INTECNO
power transmissions

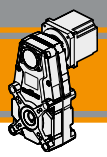
GREEN Line

Brushless DC

FT

Motoriduttori brushless CC pendolari
Brushless DC helical parallel gearmotors

member of TRANSTECNO group



ENERGY SAVING

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Caratteristiche tecniche

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

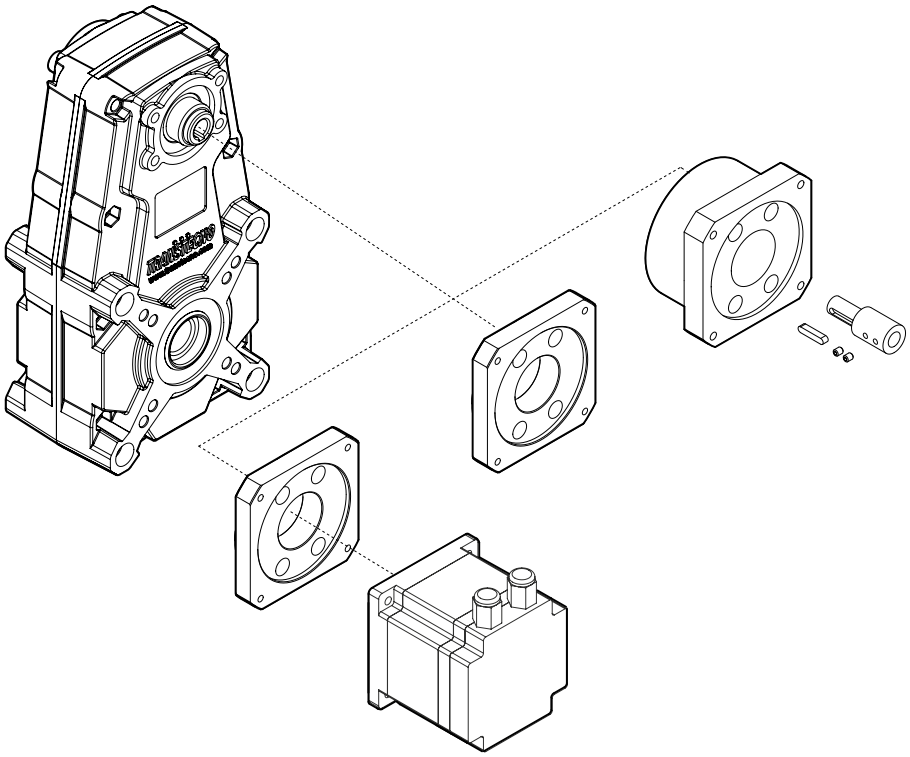
- Alimentazione in bassa tensione 24/36/48 Vcc
- Protezione IP54
- Coppie motori disponibili da 0.22 Nm a 2.1 Nm
- Lubrificazione permanente con olio sintetico
- Carcassa in pressofusione di alluminio
- Ingranaggi cilindrici a denti elicoidali, induriti e rettificati
- Disponibili anche nella versione con solo riduttore, sia con flangia di entrata standard che con flangia e manicotto dedicati

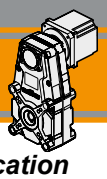
Technical features

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

- *Low voltage power supply 24/36/48 Vdc*
- *Protection IP54*
- *Motor torque ratings available from 0.22 Nm up to 2.1 Nm*
- *Permanent sinthetic 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*

ENERGY SAVING





Designazione — *Classification*

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

Simbologia — *Symbols*

Ns		n° stadi / *No. stages*
ir		rapporto reale / *real ratio*
M_2	[Nm]	coppia in uscita *output torque*
A_2	[N]	Carico assiale ammissibile in uscita Permitted output *axial load*
R_2	[N]	Carico radiale ammissibile in uscita *Permitted output radial load*
Pn_1	[kW]	Potenza nominale in entrata *Nominal input power*
Mn_2	[Nm]	Coppia nominale in uscita in funzione di Pn1 *Nominal output torque referred to Pn1*
n_{1MAX}	[Rpm]	Velocità max entrata / *Max input speed*
V	[V]	*Tensione / Voltage*
n_2	[Rpm]	Velocità in uscita / *Output Speed*
IP		Grado di protezione / *Enclosure protection*
Kg		Peso / *Weight*
sf		Fattore di servizio / *Service Factor*

Lubrificazione e temperaura — *Lubrication and temperature*

I motoriduttori FT 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 lubrification (viscosity grade 320) on FT gearmotors.
Ambient temperature 0 ÷ 40 °C (in the absence of freezing and condensation).
For temperature outside this range please contact our technical dept.

FT105 con motore brushless CC

FT105 with brushless DC motor

FT105		BLS022.240												
		24V							36V					
ir	Ns	n_{2MIN} [rpm]			n_{2MAX} [rpm]			n_{1MAX} [rpm]	n_{2MIN} [rpm]			n_{2MAX} [rpm]			n_{1MAX} [rpm]
			M_2 [Nm]	sf		M_2 [Nm]	sf			M_2 [Nm]	sf		M_2 [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	4	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	

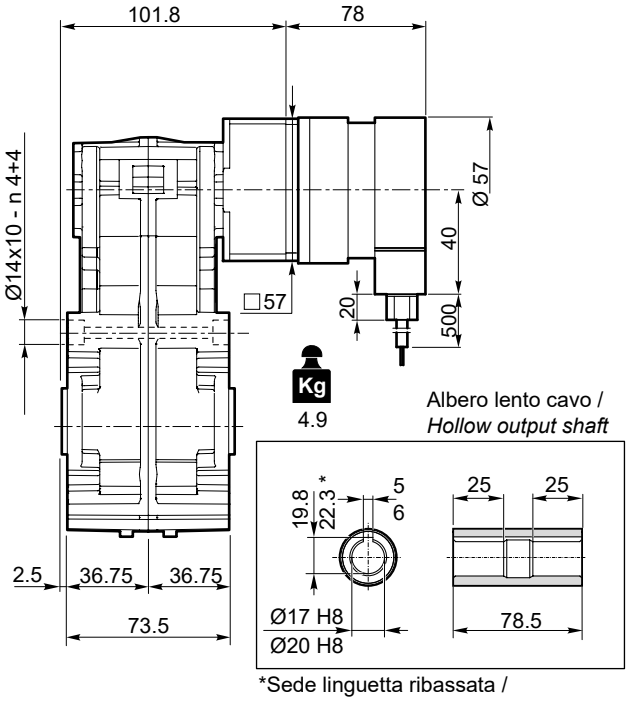
Attenzione: superamento della coppia nominale supportata dal riduttore per servizio S1. Contattare il ns. servizio tecnico
Attention: rated torque withstood by gear reducer for service in S1 is exceeded. Please, contact our technical office.

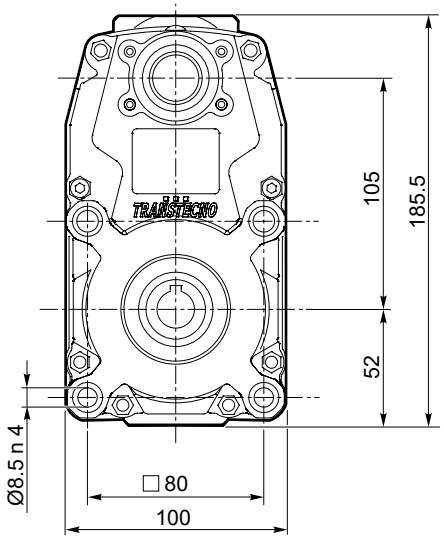
Tipo *Type*	Numero di poli *Number of poles*	Numero di fasi *Number of phase*	Tensione *Rated voltage [V]*	Numero di giri *Rated speed* [rpm]	Coppia nominale *Rated torque* [Nm]	Potenza nominale *Rated power* [W]
BLS022.240	4	3	36	4000	0.22	92
			24	3000		70

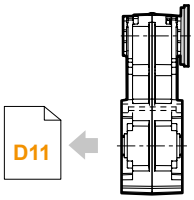
Tipo *Type*	Coppia massima *Peak torque* [Nm]	Corrente nominale *Rated current* [A]	Resistenza *Resistance* [ohm]	Induttanza *Inductance* [mH]	Corrente massima *Peak current* [A]	Peso *Weight* [kg]
BLS022.240	0.44	3.7	0.64	3.1	7.4	0.72

Azionamenti *Drives* → H1

FT105U + BLS022.240







D11

FT105.. AS...

FT105 con motore brushless CC

FT105 with brushless DC motor

FT105		BLS043.240												
		24V							36V					
ir	Ns	n_{2MIN} [rpm]	M_2 [Nm]	sf	n_{2MAX} [rpm]	M_2 [Nm]	sf	n_{1MAX} [rpm]	n_{2MIN} [rpm]	M_2 [Nm]	sf	n_{2MAX} [rpm]	M_2 [Nm]	sf	n_{1MAX} [rpm]
20.6	3	14.6	8.3	5.5	146	8.3	3.8	3000	19.4	8.3	5.5	194	8.3	3.3	4000
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	4	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	

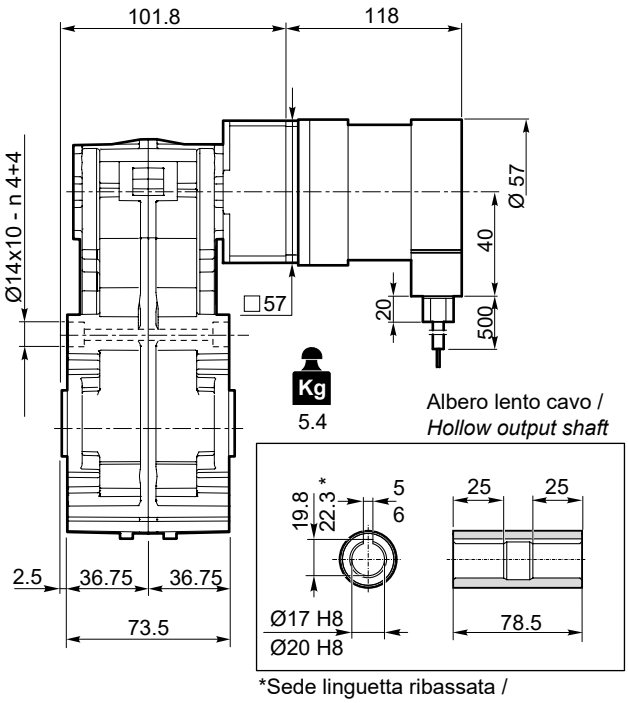
Attenzione: superamento della coppia nominale supportata dal riduttore per servizio S1. Contattare il ns. servizio tecnico
Attention: rated torque withstood by gear reducer for service in S1 is exceeded. Please, contact our technical office.

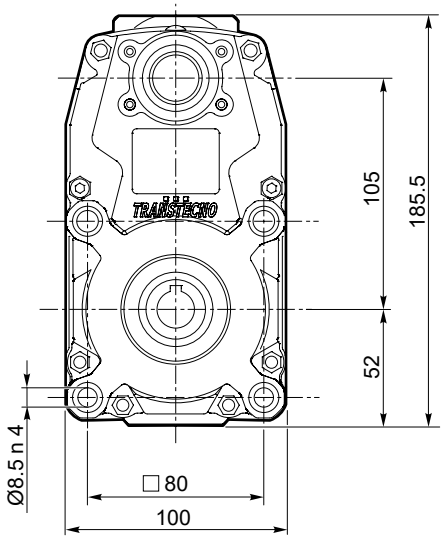
Tipo *Type*	Numero di poli *Number of poles*	Numero di fasi *Number of phase*	Tensione *Rated voltage [V]*	Numero di giri *Rated speed* [rpm]	Coppia nominale *Rated torque* [Nm]	Potenza nominale *Rated power* [W]
BLS043.240	4	3	36	4000	0.43	180
			24	3000		130

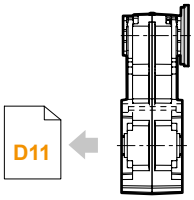
Tipo *Type*	Coppia massima *Peak torque* [Nm]	Corrente nominale *Rated current* [A]	Resistenza *Resistance* [ohm]	Induttanza *Inductance* [mH]	Corrente massima *Peak current* [A]	Peso *Weight* [kg]
BLS043.240	0.86	6	0.35	1	12.0	1.25

Azionamenti *Drives* → H1

FT105U + BLS043.240







FT105.. AS...

FT146 con motore brushless CC

FT146 with brushless DC motor

FT146	BLS043.240													
	24V							36V						
ir	n_{2MIN} [rpm]			n_{2MAX} [rpm]			n_{1MAX} [rpm]	n_{2MIN} [rpm]			n_{2MAX} [rpm]			n_{1MAX} [rpm]
		M_2 [Nm]	sf		M_2 [Nm]	sf			M_2 [Nm]	sf		M_2 [Nm]	sf	
18.8	16.0	7.6	12.1	160	7.6	8.2		21.3	7.6	12.1	213	7.6	7.3	
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	
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	3000	4.2	39	3.3	42	39	2.0	4000
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	
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	

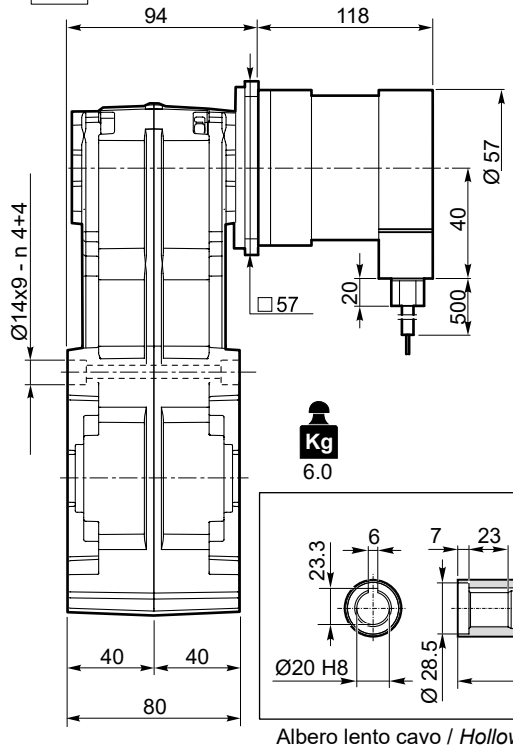
Attenzione: superamento della coppia nominale supportata dal riduttore per servizio S1. Contattare il ns. servizio tecnico
Attention: rated torque withstood by gear reducer for service in S1 is exceeded. Please, contact our technical office.

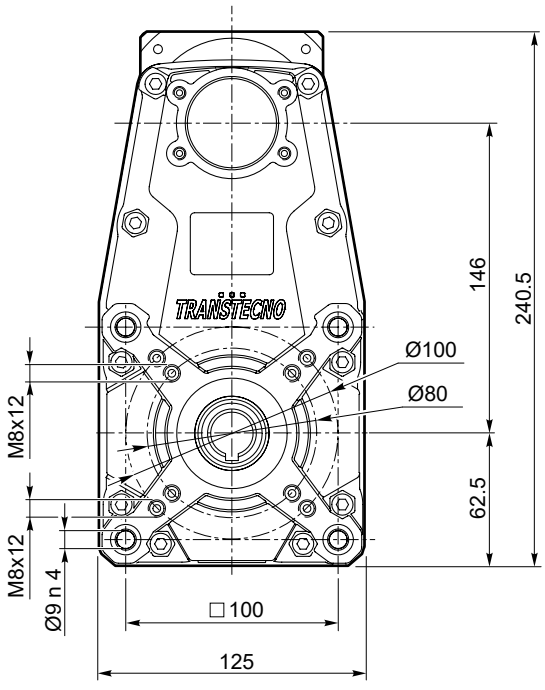
Tipo *Type*	Numero di poli *Number of poles*	Numero di fasi *Number of phase*	Tensione *Rated voltage [V]*	Numero di giri *Rated speed* [rpm]	Coppia nominale *Rated torque* [Nm]	Potenza nominale *Rated power* [W]
BLS043.240	4	3	36	4000	0.43	180
			24	3000		130

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* → H1

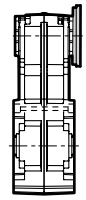
FT146U + BLS043.240



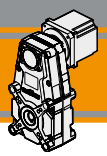


Albero lento cavo / *Hollow output shaft*

D11 ←



FT146.. AS...



FT146 con motore brushless CC

FT146 with brushless DC motor

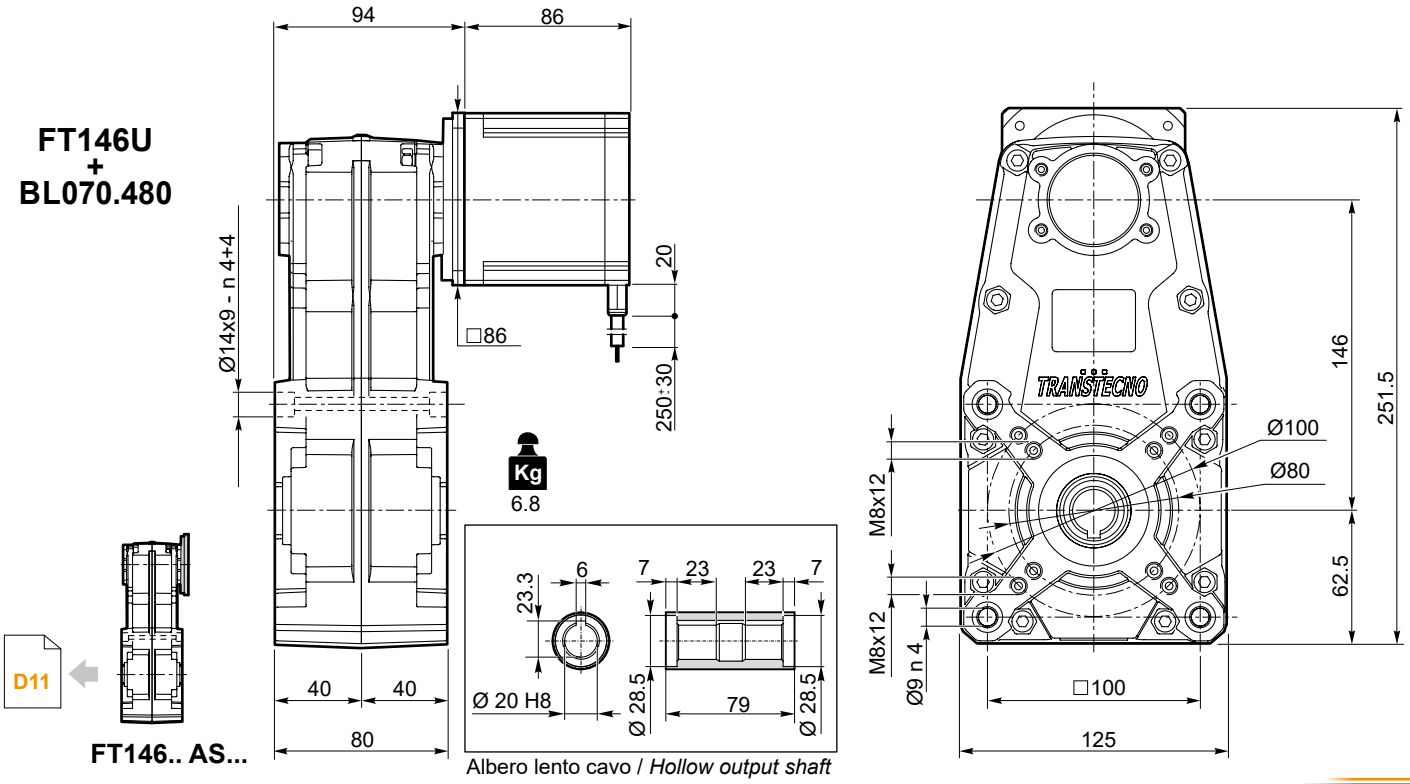
FT146	BL070.480 48V						
ir	n_{2MIN} [rpm]			n_{2MAX} [rpm]			n_{1MAX} [rpm]
		M_2 [Nm]	sf		M_2 [Nm]	sf	
18.8	16.0	12	7.5	160	12	5.1	3000
26.2	11.5	17	5.3	115	17	3.6	
28.3	10.6	19	4.9	106	19	3.4	
35.1	8.6	23	5.0	86	23	3.4	
39.4	7.6	26	4.3	76	26	2.9	
46.4	6.5	31	3.8	65	31	2.6	
52.9	5.7	35	3.3	57	35	2.2	
60.6	4.9	40	3.2	49	40	2.2	
70.0	4.3	46	2.7	43	46	1.9	
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	
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	

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]
BL070.480	8	3	48	3000	0.70	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]**
BL070.480	1.4	6.5	0.34	1.0	13.0	2.1

Azionamenti *Drives* → H1

FT146U + BL070.480



D11 → **FT146.. AS...**

Albero lento cavo / *Hollow output shaft*

FT146 con motore brushless CC

FT146 with brushless DC motor

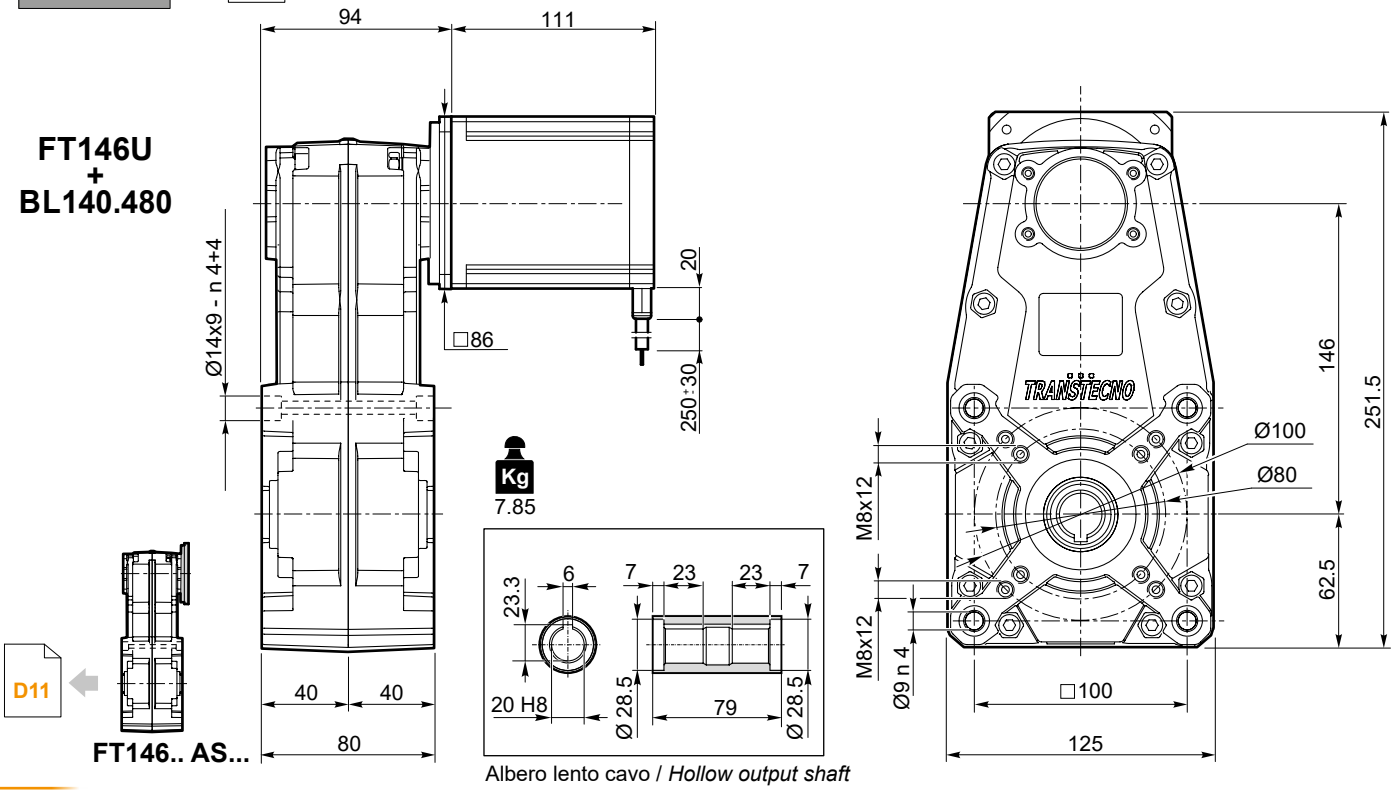
FT146	BL140.480 48V						
ir	n_{2MIN} [rpm]	M_2 [Nm]	sf	n_{2MAX} [rpm]	M_2 [Nm]	sf	n_{1MAX} [rpm]
18.8	16.0	25	3.7	160	25	2.5	3000
26.2	11.5	34	2.7	115	34	1.8	
28.3	10.6	37	2.5	106	37	1.7	
35.1	8.6	46	2.5	86	46	1.7	
39.4	7.6	53	2.2	76	53	1.5	
46.4	6.5	61	1.9	65	61	1.3	
52.9	5.7	70	1.7	57	70	1.1	
60.6	4.9	80	1.6	49	80	1.1	
70.0	4.3	92	1.4	43	92	0.9	
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	
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	

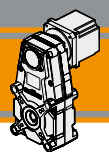
Attenzione: superamento della coppia nominale supportata dal riduttore per servizio S1. Contattare il ns. servizio tecnico
Attention: rated torque withstood by gear reducer for service in S1 is exceeded. Please, contact our technical office.

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* → H1

FT146U + BL140.480





FT196 con motore brushless CC

FT196 with brushless DC motor

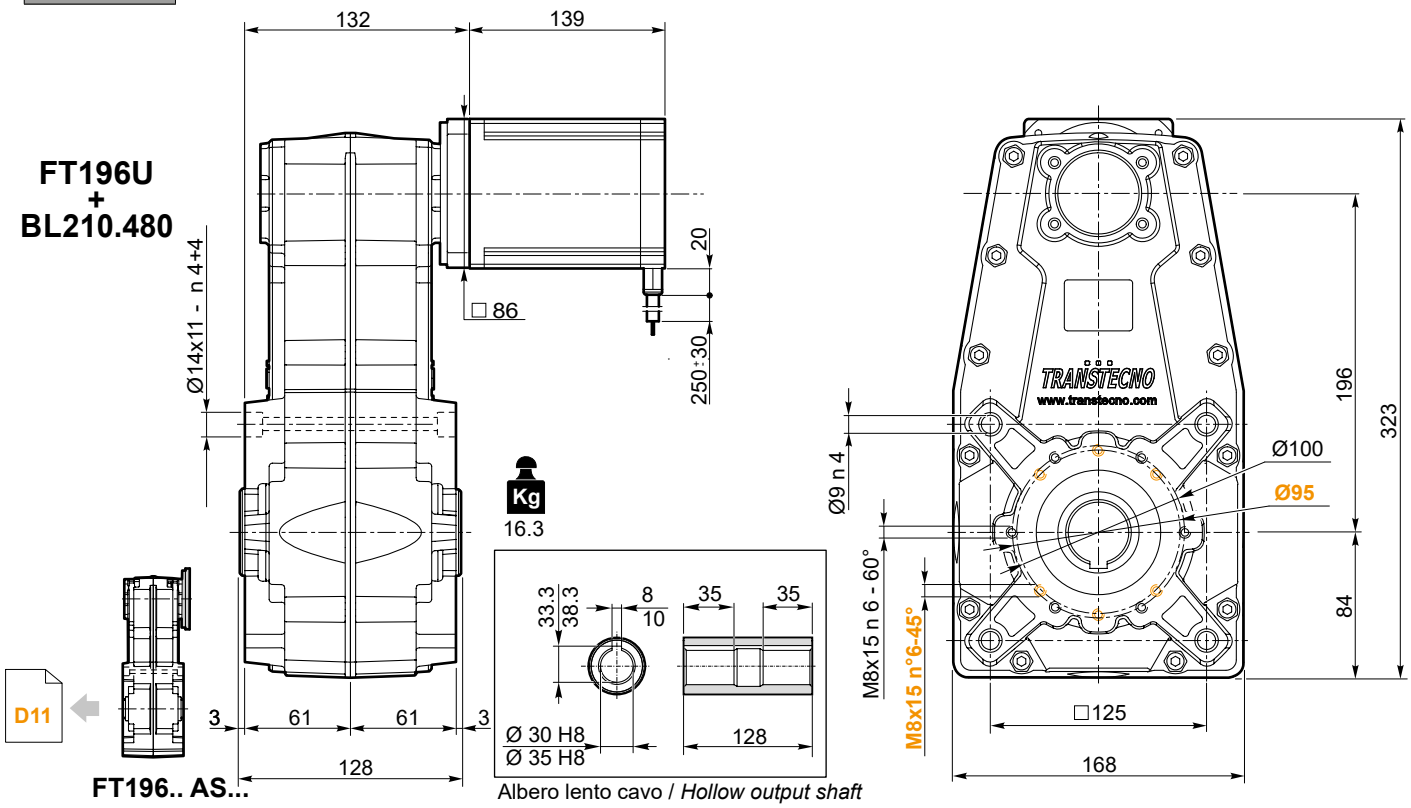
FT196	BL210.480						
	48V						
ir	n_{2MIN} [rpm]			n_{2MAX} [rpm]			n_{1MAX} [rpm]
		M_2 [Nm]	sf		M_2 [Nm]	sf	
20.4	14.7	40	10.0	147	40	6.8	3000
34.8	8.6	69	6.7	86	69	4.5	
42.6	7.0	84	6.2	70	84	4.2	
59.4	5.1	117	4.9	51	117	3.3	
72.7	4.1	143	4.4	41	143	3.0	
92.8	3.2	183	3.5	32	183	2.3	
123.7	2.4	244	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	

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	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	4.2	18.7	0.115	0.31	37	4.2

Azionamenti *Drives* → H1

FT196U + BL210.480



Dati tecnici

Technical data

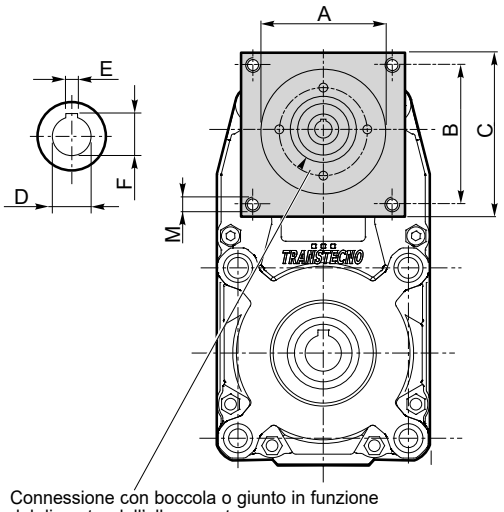
	n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
FT105				
n1 = 1400 rpm	**68**	40	0.30	20.57
	42	50	0.23	33.32
FT105/3	**32**	65	0.23	44.36
	26		0.18	54.87
	20		0.14	71.84
	18		0.13	77.07
	16		0.11	88.87
	11		0.081	124.81
	7.7		0.056	181.35
	6.2		0.045	224.32
	4.4		0.032	315.05
FT105/4	**3.8**	65	0.028	368.19
	2.6		0.019	534.98
	2.1		0.015	661.76
	1.5		0.011	929.40
FT146				
n1 = 1400 rpm	**75**	80	0.65	18.75
	53		0.47	26.17
	50		0.43	28.26
	40	100	0.44	35.07
	35		0.39	39.44
	30		0.33	46.44
	26		0.29	52.86
	23	110	0.28	60.63
	20		0.24	70.00
	17		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	120	0.11	160.43
	7.8		0.10	178.83
	6.3		0.082	223.92
	5.9		0.077	236.83
	4.7		0.061	300.07
	3.5		0.046	397.38
FT196				
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	550	1.1	72.68
	15		0.92	92.82
	11		0.69	123.95
	8.9		0.51	158.02
	6.9		0.42	201.80
	5.2		0.32	269.47

	n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
FT105				
n1 = 3000 rpm	**146**	31	0.51	20.57
	90	39	0.39	33.32
FT105/3	**68**	51	0.38	44.36
	55		0.31	54.87
	42		0.24	71.84
	39		0.22	77.07
	34		0.19	88.87
	24		0.14	124.81
	17		0.09	181.35
	13		0.08	224.32
	10		0.05	315.05
FT105/4	**8.1**	51	0.05	368.19
	5.6		0.03	534.98
	4.5		0.03	661.76
	3.2		0.02	929.40
FT146				
n1 = 3000 rpm	**160**	62	1.11	18.75
	115		0.79	26.17
	106		0.73	28.26
	86	78	0.74	35.07
	76		0.66	39.40
	65		0.56	46.44
	57		0.49	52.86
	49	86	0.47	60.63
	43		0.41	70.00
	35		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	94	0.19	160.43
	17		0.17	178.83
	13		0.14	223.92
	13		0.13	236.83
	10		0.10	300.07
	7.5		0.08	397.38
FT196				
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	429	1.97	72.68
	32		1.54	92.82
	24		1.16	123.65
	19		0.91	158.02
	15		0.71	201.80
	11		0.53	269.47

Dimensioni FT con flange motore AS

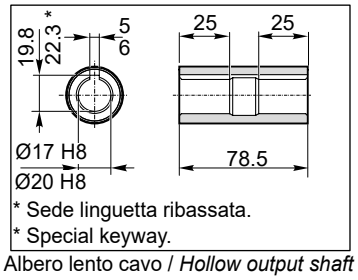
FT dimensions with motor flanges AS

FT105 - U - AS...



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

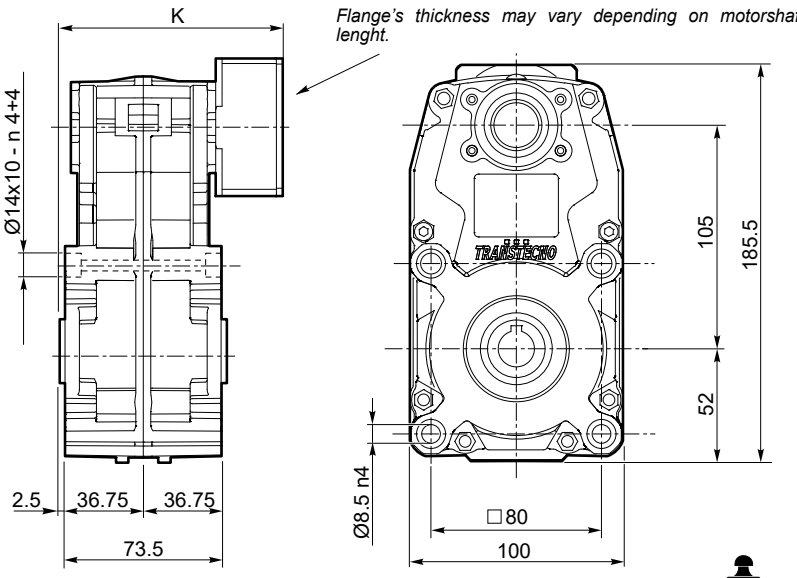
Connection with sleeve or coupling depending on motorshaft's diameter.



Albero lento cavo / *Hollow output shaft*

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

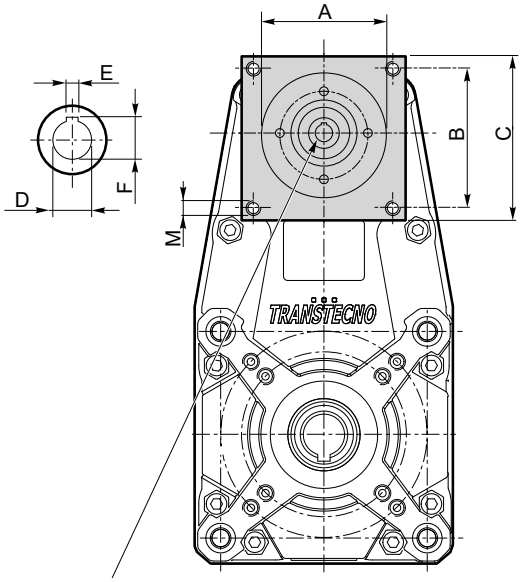
Flange's thickness may vary depending on motorshaft's lenght.



Kg 4.2

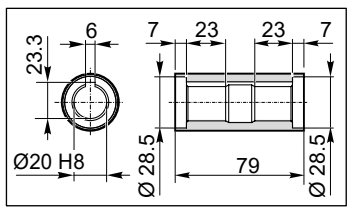
Dimensioni / Dimensions								
AS	**A**	**B**	**C**	**M**	**K**	**D**	**E**	**F**
AS416	38.1	47.1	56.6	M5	101.8	9	3	10.4
...	...	...	...	...	...	...	...	...

FT146 - U - AS...



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

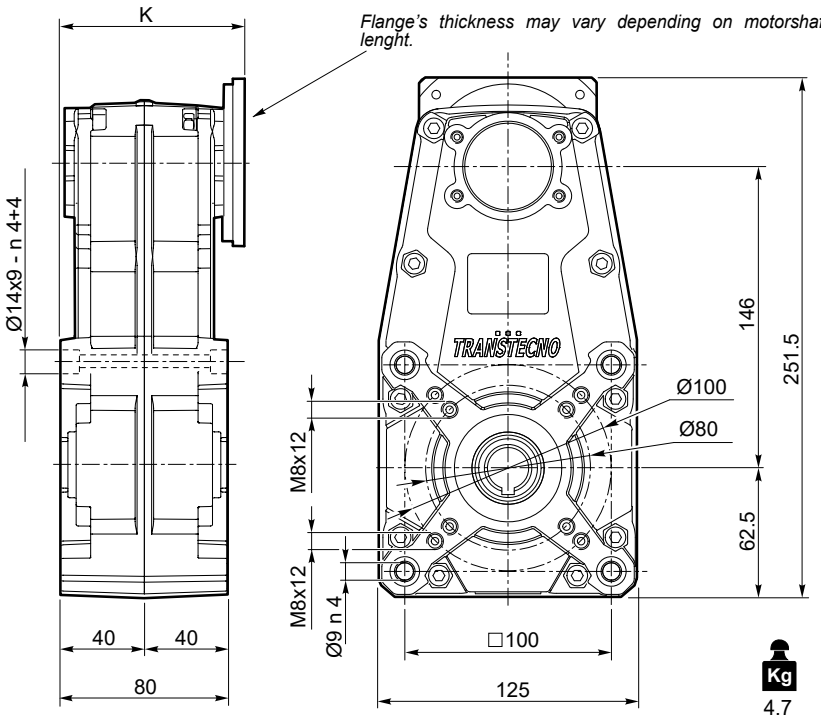
Connection with sleeve or coupling depending on motorshaft's diameter.



Albero lento cavo / *Hollow output shaft*

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

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



Kg 4.7

Dimensioni / Dimensions								
AS	**A**	**B**	**C**	**M**	**K**	**D**	**E**	**F**
AS392	38.1	47.1	64	M5	94	9	3	10.5
						11	4	12.8
						14	5	16.3
AS384	73	69.6	86	M5	94	9	3	10.5
						11	4	12.8
						14	5	16.3
...	...	...	...	...	...	...	...	...

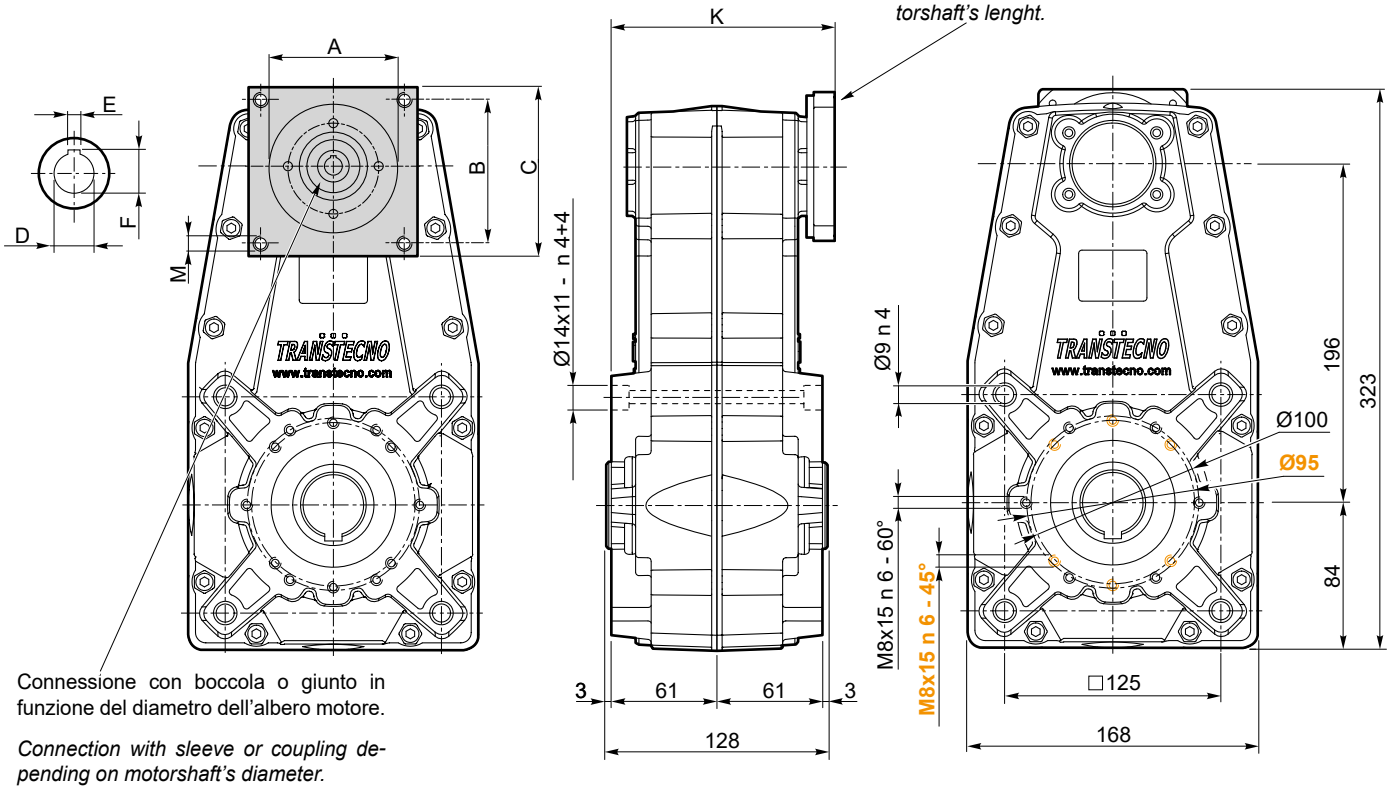
Dimensioni FT con flange motore AS

FT dimensions with motor flanges AS

FT196 - U - AS...

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

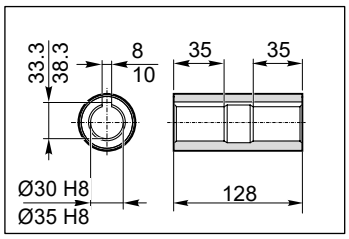
Flange's thickness may vary depending on motorshaft's lenght.



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

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

Kg 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
...	...	...	...	...	...	...	...	...

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