



Motoriduttori brushless CC pendolari  
**Brushless DC helical parallel gearmotors**





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## Caratteristiche tecniche

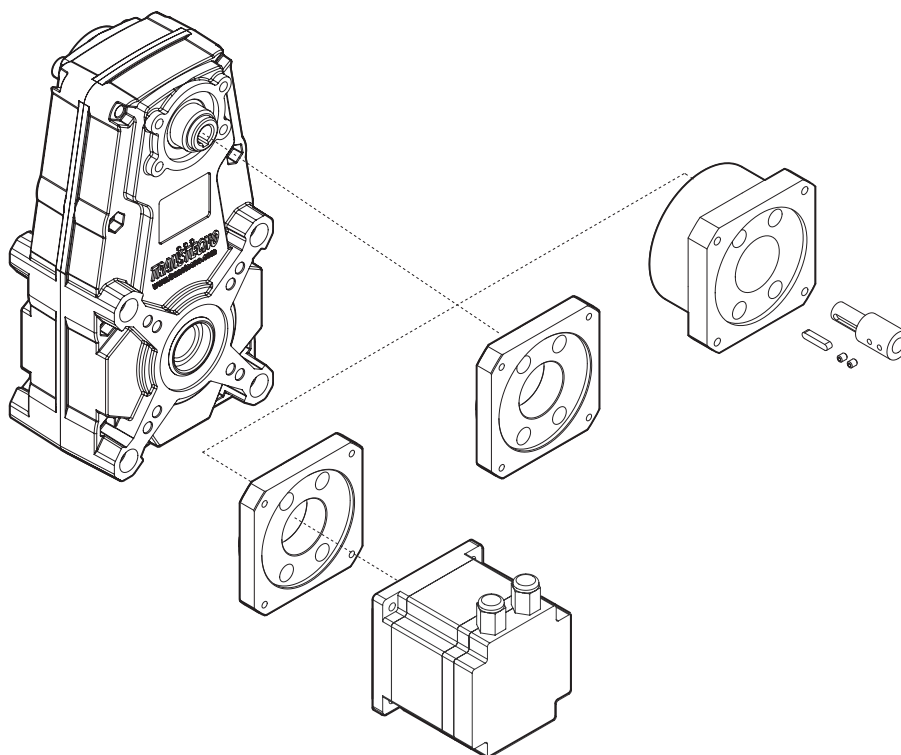
## Technical features

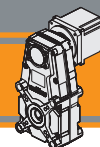
Le caratteristiche principali dei motoriduttori brushless CC pendolari della serie BLFT sono:

- Alimentazione in bassa tensione 24/36/48 Vcc
- Motore BLDC con grado di protezione IP55
- Coppie motori disponibili da 0.22 Nm a 2.1 Nm
- Lubrificazione permanente con olio sintetico
- Carcassa in pressofusione di alluminio
- Ingranaggi cilindrici a denti elicoidali, induriti e rettificati
- Disponibili anche nella versione con solo riduttore, sia con flangia di entrata standard che con flangia e manicotto dedicati

The main features of BLFT brushless DC helical parallel gearmotors range are:


- Low voltage power supply 24/36/48 Vdc
- BLDC motor in IP55 protection standard
- Motor torque ratings available from 0.22 Nm up to 2.1 Nm
- Permanent synthetic oil long life lubrication
- Die-cast aluminium housing
- Ground-hardened helical gears
- Gearbox only version also available, with either standard input flange or customized flange and coupling





**Designazione**

**Classification**

RIDUTTORE / GEARBOX					MOTORE / MOTOR		
FT	146	U	46	020	BL070.480	48V	BR
Tipo Type	Grandezza Size	Versione riduttore Gearbox version	Rapporto Ratio	Albero di uscita Output shaft	Tipo Type	Tensione Voltage	Freno Brake
FT	105 146 196	U	Vedere tabelle See tables	Vedere tabelle See tables	BLS022.240 BLS043.240 BL070.240 BL070.24B BL070.48B BL070.480 BL140.480 BL210.480 BL210.48E	24V-36V 24V-36V 24V 24V 48V 48V 48V 48V 48V	24V 48V 

**BLFT**

**Simbologia**

**Symbols**

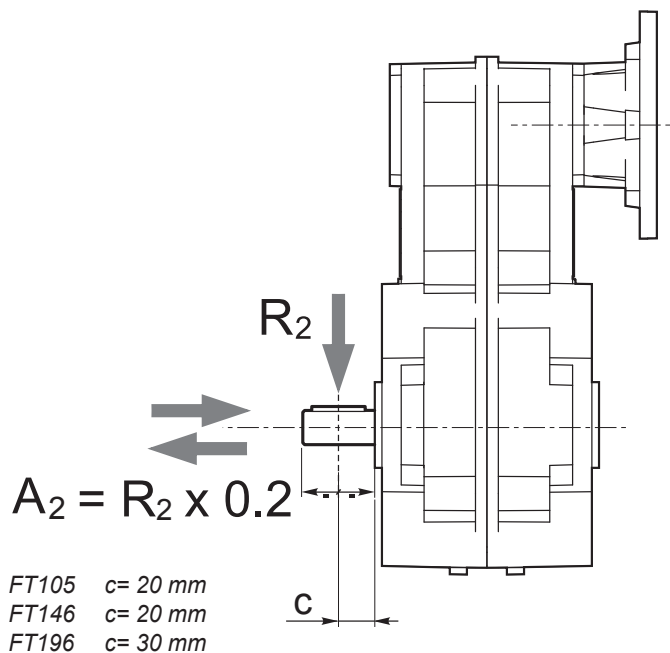
Ns	n° stadi / No. stages	Mn <sub>2</sub>	[Nm]	Coppia nominale in uscita in funzione di Pn1 Nominal output torque referred to Pn1
ir	rapporto reale / real ratio	n <sub>1MAX</sub>	[Rpm]	Velocità max entrata / Max input speed
M <sub>2</sub>	[Nm]	V	[V]	Tensione / Voltage
A <sub>2</sub>	[N]	n <sub>2</sub>	[Rpm]	Velocità in uscita / Output Speed
R <sub>2</sub>	[N]	IP		Grado di protezione / Enclosure protection
Pn <sub>1</sub>	[kW]	Kg		Peso / Weight
		sf		Fattore di servizio / Service Factor

**Lubrificazione e temperatura**

**Lubrication and temperature**

I motoriduttori BLFT sono forniti completi di lubrificante sintetico (viscosità 320) e non necessitano di manutenzione.  
Temperatura ambiente 0 ÷ 40 °C (in assenza di congelamento ed in assenza di condensa).  
Per temperature diverse, contattare nostro UT.

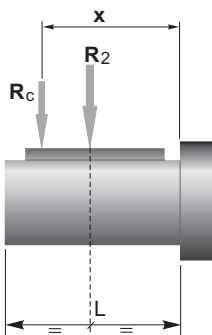
*Permanent synthetic oil long life lubrication (viscosity grade 320) on BLFT gearmotors.  
Ambient temperature 0 ÷ 40 °C (in the absence of freezing and condensation).  
For temperature outside this range please contact our technical dept.*



n <sub>2</sub> [min <sup>-1</sup> ]	R <sub>2</sub> [N]		
	FT105	FT146	FT196
200	1000	1600	2250
175	1040	1700	2300
150	1100	1800	2500
125	1160	1900	2700
100	1250	2000	2900
90	1300	2200	3100
80	1400	2400	3300
70	1500	2500	3500
60	1550	2550	3700
50	1600	2600	3850
40	1700	2700	4000
30	1850	2850	4600
20	2000	3000	5500
10	2000	3000	7000
5	2000	3000	7000

Quando il carico radiale risultante non è applicato sulla mezza-  
 ria 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:



	FT105	FT146	FT196
a	82	82,5	132
b	62	62,5	102
R <sub>2MAX</sub>	2000	3000	7000

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

$$R \leq R_c$$

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



FT105 con motore brushless

FT105 with brushless motor

FT105		BLS022.240													
		24V							36V						
		ir	Ns	n <sub>2MIN</sub> [ rpm ]			n <sub>2MAX</sub> [ rpm ]			n <sub>1MAX</sub> [ rpm ]	n <sub>2MIN</sub> [ rpm ]			n <sub>2MAX</sub> [ rpm ]	
M <sub>2</sub> [Nm]	sf			M <sub>2</sub> [Nm]	sf		M <sub>2</sub> [Nm]	sf			M <sub>2</sub> [Nm]	sf			
20.6	3	14.6	4.3	10.8	146	4.3	7.3	3000	19.4	4.3	10.8	194	4.3	6.5	4000
33.3		9.0	6.9	8.3	90	6.9	5.7		12.0	6.9	8.3	120	6.9	5.0	
44.4		6.8	9.2	8.1	68	9.2	5.5		9.0	9.2	8.1	90	9.2	4.9	
54.9		5.5	11	6.6	55	11	4.5		7.3	11	6.6	73	11	4.0	
71.8		4.2	15	5.0	42	15	3.4		5.6	15	5.0	56	15	3.0	
77.1		3.9	16	4.7	39	16	3.2		5.2	16	4.7	52	16	2.8	
88.9		3.4	18	4.1	34	18	2.8		4.5	18	4.1	45	18	2.4	
124.8		2.4	26	2.9	24	26	2.0		3.2	26	2.9	32	26	1.7	
181.4		1.7	38	2.0	17	38	1.4		2.2	38	2.0	22	38	1.2	
224.3		1.3	46	1.6	13	46	1.1		1.8	46	1.6	18	46	1.0	
315.1		1.0	65	1.1	10	65	0.8		1.3	65	1.1	13	64	0.7	
368.2		0.8	75	1.0	8.1	72	0.7		1.1	75	1.0	11	64	0.7	
535.0	0.6	105	0.7	5.6	72	0.7	0.7	105	0.7	7.5	64	0.7			
661.8	0.5	105	0.7	4.5	72	0.7	0.6	105	0.7	6.0	64	0.7			
929.4	0.3	105	0.7	3.2	72	0.7	0.4	105	0.7	4.3	64	0.7			

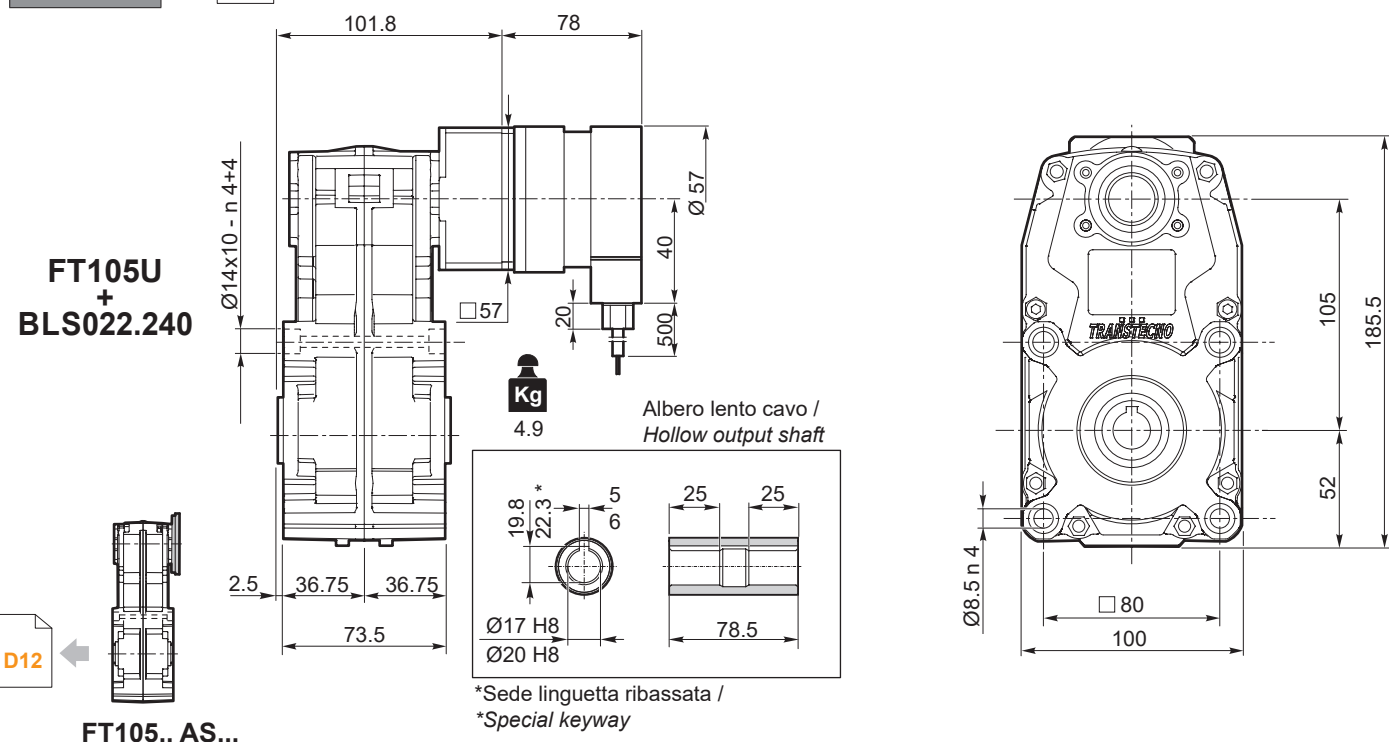
**NOTA:** per servizio continuo o altamente intermittente, contattare il servizio tecnico

**NOTE:** for continuous or highly intermittent duty, please contact our technical service

Attenzione: superamento della coppia nominale supportata dal riduttore per servizio S1. Contattare il ns. servizio tecnico  
Attention: rated torque withstood by gear reducer for service in S1 is exceeded. Please, contact our technical office.

Tipo Type	Numero di poli Number of poles	Numero di fasi Number of phase	Tensione Rated voltage [ V ]	Numero di giri Rated speed [ rpm ]	Coppia nominale Rated torque [ Nm ]	Potenza nominale Rated power [ W ]
BLS022.240	4	3	36	4000	0.22	92
			24	3000		70
Tipo Type	Coppia massima Peak torque [ Nm ]	Corrente nominale Rated current [ A ]	Resistenza Resistance [ ohm ]	Induttanza Inductance [ mH ]	Corrente massima Peak current [ A ]	Peso Weight [ kg ]
BLS022.240	0.44	3.7	0.64	3.1	7.4	0.72

Azionamenti Drives



D12

FT105.. AS...

BLFT



FT105		BLS043.240													
		24V							36V						
		n <sub>2MIN</sub> [ rpm ]			n <sub>2MAX</sub> [ rpm ]				n <sub>1MAX</sub> [ rpm ]	n <sub>2MIN</sub> [ rpm ]			n <sub>2MAX</sub> [ rpm ]		
ir	Ns	M <sub>2</sub> [Nm]		sf		M <sub>2</sub> [Nm]		sf		M <sub>2</sub> [Nm]		sf			
		20.6	3	14.6	8.3	5.5	146	8.3	3.8	3000	19.4	8.3	5.5	194	8.3
33.3	9.0	13		4.3	90	13	2.9	12.0	13		4.3	120	13	2.6	
44.4	6.8	18		4.2	68	18	2.8	9.0	18		4.2	90	18	2.5	
54.9	5.5	22		3.4	55	22	2.3	7.3	22		3.4	73	22	2.0	
71.8	4.2	29		2.6	42	29	1.7	5.6	29		2.6	56	29	1.5	
77.1	3.9	31		2.4	39	31	1.6	5.2	31		2.4	52	31	1.4	
88.9	3.4	36		2.1	34	36	1.4	4.5	36		2.1	45	36	1.2	
124.8	2.4	50		1.5	24	50	1.0	3.2	50		1.5	32	50	0.9	
181.4	1.7	73		1.0	17	72	0.7	2.2	73		1.0	22	64	0.7	
224.3	1.3	91		0.8	13	72	0.7	1.8	91		0.8	18	64	0.7	
315.1	1.0	105		0.7	10	72	0.7	1.3	105		0.7	13	64	0.7	
368.2	0.8	105		0.7	8.1	72	0.7	1.1	105		0.7	11	64	0.7	
535.0	0.6	105		0.7	5.6	72	0.7	0.7	105		0.7	7.5	64	0.7	
661.8	0.5	105		0.7	4.5	72	0.7	0.6	105		0.7	6.0	64	0.7	
929.4	0.3	105	0.7	3.2	72	0.7	0.4	105	0.7	4.3	64	0.7			

**NOTA:** per servizio continuo o altamente intermittente, contattare il servizio tecnico

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Attenzione: superamento della coppia nominale supportata dal riduttore per servizio S1. Contattare il ns. servizio tecnico  
Attention: rated torque withstood by gear reducer for service in S1 is exceeded. Please, contact our technical office.

Tipo Type	Numero di poli Number of poles	Numero di fasi Number of phase	Tensione Rated voltage [ V ]	Numero di giri Rated speed [ rpm ]	Coppia nominale Rated torque [ Nm ]	Potenza nominale Rated power [ W ]
BLS043.240	4	3	36	4000	0.43	180
			24	3000		130
Tipo Type	Coppia massima Peak torque [ Nm ]	Corrente nominale Rated current [ A ]	Resistenza Resistance [ ohm ]	Induttanza Inductance [ mH ]	Corrente massima Peak current [ A ]	Peso Weight [ kg ]
BLS043.240	0.86	6	0.35	1	12.0	1.25

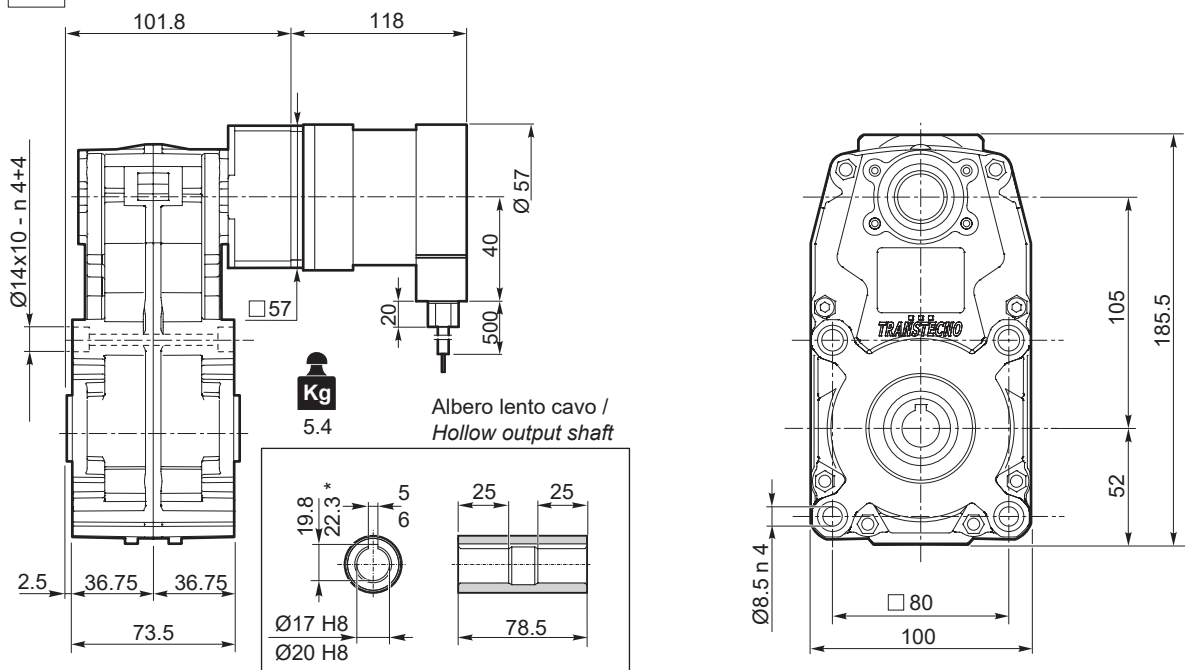
Azionamenti Drives

G2

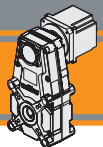
FT105U + BLS043.240

D12

FT105.. AS...



\*Sede linguetta ribassata /  
\*Special keyway



FT146 con motore brushless

FT146 with brushless motor

FT146	BLS043.240													
	24V						36V							
	n <sub>2MIN</sub> [ rpm ]			n <sub>2MAX</sub> [ rpm ]			n <sub>1MAX</sub> [ rpm ]	n <sub>2MIN</sub> [ rpm ]			n <sub>2MAX</sub> [ rpm ]			n <sub>1MAX</sub> [ rpm ]
M <sub>2</sub> [Nm]	sf		M <sub>2</sub> [Nm]	sf		M <sub>2</sub> [Nm]		sf		M <sub>2</sub> [Nm]	sf			
18.8	16.0	7.6	12.1	160	7.6	8.2	3000	21.3	7.6	12.1	213	7.6	7.3	4000
22.9	13.1	9.3	9.9	131	9.3	6.7		17.5	9.3	9.9	175	9.3	5.9	
26.2	11.5	11	8.7	115	11	5.9		15.3	11	8.7	153	11	5.2	
28.3	10.6	11	8.1	106	11	5.5		14.2	11	8.1	142	11	4.8	
35.1	8.6	14	8.1	86	14	5.5		11.4	14	8.1	114	14	4.9	
39.4	7.6	16	7.1	76	16	4.8		10.1	16	7.1	101	16	4.2	
46.4	6.5	19	6.1	65	19	4.2		8.6	19	6.1	86	19	3.7	
52.9	5.7	21	5.4	57	21	3.7		7.6	21	5.4	76	21	3.2	
60.6	4.9	25	5.2	49	25	3.5		6.6	25	5.2	66	25	3.1	
70.0	4.3	28	4.5	43	28	3.0		5.7	28	4.5	57	28	2.7	
74.0	4.1	30	4.2	41	29.9	2.9		5.4	30	4.2	54	30	2.5	
84.6	3.5	34	3.7	35	34	2.5		4.7	34	3.7	47	34	2.2	
95.6	3.1	39	3.3	31	39	2.2		4.2	39	3.3	42	39	2.0	
113.4	2.6	46	2.8	26	46	1.9		3.5	46	2.8	35	46	1.7	
133.4	2.2	54	2.3	22	54	1.6		3.0	54	2.3	30	54	1.4	
150.2	2.0	61	2.1	20	61	1.4		2.7	61	2.1	27	61	1.3	
160.4	1.9	65	2.1	19	65	1.4		2.5	65	2.1	25	65	1.3	
178.8	1.7	72	1.9	17	72	1.3		2.2	72	1.9	22	72	1.1	
195.9	1.5	79	1.7	15	79	1.2		2.0	79	1.7	20	79	1.0	
223.9	1.3	91	1.5	13	91	1.0		1.8	91	1.5	18	91	0.9	
236.8	1.3	96	1.4	13	96	1.0	1.7	96	1.4	17	96	0.9		
300.1	1.0	121	1.1	10.0	121	0.8	1.3	121	1.1	13	118	0.7		
397.4	0.8	161	0.9	7.5	134	0.7	1.0	161	0.9	10	118	0.7		

NOTA: per servizio continuo o altamente intermittente, contattare il servizio tecnico

NOTE: for continuous or highly intermittent duty, please contact our technical service

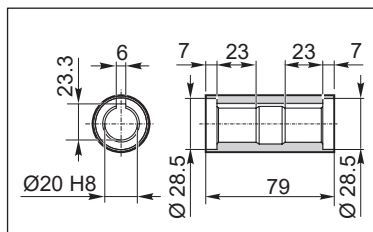
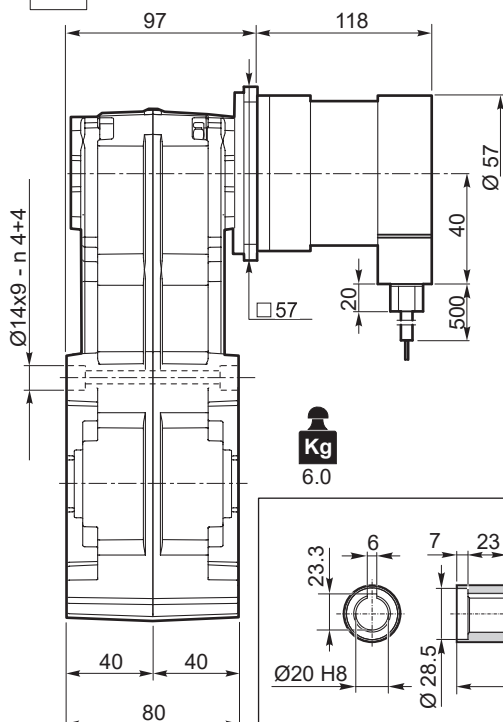
Attenzione: superamento della coppia nominale supportata dal riduttore per servizio S1. Contattare il ns. servizio tecnico  
Attention: rated torque withstood by gear reducer for service in S1 is exceeded. Please, contact our technical office.

Tipo Type	Numero di poli Number of poles	Numero di fasi Number of phase	Tensione Rated voltage [ V ]	Numero di giri Rated speed [ rpm ]	Coppia nominale Rated torque [ Nm ]	Potenza nominale Rated power [ W ]
BLS043.240	4	3	36	4000	0.43	180
			24	3000		130
Tipo Type	Coppia massima Peak torque [ Nm ]	Corrente nominale Rated current [ A ]	Resistenza Resistance [ ohm ]	Induttanza Inductance [ mH ]	Corrente massima Peak current [ A ]	Peso Weight [ kg ]
BLS043.240	0.86	6	0.35	1	12.0	1.25

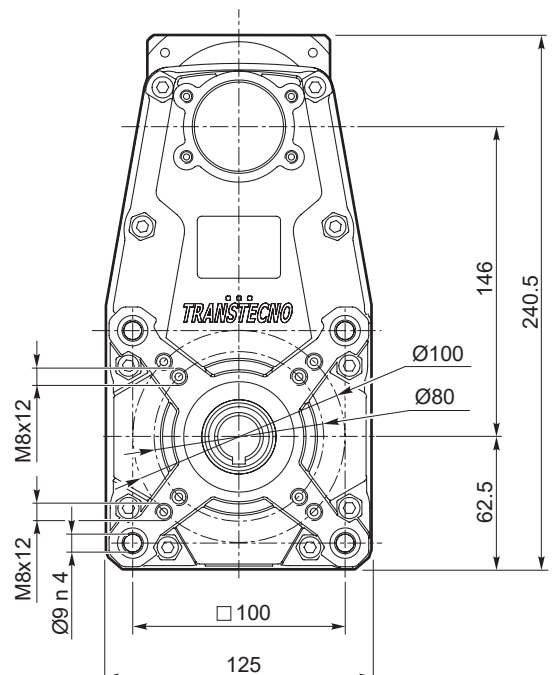
Azionamenti Drives

G2

FT146U + BLS043.240



Albero lento cavo / Hollow output shaft

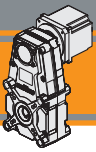


D12

FT146.. AS...

BLFT



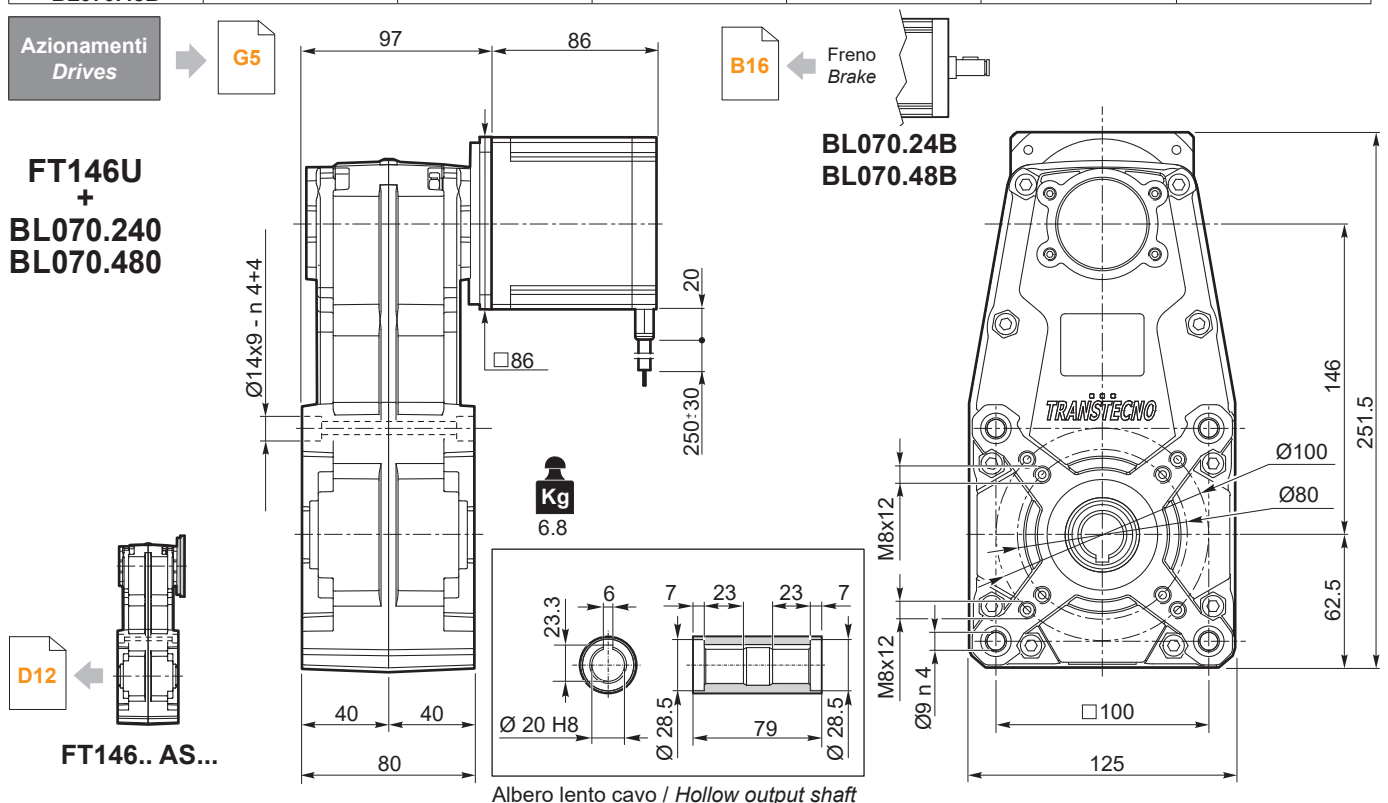


FT146	BL070.240 / BL070.24B / BL070.480 / BL070.48B						
	24V / 48V						
	ir	n <sub>2</sub> MIN [ rpm ]			n <sub>2</sub> MAX [ rpm ]		
M <sub>2</sub> [Nm]		sf		M <sub>2</sub> [Nm]	sf		
18.8	16.0	12	7.5	160	12	5.1	3000
22.9	13.1	15	6.1	131	15	4.1	
26.2	11.5	17	5.3	115	17	3.6	
28.3	10.6	19	4.9	106	19	3.4	
35.1	8.6	23	5.0	86	23	3.4	
39.4	7.6	26	4.3	76	26	2.9	
46.4	6.5	31	3.8	65	31	2.6	
52.9	5.7	35	3.3	57	35	2.2	
60.6	4.9	40	3.2	49	40	2.2	
70.0	4.3	46	2.7	43	46	1.9	
74.0	4.1	49	2.6	41	49	1.8	
84.6	3.5	56	2.3	35	56	1.5	
95.6	3.1	63	2.0	31	63	1.4	
113.4	2.6	75	1.7	26	75	1.1	
133.4	2.2	88	1.4	22	88	1.0	
150.2	2.0	99	1.3	20	99	0.9	
160.4	1.9	106	1.3	19	106	0.9	
178.8	1.7	118	1.2	17	118	0.8	
195.9	1.5	129	1.1	15	129	0.7	
223.9	1.3	147	0.9	13	134	0.7	
236.8	1.3	156	0.9	13	134	0.7	
300.1	1.0	170	0.8	10	134	0.7	
397.4	0.8	170	0.8	7.5	134	0.7	

**NOTA:** per servizio continuo o altamente intermittente, contattare il servizio tecnico **NOTE:** for continuous or highly intermittent duty, please contact our technical service

Attenzione: superamento della coppia nominale supportata dal riduttore per servizio S1. Contattare il ns. servizio tecnico  
Attention: rated torque withstood by gear reducer for service in S1 is exceeded. Please, contact our technical office.

Tipo Type	Numero di poli Number of poles	Numero di fasi Number of phase	Tensione Rated voltage [ V ]	Numero di giri Rated speed [ rpm ]	Coppia nominale Rated torque [ Nm ]	Potenza nominale Rated power [ W ]
BL070.240 BL070.24B BL070.480 BL070.48B	8	3	24	3000	0.7	220
	8	3	48	3000	0.7	220
Tipo Type	Coppia massima Peak torque [ Nm ]	Corrente nominale Rated current [ A ]	Resistenza Resistance [ ohm ]	Induttanza Inductance [ mH ]	Corrente massima Peak current [ A ]	Peso Weight [ kg ]
BL070.240 BL070.24B	2.1	13	0.091	0.23	26	2.1
BL070.480 BL070.48B	1.4	6.5	0.34	1.0	13	2.1





FT146 con motore brushless

FT146 with brushless motor

FT146	BL140.480						n <sub>1MAX</sub> [ rpm ]
	48V						
	ir	n <sub>2MIN</sub> [ rpm ]		n <sub>2MAX</sub> [ rpm ]		n <sub>1MAX</sub> [ rpm ]	
M <sub>2</sub> [Nm]		sf	M <sub>2</sub> [Nm]	sf			
18.8	16.0	25	3.7	160	25	2.5	3000
22.9	13.1	30	3.1	131	30	2.1	
26.2	11.5	34	2.7	115	34	1.8	
28.3	10.6	37	2.5	106	37	1.7	
35.1	8.6	46	2.5	86	46	1.7	
39.4	7.6	53	2.2	76	53	1.5	
46.4	6.5	61	1.9	65	61	1.3	
52.9	5.7	70	1.7	57	70	1.1	
60.6	4.9	80	1.6	49	80	1.1	
70.0	4.3	92	1.4	43	92	0.9	
74.0	4.1	97	1.3	41	97	0.9	
84.6	3.5	111	1.1	35	111	0.8	
95.6	3.1	126	1.0	31	122	0.7	
113.4	2.6	149	0.8	26	122	0.7	
133.4	2.2	158	0.8	22	122	0.7	
150.2	2.0	158	0.8	20	122	0.7	
160.4	1.9	170	0.8	19	134	0.7	
178.8	1.7	170	0.8	17	134	0.7	
195.9	1.5	170	0.8	15	134	0.7	
223.9	1.3	170	0.8	13	134	0.7	
236.8	1.3	170	0.8	13	134	0.7	
300.1	1.0	170	0.8	10	134	0.7	
397.4	0.8	170	0.8	7.5	134	0.7	

**NOTA:** per servizio continuo o altamente intermittente, contattare il servizio tecnico

**NOTE:** for continuous or highly intermittent duty, please contact our technical service

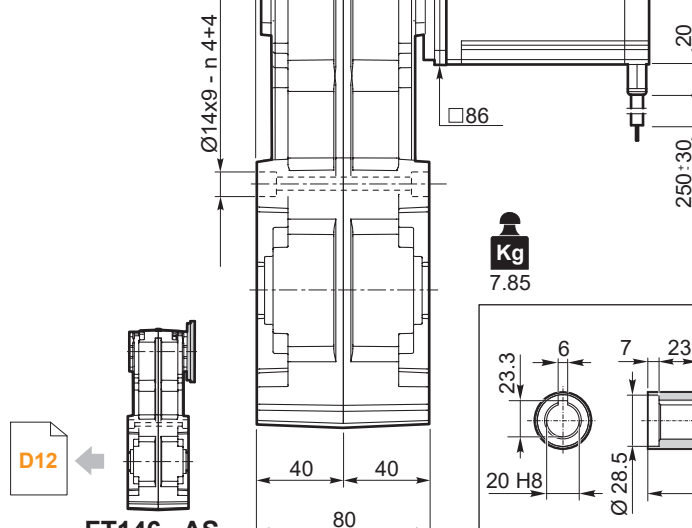
Attenzione: superamento della coppia nominale supportata dal riduttore per servizio S1. Contattare il ns. servizio tecnico  
Attention: rated torque withstood by gear reducer for service in S1 is exceeded. Please, contact our technical office.

Tipo Type	Numero di poli Number of poles	Numero di fasi Number of phase	Tensione Rated voltage [ V ]	Numero di giri Rated speed [ rpm ]	Coppia nominale Rated torque [ Nm ]	Potenza nominale Rated power [ W ]
BL140.480	8	3	48	3000	1.4	440
Tipo Type	Coppia massima Peak torque [ Nm ]	Corrente nominale Rated current [ A ]	Resistenza Resistance [ ohm ]	Induttanza Inductance [ mH ]	Corrente massima Peak current [ A ]	Peso Weight [ kg ]
BL140.480	2.8	13.0	0.16	0.5	26	3.15

Azionamenti  
Drives

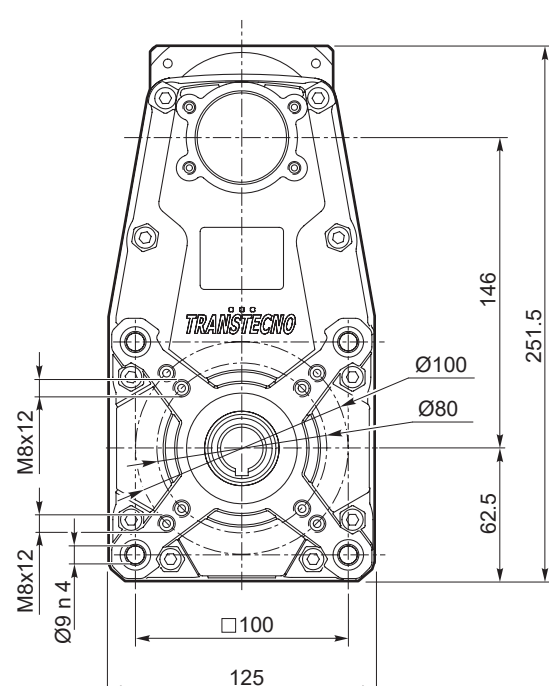


FT146U  
+  
BL140.480



**Kg**  
7.85

Albero lento cavo / Hollow output shaft



D12

FT146.. AS...

BLFT



FT196	BL210.480 / BL210.48E					
	48V					
	ir	n <sub>2</sub> MIN [ rpm ]			n <sub>2</sub> MAX [ rpm ]	
M <sub>2</sub> [Nm]		sf		M <sub>2</sub> [Nm]	sf	n <sub>1</sub> MAX [ rpm ]
20.4	14.7	40	10.0	147	40	6.8
34.8	8.6	69	6.7	86	69	4.5
42.6	7.0	84	6.2	70	84	4.2
59.4	5.1	117	4.9	51	117	3.3
72.7	4.1	143	4.4	41	143	3.0
92.8	3.2	183	3.5	32	183	2.3
123.7	2.4	244	2.6	24	244	1.8
158.0	1.9	312	2.0	19	312	1.4
201.8	1.5	398	1.6	15	398	1.1
269.5	1.1	532	1.2	11	532	0.8

**NOTA:** per servizio continuo o altamente intermittente, contattare il servizio tecnico  
**NOTE:** for continuous or highly intermittent duty, please contact our technical service

Attenzione: superamento della coppia nominale supportata dal riduttore per servizio S1. Contattare il ns. servizio tecnico  
Attention: rated torque withstood by gear reducer for service in S1 is exceeded. Please, contact our technical office.

Tipo Type	Numero di poli Number of poles	Numero di fasi Number of phase	Tensione Rated voltage [ V ]	Numero di giri Rated speed [ rpm ]	Coppia nominale Rated torque [ Nm ]	Potenza nominale Rated power [ W ]
BL210.480 BL210.48E	8	3	48	3000	2.1	660
Tipo Type	Coppia massima Peak torque [ Nm ]	Corrente nominale Rated current [ A ]	Resistenza Resistance [ ohm ]	Induttanza Inductance [ mH ]	Corrente massima Peak current [ A ]	Peso Weight [ kg ]
BL210.480 BL210.48E	4.2	18.7	0.115	0.31	37	4.2

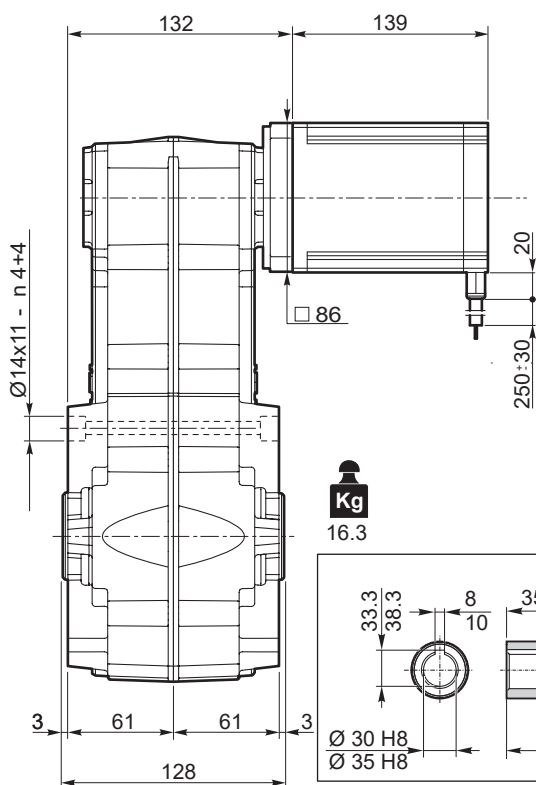
Azionamenti  
Drives



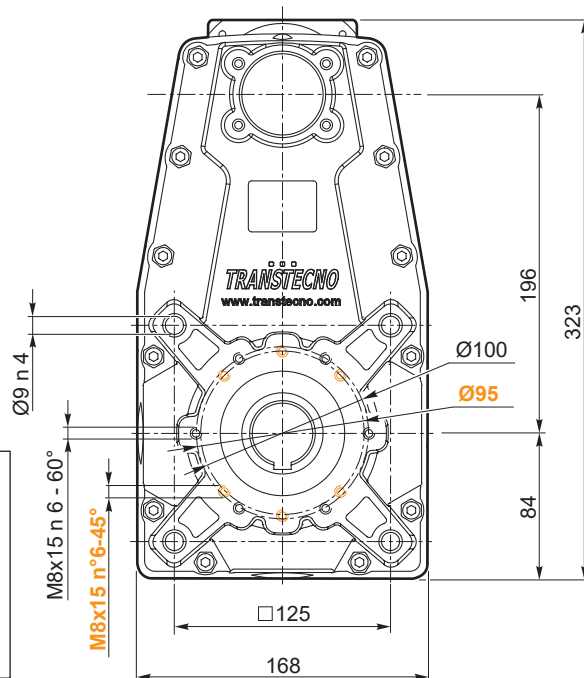
FT196.. AS...

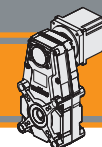
BL210.48E

FT196U  
+  
BL210.480




Albero lento cavo / Hollow output shaft








**Dati tecnici**


**Technical data**


	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$
<b>FT105</b>				
n1 = 1400 rpm	68	40	0.30	20.57
	42	50	0.23	33.32
	32		0.23	44.36
	26		0.18	54.87
	20		0.14	71.84
	18		0.13	77.07
	16	65	0.11	88.87
	11		0.081	124.81
	7.7		0.056	181.35
	6.2		0.045	224.32
4.4		0.032	315.05	
FT105/3	3.8		0.028	368.19
	2.6		0.019	534.98
	2.1		0.015	661.76
	1.5		0.011	929.40
		65		
FT105/4				

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$
<b>FT146</b>				
n1 = 1400 rpm	75		0.65	18.75
	61	80	0.53	22.89
	53		0.47	26.17
	50		0.43	28.26
	40		0.44	35.07
	35	100	0.39	39.44
	30		0.33	46.44
	26		0.29	52.86
	23		0.28	60.63
	20		0.24	70.00
19		0.23	74.04	
17	110	0.20	84.63	
15		0.18	95.61	
12		0.15	113.40	
10		0.13	133.45	
9.3		0.11	150.18	
8.7		0.11	160.43	
7.8		0.10	178.83	
7.1		0.094	195.85	
6.3	120	0.082	223.92	
5.9		0.077	236.83	
4.7		0.061	300.07	
3.5		0.046	397.38	

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$
<b>FT196</b>				
n1 = 1400 rpm	69	350	2.6	20.41
	40	400	1.8	34.81
	33	450	1.6	42.61
	24	500	1.3	59.36
	19		1.1	72.68
	15		0.92	92.82
	11		0.69	123.95
	8.9	550	0.51	158.02
	6.9		0.42	201.80
	5.2		0.32	269.47

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$
<b>FT105</b>				
n1 = 3000 rpm	146	31	0.51	20.57
	90	39	0.39	33.32
	68		0.38	44.36
	55		0.31	54.87
	42		0.24	71.84
	39		0.22	77.07
	34	51	0.19	88.87
	24		0.14	124.81
	17		0.09	181.35
	13		0.08	224.32
10		0.05	315.05	
FT105/3	8.1		0.05	368.19
	5.6		0.03	534.98
	4.5		0.03	661.76
	3.2		0.02	929.40
		51		
FT105/4				

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$
<b>FT146</b>				
n1 = 3000 rpm	160		1.11	18.75
	131	62	0.89	22.89
	115		0.79	26.17
	106		0.73	28.26
	86		0.74	35.07
	76	78	0.66	39.44
	65		0.56	46.44
	57		0.49	52.86
	49		0.47	60.63
	43		0.41	70.00
41		0.39	74.04	
35	86	0.34	84.63	
31		0.30	95.61	
26		0.25	113.40	
22		0.21	133.45	
20		0.19	150.18	
19		0.19	160.43	
17		0.17	178.83	
15		0.16	195.85	
13	94	0.14	223.92	
13		0.13	236.83	
10		0.10	300.07	
7.5		0.08	397.38	

	$n_2$ [min <sup>-1</sup> ]	$Mn_2$ [Nm]	$Pn_1$ [kW]	$i$
<b>FT196</b>				
n1 = 3000 rpm	147	273	4.47	20.41
	86	312	3.37	34.81
	70	351	3.06	42.61
	51	390	2.42	59.36
	41		1.97	72.68
	32		1.54	92.82
	24	429	1.16	123.65
	19		0.91	158.02
	15		0.71	201.80
	11		0.53	269.47

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**NOTE:** for continuous or highly intermittent duty, please contact our technical service

BLFT



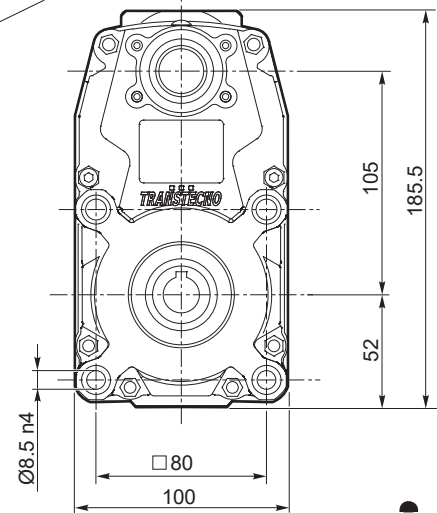
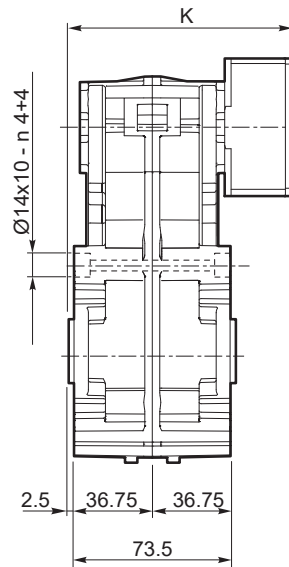
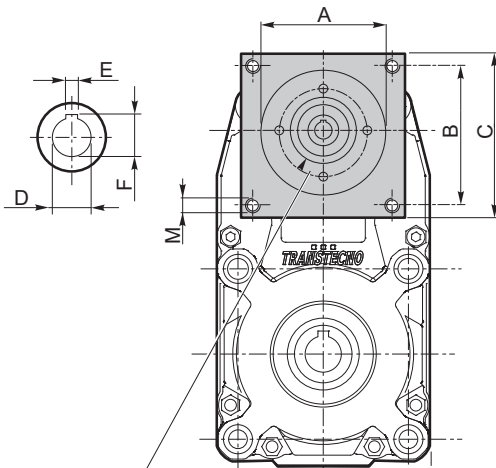
**Dimensioni FT con flange motore AS**

**FT dimensions with motor flanges AS**

**FT105 - U - AS...**

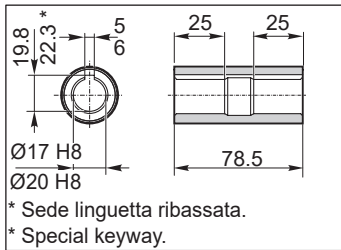
Lo spessore della flangia è variabile in funzione delle diverse lunghezze dell'albero motore.

Flange's thickness may vary depending on motor shaft's length.



Connessione con boccia o giunto in funzione del diametro dell'albero motore.

Connection with sleeve or coupling depending on motor shaft's diameter.



\* Sede linguetta ribassata.  
\* Special keyway.  
Albero lento cavo / Hollow output shaft

**Kg**  
4.2

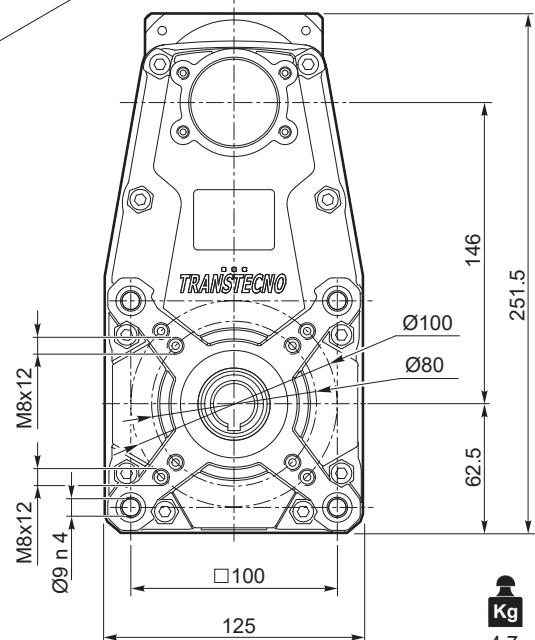
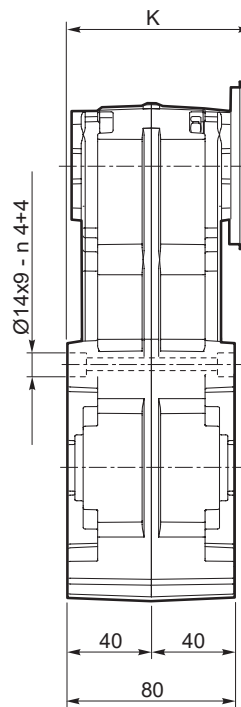
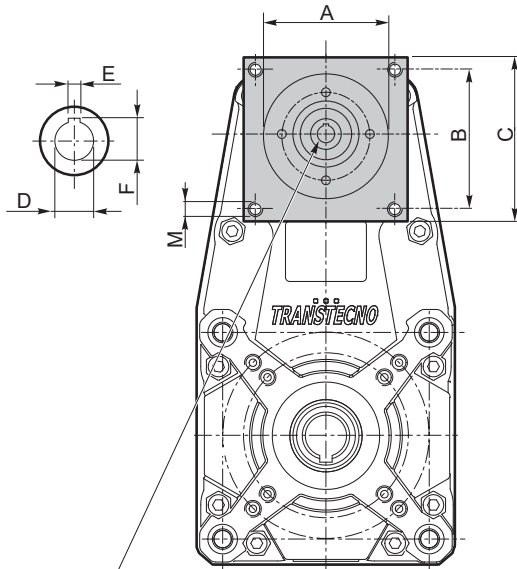
**Dimensioni / Dimensions**

AS	A	B	C	M	K	D	E	F
AS416	38.1	47.1	56.6	M5	101.8	9	3	10.4
...	...	...	...	...	...	...	...	...

**FT146 - U - AS...**

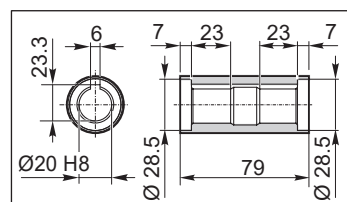
Lo spessore della flangia è variabile in funzione delle diverse lunghezze dell'albero motore.

Flange's thickness may vary depending on motor shaft's length.



Connessione con boccia o giunto in funzione del diametro dell'albero motore.

Connection with sleeve or coupling depending on motor shaft's diameter.

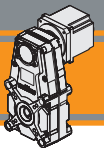


Albero lento cavo / Hollow output shaft

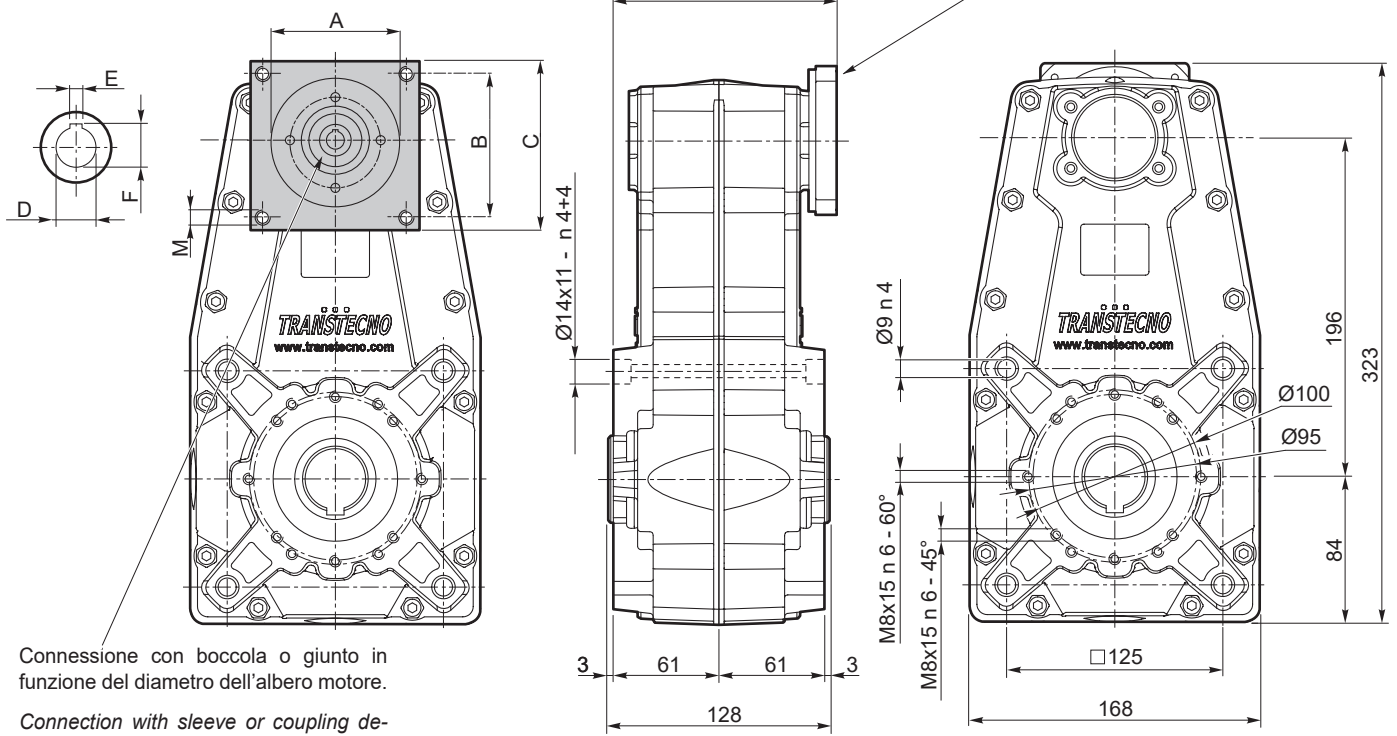
**Kg**  
4.7

**Dimensioni / Dimensions**

AS	A	B	C	M	K	D	E	F
AS392FX	38.1	47.1	64	M5	97	9	3	10.5
						11	4	12.8
						14	5	16.3
AS384FX	73	69.6	86	M5	97	9	3	10.5
						11	4	12.8
						14	5	16.3
...	...	...	...	...	...	...	...	...

**FT****Reduttori planetari brushless CC pendolari**  
**Helical planetary gearmotors****BLFT****Dimensioni FT con flange motore AS****FT dimensions with motor flanges AS****FT196 - U - AS...**Lo spessore della flangia è variabile in funzione delle diverse lunghezze dell'albero motore.  
Flange's thickness may vary depending on motorshaft's length.

Flange's thickness may vary depending on motorshaft's length.

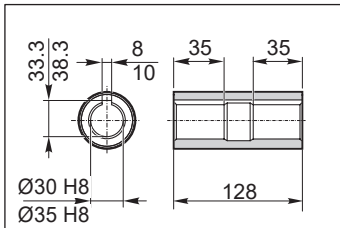


Connessione con boccola o giunto in funzione del diametro dell'albero motore.

Connection with sleeve or coupling depending on motorshaft's diameter.



12.1



Albero lento cavo / Hollow output shaft

**Dimensioni / Dimensions**

AS	A	B	C	M	K	D	E	F
AS363	73	69.4	86	M5	132	14	5	16.3
						19	6	21.8
						24	8	27.3
...	...	...	...	...	...	...	...	...

**BLFT**





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