

MINI  **TECNO**™
small but strong

NDFT
ECFT

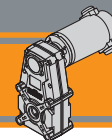
Motoriduttori CC pendolari
DC Helical parallel gearmotors



MINI  **TECNO**™ brand of
TRANSTECNO®



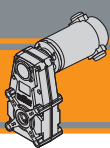
DC



		Pag. Page
Indice	Index	
Caratteristiche tecniche	<i>Technical features</i>	BF2
Designazione	<i>Classification</i>	BF2
Sensi di rotazione	<i>Direction of rotation</i>	BF3
Simbologia	<i>Symbols</i>	BF3
Lubrificazione	<i>Lubrication</i>	BF3
Carichi radiali	<i>Radial loads</i>	BF4
Dati tecnici	<i>Technical data</i>	BF5
Motori applicabili	<i>Motor adapters</i>	BF6
Dimensioni	<i>Dimensions</i>	BF7

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**

This section replaces any previous edition and revision. If you obtained this catalogue other than through controlled distribution channels, the most up to date content is not guaranteed. In this case the latest version is available on our web site www.transtecno.com



**NDFT
ECFT**

Motoriduttori CC pendolari DC Helical parallel gearmotors



Caratteristiche tecniche

Technical features

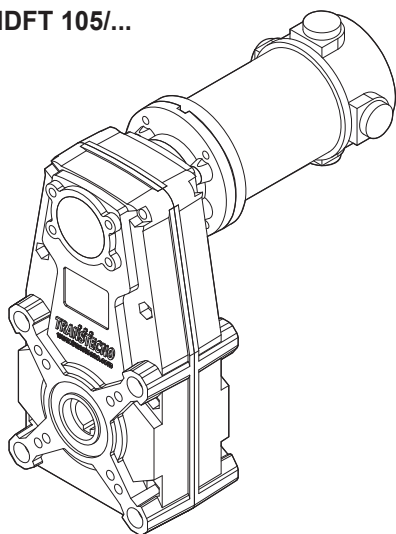
I motoriduttori CC pendolari a magneti permanenti in neodimio **NDFT** e in ferrite **ECFT** hanno le seguenti caratteristiche principali:

NDFT neodymium permanent magnets and **ECFT** ferrite permanent magnets DC helical parallel gearmotors range has the following main features:

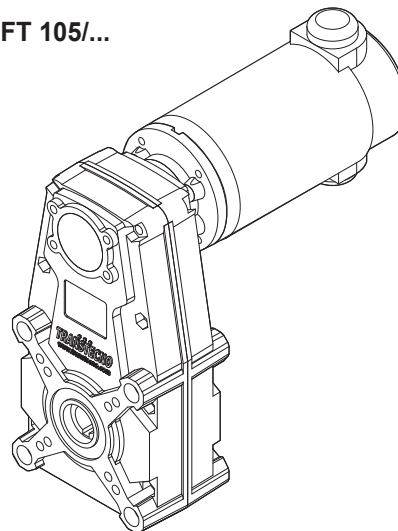
- Alimentazione in bassa tensione 12/24 Vcc
- Possibilità di montaggio encoder e freno
- Potenze motore disponibili da 100 a 800W S2
- Carcasse dei riduttori in pressofusione di alluminio
- Lubrificazione permanente con olio sintetico
- Ingranaggi cilindrici a denti elicoidali.

- Low voltage power supply 12/24 Vdc
- Suitable for encoder and brake assembly
- Motor power ratings available from 160 to 250W S2
- Die-cast aluminum housing
- Permanent synthetic oil long-life lubrication
- helical gears.

NDFT 105/...

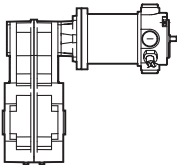


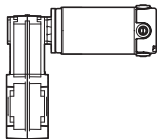
ECFT 105/...

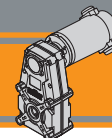


Designazione

Classification

MOTORIDUTTORE / GEARMOTOR					
NDFT	120/105	U	60.63	O20	240
Tipo Type	Grandezza Size	Versione Riduttore Gearbox Version	Rapporto Ratio	Albero di uscita Output shaft	Versione Motore Motor Version
NDFT	120/105...	U...	Vedere tabella	Vedere tabella	120
	180/105...		See tables	See tables	240

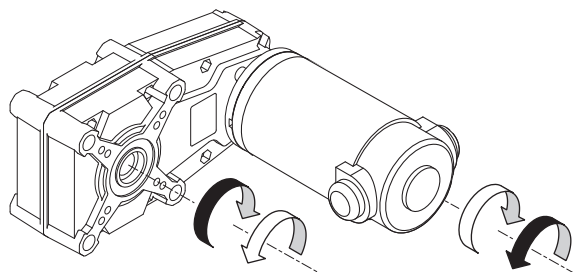
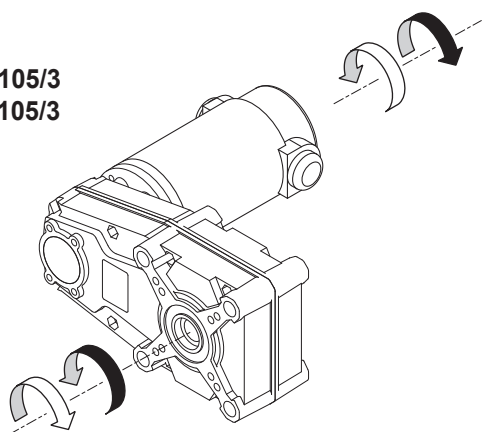
MOTORIDUTTORE / GEARMOTORS					
ECFT	180/105	U	60.63	O20	240
Tipo Type	Grandezza Size	Versione Version	Rapporto Ratio	Albero cavo uscita Hollow output shaft	Versione motore Motor version
ECFT	070/105...	U...	vedi tabelle see tables	vedi tabelle see tables	120
	100/105...				240
	180/105...				12E
		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



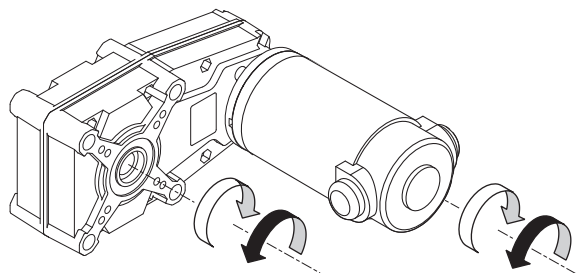
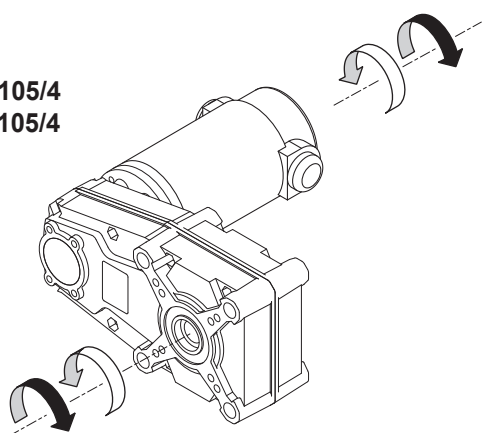
Sensi di rotazione

Direction of rotation

NDFT 105/3
ECFT 105/3



NDFT 105/4
ECFT 105/4



Simbologia

Symbols

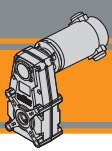
n_1	[min^{-1}]	Velocità in ingresso / <i>Input speed</i>
n_2	[min^{-1}]	Velocità in uscita / <i>Output speed</i>
i		Rapporto di riduzione / <i>Ratio</i>
P_1	[kW]	Potenza in entrata / <i>Input power</i>
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / <i>Output torque referred to P_1</i>
P_{n1}	[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

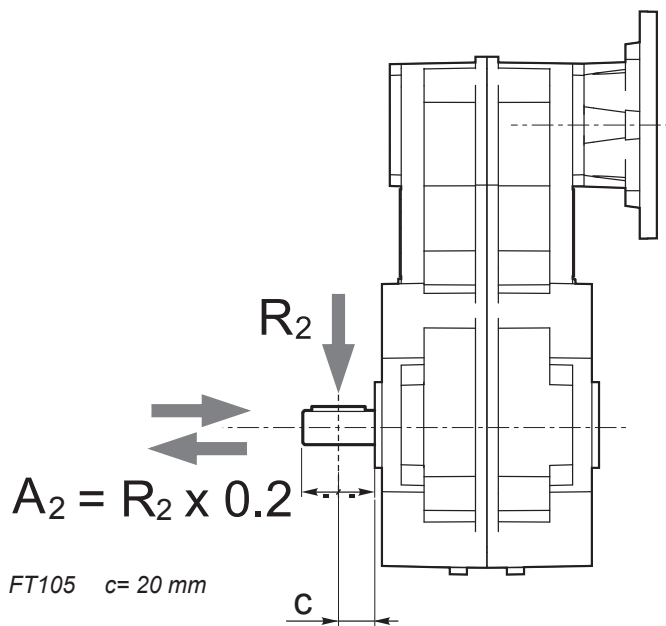
Tutti i motoriduttori sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

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

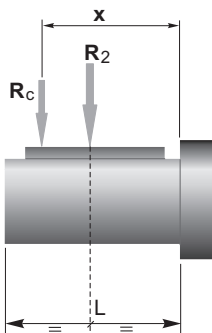
Radial loads



n_2 [min ⁻¹]	R_2 [N]
	FT105
70	1500
40	1700
30	1850
20	2000
10	2000
5	2000

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:

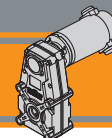




	FT105
a	82
b	62
R_{2MAX}	2000

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

$$R \leq R_c$$

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


Dati tecnici
NDFT
Technical data

P_1 [W]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		Versione motore Motor version	P_1 [W]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		Versione motore Motor version
160							250						
(3000 min ⁻¹)	146	10	3.2	20.57	120/105/3	120/240	(3000 min ⁻¹)	146	15	2.0	20.57	180/105/3	120/240
	90	16	2.4	33.32									
	68	21	2.4	44.36									
	55	26	1.9	54.87									
	42	34	1.5	71.84									
	39	37	1.4	77.07									
	34	43	1.2	88.87									
	24	60	0.8	124.81									
	17	86	0.6	181.35									
	13	86	0.6	224.32									
	9.5	86	0.6	315.05									
	8.1	86	0.6	368.19	120/105/4	120/240							
	5.6	86	0.6	534.98									
	4.5	86	0.6	661.76									
	3.2	86	0.6	929.40									

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

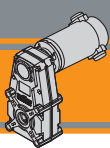
NOTA: per servizio continuo o altamente intermittente, contattare il servizio tecnico

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

Dati tecnici elettrici
Electrical technical data

ND 120 → 

ND 180 → 



**NDFT
ECFT**

**Motoriduttori CC pendolari
DC Helical parallel gearmotors**

**MINI
TECNO**

Dati tecnici

ECFT

Technical data

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

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

100

250

(3000 min ⁻¹)	P ₁	n ₂	M ₂	sf	i	Versione motore
	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		

(3000 min ⁻¹)	P ₁	n ₂	M ₂	sf	i	Versione motore
	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		

140

(3000 min ⁻¹)	P ₁	n ₂	M ₂	sf	i	Versione motore
	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		

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

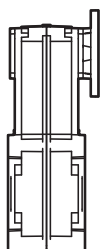
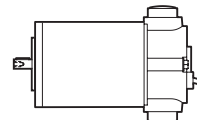
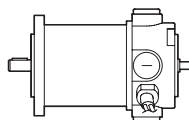
Dati tecnici elettrici

Electrical technical data



Motori applicabili

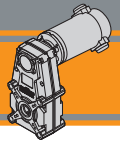
Motor adapters



		ND		EC		
		120.120 120.240	180.120 180.240	070.12E 070.24E	100.120 100.240 100.24E	180.120 180.240
FT	105/3	20.57 - 315.05				
	105/4	368.19 - 929.4				

20.57 - 315.05

Rapporti di riduzione i
Ratio i

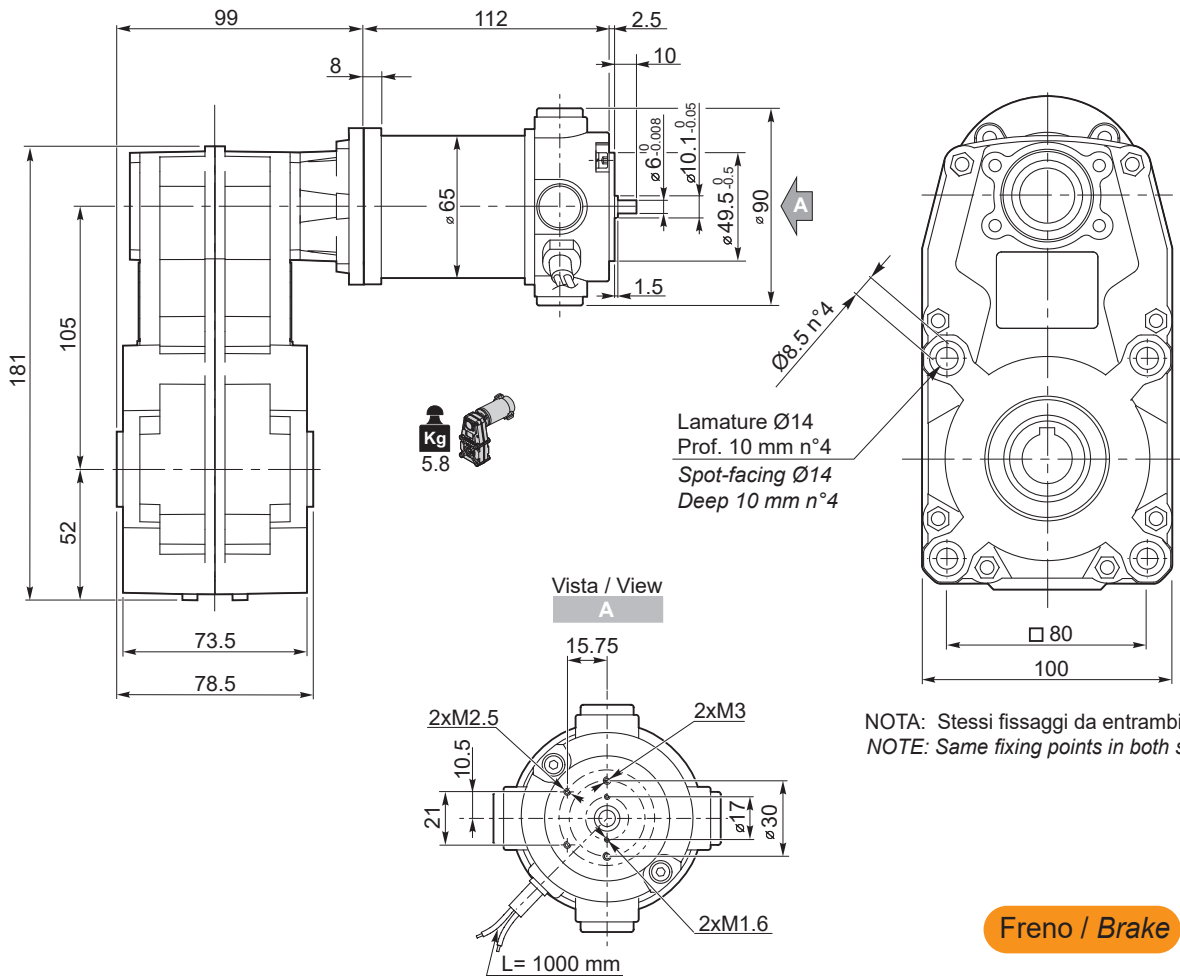


Dimensioni

Dimensions

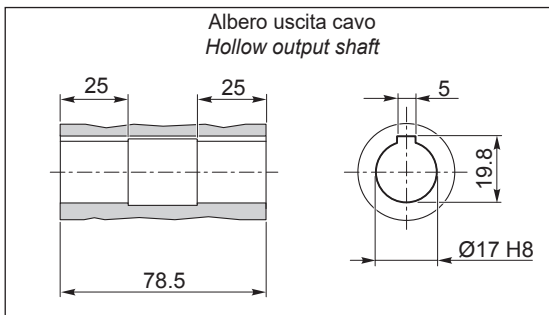
NDFT 120/105

NDFT 120/105...U

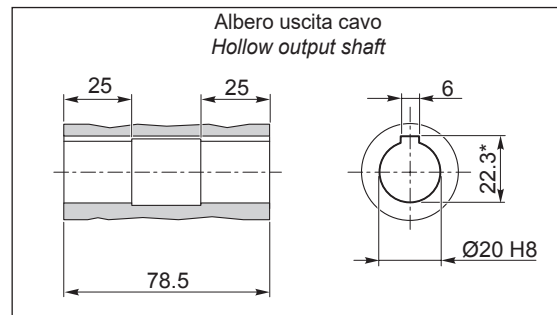


- Freno / Brake → BA9
- Encoder → BA9

O17

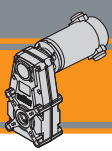


O20



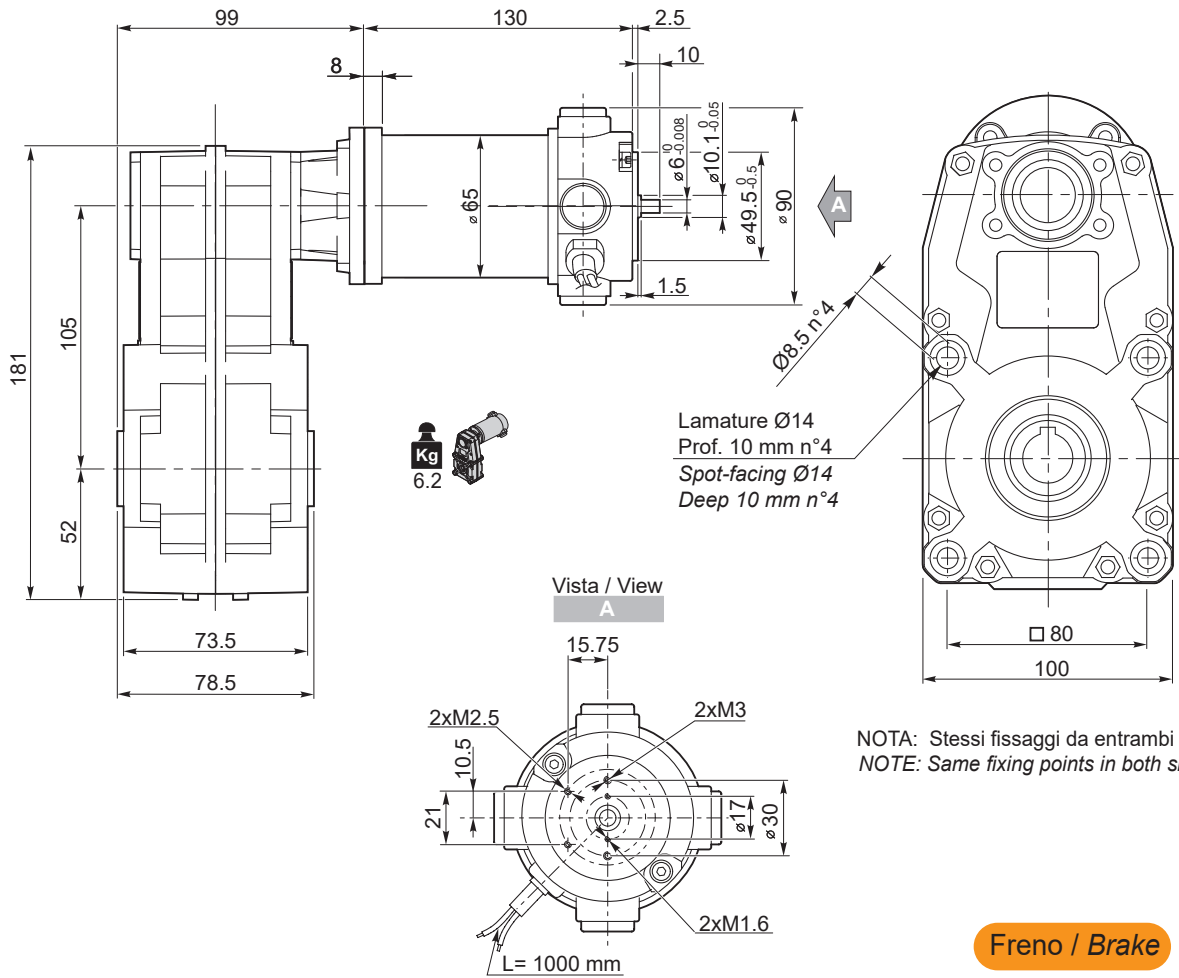
*: Sede linguetta ribassata / Special keyway

DC



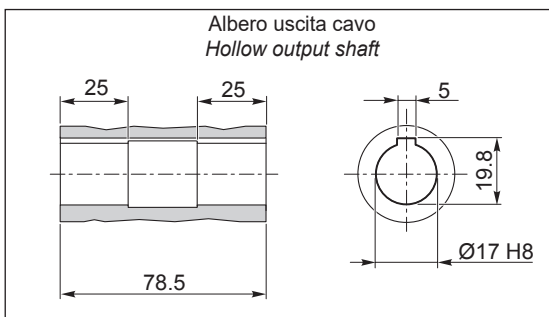
NDFT 180/105

NDFT 180/105...U

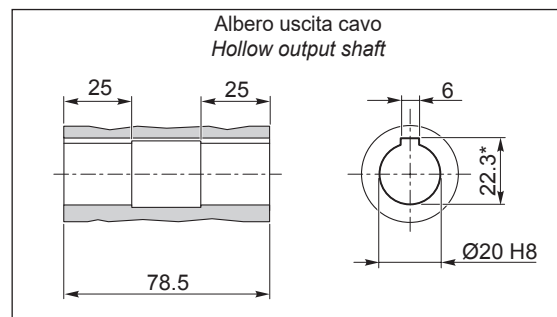


- Freno / Brake → BA9
- Encoder → BA9

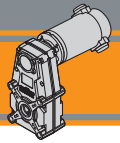
O17



O20



*: Sede linguetta ribassata / Special keyway

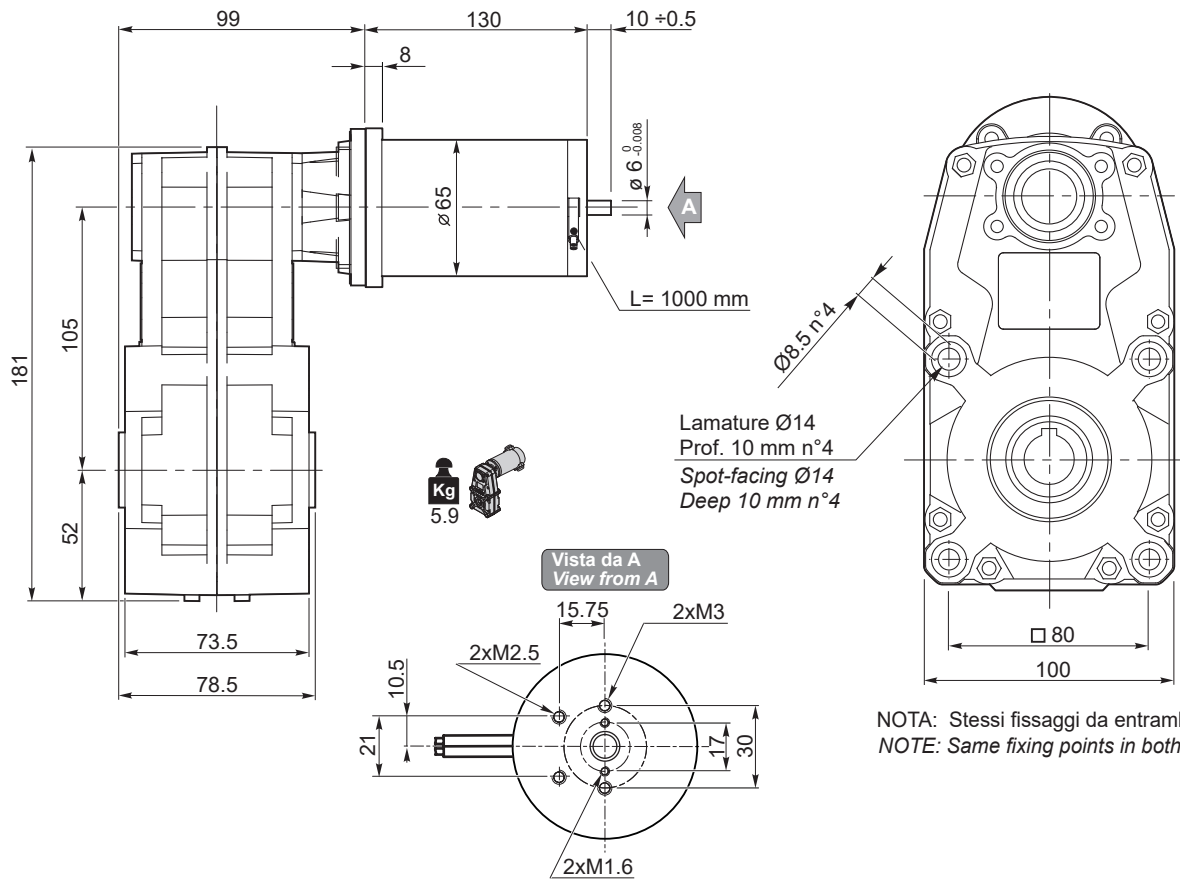


Dimensioni

Dimensions

ECFT 070/105

ECFT 070/105...U

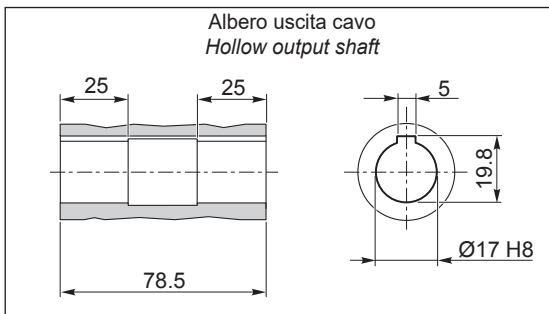


Freno / Brake → BB23

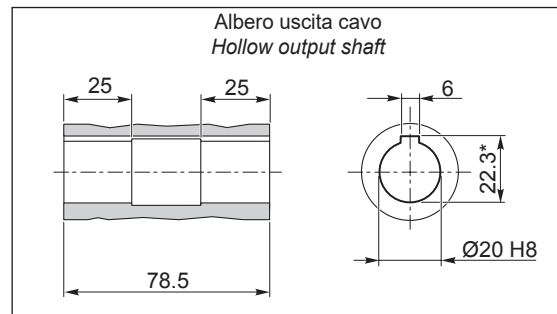
Encoder → BB24

Motori / Motors IP66 → BC2

O17

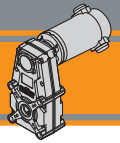


O20



*: Sede linguetta ribassata / Special keyway

DC

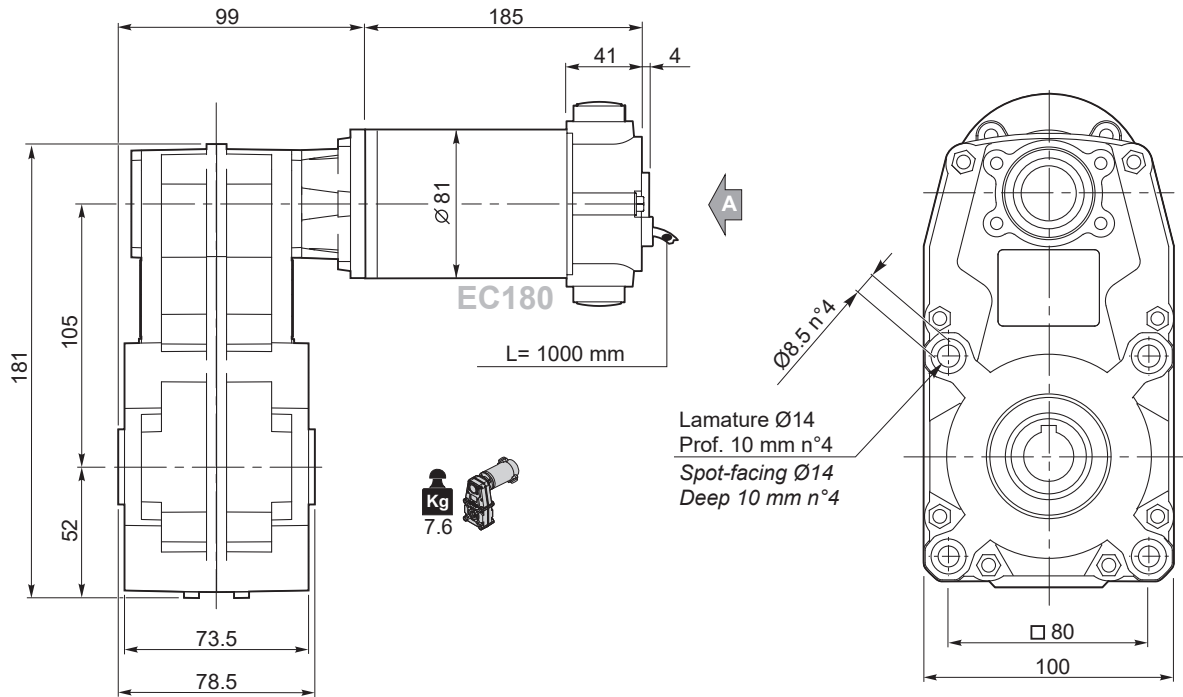


Dimensioni

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

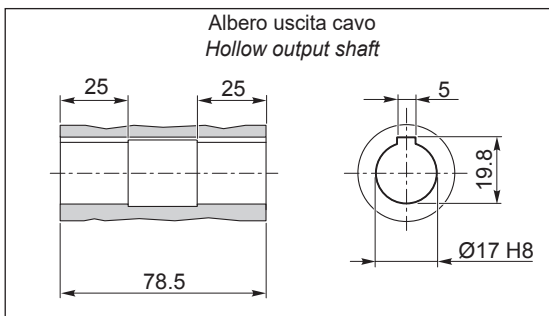
NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

Freno / Brake → **BB23**

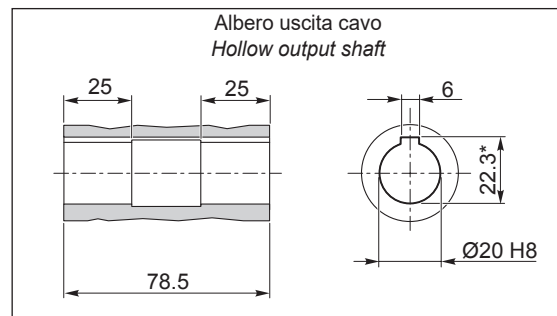
Encoder → **BB24**

Motori / Motors IP66 → **BC6**

O17



O20



*: Sede linguetta ribassata / Special keyway

DC

 **TRANSTECNO SRL**
HEADQUARTERS

Company subject to the management
and coordination of INTERPUMP GROUP SPA
Via Caduti di Sabbiano, 11/D-E
40011 Anzola dell'Emilia (BO)
ITALY
T+39 051 64 25 811
F +39 051 73 49 43
sales@transtecno.com
www.transtecno.com

**TRANSTECNO®**
the modular gearmotor

MEMBER OF INTERPUMP GROUP



 **HANGZHOU TRANSTECNO POWER TRANSMISSIONS CO LTD**
No.4 Xiuyan Road Fengdu Industry Zone
Pingyao Town Yuhang District
Hangzhou City, Zhejiang Province
311115 - CHINA
T +86 571 86 92 02 60
F +86 571 86 92 18 10
info-china@transtecno.cn
www.transtecno.cn

 **MA TRANSTECNO S.A.P.I. DE C.V.**
Av. Mundial # 176, Parque Industrial
JM Apodaca, Nuevo León,
C.P. 66600 - MEXICO
T +52 8113340920
info@transtecno.com.mx
www.transtecno.com.mx

 **TRANSTECNO IBÉRICA THE MODULAR GEARMOTOR, S.A.**
Carrer de la Ciència, 45
08840 Viladecans (Barcelona) - SPAIN
T +34 931 598 950
info@transtecno.es
www.transtecno.es

 **TRANSTECNO B.V.**
Siliciumweg 32
3812 SX Amersfoort - NETHERLANDS
T +31(0) 33 45 19 505
F +31(0) 33 45 19 506
info@transtecno.nl
www.transtecno.nl

 **TRANSTECNO AANDRIJFTECHNIEK B.V.**
Siliciumweg 32
3812 SX Amersfoort - NETHERLANDS
T +31 (0) 33 20 4 7 006
info@transtecnoaandrijftechnik.nl
www.transtecnoaandrijftechnik.nl

 **TRANSTECNO USA**
8 Creek Parkway,
Boothwyn PA 19061-8136 - UNITED STATES
T +1 (610) 4970154
F +1 (610) 497 6085

TRANSTECNO USA – WEST COAST BRANCH
14561 Fryelands Blvd SE
Monroe, WA 98272 - UNITED STATES
T +1 360-863-1300
F +1 360-863-1303
usaoffice@transtecno.com
www.transtecno.com

 **TRANSTECNO CANADA**
51 B Caldari Road Unit 10
Vaughan, ON L4K 4G3 - CANADA
T +1 905 761 0762
F +1 905 761 9265
canadaoffice@transtecno.com
www.transtecno.com

 **TRANSTECNO CHILE-PERU**
Av. Los Libertadores 41
Parque Industrial - Los Libertadores 16.500
Santiago, Colina - CHILE
T +56 2 29633870

Carretera Panamericana Sur KM 29.5,
Interior I-3, Z.I. Lurin - PERU
T +51 1 3546259 / + 51 1 3434231
chileoffice@transtecno.com
www.transtecno.com

 **TRANSTECNO INDIA**
#6A, Sipcot Industrial complex, Phase-1, Elasagiri Road
Hosur - 635126 Tamilnadu - INDIA
T +91 4344 274434
M +91 81443 88800

TRANSTECNO INDIA – NORTH BRANCH
Plot No: 3 A, Sector 2, IIE, Sidcul, Pantnagar
U.S. Nagar, Uttarakhand – 263153 - INDIA
indiaoffice@transtecno.com
www.transtecno.com

 **SALES OFFICE BRAZIL**
Rua Dr. Freire Alemão 155 / 402 - CEP. 90450-060
Auxiliadora Porto Alegre RS - BRAZIL
T +55 51 3251 5447
F +55 51 3251 5447
M +55 51 8111 45 962
braziloffice@transtecno.com
www.transtecno.com.br

 **SALES OFFICE OCEANIA**
Unit 5, 12 Nyholt Drive, Yatala 4207
Queensland - AUSTRALIA
T +61 07 3800 0103
M +61 04 38060997
oceaniaoffice@transtecno.com
www.transtecno.com.au

 **SALES OFFICE SOUTH KOREA**
772-41, Bongdong-ro, Bongdong-eup, Wanju-goon
Chonbuk, 55313
SOUTH KOREA
T +82 70 8867 8897
F +82 504 199 2107
M +82 10 5094 2107
koreaoffice@transtecno.com
www.transtecno.com

www.minitecno.com
www.transtecno.com