5/B 14	6.0	248	2.6	150		WP071/090	B 14															
	12	120	1.7	120		WP071/063	B 14																						
	9.3	143	1.3	150		WP071/063	B 14																						
	7.8	159	1.1	180		WP071/063	B 14																						
	18	82	2.3	80	W075		B 5																						
	16	105	3.6	90		WP071/075	B 14	71 A 2 (2000 min ⁻¹)	560	6	5.1	5	W040		B 5/B 14														
	14	96	1.8	100	W075		B 5		373	8	3.7	7.5	W040		B 5/B 14														
	12	130	2.6	120		WP071/075	B 14		280	11	3.0	10	W040		B 5/B 14														
	9.3	153	2.0	150		WP071/075	B 14		187	16	2.2	15	W040		B 5/B 14														
	7.8	171	1.7	180		WP071/075	B 14		140	21	1.5	20	W040		B 5/B 14														
	5.8	201	1.2	240		WP071/075	B 14		112	25	1.1	25	W040		B 5/B 14														
	4.7	226	1.0	300		WP071/075	B 14		93	29	1.3	30	W040		B 5/B 14														
	7.8	177	2.6	180		WP071/090	B 14		70	37	0.9	40	W040		B 5/B 14														
									112	26	2.0	25	W050		B 5/B 14														
	5.8	213	2.0	240		WP071/090	B 14																						
4.7	241	1.5	300		WP071/090	B 14																							
71 B 6 (900 min ⁻¹)	180	11	4.1	5	W040		B 5/B 14						47	56	1.4	60	WP071/050	B 14											
	120	17	3.1	7.5	W040		B 5/B 14																						
	90	22	2.4	10	W040		B 5/B 14																						
	60	31	1.8	15	W040		B 5/B 14																						
	45	39	1.1	20	W040		B 5/B 14																						
	36	46	0.9	25	W040		B 5/B 14		56	46	2.2	50	W063		WP071/063	B 5/B 14	B 14	B 14											
	30	53	1.1	30	W040		B 5/B 14																						
	23	64	0.8	40	W040		B 5/B 14																						
	71 B 6 (900 min ⁻¹)	180	11	4.1	5	W040																							
71 B 6 (900 min ⁻¹)	120	17	3.1	7.5	W040		B 5/B 14	71 A 2 (2000 min ⁻¹)					47	56	1.4	60	WP071/050	B 14											
	90	22	2.4	10	W040		B 5/B 14																						
	60	31	1.8	15	W040		B 5/B 14																						
	45	39	1.1	20	W040		B 5/B 14																						
	36	46	0.9	25	W040		B 5/B 14																						
	30	53	1.1	30	W040		B 5/B 14																						
	23	64	0.8	40	W040		B 5/B 14																						

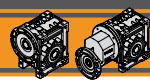


Dati tecnici

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i			
Q.37								Q.37							
71 A 2 (2000 min ⁻¹)	31	78	2.4	90				71 B 4 (1400 min ⁻¹)	18	129	2.3	80			
	28	76	1.1	100	W063	WP071/063	B 14		14	151	1.8	100	W090		B 5
	23	96	1.7	120		WP071/063	B 5/B 14		12	196	2.9	120	W090		B 5
	19	113	1.3	150		WP071/063	B 14		9.3	226	2.3	150		WP071/090	B 14
	16	129	1.1	180		WP071/063	B 14		7.8	263	1.8	180		WP071/090	B 14
									5.8	315	1.3	240		WP071/090	B 14
	35	69	2.0	80	W075		B 5		4.7	356	1.0	300		WP071/090	B 14
	28	80	1.6	100	W075		B 5								
	23	101	2.6	120		WP071/075	B 14		80 A 6 (900 min ⁻¹)	180	17	5.2	5	W050	B 5/B 14
	19	119	2.0	150		WP071/075	B 14		120	25	3.7	7.5	W050		B 5/B 14
	16	136	1.7	180		WP071/075	B 14		90	33	2.9	10	W050		B 5/B 14
	12	163	1.3	240		WP071/075	B 14		60	47	2.0	15	W050		B 5/B 14
	9.3	186	1.0	300		WP071/075	B 14		45	59	1.4	20	W050		B 5/B 14
									36	71	1.1	25	W050		B 5/B 14
	16	145	2.6	180		WP071/090	B 14		30	80	1.2	30	W050		B 5/B 14
	12	178	2.0	240		WP071/090	B 14								
	9.3	204	1.6	300		WP071/090	B 14								
71 B 4 (1400 min ⁻¹)	280	11	3.7	5	W040		B 5/B 14	71 B 4 (1400 min ⁻¹)	45	61	2.5	20	W063		B 5/B 14
	187	16	2.7	7.5	W040		B 5/B 14		36	74	1.9	25	W063		B 5/B 14
	140	21	2.1	10	W040		B 5/B 14		30	82	2.3	30	W063		B 5/B 14
	93	31	1.5	15	W040		B 5/B 14		23	102	1.6	40	W063		B 5/B 14
	70	39	1.0	20	W040		B 5/B 14		18	120	1.3	50	W063		B 5/B 14
	56	47	0.8	25	W040		B 5/B 14		15	137	1.0	60	W063		B 5/B 14
	47	53	0.9	30	W040		B 5/B 14		15	155	1.5	60		WP080/063	B 14
									12	182	1.1	75		WP080/063	B 14
									10	208	1.3	90		WP080/063	B 14
	93	31	2.6	15	W050		B 5/B 14		18	126	1.9	50	W075		B 5/B 14
	70	40	1.8	20	W050		B 5/B 14		15	144	1.6	60	W075		B 5/B 14
	56	48	1.5	25	W050		B 5/B 14		15	159	2.5	60		WP080/075	B 14
	47	55	1.6	30	W050		B 5/B 14		12	190	1.8	75		WP080/075	B 14
	35	68	1.1	40	W050		B 5/B 14		11	173	1.2	80	W075		B 5/B 14
	28	80	0.9	50	W050		B 5/B 14		10	218	2.1	90		WP080/075	B 14
	23	91	0.8	60	W050		B 5/B 14		9	196	1.0	100	W075		B 5/B 14
	23	105	1.0	60		WP071/050	B 14		7.5	263	1.5	120		WP080/075	B 14
	19	124	0.7	75		WP071/050	B 14								
	16	145	0.9	90		WP071/050	B 14		11	188	1.9	80	W090		B 5/B 14
									10	229	3.5	90		WP080/090	B 14
	35	71	2.0	40	W063		B 5/B 14		9	216	1.5	100	W090		B 5/B 14
	28	83	1.6	50	W063		B 5/B 14		7.5	235	2.9	120		WP080/090	B 14
	23	95	1.3	60	W063		B 5/B 14		6.0	329	1.7	150		WP080/090	B 14
	23	108	1.7	60		WP071/063	B 14		5.0	367	1.4	180		WP080/090	B 14
	19	130	1.3	75		WP071/063	B 14								
	18	115	1.0	80	W063		B 5/B 14		6.0	352	3.0	150		WP080/110	B 14
	16	142	1.6	90		WP071/063	B 14		5.0	395	2.3	180		WP080/110	B 14
	14	131	0.9	100	W063		B 5/B 14		3.8	471	1.7	240		WP080/110	B 14
	12	178	1.2	120		WP071/063	B 14		3.0	531	1.3	300		WP080/110	B 14
	9.3	211	0.9	150		WP071/063	B 14								
	7.8	236	0.8	180		WP071/063	B 14		3.8	471	2.4	240		WP080/130	B 14
									3.0	554	1.8	300		WP080/130	B 14
	28	87	2.4	50	W075		B 5	Q.55							
	23	100	2.1	60	W075		B 5	71 B 2 (2000 min ⁻¹)	560	8	3.4	5	W040		B 5/B 14
	23	111	2.8	60		WP071/075	B 14		373	13	2.5	7.5	W040		B 5/B 14
	19	134	2.1	75		WP071/075	B 14		280	16	2.0	10	W040		B 5/B 14
	18	121	1.6	80	W075		B 5		187	24	1.5	15	W040		B 5/B 14
	16	156	2.4	90		WP071/075	B 14		140	31	1.0	20	W040		B 5/B 14
	14	141	1.2	100	W075		B 5								
	12	193	1.7	120		WP071/075	B 14								
	9.3	226	1.4	150		WP071/075	B 14								
	7.8	254	1.2	180		WP071/075	B 14								
	5.8	297	0.8	240		WP071/075	B 14								
	4.7	334	0.7	300		WP071/075	B 14								

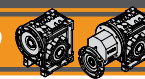
HTTW/HTTWP



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Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i			
Q.55								Q.55							
71 B 2 (2000 min ⁻¹)	140	32	1.7	20	W050		B 5/B 14	71 C 4 (1400 min ⁻¹)	35	110	2.1	40	W075		B 5
	112	38	1.3	25	W050		B 5/B 14		28	129	1.6	50	W075		B 5
	93	44	1.5	30	W050		B 5/B 14		23	149	1.4	60	W075		B 5
	70	56	1.1	40	W050		B 5/B 14		23	165	1.9	60		WP071/075	B 14
	56	67	0.9	50	W050		B 5/B 14		19	199	1.4	75		WP071/075	B 14
									18	180	1.1	80	W075		B 5
	47	83	1.0	60		WP071/050	B 14		16	232	1.6	90		WP071/075	B 14
	37	99	0.8	75		WP071/050	B 14								
	31	113	0.9	90		WP071/050	B 14		14	210	0.8	100	W075		B 5
									12	287	1.2	120		WP071/075	B 14
	70	57	2.0	40	W063		B 5/B 14		9.3	336	0.9	150		WP071/075	B 14
	56	68	1.5	50	W063		B 5/B 14		7.8	377	0.8	180		WP071/075	B 14
	47	79	1.2	60	W063		B 5/B 14								
	47	86	1.8	60		WP071/063	B 14		18	192	1.6	80	W090		B 5
	37	103	1.3	75		WP071/063	B 14		16	232	2.7	90		WP071/090	B 14
	35	98	0.9	80	W063		B 5/B 14		14	225	1.2	100	W090		B 5
	31	116	1.6	90		WP071/063	B 14		12	291	2.0	120		WP071/090	B 14
	23	143	1.1	120		WP071/063	B 14		9.3	336	1.5	150		WP071/090	B 14
	19	168	0.9	150		WP071/063	B 14		7.8	390	1.2	180		WP071/090	B 14
									5.8	468	0.9	240		WP071/090	B 14
71 B 2 (2000 min ⁻¹)	47	79	1.8	60	W075		B 5	80 A 4 (1400 min ⁻¹)	280	17	4.5	5	W050		B 5/B 14
	47	88	2.9	60		WP071/075	B 14		187	24	3.2	7.5	W050		B 5/B 14
	37	106	2.2	75		WP071/075	B 14		140	32	2.6	10	W050		B 5/B 14
	35	96	1.3	80	W075		B 5		93	46	1.8	15	W050		B 5/B 14
	31	121	2.5	90		WP071/075	B 14		70	59	1.2	20	W050		B 5/B 14
	28	113	1.0	100	W075		B 5		56	71	1.0	25	W050		B 5/B 14
	23	150	1.8	120		WP071/075	B 14		47	81	1.1	30	W050		B 5/B 14
	19	176	1.4	150		WP071/075	B 14								
	16	202	1.2	180		WP071/075	B 14		70	61	2.2	20	W063		B 5/B 14
	12	243	0.9	240		WP071/075	B 14		56	73	1.8	25	W063		B 5/B 14
									47	84	2.0	30	W063		B 5/B 14
	35	107	2.2	80	W090		B 5		35	105	1.4	40	W063		B 5/B 14
	28	126	1.7	100	W090		B 5		28	124	1.1	50	W063		B 5/B 14
	23	159	2.9	120		WP071/090	B 14		23	142	0.9	60	W063		B 5/B 14
	19	188	2.2	150		WP071/090	B 14		23	161	1.2	60		WP080/063	B 14
	16	215	1.8	180		WP071/090	B 14		19	193	0.9	75		WP080/063	B 14
	12	265	1.3	240		WP071/090	B 14		16	212	1.1	90		WP080/063	B 14
	9.3	303	1.0	300		WP071/090	B 14								
71 C 4 (1400 min ⁻¹)	280	17	2.5	5	W040		B 5/B 14	71 C 4 (1400 min ⁻¹)	35	110	2.1	40	W075		B 5/B 14
	187	24	1.8	7.5	W040		B 5/B 14		28	129	1.6	50	W075		B 5/B 14
	140	32	1.4	10	W040		B 5/B 14		23	149	1.4	60	W075		B 5/B 14
	93	46	1.0	15	W040		B 5/B 14		23	165	1.9	60		WP080/075	B 14
									19	199	1.4	75		WP080/075	B 14
	140	32	2.6	10	W050		B 5/B 14		18	180	1.1	80	W075		B 5/B 14
	93	46	1.8	15	W050		B 5/B 14		16	232	1.6	90		WP080/075	B 14
	70	59	1.2	20	W050		B 5/B 14		14	210	0.8	100	W075		B 5/B 14
	56	71	1.0	25	W050		B 5/B 14		12	287	1.2	120		WP080/075	B 14
	47	81	1.1	30	W050		B 5/B 14								
	35	101	0.8	40	W050		B 5/B 14		18	192	1.6	80	W090		B 5/B 14
									16	232	2.7	90		WP080/090	B 14
	70	61	2.2	20	W063		B 5/B 14		14	225	1.2	100	W090		B 5/B 14
	56	73	1.8	25	W063		B 5/B 14		12	291	2.0	120		WP080/090	B 14
	47	84	2.0	30	W063		B 5/B 14		9.3	336	1.5	150		WP080/090	B 14
	35	105	1.4	40	W063		B 5/B 14		7.8	390	1.2	180		WP080/090	B 14
	28	124	1.1	50	W063		B 5/B 14								
	23	142	0.9	60	W063		B 5/B 14								
	23	161	1.2	60		WP071/063	B 14								
	19	193	0.9	75		WP071/063	B 14								
	16	212	1.1	90		WP071/063	B 14								
	12	265	0.8	120		WP071/063	B 14								

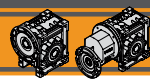


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Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i				
Q.55								Q.75								
HTT								HTT								
80 A 4 (1400 min ⁻¹)	18	204	2.6	80	W110		B 5	80 A 2 (2800 min ⁻¹)	560	12	4.6	5	W050		B 5/B 14	
	14	240	2.0	100	W110		B 5		373	17	3.3	7.5	W050		B 5/B 14	
	9.3	358	2.5	150		WP080/110	B 14		280	23	2.7	10	W050		B 5/B 14	
	7.8	410	2.0	180		WP080/110	B 14		187	33	1.9	15	W050		B 5/B 14	
	5.8	503	1.4	240		WP080/110	B 14		140	43	1.3	20	W050		B 5/B 14	
	4.7	574	1.1	300		WP080/110	B 14		112	52	1.0	25	W050		B 5/B 14	
									93	60	1.1	30	W050		B 5/B 14	
	7.8	424	2.6	180		WP080/130	B 14		140	43	2.4	20	W063		B 5/B 14	
	5.8	512	1.9	240		WP080/130	B 14		112	53	1.8	25	W063		B 5/B 14	
	4.7	585	1.5	300		WP080/130	B 14		93	61	2.1	30	W063		B 5/B 14	
80 B 6 (900 min ⁻¹)	180	26	3.4	5	W050		B 5/B 14	70	78	1.4	40	W063		B 5/B 14		
	120	37	2.5	7.5	W050		B 5/B 14		56	93	1.1	50	W063		B 5/B 14	
	90	49	1.9	10	W050		B 5/B 14		47	107	0.9	60	W063		B 5/B 14	
	60	69	1.4	15	W050		B 5/B 14		47	117	1.3	60		WP080/063	B 14	
	45	88	0.9	20	W050		B 5/B 14		37	141	1.0	75		WP080/063	B 14	
									31	158	1.2	90		WP080/063	B 14	
	60	71	2.5	15	W063		B 5/B 14		70	80	2.3	40	W075		B 5/B 14	
	45	91	1.7	20	W063		B 5/B 14		56	96	1.7	50	W075		B 5/B 14	
	36	109	1.3	25	W063		B 5/B 14		47	111	1.4	60	W075		B 5/B 14	
	30	123	1.5	30	W063		B 5/B 14		47	120	2.1	60		WP080/075	B 14	
	23	152	1.1	40	W063		B 5/B 14		37	145	1.6	75		WP080/075	B 14	
	18	178	0.8	50	W063		B 14		35	139	1.0	80	W075		B 5/B 14	
	15	230	1.0	60		WP080/063	B 14		31	165	1.9	90		WP080/075	B 14	
	12	270	0.8	75		WP080/063	B 14		28	161	0.8	100	W075		B 5/B 14	
	10	309	0.9	90		WP080/063	B 14		23	205	1.3	120		WP080/075	B 14	
	36	112	2.0	25	W075		B 5/B 14		35	145	1.6	80	W090		B 5/B 14	
	30	128	2.4	30	W075		B 5/B 14		31	171	3.1	90		WP080/090	B 14	
	23	159	1.7	40	W075		B 5/B 14		28	171	1.2	100	W090		B 5/B 14	
	18	187	1.3	50	W075		B 5/B 14		23	217	2.1	120		WP080/090	B 5/B 14	
	15	214	1.1	60	W075		B 5/B 14		19	256	1.6	150		WP080/090	B 14	
	15	237	1.7	60		WP080/075	B 14		16	293	1.3	180		WP080/090	B 14	
	12	283	1.2	75		WP080/075	B 14		28	179	2.0	100	W110		B 5	
	11	257	0.8	80	W075		B 5/B 14		19	267	2.8	150		WP080/110	B 14	
	10	324	1.4	90		WP080/075	B 14		16	307	2.2	180		WP080/110	B 14	
	7.5	391	1.0	120		WP080/075	B 14		12	379	1.6	240		WP080/110	B 14	
	15	228	1.7	60	W090		B 5/B 14		9.3	444	1.2	300		WP080/110	B 14	
	15	247	2.7	60		WP080/090	B 14		16	316	2.9	180		WP080/130	B 14	
	12	296	2.0	75		WP080/090	B 14		12	385	2.2	240		WP080/130	B 14	
	11	280	1.2	80	W090		B 5/B 14		9.3	444	1.7	300		WP080/130	B 14	
	10	340	2.3	90		WP080/090	B 14		80 B 4 (1400 min ⁻¹)	280	23	3.3	5	W050		B 5/B 14
	9	321	1.0	100	W090		B 5/B 14			187	33	2.4	7.5	W050		B 5/B 14
	7.5	350	1.9	120		WP080/090	B 14			140	43	1.9	10	W050		B 5/B 14
	6.0	489	1.2	150		WP080/090	B 14			93	63	1.3	15	W050		B 5/B 14
	5.0	546	0.9	180		WP080/090	B 14			70	81	0.9	20	W050		B 5/B 14
										56	97	0.7	25	W050		B 5/B 14
	11	294	2.1	80	W110		B 5			47	111	0.8	30	W050		B 5/B 14
	9	344	1.6	100	W110		B 5									
	7.5	446	2.7	120		WP080/110	B 14									
	6.0	523	2.0	150		WP080/110	B 14									
	5.0	587	1.6	180		WP080/110	B 14									
	3.8	700	1.1	240		WP080/110	B 14									
	3.0	789	0.9	300		WP080/110	B 14									
	5.0	587	2.2	180		WP080/130	B 14									
	3.8	700	1.6	240		WP080/130	B 14									
	3.0	824	1.2	300		WP080/130	B 14									

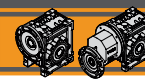
HTTW/HTTWP



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Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i			
Q.75								Q.75							
HTT								HTT							
800 4 (1400 min ⁻¹)	93	64	2.4	15	W063		B 5/B 14	905 6 (900 min ⁻¹)	180	35	4.6	5	W063		B 5/B 14
	70	83	1.6	20	W063		B 5/B 14		120	51	3.3	7.5	W063		B 5/B 14
	56	100	1.4	25	W063		B 5/B 14		90	67	2.6	10	W063		B 5/B 14
	47	115	1.4	30	W063		B 5/B 14		60	97	1.8	15	W063		B 5/B 14
	35	143	1.0	40	W063		B 5/B 14		45	124	1.2	20	W063		B 5/B 14
	28	169	0.8	50	W063		B 5/B 14		36	149	0.9	25	W063		B 5/B 14
	23	220	0.9	60		WP080/063	B 14		30	167	1.1	30	W063		B 5/B 14
	19	263	0.7	75		WP080/063	B 14		45	127	2.0	20	W075		B 5/B 14
	16	289	0.8	90		WP080/063	B 14		36	153	1.5	25	W075		B 5/B 14
									30	174	1.8	30	W075		B 5/B 14
									23	216	1.2	40	W075		B 5/B 14
	70	85	2.6	20	W075		B 5/B 14		15	323	1.3	60		WP090/075	B 5/B 14
	56	102	2.0	25	W075		B 5/B 14		12	386	1.0	75		WP090/075	B 5/B 14
	47	118	2.3	30	W075		B 5/B 14		10	442	1.2	90		WP090/075	B 5/B 14
	35	149	1.6	40	W075		B 5/B 14		8	533	0.8	120		WP090/075	B 5/B 14
	28	177	1.2	50	W075		B 5/B 14								
	23	203	1.0	60	W075		B 5/B 14		23	229	2.0	40	W090		B 5/B 14
	23	226	1.4	60		WP080/075	B 14		18	271	1.5	50	W090		B 5/B 14
	19	271	1.0	75		WP080/075	B 14		15	310	1.2	60	W090		B 5/B 14
	18	246	0.8	80	W075		B 5/B 14		15	337	2.2	60		WP090/090	B 5/B 14
16	316	1.2	90		WP080/075	B 14	12	404	1.6	75		WP090/090	B 5/B 14		
							10	463	1.9	90		WP090/090	B 5/B 14		
12	391	0.9	120		WP080/075	B 14	8	571	1.3	120		WP090/090	B 5/B 14		
							6	667	1.0	150		WP090/090	B 5/B 14		
35	156	2.6	40		W090		B 5/B 14	5	744	0.8	180		WP090/090	B 5/B 14	
28	184	1.9	50	W090		B 5/B 14									
23	212	1.5	60	W090		B 5/B 14	18	283	2.7	50	W110		B 5/B 14		
23	235	2.2	60		WP080/090	B 14	15	325	2.1	60	W110		B 5/B 14		
19	282	1.6	75		WP080/090	B 14	15	351	3.7	60		WP090/110	B 5/B 14		
18	262	1.2	80	W090		B 5/B 14	12	421	2.9	75		WP090/110	B 5/B 14		
16	316	2.0	90		WP080/090	B 14	11	401	1.5	80	W110		B 5/B 14		
14	307	0.9	100	W090		B 5/B 14	10	470	3.1	90		WP090/110	B 5/B 14		
12	397	1.5	120		WP080/090	B 14	9	470	1.2	100	W110		B 5/B 14		
9.3	459	1.1	150		WP080/090	B 14	8	608	2.2	120		WP090/110	B 5/B 14		
7.8	532	0.9	180		WP080/090	B 14	6	714	1.6	150		WP090/110	B 5/B 14		
							5	800	1.3	180		WP090/110	B 5/B 14		
23	224	2.6	60	W110		B 5	4	955	0.9	240		WP090/110	B 5/B 14		
19	290	2.9	75		WP080/110	B 14	3	1076	0.7	300		WP090/110	B 5/B 14		
18	278	1.9	80	W110		B 5									
16	325	3.2	90		WP080/110	B 14									
14	327	1.5	100	W110		B 5									
12	415	2.4	120		WP080/110	B 14									
9.3	489	1.9	150		WP080/110	B 14									
7.8	560	1.5	180		WP080/110	B 14									
5.8	686	1.1	240		WP080/110	B 14									
4.7	782	0.8	300		WP080/110	B 14									
14	327	2.2	100	W130		B 5		1.1							
9.3	504	2.4	150		WP080/130	B 14		800 2 (2000 min ⁻¹)	560	17	3.2	5	W050		B 5/B 14
7.8	578	1.9	180		WP080/130	B 14			373	25	2.3	7.5	W050		B 5/B 14
5.8	698	1.4	240		WP080/130	B 14			280	33	1.8	10	W050		B 5/B 14
4.7	797	1.1	300		WP080/130	B 14			187	48	1.3	15	W050		B 5/B 14
									140	63	0.9	20	W050		B 5/B 14
									187	48	2.4	15	W063		B 5/B 14
									140	63	1.6	20	W063		B 5/B 14
									112	78	1.2	25	W063		B 5/B 14
									93	89	1.4	30	W063		B 5/B 14
									70	114	1.0	40	W063		B 5/B 14
									47	172	0.9	60		WP080/063	B 14
									37	207	0.7	75		WP080/063	B 14
									31	232	0.8	90		WP080/063	B 14



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Technical data

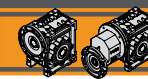
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i			
1.1								1.1							
80 B 2 (2000 min ⁻¹)	93	91	2.3	30	W075		B 5/B 14	80 C 4 (1400 min ⁻¹)	35	228	1.8	40	W090		B 5/B 14
	70	117	1.6	40	W075		B 5/B 14		28	270	1.3	50	W090		B 5/B 14
	56	141	1.2	50	W075		B 5/B 14		23	311	1.1	60	W090		B 5/B 14
	47	162	1.0	60	W075		B 5/B 14		23	344	1.5	60		WP080/090	B 14
									19	414	1.1	75		WP080/090	B 14
	47	176	1.4	60		WP080/075	B 14		18	384	0.8	80	W090		B 5/B 14
	37	212	1.1	75		WP080/075	B 14		16	463	1.4	90		WP080/090	B 14
	31	242	1.3	90		WP080/075	B 14		12	582	1.0	120		WP080/090	B 14
	23	300	0.9	120		WP080/075	B 14		9.3	673	0.8	150		WP080/090	B 14
	56	146	1.9	50	W090		B 5/B 14		28	285	2.3	50	W110		B 5
	47	169	1.5	60	W090		B 5/B 14		23	329	1.8	60	W110		B 5
	47	181	2.4	60		WP080/090	B 14		23	353	2.5	60		WP080/110	B 14
	37	221	1.8	75		WP080/090	B 14		19	425	2.0	75		WP080/110	B 14
	35	213	1.1	80	W090		B 5/B 14								
	31	251	2.1	90		WP080/090	B 14		18	408	1.3	80	W110		B 5
	28	251	0.9	100	W090		B 5/B 14		16	477	2.2	90		WP080/110	B 14
	23	318	1.4	120		WP080/090	B 14		14	480	1.0	100	W110		B 5
	19	375	1.1	150		WP080/090	B 14		12	609	1.6	120		WP080/110	B 14
	16	430	0.9	180		WP080/090	B 14		9.3	717	1.3	150		WP080/110	B 14
									7.8	821	1.0	180		WP080/110	B 14
80 C 4 (1400 min ⁻¹)	35	219	1.8	80	W110		B 5	18	414	2.0	80	W130		B 5	
	28	263	1.4	100	W110		B 5	16	477	3.1	90		WP080/130	B 14	
	23	331	2.5	120		WP080/110	B 14	14	480	1.5	100	W130		B 5	
	19	392	1.9	150		WP080/110	B 14	12	600	2.3	120		WP080/130	B 14	
	16	450	1.5	180		WP080/110	B 14	9.3	739	1.7	150		WP080/130	B 14	
	12	556	1.1	240		WP080/110	B 14	7.8	847	1.3	180		WP080/130	B 14	
	9.3	651	0.9	300		WP080/110	B 14	5.8	1024	0.9	240		WP080/130	B 14	
	19	403	2.5	150		WP080/130	B 14	90 S 4 (1400 min ⁻¹)	280	34	4.0	5	W063		B 5/B 14
	16	463	2.0	180		WP080/130	B 14		187	50	2.9	7.5	W063		B 5/B 14
	12	565	1.5	240		WP080/130	B 14		140	65	2.3	10	W063		B 5/B 14
	9.3	651	1.2	300		WP080/130	B 14		93	95	1.6	15	W063		B 5/B 14
							70		122	1.1	20	W063		B 5/B 14	
280	33	2.2	5	W050		B 5/B 14	56		146	0.9	25	W063		B 5/B 14	
187	49	1.6	7.5	W050		B 5/B 14	47		169	1.0	30	W063		B 5/B 14	
140	64	1.3	10	W050		B 5/B 14									
93	92	0.9	15	W050		B 5/B 14	93		95	2.6	15	W075		B 5/B 14	
							70		125	1.8	20	W075		B 5/B 14	
280	34	4.0	5	W063		B 5/B 14	56		150	1.3	25	W075		B 5/B 14	
187	50	2.9	7.5	W063		B 5/B 14	47		173	1.6	30	W075		B 5/B 14	
140	65	2.3	10	W063		B 5/B 14	35	219	1.1	40	W075		B 5/B 14		
93	95	1.6	15	W063		B 5/B 14	23	331	0.9	60		WP090/075	B 5/B 14		
70	122	1.1	20	W063		B 5/B 14	19	397	0.7	75		WP090/075	B 5/B 14		
56	146	0.9	25	W063		B 5/B 14	16	463	0.8	90		WP090/075	B 5/B 14		
47	169	1.0	30	W063		B 5/B 14									
80 C 4 (1400 min ⁻¹)	70	125	1.8	20	W075		B 5/B 14	56	156	2.2	25	W090		B 5/B 14	
	56	150	1.3	25	W075		B 5/B 14	47	178	2.6	30	W090		B 5/B 14	
	47	173	1.6	30	W075		B 5/B 14	35	228	1.8	40	W090		B 5/B 14	
	35	219	1.1	40	W075		B 5/B 14	28	270	1.3	50	W090		B 5/B 14	
	28	259	0.8	50	W075		B 5/B 14	23	311	1.1	60	W090		B 5/B 14	
	23	331	0.9	60		WP080/075	B 14	23	344	1.5	60		WP090/090	B 5/B 14	
	19	397	0.7	75		WP080/075	B 14	19	414	1.1	75		WP090/090	B 5/B 14	
	16	463	0.8	90		WP080/075	B 14	18	384	0.8	80	W090		B 5/B 14	
								16	463	1.4	90		WP090/090	B 5/B 14	
								12	582	1.0	120		WP090/090	B 5/B 14	
								9	673	0.8	150		WP090/090	B 5/B 14	

HTTW/HTTWP



Technical data

D 18

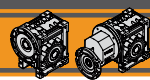


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Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i			
1.5								2.2							
90 L 4 (1400 min ⁻¹)	93	129	1.9	15	W075		B 5/B 14	90 L 2 (2800 min ⁻¹)	560	34	2.8	5	W063		B 5/B 14
	70	170	1.3	20	W075		B 5/B 14		373	51	2.0	7.5	W063		B 5/B 14
	56	205	1.0	25	W075		B 5/B 14		280	66	1.7	10	W063		B 5/B 14
	47	236	1.1	30	W075		B 5/B 14		187	97	1.2	15	W063		B 5/B 14
	35	299	0.8	40	W075		B 5/B 14		140	126	0.8	20	W063		B 5/B 14
	70	172	2.2	20	W090		B 5/B 14		187	98	1.9	15	W075		B 5/B 14
	56	212	1.6	25	W090		B 5/B 14		140	128	1.3	20	W075		B 5/B 14
	47	243	1.9	30	W090		B 5/B 14		112	158	1.0	25	W075		B 5/B 14
	35	311	1.3	40	W090		B 5/B 14		93	182	1.1	30	W075		B 5/B 14
	28	368	1.0	50	W090		B 5/B 14		140	129	2.2	20	W090		B 5/B 14
	23	424	0.8	60	W090		B 5/B 14		112	159	1.6	25	W090		B 5/B 14
	23	469	1.1	60		WP090/090	B 5/B 14		93	187	1.9	30	W090		B 5/B 14
	19	564	0.8	75		WP090/090	B 5/B 14		70	240	1.3	40	W090		B 5/B 14
	16	632	1.0	90		WP090/090	B 5/B 14		56	293	1.0	50	W090		B 5/B 14
	12	794	0.7	120		WP090/090	B 5/B 14		47	362	1.2	60		WP090/090	B 5/B 14
	35	323	2.2	40	W110		B 5/B 14		37	441	0.9	75		WP090/090	B 5/B 14
	28	389	1.7	50	W110		B 5/B 14		31	503	1.0	90		WP090/090	B 5/B 14
	23	448	1.3	60	W110		B 5/B 14		23	635	0.7	120		WP090/090	B 5/B 14
	23	481	1.8	60		WP090/110	B 5/B 14		70	243	2.3	40	W110		B 5/B 14
	19	579	1.5	75		WP090/110	B 5/B 14		56	296	1.7	50	W110		B 5/B 14
	18	557	0.9	80	W110		B 5/B 14		47	347	1.3	60	W110		B 5/B 14
	16	650	1.6	90		WP090/110	B 5/B 14		47	366	2.1	60		WP090/110	B 5/B 14
	12	830	1.2	120		WP090/110	B 5/B 14		37	452	1.5	75		WP090/110	B 5/B 14
	9	978	0.9	150		WP090/110	B 5/B 14		35	438	0.9	80	W110		B 5/B 14
	8	1119	0.7	180		WP090/110	B 5/B 14		31	516	1.7	90		WP090/110	B 5/B 14
100 L A 6 (900 min ⁻¹)	23	448	2.0	60	W130		B 5		23	662	1.3	120		WP090/110	B 5/B 14
	19	579	2.1	75		WP090/130	B 5/B 14		19	783	1.0	150		WP090/110	B 5/B 14
	18	565	1.5	80	W130		B 5		16	900	0.8	180		WP090/110	B 5/B 14
	16	650	2.2	90		WP090/130	B 5/B 14		47	347	1.8	60	W130		B 5
	14	655	1.1	100	W130		B 5		35	432	1.3	80	W130		B 5
	12	818	1.5	120		WP090/130	B 5/B 14		28	525	1.0	100	W130		B 5
	9	1008	1.2	150		WP090/130	B 5/B 14		23	653	1.7	120		WP090/130	B 5/B 14
	8	1155	0.9	180		WP090/130	B 5/B 14		19	805	1.3	150		WP090/130	B 5/B 14
	6	1396	0.7	240		WP090/130	B 5/B 14		16	927	1.0	180		WP090/130	B 5/B 14
	120	104	2.5	7.5	W075		B 5/B 14	100 L A 4 (1400 min ⁻¹)	187	100	2.2	7.5	W075		B 5/B 14
	90	135	2.0	10	W075		B 5/B 14		140	131	1.8	10	W075		B 5/B 14
	60	198	1.5	15	W075		B 5/B 14		93	189	1.3	15	W075		B 5/B 14
	60	201	2.4	15	W090		B 5/B 14		140	132	2.7	10	W090		B 5/B 14
	45	261	1.7	20	W090		B 5/B 14		93	194	2.1	15	W090		B 5/B 14
	36	318	1.2	25	W090		B 5/B 14		70	252	1.5	20	W090		B 5/B 14
	30	363	1.5	30	W090		B 5/B 14		56	311	1.1	25	W090		B 5/B 14
	36	326	2.1	25	W110		B 5/B 14		47	356	1.3	30	W090		B 5/B 14
	30	372	2.3	30	W110		B 5/B 14		70	255	2.6	20	W110		B 5/B 14
	23	478	1.7	40	W110		B 5/B 14		56	315	2.0	25	W110		B 5/B 14
	18	565	1.3	50	W110		B 5/B 14		47	360	2.1	30	W110		B 5/B 14
	15	649	1.1	60	W110		B 5/B 14		35	474	1.5	40	W110		B 5/B 14
	18	581	1.8	50	W130		B 5		28	570	1.1	50	W110		B 5/B 14
	15	669	1.5	60	W130		B 5		23	657	0.9	60	W110		B 5/B 14
	11	815	1.1	80	W130		B 5		35	456	2.3	40	W130		B 5
	9	939	0.8	100	W130		B 5		28	563	1.7	50	W130		B 5
									23	657	1.4	60	W130		B 5
									18	828	1.0	80	W130		B 5
									14	960	0.8	100	W130		B 5

HTTW/HTTWP



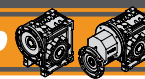
HTTW/HTTWP RIDUTTORI A VITE SENZA FINE

WORM GEARBOXES

Dati tecnici

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i			
2.2 HTT								3.0 HTT							
112 M 6 (900 min ⁻¹)	120	154	2.5	7.5	W090		B 5/B 14	132 S 6 (900 min ⁻¹)	120	210	3.2	7.5	W110		B 5/B 14
	90	203	2.0	10	W090		B 5/B 14		90	277	2.6	10	W110		B 5/B 14
	60	294	1.6	15	W090		B 5/B 14		60	401	2.0	15	W110		B 5/B 14
	45	383	1.2	20	W090		B 5/B 14		45	528	1.4	20	W110		B 5/B 14
	36	467	0.8	25	W090		B 5/B 14		36	653	1.1	25	W110		B 5/B 14
	30	532	1.0	30	W090		B 5/B 14								
	45	388	2.0	20	W110		B 5/B 14		45	522	2.0	20	W130		B 5/B 14
	36	479	1.5	25	W110		B 5/B 14		36	645	1.6	25	W130		B 5/B 14
	30	546	1.6	30	W110		B 5/B 14		30	735	1.6	30	W130		B 5/B 14
	23	700	1.2	40	W110		B 5/B 14		23	942	1.2	40	W130		B 5/B 14
	18	829	0.9	50	W110		B 5/B 14	4.0 HTT							
	23	691	1.6	40	W130		B 5	112 M 2 (2800 min ⁻¹)	373	92	1.7	7.5	W075		B 5/B 14
	18	852	1.2	50	W130		B 5		280	121	1.4	10	W075		B 5/B 14
	15	980	1.0	60	W130		B 5		187	178	1.0	15	W075		B 5/B 14
									280	123	2.1	10	W090		B 5/B 14
									187	180	1.7	15	W090		B 5/B 14
									140	235	1.2	20	W090		B 5/B 14
									140	237	2.1	20	W110		B 5/B 14
									112	293	1.6	25	W110		B 5/B 14
3.0 HTT								112 M 4 (1400 min ⁻¹)	93	336	1.8	30	W110		B 5/B 14
100 L A 2 (2800 min ⁻¹)	373	69	2.3	7.5	W075		B 5/B 14		70	442	1.3	40	W110		B 5/B 14
	280	91	1.9	10	W075		B 5/B 14		56	539	0.9	50	W110		B 5/B 14
	187	134	1.4	15	W075		B 5/B 14								
	187	135	2.2	15	W090		B 5/B 14								
	140	176	1.6	20	W090		B 5/B 14								
	112	217	1.2	25	W090		B 5/B 14								
	93	255	1.4	30	W090		B 5/B 14								
	112	220	2.2	25	W110		B 5/B 14								
	93	252	2.3	30	W110		B 5/B 14								
	70	332	1.7	40	W110		B 5/B 14	4.0 HTT							
	56	404	1.3	50	W110		B 5/B 14	112 M 4 (1400 min ⁻¹)	187	184	1.7	7.5	W090		B 5/B 14
	47	473	0.9	60	W110		B 5/B 14		140	240	1.5	10	W090		B 5/B 14
									93	352	1.1	15	W090		B 5/B 14
									70	458	0.8	20	W090		B 5/B 14
	56	404	1.7	50	W130		B 5								
	47	473	1.3	60	W130		B 5								
	35	589	0.9	80	W130		B 5								
									140	240	2.6	10	W110		B 5/B 14
									93	352	1.9	15	W110		B 5/B 14
3.0 HTT								132 L 6 (900 min ⁻¹)	70	464	1.4	20	W110		B 5/B 14
100 L B 4 (1400 min ⁻¹)	187	137	1.6	7.5	W075		B 5/B 14		56	573	1.1	25	W110		B 5/B 14
	140	178	1.3	10	W075		B 5/B 14		47	655	1.2	30	W110		B 5/B 14
	93	258	1.0	15	W075		B 5/B 14		35	862	0.8	40	W110		B 5/B 14
	187	138	2.3	7.5	W090		B 5/B 14								
	140	180	2.0	10	W090		B 5/B 14								
	93	264	1.5	15	W090		B 5/B 14								
	70	344	1.1	20	W090		B 5/B 14								
	56	425	0.8	25	W090		B 5/B 14								
	47	485	0.9	30	W090		B 5/B 14								
								4.0 HTT							
	93	264	2.6	15	W110		B 5/B 14	132 L 6 (900 min ⁻¹)	120	280	2.4	7.5	W110		B 5/B 14
	70	348	1.9	20	W110		B 5/B 14		90	369	2.0	10	W110		B 5/B 14
	56	430	1.4	25	W110		B 5/B 14		60	535	1.5	15	W110		B 5/B 14
	47	491	1.5	30	W110		B 5/B 14		45	705	1.1	20	W110		B 5/B 14
	35	647	1.1	40	W110		B 5/B 14								
	28	778	0.8	50	W110		B 5/B 14								
									45	696	1.5	20	W130		B 5/B 14
									36	860	1.2	25	W130		B 5/B 14
									30	980	1.2	30	W130		B 5/B 14
	47	485	2.2	30	W130		B 5	4.0 HTT							
	35	622	1.7	40	W130		B 5	132 L 6 (900 min ⁻¹)							
	28	767	1.3	50	W130		B 5								
	23	896	1.0	60	W130		B 5								

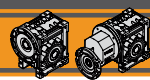


Dati tecnici

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [N m]	sf	i			
5.5								7.5							
132 S A 2 (2800 min ⁻¹)	373	127	3.2	7.5	W110		B 5/B 14	132 S B 2 (2800 min ⁻¹)	373	173	2.4	7.5	W110		B 5/B 14
	280	167	2.7	10	W110		B 5/B 14		280	228	2.0	10	W110		B 5/B 14
	187	248	2.0	15	W110		B 5/B 14		187	338	1.5	15	W110		B 5/B 14
	140	326	1.5	20	W110		B 5/B 14		140	445	1.1	20	W110		B 5/B 14
	112	403	1.2	25	W110		B 5/B 14		112	550	0.9	25	W110		B 5/B 14
	140	326	2.1	20	W130		B 5/B 14		187	338	2.1	15	W130		B 5/B 14
	112	403	1.6	25	W130		B 5/B 14		140	445	1.5	20	W130		B 5/B 14
	93	461	1.7	30	W130		B 5/B 14		112	550	1.2	25	W130		B 5/B 14
	70	600	1.3	40	W130		B 5/B 14		93	629	1.3	30	W130		B 5/B 14
									70	819	0.9	40	W130		B 5/B 14
132 S 4 (1400 min ⁻¹)	187	250	2.2	7.5	W110		B 5/B 14	132 M A 4 (1400 min ⁻¹)	187	341	1.6	7.5	W110		B 5/B 14
	140	330	1.9	10	W110		B 5/B 14		140	450	1.4	10	W110		B 5/B 14
	93	484	1.4	15	W110		B 5/B 14		93	660	1.0	15	W110		B 5/B 14
	70	638	1.0	20	W110		B 5/B 14		70	870	0.8	20	W110		B 5/B 14
	56	788	0.8	25	W110		B 5/B 14		187	341	2.2	7.5	W130		B 5/B 14
	187	250	3.0	7.5	W130		B 5/B 14		140	450	1.8	10	W130		B 5/B 14
	140	330	2.5	10	W130		B 5/B 14		93	660	1.4	15	W130		B 5/B 14
	93	484	1.9	15	W130		B 5/B 14		70	860	1.1	20	W130		B 5/B 14
	70	630	1.4	20	W130		B 5/B 14		56	1062	0.9	25	W130		B 5/B 14
	56	778	1.2	25	W130		B 5/B 14		47	1213	0.9	30	W130		B 5/B 14
	47	889	1.2	30	W130		B 5/B 14								
	35	1141	0.9	40	W130		B 5/B 14								

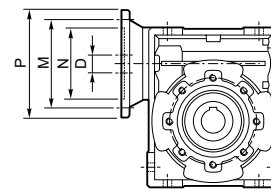
HTTW/HTTWP



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															
W075	63B5	95	115	140	11								BS	BS	BS	B	B		
	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						
W090	80B14	80	100	120															
	71B5	110	130	160	14					BS	BS	BS	BS	B	B	B	B		
	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															
W110	80B5	130	165	200	19		BS	BS	BS	BS	BS	BS	B	B	B	B			
	132B5	230	265	300															
	132B14	130	165	200	38														
	100/112B5	180	215	250			B	B	B	B	B								
	100/112B14	110	130	160	28														
	90B5	130	165	200															
W130	90B14	95	115	140	24		BS	BS	BS	BS	BS	BS	B	B	B	B			
	80B5	130	165	200									BS	BS	BS	BS	B	B	
	132B5	230	265	300	38														
	132B14	130	165	200															
	100/112B5	180	215	250	28		B	B	B	B	B	B							
	80B5	130	165	200															



N.B.

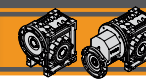
Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.

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

B/BS = Boccola di riduzione in acciaio

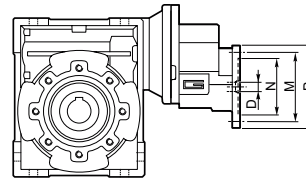
B / B S = Metal shaft sleeve

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



Motori applicabili

IEC Motor adapters



HTTW/HTTWP

HTTWP	IEC	N	M	P	D	i (i ₁ x i ₂)							
						60 (3 x 2 0)	75 (3 x 2 5)	90 (3 x 3 0)	120 (3 x 4 0)	150 (3 x 5 0)	180 (3 x 6 0)	240 (3 x 8 0)	300 (3 x 1 0 0)
056/030	56 B 14	50	65	80	9								
056/040						B	B	B	B				
063/040	63 B 14	60	75	90	11								
063/050						B	B	B					
063/063						BS	BS	BS	B	B	B		
071/050	71 B 14	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 B 14	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 B 14 90 B 5	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

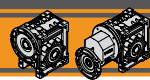
N .B .

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 /B S = Metal shaft sleeve



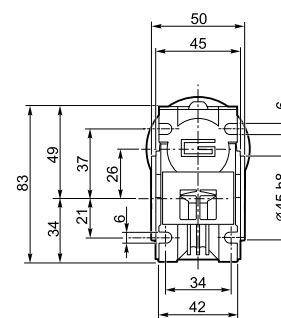
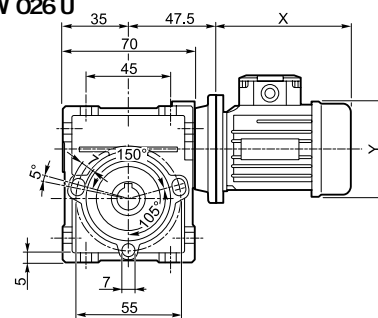
HTTW/HTTWP

RIDUTTORI A VITE SENZA FINE
WORMGEARBOXES

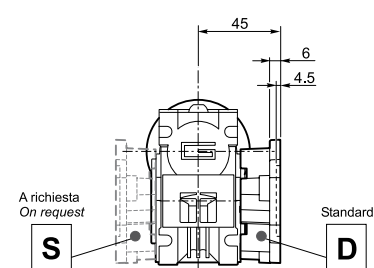
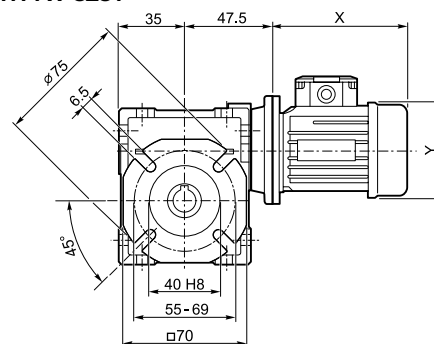
Dimensioni

D imensions

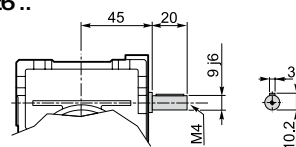
HTTW 026 U



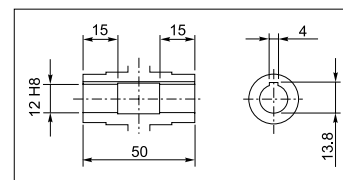
HTTW 026 F



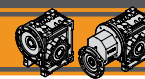
HTTWI 026 ..



Kg
0.8



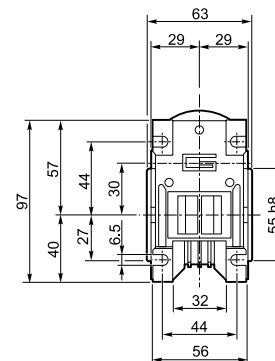
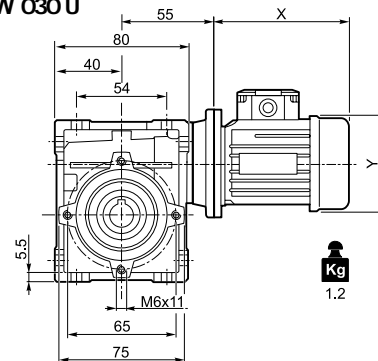
Albero lento cavo / Hollow output shaft



Dimensioni

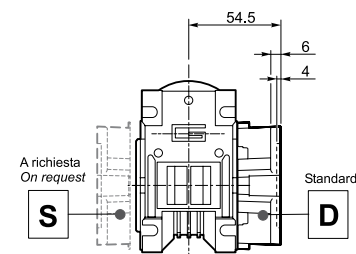
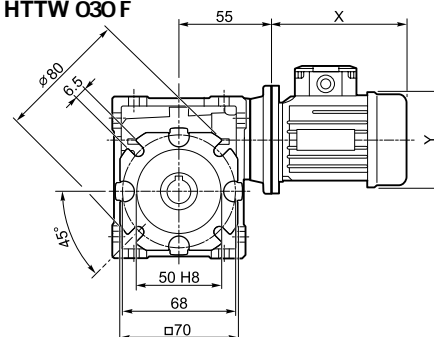
D imensions

HTTW 030 U

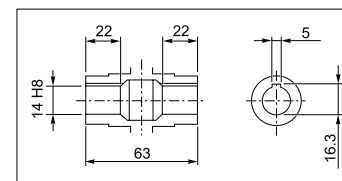
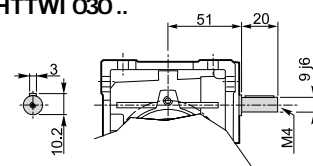


HTTW/HTTWP

HTTW 030 F

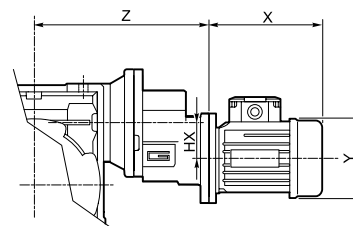


HTTWI 030 ..

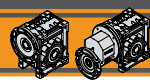


Albero lento cavo / Hollow output shaft

HTTWP ..



	HX	Z	
056/030	30.5	124	2.1



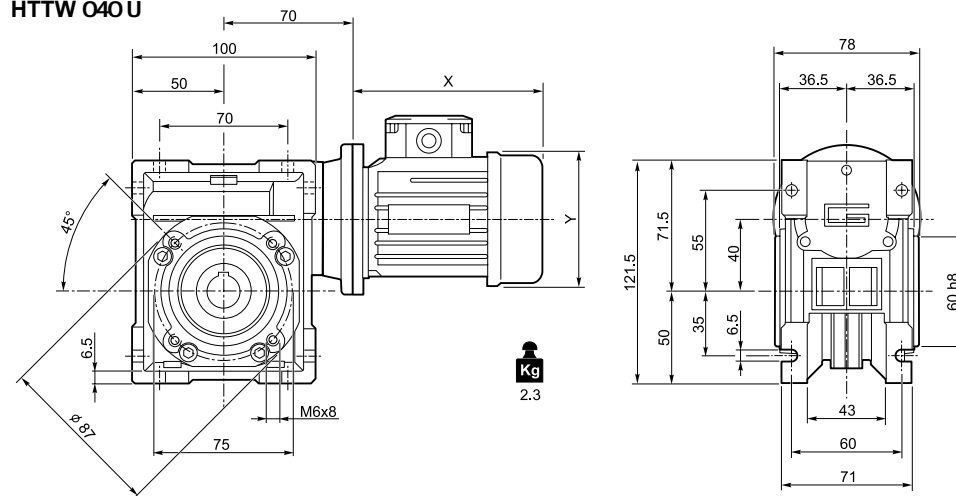
HTTW/HTTWP

RIDUTTORI A VITE SENZA FINE WORMGEARBOXES

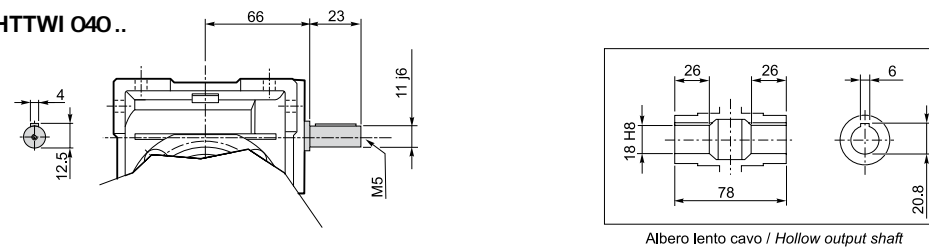
Dimensioni

Dimensions

HTTW 040 U

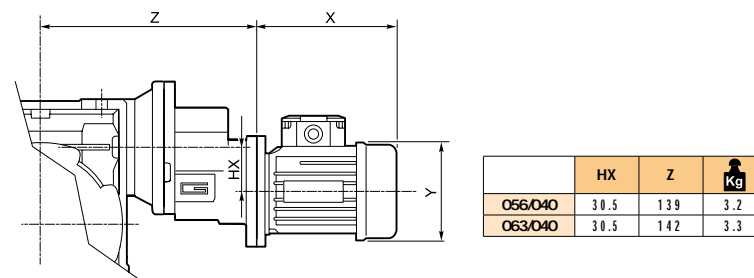


HTTWI 040 ..

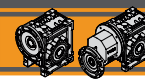


Albero lento cavo / Hollow output shaft

HTTWP ..

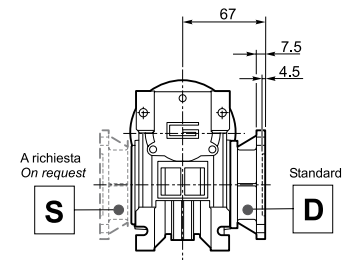
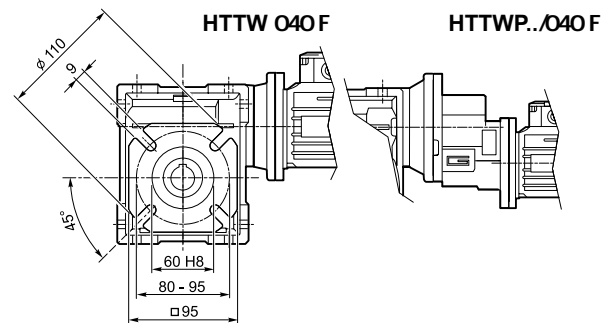


	HX	Z	Kg
056/040	30.5	139	3.2
063/040	30.5	142	3.3

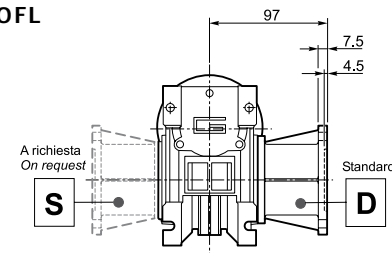
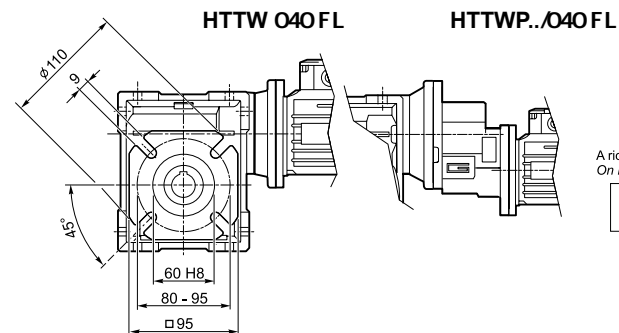
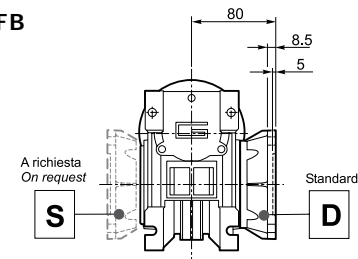
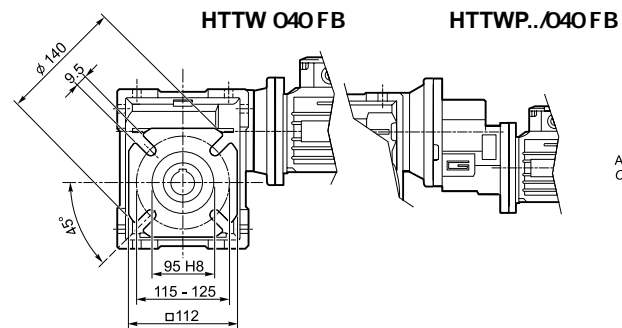


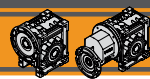
Dimensioni

Dimensions



HTTW/HTTWP

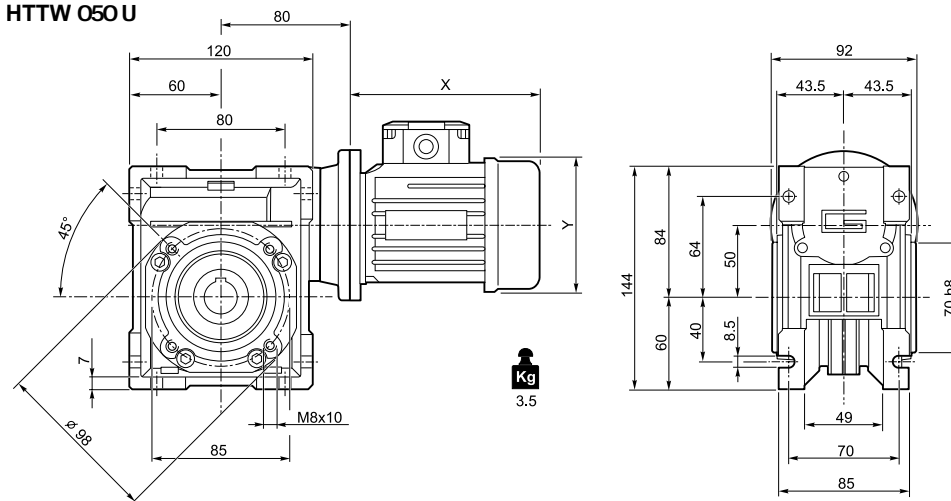




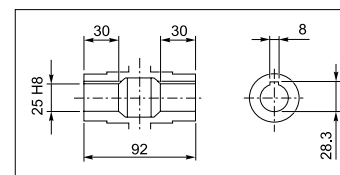
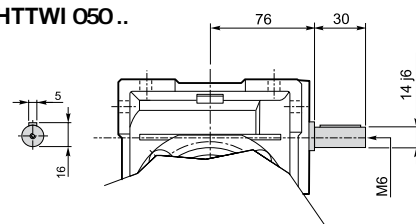
Dimensioni

Dimensions

HTTW 050 U

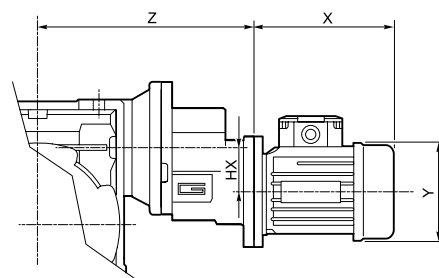


HTTWI 050 ..

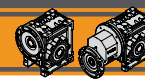


Albero lento cavo / Hollow output shaft

HTTWP ..

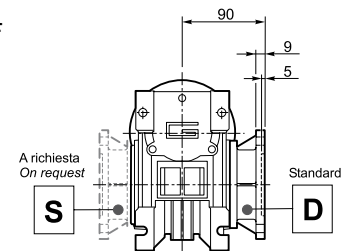
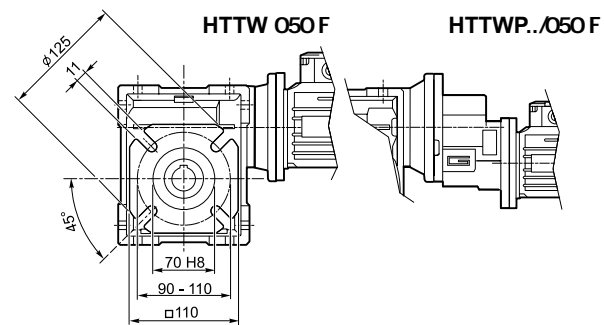


	HX	Z	Kg
063/050	30.5	152	4.5
071/050	41	169	5.5

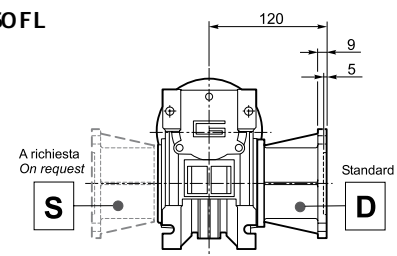
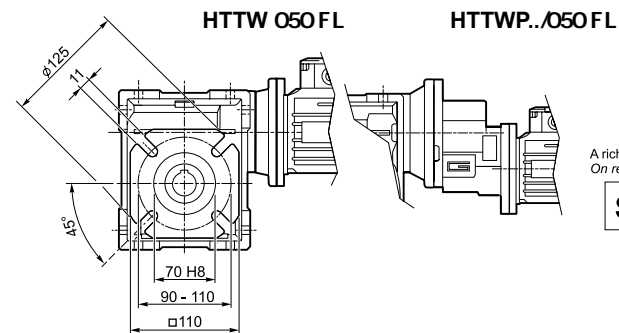
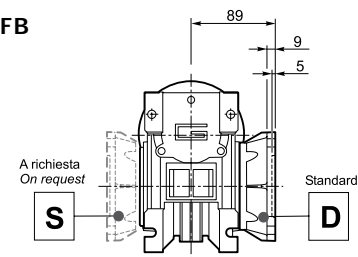
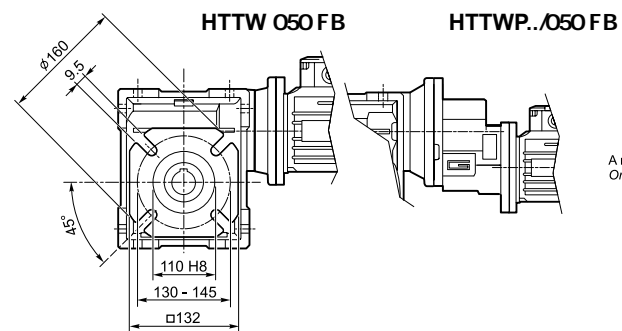


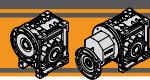
Dimensioni

D imensions



HTTP/HTTWP

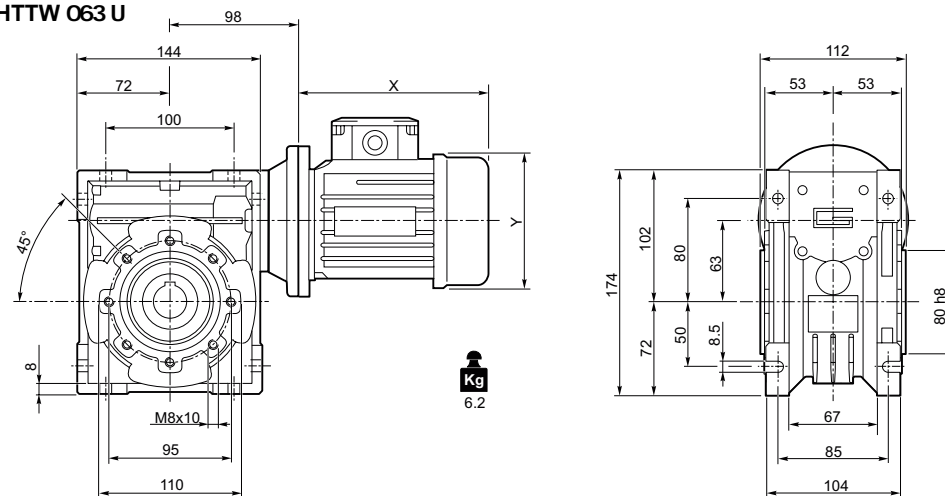




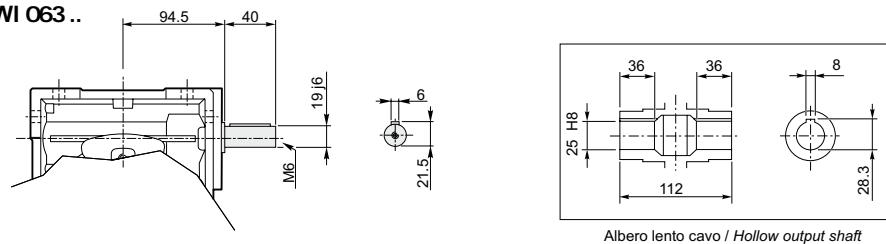
Dimensioni

D imensions

HTTW 063 U

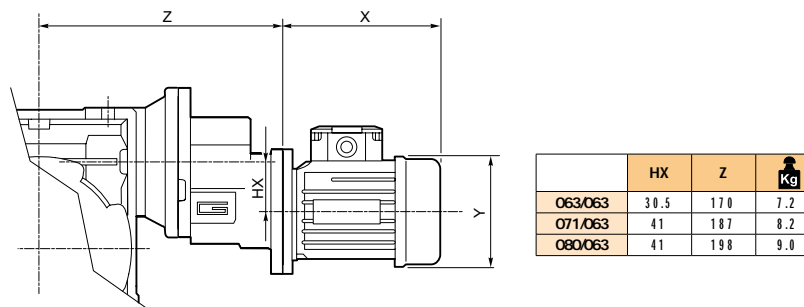


HTTWI 063 ..

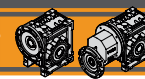


Albero lento cavo / Hollow output shaft

HTTWP ..

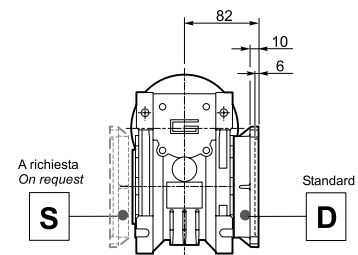
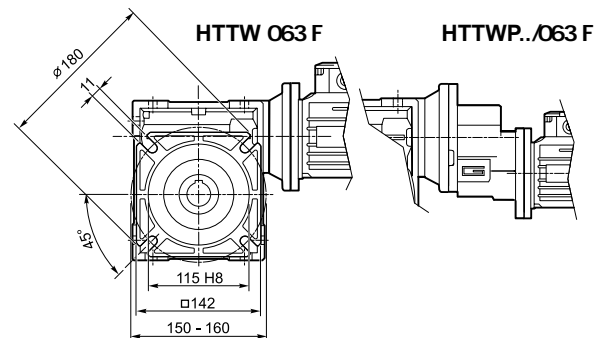


	HX	Z	Kg
063/063	30.5	170	7.2
071/063	41	187	8.2
080/063	41	198	9.0

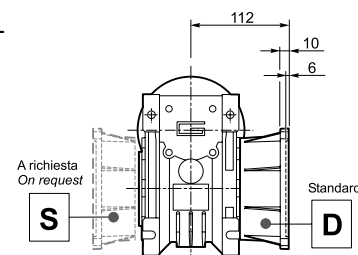
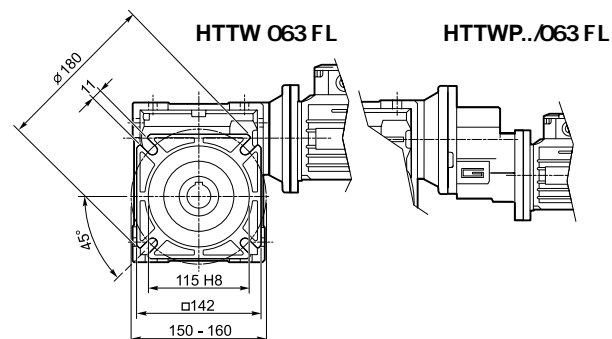
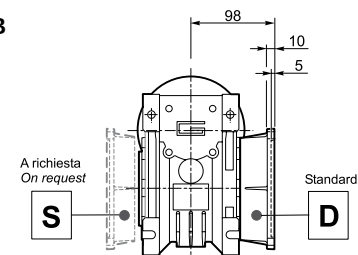
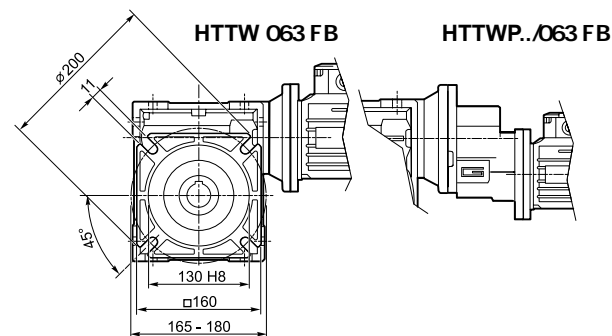


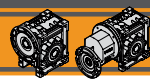
Dimensioni

D imensions



HTTW/HTTWP

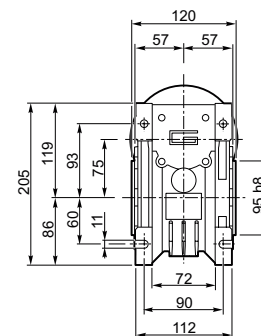
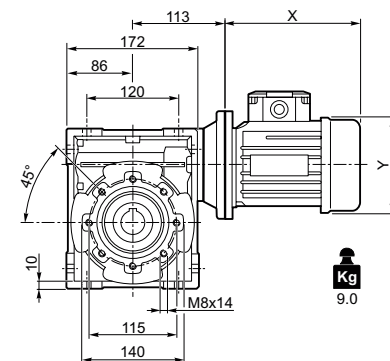




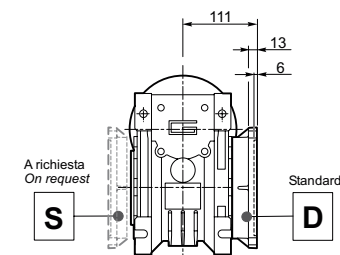
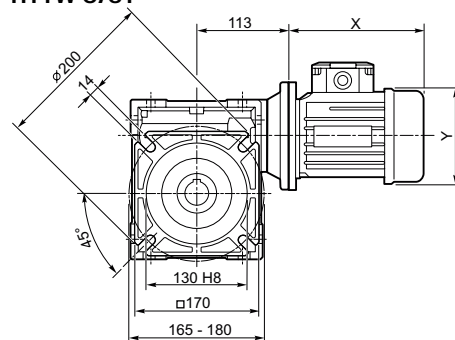
Dimensioni

D imensions

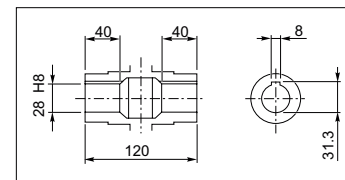
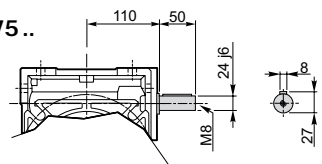
HTTW 075 U



HTTW 075 F

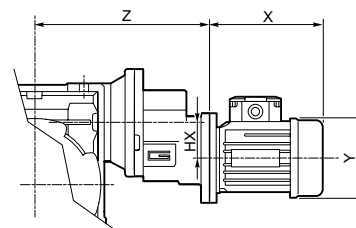


HTTWI 075 ..

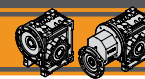


Albero lento cavo / Hollow output shaft

HTTWP ..



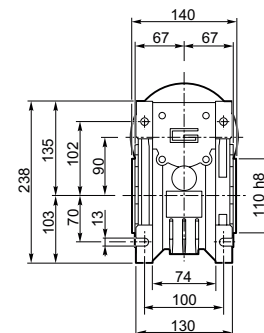
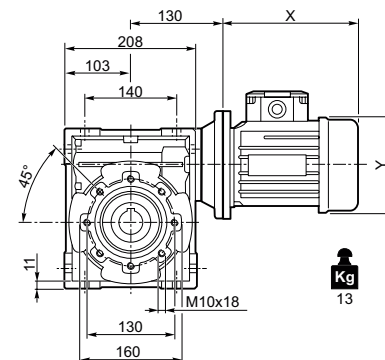
	HX	Z	Kg
071/075	41	202	11.0
080/075	41	213	11.8
090/075	36.5	267	12.5



Dimensioni

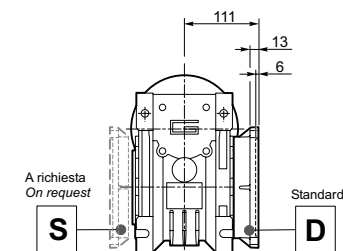
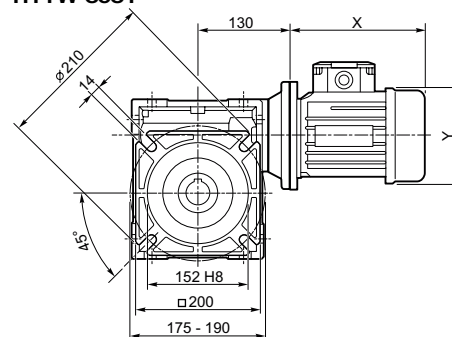
D imensions

HTTW 090 U

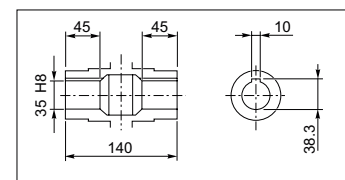
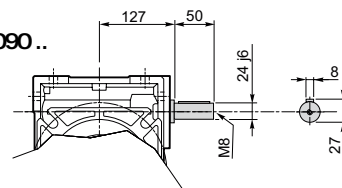


HTTW/HTTWP

HTTW 090 F

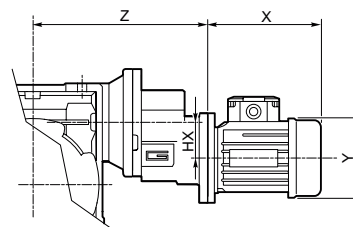


HTTWI 090 ..

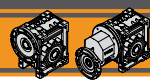


Albero lento cavo / Hollow output shaft

HTTWP ..



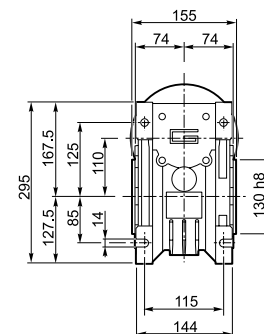
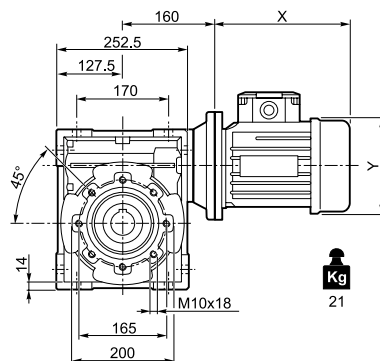
	HX	Z	kg
071/090	41	219	15.0
080/090	41	230	15.8
090/090	36.5	284	16.5



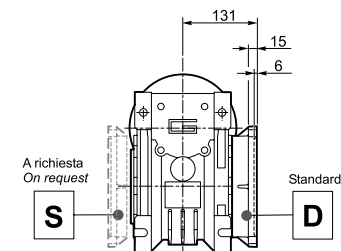
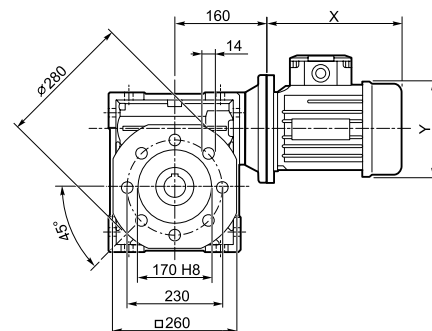
Dimensioni

D imensions

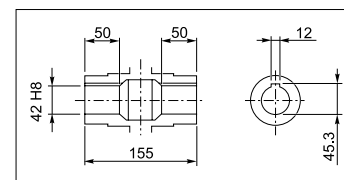
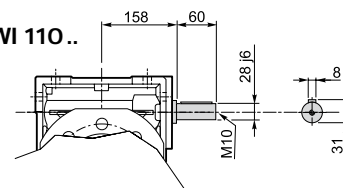
HTTW 110U



HTTW 110F

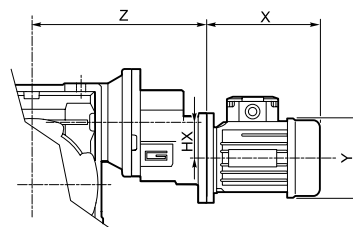


HTTWI 110..

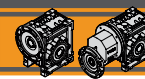


Albero lento cavo / Hollow output shaft

HTTWP ..



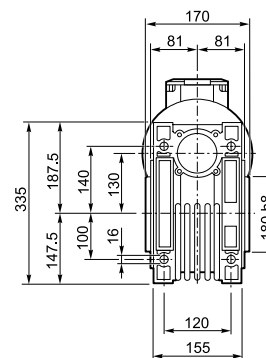
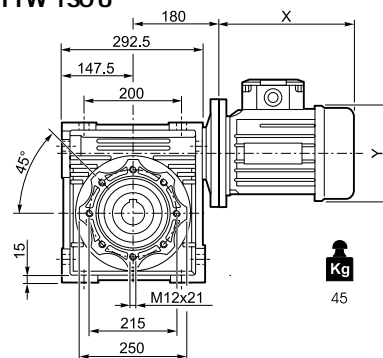
	HX	Z	Kg
080/110	41	260	23.8
090/110	36.5	314	24.5



Dimensioni

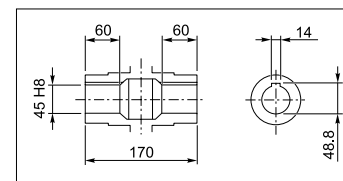
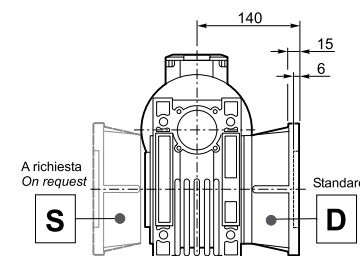
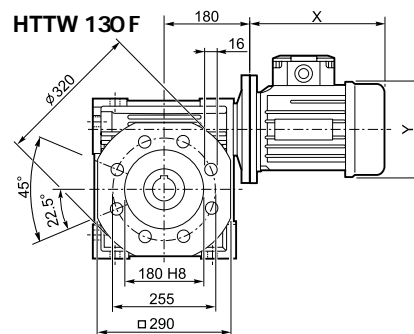
Dimensions

HTTP 130 U



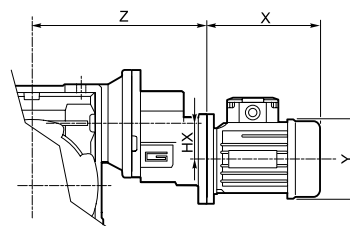
HTTP/HTTWP

HTTP 130 F

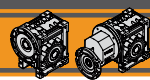


Albero lento cavo / Hollow output shaft

HTTWP ..



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

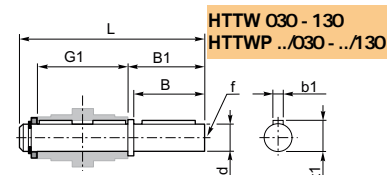
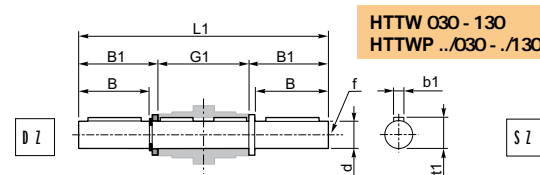


Accessori

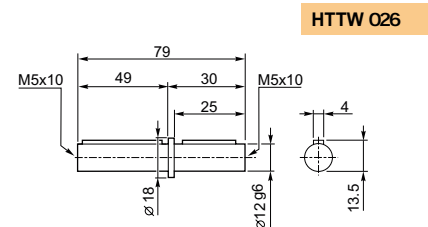
Accessories

Albero lento semplice e doppio

Single and double output shaft



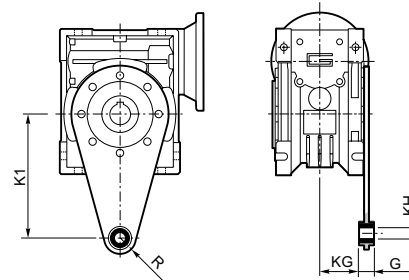
HTTW	HTTWP	d h7	B	B1	G1	L	L1	f	b1	t1
030	056/030	14	30	32.5	63	102	128	M 6	5	16
040	056/040 063/040	18	40	43	78	128	164	M 6	6	20.5
050	063/050 071/050	25	50	53.5	92	153	199	M 10	8	28
063	063/063 071/063 080/063	25	50	53.5	112	173	219	M 10	8	28
075	071/075 080/075 090/075	28	60	63.5	120	192	247	M 10	8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



Braccio di reazione

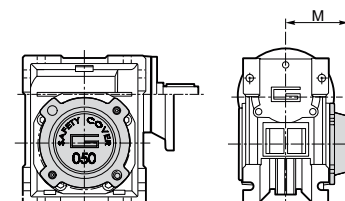
Torque arm

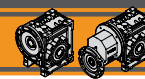
HTTW	HTTWP	K1	G	KG	KH	R
030	056/030	85	14	23	8	15
040	056/040 063/040	100	14	31	10	18
050	063/050 071/050	100	14	38	10	18
063	063/063 071/063 080/063	150	14	47.5	10	18
075	071/075 080/075 090/075	200	25	46.5	20	30
090	071/090 080/090 090/090	200	25	56.5	20	30
110	080/110 090/110	250	30	62	25	35
130	080/130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



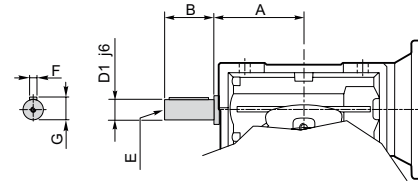


Opzioni

Options

VS - Vite sporgente / Extended input shaft

HTTW	HTTWP	A	B	D ₁ j6	E	F	G
030	056/030	4.5	2.0	9	M 4	3	10.2
040	056/040 063/040	5.3	2.3	11	M 5	4	12.5
050	063/050 071/050	6.4	3.0	14	M 6	5	16
063	063/063 071/063 080/063	7.5	4.0	19	M 6	6	21.5
075	071/075 080/075 090/075	9.0	5.0	24	M 8	8	27
090	071/090 080/090 090/090	10.8	5.0	24	M 8	8	27
110	080/110 090/110	13.5	6.0	28	M 10	8	31
130	080/130 090/130	-	-	-	-	-	-



HTTW/HTTWP



Note/Notes