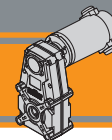




Ferrite

Motoriduttori CC pendolari DC helical parallel gearmotors

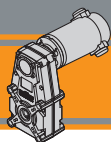




Indice	Index	Pag. Page
Caratteristiche tecniche	<i>Technical features</i>	N2
Designazione	<i>Classification</i>	N2
Sensi di rotazione	<i>Direction of rotation</i>	N3
Simbologia	<i>Symbols</i>	N3
Lubrificazione	<i>Lubrication</i>	N3
Carichi radiali	<i>Radial loads</i>	N4
Dati tecnici	<i>Technical data</i>	N5
Motori applicabili	<i>Motor adapters</i>	N6
Dimensioni	<i>Dimensions</i>	N7

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

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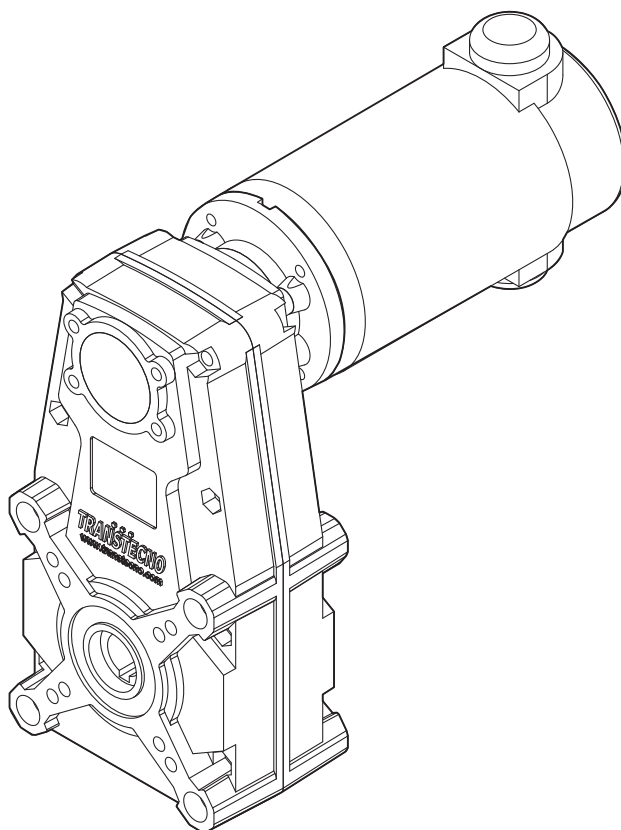
**ECFT****Motoriduttori CC pendolari**
DC Helical parallel gearmotors**Caratteristiche tecniche****Technical features**

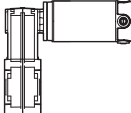
I motoriduttori CC pendolari a magneti permanenti in ferrite ECFT hanno le seguenti caratteristiche principali:

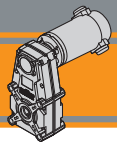
ECFT ferrite permanent magnets DC helical parallel gearmotors range has the following main features:

- Alimentazione in bassa tensione 12/24 Vcc
- Possibilità di montaggio encoder e freno
- Potenze motore disponibili da 100 a 800W S2
- Magneti in ferrite
- Carcasa pressofusione di alluminio
- Lubrificazione permanente con olio sintetico.
- Ingranaggi cilindrici a denti elicoidali.

- Low voltage power supply 12/24 Vdc
- Suitable for encoder and brake assembly
- Motor power ratings available from 100 to 800W S2
- Ferrite magnets
- Die-cast aluminum housings
- Permanent synthetic oil long-life lubrication.
- helical gears.

**Designazione****Classification**

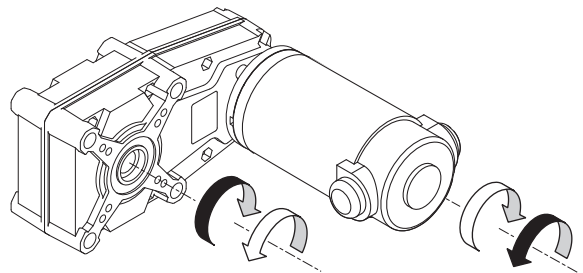
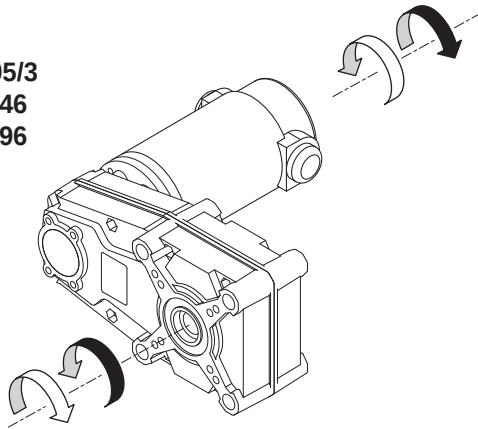
MOTORIDUTTORE / GEARMOTORS											
ECFT		180/146						U	60.63	O20	B5
Tipo Type		Grandezza Size						Versione Version	Rapporto Ratio	Albero cavo uscita Hollow output shaft	Versione motore Motor version
ECFT		070/105/3 070/105/4 070/146	100/105/3 100/146	180/105/3 180/146	250/146 250/196	350/146 350/196	600/146 600/196	U...	vedi tabelle see tables	vedi tabelle see tables	120 240 12E 24E
											



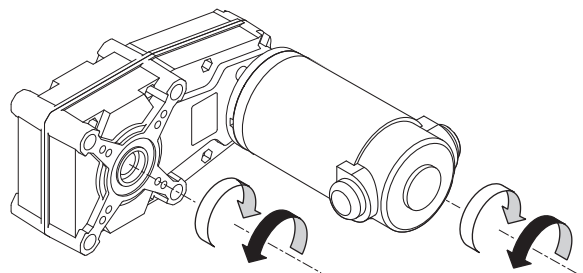
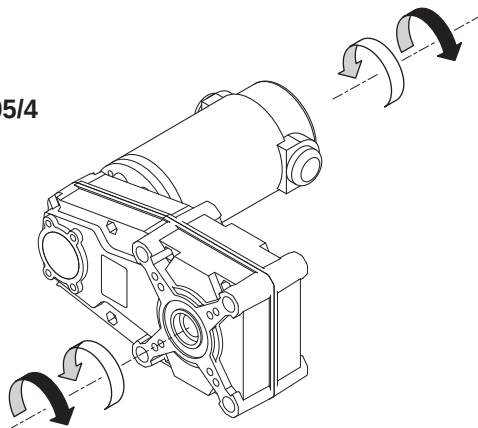
Sensi di rotazione

Direction of rotation

FT105/3
FT146
FT196



FT105/4



Simbologia

Symbols

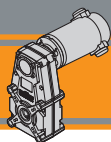
n_1	[min ⁻¹]	Velocità in ingresso / <i>Input speed</i>
n_2	[min ⁻¹]	Velocità in uscita / <i>Output speed</i>
i		Rapporto di riduzione / <i>Ratio</i>
P_1	[kW]	Potenza in entrata / <i>Input power</i>
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / <i>Output torque referred to P_1</i>
P_{n1}	[kW]	Potenza nominale in entrata / <i>Nominal input power</i>
M_{n2}	[Nm]	Coppia nominale in uscita in funzione di P_{n1} / <i>Nominal output torque referred to P_{n1}</i>
sf		Fattore di servizio / <i>Service factor</i>
R_2	[N]	Carico radiale ammissibile in uscita / <i>Permitted output radial load</i>
A_2	[N]	Carico assiale ammissibile in uscita / <i>Permitted output axial load</i>

Lubrificazione

Lubrication

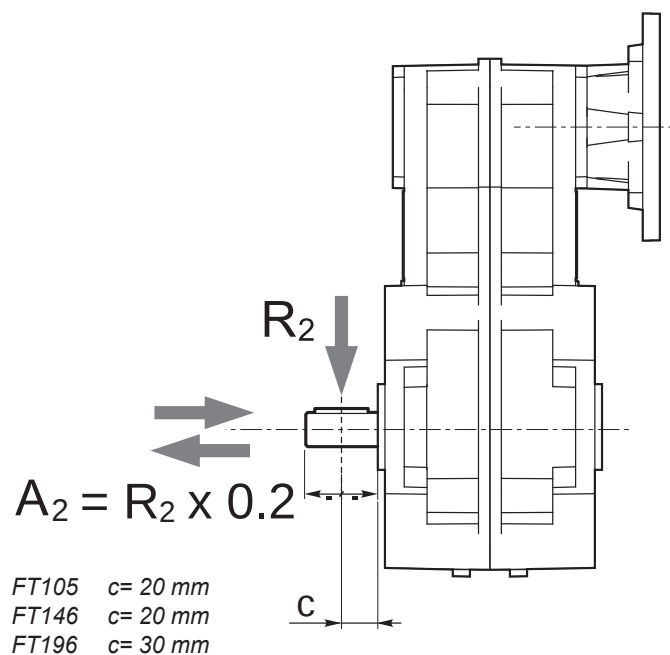
Tutti i motoriduttori sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.



Carichi radiali

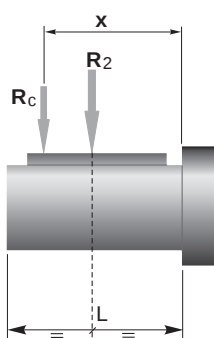
Radial loads



n_2 [min ⁻¹]	R_2 [N]		
	FT105	FT146	FT196
70	1500	2500	3500
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 mezzera 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:

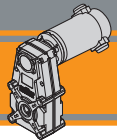


	FT105	FT146	FT196
a	82	82,5	132
b	62	62,5	102
R_{2MAX}	2000	3000	7000

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

$$R \leq R_c$$

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



Dati tecnici

Technical data

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
-----------------------	--	------------------------	----	---	---	----------------------------------

100

(3000 min ⁻¹)	146	6	5.1	20.57	070/105/3	12E/24E
	90	10	3.9	33.32		
	68	13	3.8	44.36		
	55	16	3.1	54.87		
	42	21	2.4	71.84		
	39	23	2.2	77.07		
	34	27	1.9	88.87		
	24	37	1.4	124.81		
	17	54	0.9	181.35		
	13	67	0.8	224.32		
	9.5	86	0.6	315.05	070/105/4	12E/24E
	8.1	86	0.6	368.19		
	5.6	86	0.6	534.98		
	4.5	86	0.6	661.76		
	3.2	86	0.6	929.40		
	160	6	11.1	18.75	070/146	12E/24E
	115	8	8.0	26.17		
	106	8	7.4	28.26		
	86	10	7.4	35.07		
	76	12	6.6	39.44		
	65	14	5.6	46.44		
	57	16	4.9	52.86		
	49	18	4.7	60.63		
	43	21	4.1	70.00		
	35	25	3.4	84.63		
	31	29	3.0	95.61		
	26	34	2.5	113.40		
	22	40	2.1	133.45		
	20	45	1.9	150.18		
	19	48	1.9	160.43		
	17	54	1.7	178.83		
	13	67	1.4	223.92		
	13	71	1.3	236.83		
	10	90	1.0	300.07		
	7.5	119	0.8	397.38		

140

(3000 min ⁻¹)	146	9	3.6	20.57	100/105/3	120/240/24E
	90	14	2.8	33.32		
	68	19	2.7	44.36		
	55	23	2.2	54.87		
	42	30	1.7	71.84		
	39	32	1.6	77.07		
	34	37	1.4	88.87		
	24	52	1.0	124.81		
	16.5	76	0.7	181.35		
	160	8	7.9	18.75	100/146	120/240/24E
	115	11	5.7	26.17		
	106	12	5.3	28.26		
	86	15	5.3	35.07		
	76	17	4.7	39.44		
	65	19	4.0	46.44		
	57	22	3.5	52.86		
	49	25	3.4	60.63		
	43	29	2.9	70.00		
	35	35	2.4	84.63		

140

(3000 min ⁻¹)	31	40	2.1	95.61	100/146	120/240/24E
	26	48	1.8	113.40		
	22	56	1.5	133.45		
	20	63	1.4	150.18		
	19	67	1.4	160.43		
	17	75	1.2	178.83		
	13	94	1.0	223.92		
	13	99	0.9	236.83		
	10	126	0.7	300.07		

250

(3000 min ⁻¹)	146	15	2.0	20.57	180/105/3	120/240
	90	25	1.6	33.32		
	68	33	1.5	44.36		
	55	41	1.2	54.87		
	42	54	0.9	71.84		
	39	58	0.9	77.07		
	34	66	0.8	88.87		
	160	14	4.4	18.75	180/146	120/240/24E
	115	20	3.2	26.17		
	106	21	3.0	28.26		
	86	26	3.0	35.07		
	76	30	2.6	39.44		
	65	35	2.2	46.44		
	57	40	2.0	52.86		
	49	45	1.9	60.63		
	43	52	1.6	70.00		
	35	63	1.4	84.63		
	31	72	1.2	95.61		
	26	85	1.0	113.40		
	22	100	0.9	133.45		
	20	112	0.8	150.18		
	19	120	0.8	160.43		
	17	134	0.7	178.83		

350

(3000 min ⁻¹)	160	20	3.2	18.75	250/146	120/240
	115	27	2.3	26.17		
	106	30	2.1	28.26		
	86	37	2.1	35.07		
	76	41	1.9	39.44		
	65	49	1.6	46.44		
	57	55	1.4	52.86		
	49	64	1.4	60.63		
	43	73	1.2	70.00		
	35	89	1.0	84.63		
	31	100	0.9	95.61		
	26	119	0.7	113.40		

NOTA

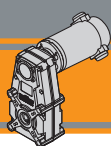
Verificare sempre che la coppia M₂ utilizzata non ecceda il valore indicato nelle caselle in grigio

NOTE

Please check that the output torque M₂ does not exceed the value in the grey areas

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

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



Dati tecnici

Technical data

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
-----------------------	--	------------------------	----	---	---	----------------------------------

350

(3000 min ⁻¹)	147	21	12.8	20.41	250/196	120/240
	86	36	8.6	34.81		
	70	45	7.9	42.61		
	51	62	6.3	59.36		
	41	76	5.6	72.68		
	32	97	4.4	92.82		
	24	130	3.3	123.95		
	19	165	2.6	158.02		
	15	211	2.0	201.80		
	11	282	1.5	269.47		

500

(3000 min ⁻¹)	160	28	2.2	18.75	350/146	120/240
	115	39	1.6	26.17		
	106	42	1.5	28.26		
	86	52	1.5	35.07		
	76	59	1.3	39.44		
	65	69	1.1	46.44		
	57	79	1.0	52.86		
	49	91	0.9	60.63		
	43	105	0.8	70.00		
	147	31	8.9	20.41	350/196	120/240
	86	52	6.0	34.81		
	70	64	5.5	42.61		
	51	89	4.4	59.36		
	41	109	3.9	72.68		
	32	139	3.1	92.82		
	24	185	2.3	123.95		
	19	236	1.8	158.02		
	15	302	1.4	201.80		
	11	403	1.1	269.47		

800

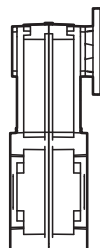
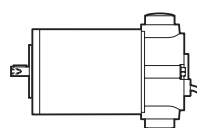
(3000 min ⁻¹)	160	45	1.4	18.75	600/146	120/240
	115	63	1.0	26.17		
	106	68	0.9	28.26		
	86	84	0.9	35.07		
	76	94	0.8	39.44		
	65	111	0.7	46.44		
	147	49	5.6	20.41	600/196	120/240
	86	83	3.7	34.81		
	70	102	3.4	42.61		
	51	142	2.7	59.36		
	41	174	2.5	72.68		
	32	222	1.9	92.82		
	24	297	1.4	123.95		
	19	378	1.1	158.02		
	15	483	0.9	201.80		

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

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

Motori applicabili

Motor adapters



		EC						
		070.12E 070.24E	100.120 100.240 100.24E	180.120 180.240	180.24E	250.120 250.240	350.120 350.240	600.120 600.240
FT	105/3	20.57 - 315.05	20.57 - 315.05	20.57 - 315.05				
	105/4	368.19 - 929.4	368.19 - 929.4	368.19 - 929.4				
	146	18.75 - 397.38	18.75 - 397.38	18.75 - 397.38	18.75 - 397.38	18.75 - 397.38	18.75 - 397.38	18.75 - 397.38
	196		(*)	(*)	(*)	20.41 - 269.47	20.41 - 269.47	20.41 - 269.47

20.57 - 315.05

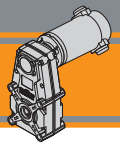
Rapporti di riduzione i
Ratio i

(*) Motore applicabile con portaspazzola inclinato di 45°.

Si prega di contattare il nostro servizio tecnico.

(*) Motor assembly with brush holder inclined 45°.

Please contact our technical service.

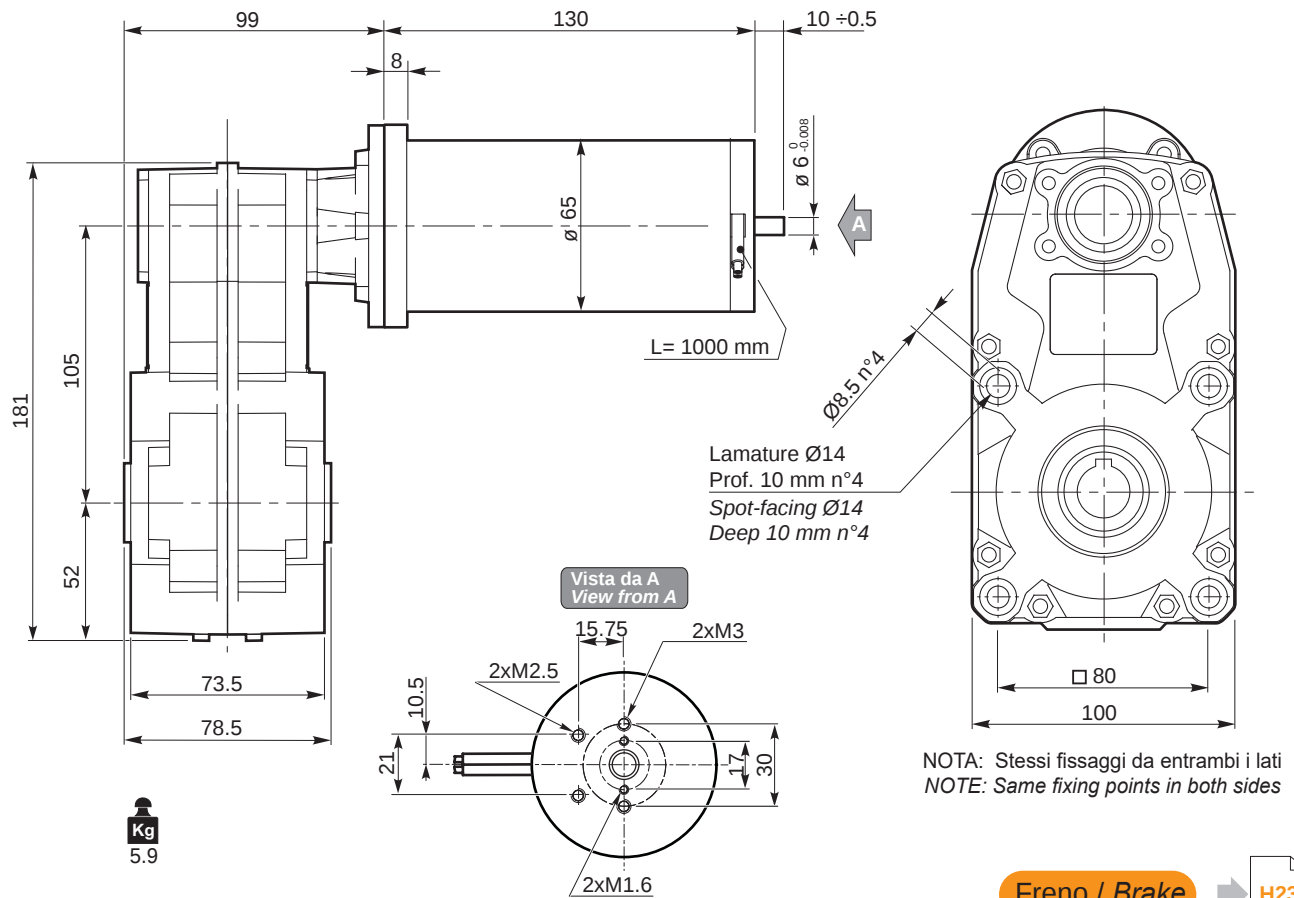


Dimensioni

Dimensions

ECFT 070/105

ECFT 070/105...U



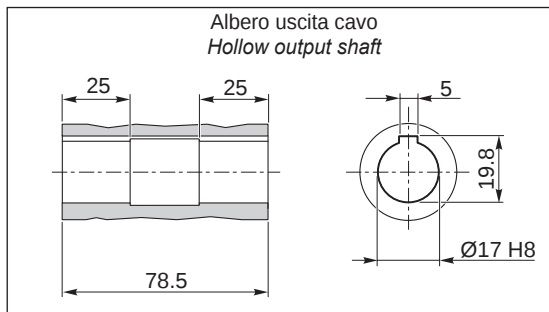
Freno / Brake → H23

Encoder → H24

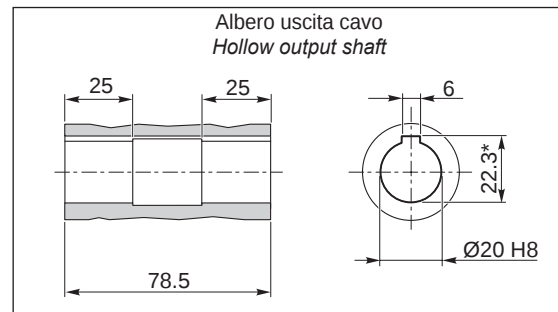
Motori / Motors IP66 → I2

ECFT

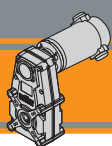
O17



O20



*: Sede linguetta ribassata / Special keyway



ECFT

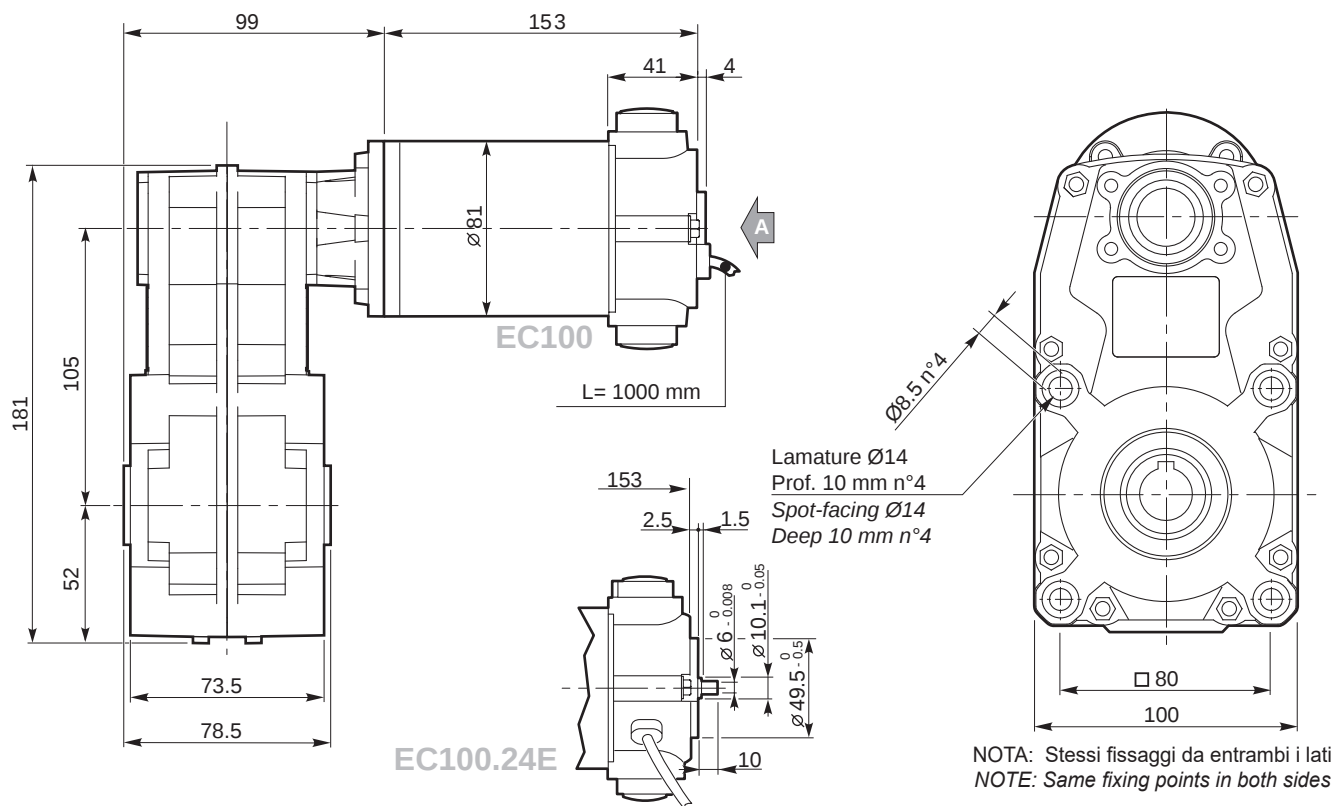
Motoriduttori CC pendolari DC Helical parallel gearmotors

Dimensioni

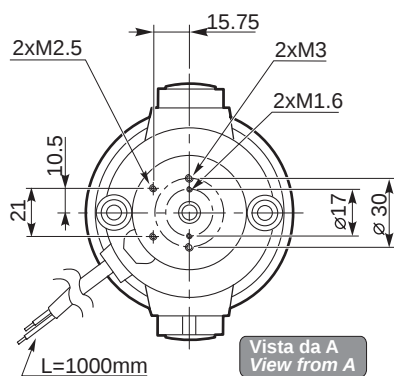
Dimensions

ECFT 100/105

ECFT 100/105...U



Kg
6.9



Freno / Brake

H23

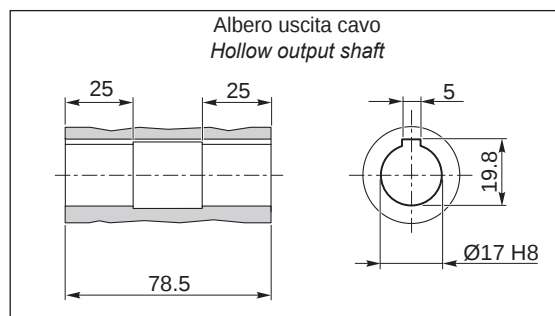
Encoder

H24

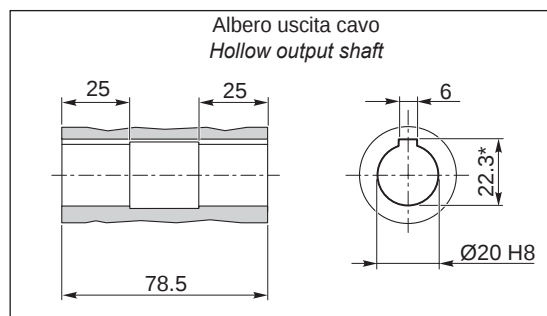
Motori / Motors IP66

I4

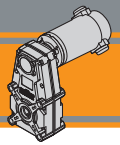
O17



O20



*: Sede linguetta ribassata / Special keyway

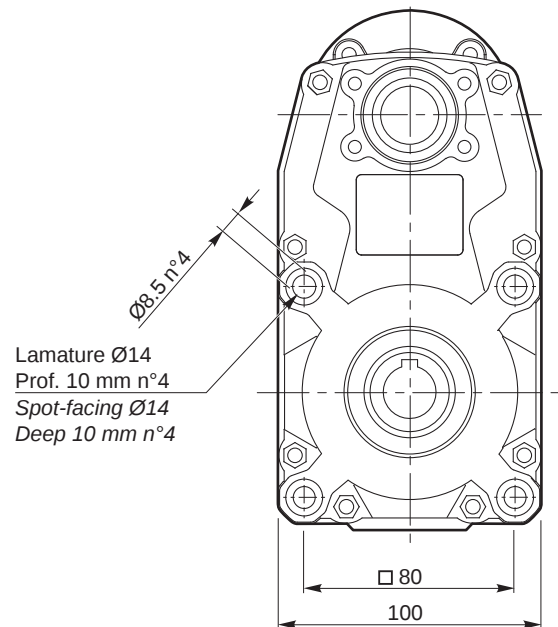
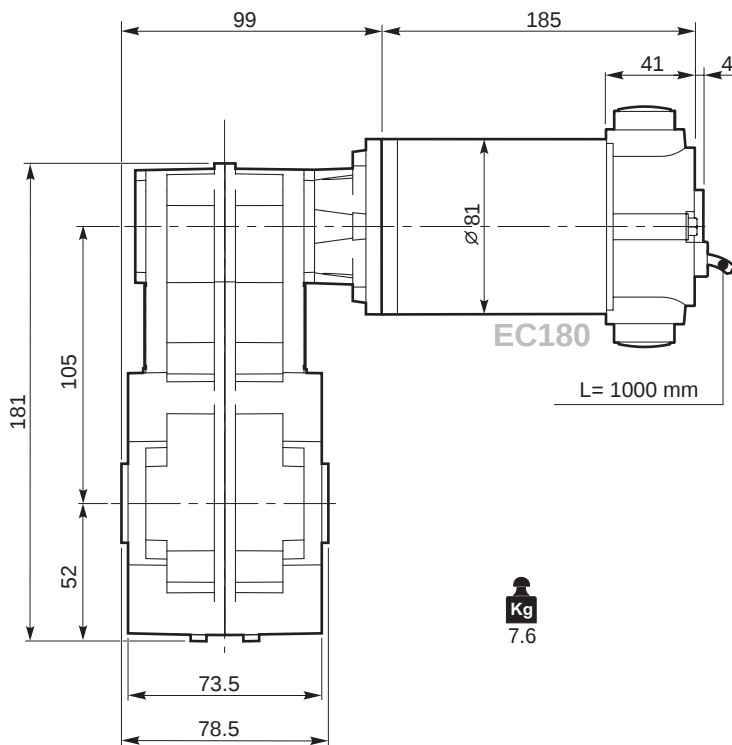


Dimensioni

Dimensions

ECFT 180/105

ECFT 180/105...U



Lamature $\varnothing 14$
Prof. 10 mm n°4
Spot-facing $\varnothing 14$
Deep 10 mm n°4

NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

Freno / Brake

H23

Encoder

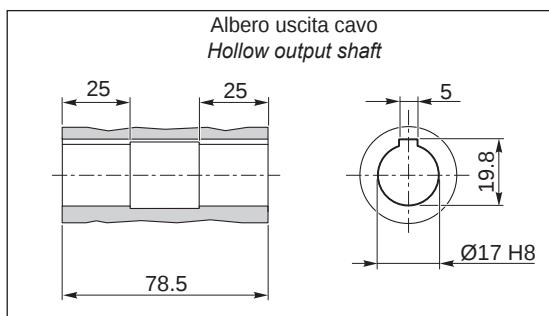
H24

Motori / Motors IP66

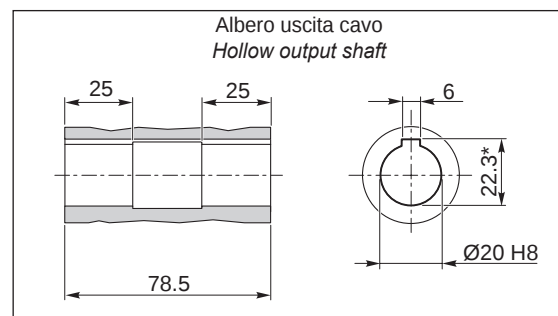
I6

ECFT

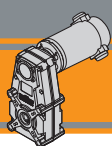
O17



O20



*: Sede linguetta ribassata / Special keyway

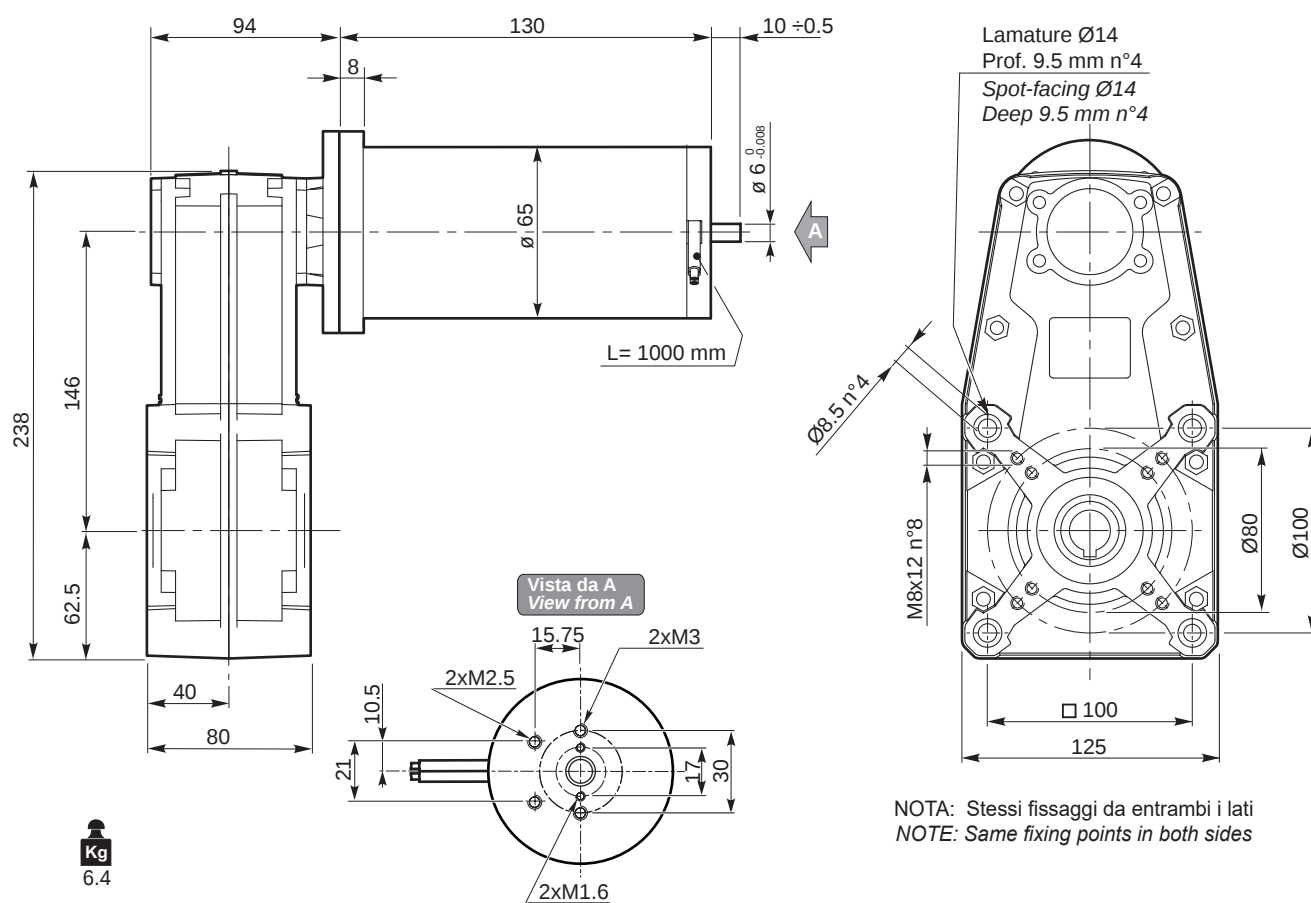


Dimensioni

Dimensions

ECFT 070/146

ECFT 070/146 U

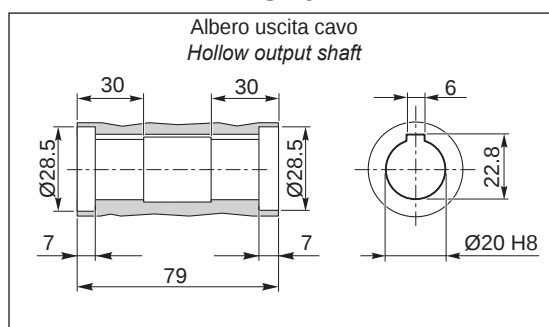


Freno / Brake → H23

Encoder → H24

Motori / Motors IP66 → I2

O20

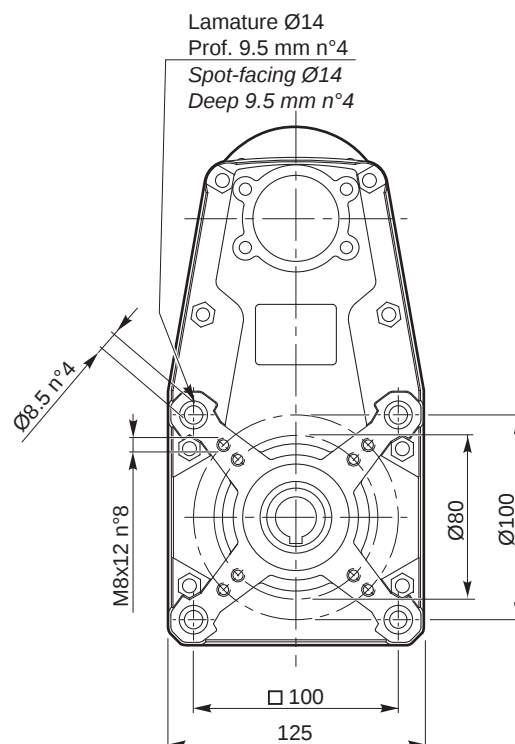




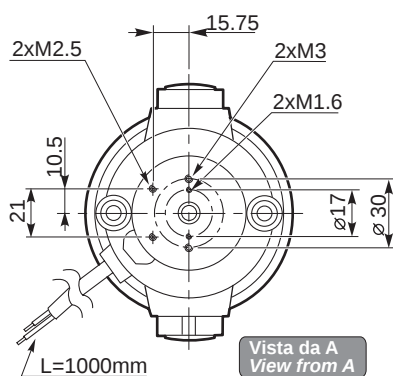


Dimensions

ECFT 180/146 U



Kg
8.1

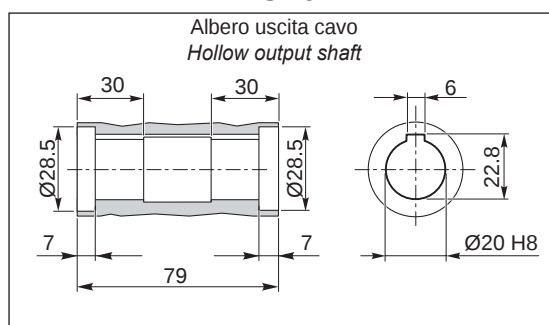


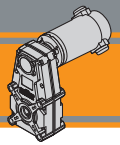
H23

H24

16

Albero uscita cavo
Hollow output shaft



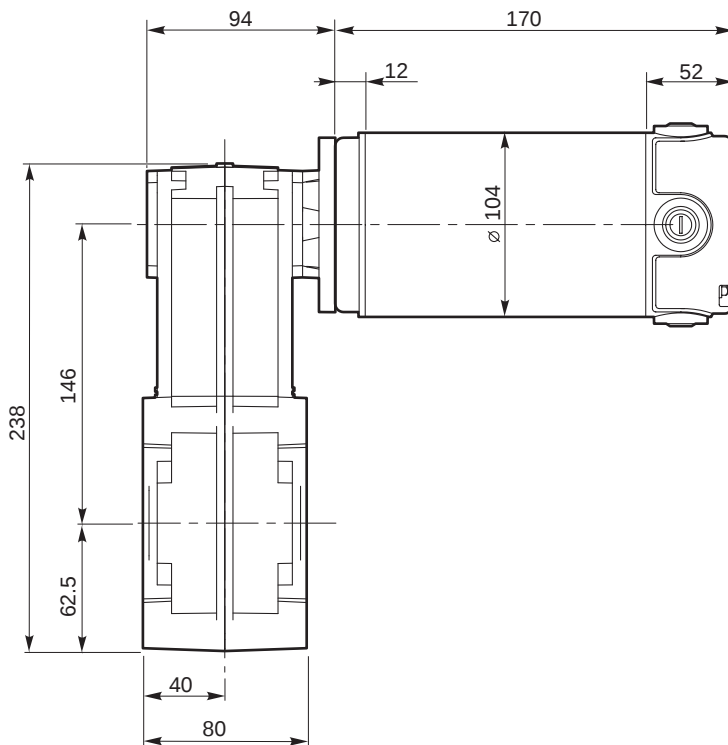


Dimensioni

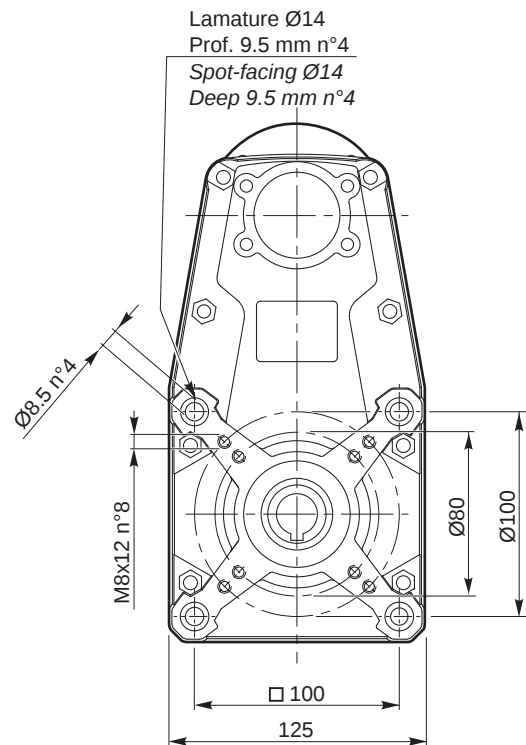
Dimensions

ECFT 250/146

ECFT 250/146 U



Kg
8.9



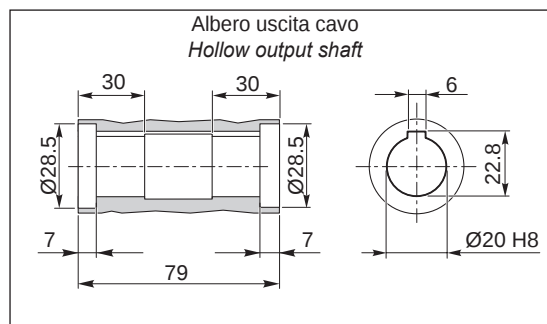
NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

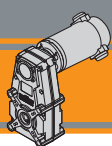
Motori / Motors IP66

I8

O20

Albero uscita cavo
Hollow output shaft



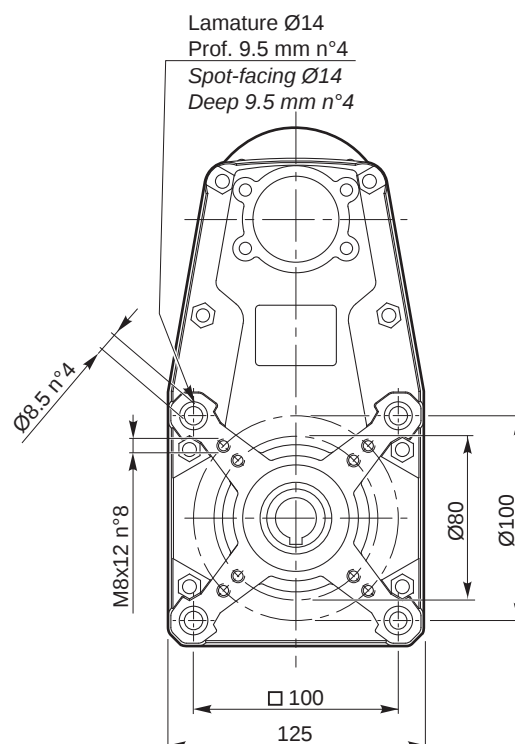
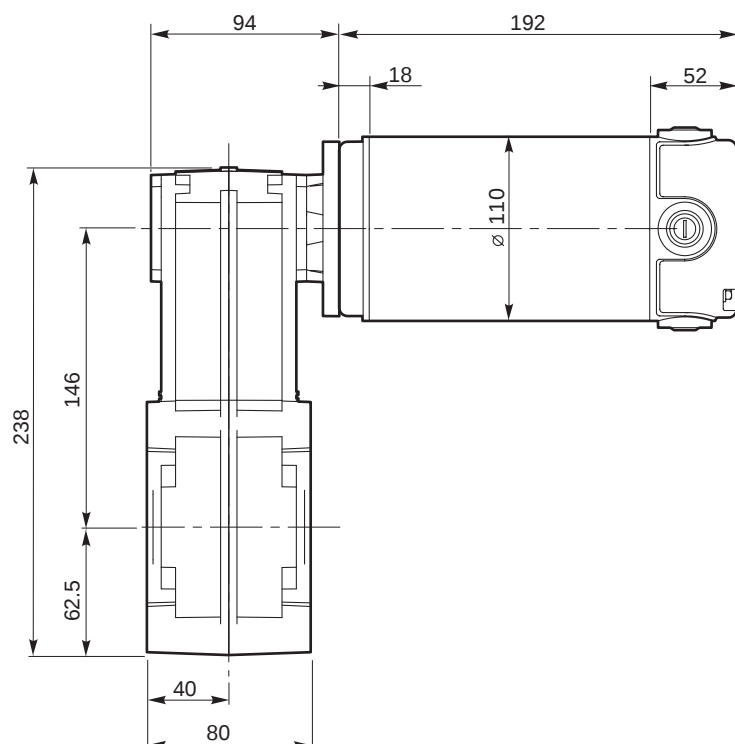


Dimensioni

Dimensions

ECFT 350/146

ECFT 350/146 U



NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

Kg
10.0

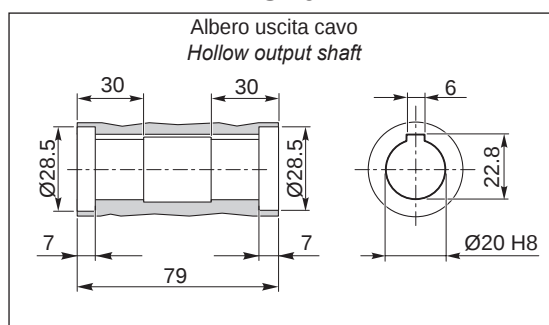
Freno / Brake

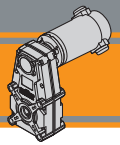


Motori / Motors IP66



O20



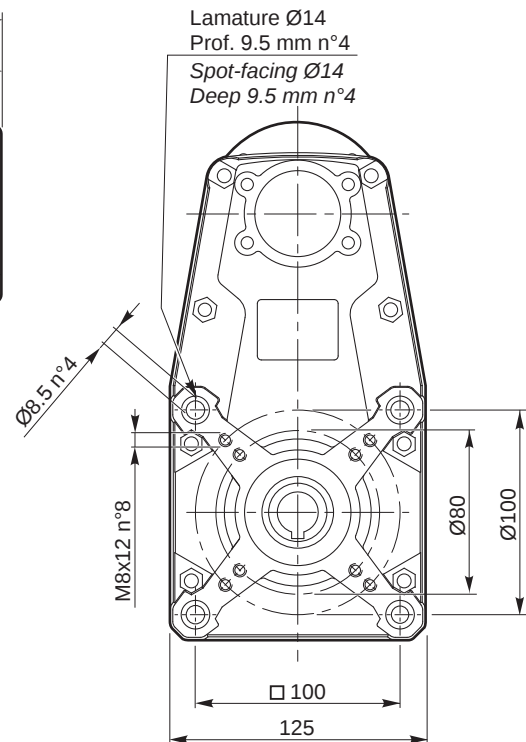
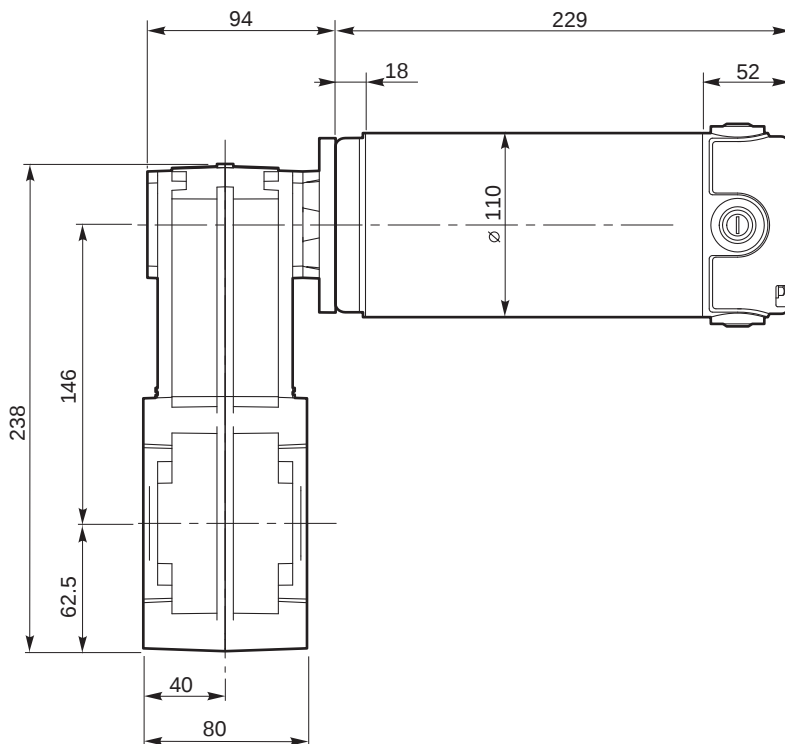


Dimensioni

Dimensions

ECFT 600/146

ECFT 600/146 U



Kg
11.8

NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

Freno / Brake

H23

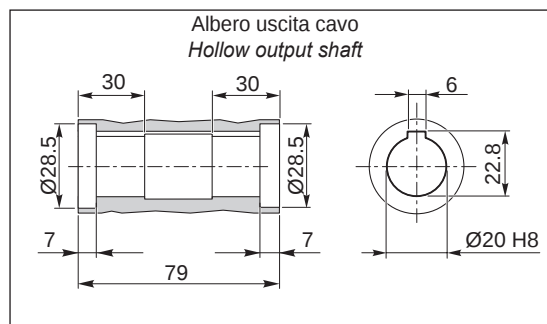
Motori / Motors IP66

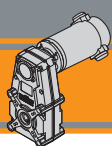
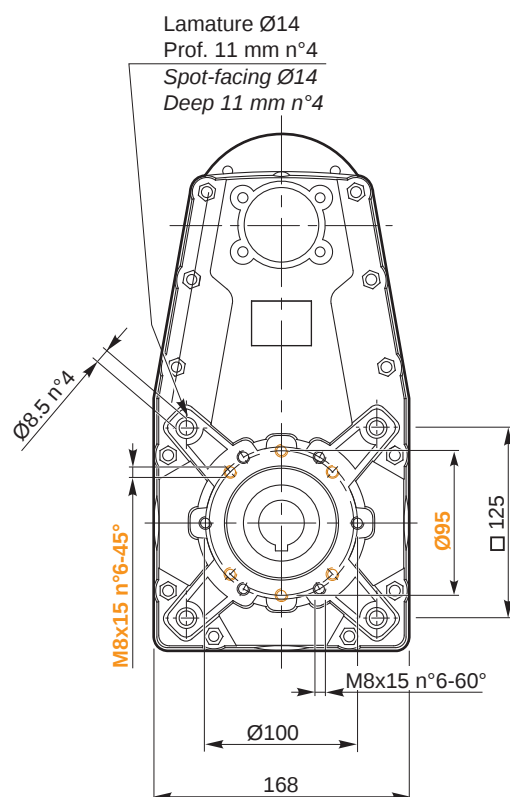
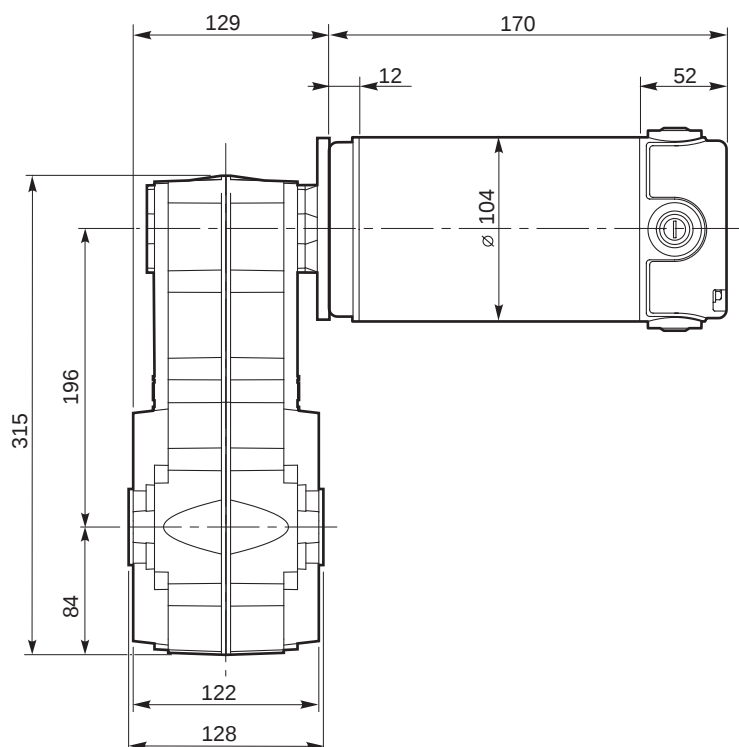
I10

ECFT

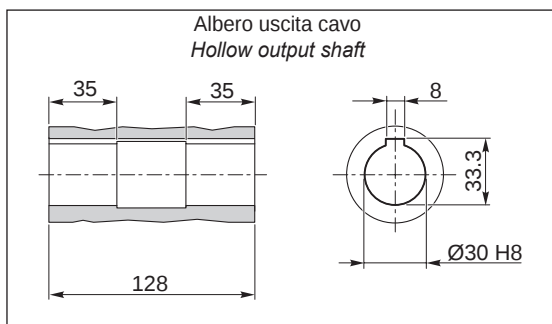
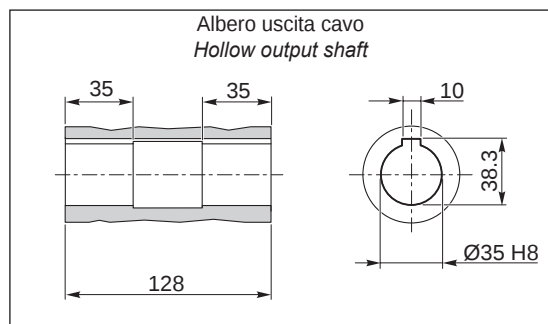
O20

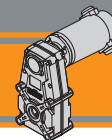
Albero uscita cavo
Hollow output shaft



**ECFT****Motoriduttori CC pendolari**
DC Helical parallel gearmotors**Dimensioni****Dimensions****ECFT 250/196****ECFT 250/196 U**
16.3

NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

Motori / Motors IP66**I8****O30****Albero uscita cavo**
Hollow output shaft**O35****Albero uscita cavo**
Hollow output shaft

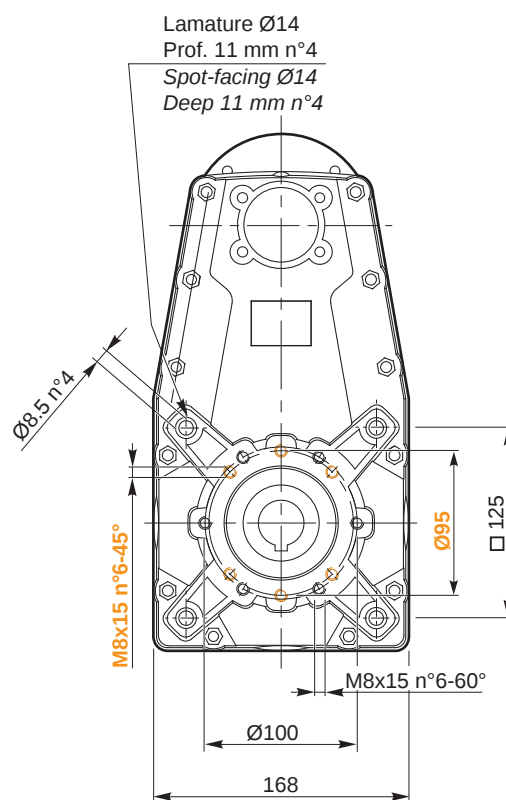
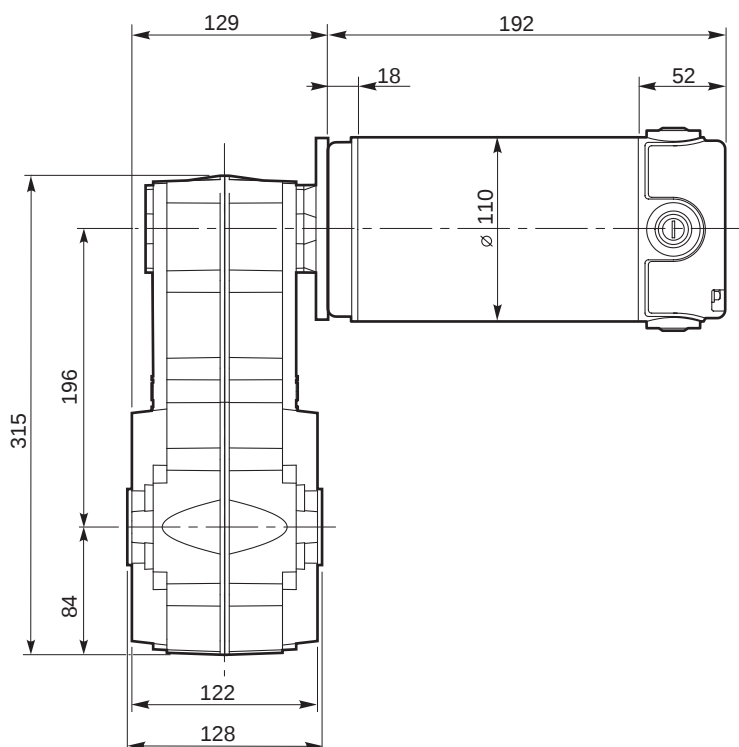


Dimensioni

Dimensions

ECFT 350/196

ECFT 350/196 U



NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

NOTE: Same fixing points in both sides

Freno / *Brake*

H23

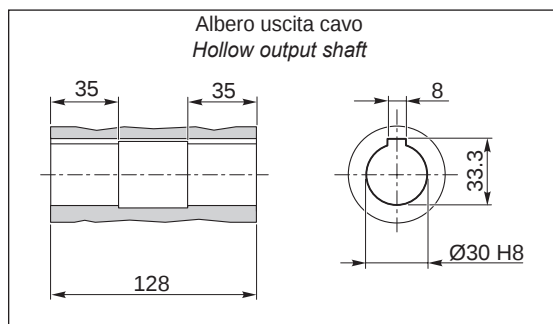
Motori / Motors IP66

110

ECFT

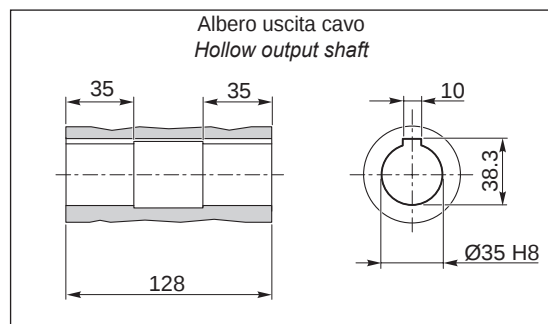
O30

Albero uscita cavo
Hollow output shaft



035

Albero uscita cavo
Hollow output shaft

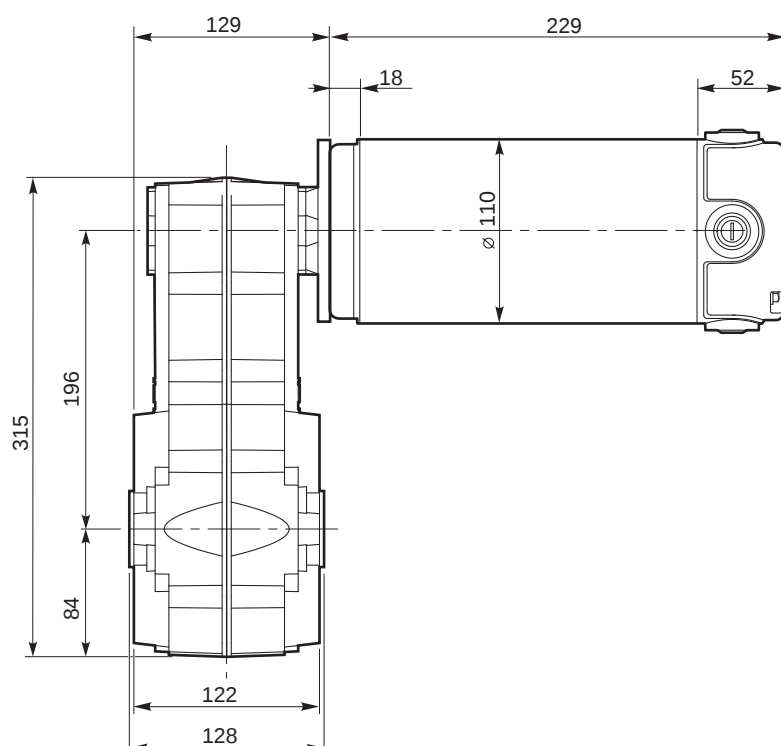


Dimensioni

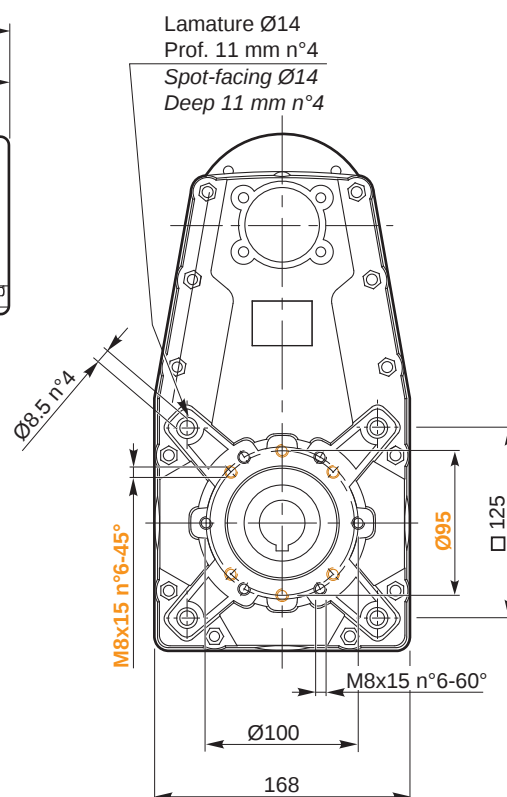
Dimensions

ECFT 600/196

ECFT 600/196 U



Kg
19.2



NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

NOTE: Same fixing points in both sides

Freno / *Brake*

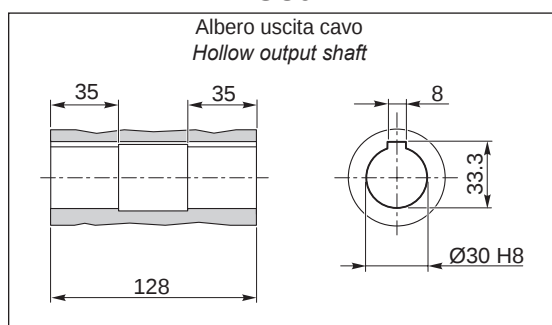
H23

Motori / Motors IP66

112

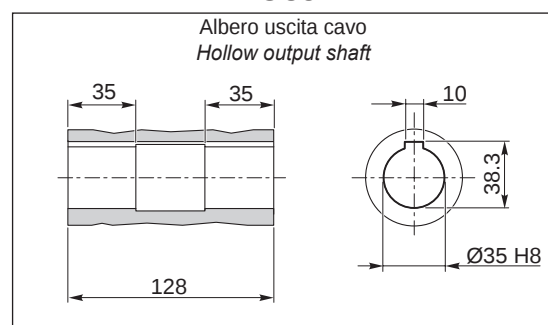
O30

Albero uscita cavo
Hollow output shaft



035

Albero uscita cavo
Hollow output shaft



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