TRANSTECNO®
the modular gearmotor

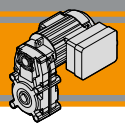
KFT105

KFT105

KFT105 Alù

Motoriduttori pendolari
Helical parallel gearmotors

TRANSTECNO · GENUINE · PRODUCTS ·



ENERGY SAVING

Caratteristiche tecniche

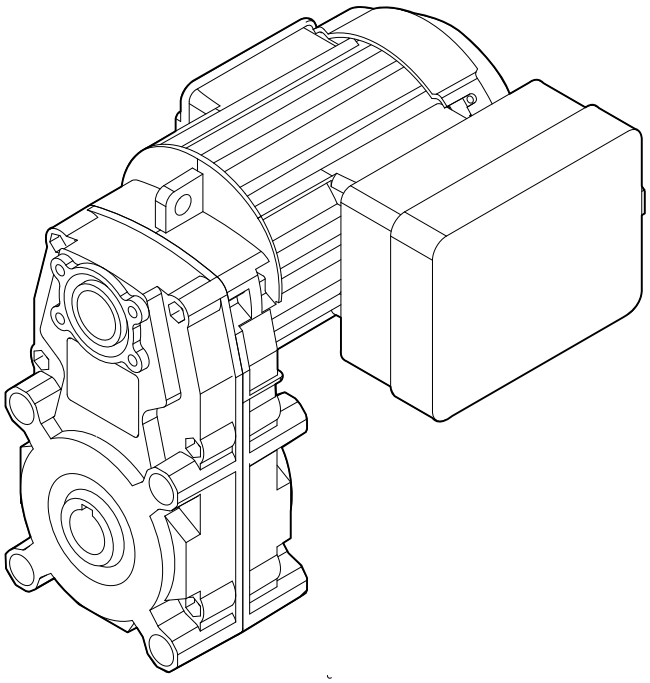
Technical features

I motoriduttori pendolari della serie KFT105 hanno le seguenti caratteristiche principali:

- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa in pressofusione di alluminio
- Ingranaggi cilindrici a denti elicoidali, induriti e rettificati
- Lubrificazione permanente con olio sintetico
- Disponibili a 3 e 4 stadi di riduzione

KFT105 helical parallel gearmotors range has the following main features:

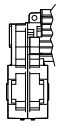
- *Compact design*
- *AC single phase and three phase motors available*
- *Die-cast aluminium housings*
- *Ground-hardened helical gears*
- *Permanent synthetic oil long-life lubrication*
- *Available with 3 and 4 reduction stages*



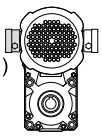
Designazione

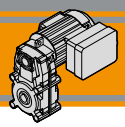
Classification

RIDUTTORE / *GEARBOX*

KFT	105/3	U	88.87	O20
Tipo *Type*	Grandezza *Size*	Versione *Version*	Rapporto *Ratio*	Albero cavo uscita *Hollow output shaft*
KFT 	**105/3** **105/4**	**U...** **F...**	vedi tabelle *see tables*	vedi tabelle *see tables*

MOTORE / *MOTOR*

40W	4p	3ph	230/400V	50Hz	T1	TEFC
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*	Ventilazione *Fan cooling*
vedi tabelle *see tables*	**2p** **4p** **6p**	**1ph** **3ph**	**230V** **...** **230/400V** **...**	**50Hz** **60Hz**	**T4** (Std)  **T2**	**TEFC** **TENV**



Simbologia — *Symbols*

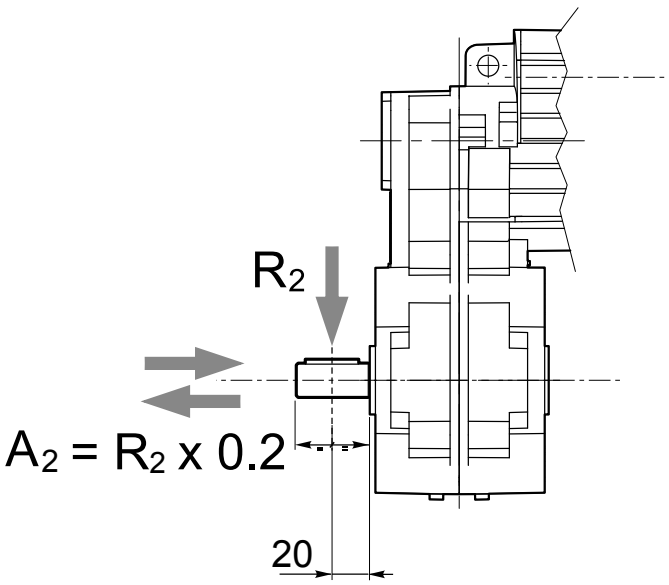
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*
i		Rapporto di riduzione / *Ratio*
P_1	[kW]	Potenza in entrata / *Input power*
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / *Output torque referred to P_1*
Pn_1	[kW]	Potenza nominale in entrata / *Nominal input power*
Mn	[Nm]	Coppia nominale / *Nominal torque*
sf		Fattore di servizio / *Service factor*
R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*
V	[N]	Tensione / *Voltage*
F	[Hz]	Frequenza / *Frequency*
I_n	[A]	Corrente nominale / *Nominal current*
I_s	[A]	Corrente di spunto / *Start current*
cosØ		Fattore di potenza / *Power factor*
C	[µ]	Capacità del condensatore / *Capacitor*

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.

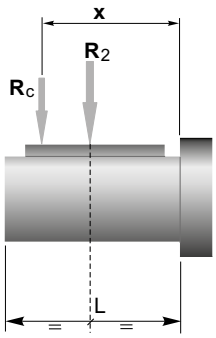
Carichi radiali — *Radial loads*



n_2 [min^{-1}]	R_2 [N]
	KFT105
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:



	KFT105
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

Technical data

25

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
68	3	12.1	40	20.57	**KFT105/3**
42	5	9.4	50	33.32	
32	7	9.1	65	44.36	
26	9	7.4	65	54.87	
19	12	5.6	65	71.84	
18	12	5.3	65	77.07	
16	14	4.6	65	88.87	
11	20	3.2	65	124.81	
7.7	29	2.2	65	181.35	
6.2	36	1.8	65	224.32	
4.4	51	1.3	65	315.05	
3.8	58	1.1	65	368.19	**KFT105/4**
2.6	84	0.8	65	534.98	
2.1	104	0.63	65	661.76	
1.5	120	0.54	65	929.40	

40

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
68	5	7.6	40	20.57	**KFT105/3**
42	9	5.9	50	33.32	
32	11	5.7	65	44.36	
26	14	4.6	65	54.87	
19	18	3.5	65	71.84	
18	20	3.3	65	77.07	
16	23	2.9	65	88.87	
11	32	2.0	65	124.81	
7.7	47	1.4	65	181.35	
6.2	58	1.1	65	224.32	
4.4	81	0.8	65	315.05	
3.8	92	0.7	65	368.19	**KFT105/4**
2.6	120	0.54	65	534.98	
2.1	120	0.54	65	661.76	
1.5	120	0.54	65	929.40	

60

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
68	8	5.1	40	20.57	**KFT105/3**
42	13	3.9	50	33.32	
32	17	3.8	65	44.36	
26	21	3.1	65	54.87	
19	28	2.4	65	71.84	
18	30	2.2	65	77.07	
16	34	1.9	65	88.87	
11	48	1.4	65	124.81	
7.7	70	0.9	65	181.35	
6.2	86	0.8	65	224.32	
4.4	110	0.59	65	315.05	
3.8	120	0.54	65	368.19	**KFT105/4**
2.6	120	0.54	65	534.98	
2.1	120	0.54	65	661.76	
1.5	120	0.54	65	929.40	

90

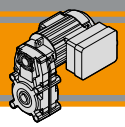
P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
68	12	3.4	40	20.57	**KFT105/3**
42	19	2.6	50	33.32	
32	26	2.5	65	44.36	
26	32	2.1	65	54.87	
19	41	1.6	65	71.84	
18	44	1.5	65	77.07	
16	51	1.3	65	88.87	
11	72	0.9	65	124.81	
7.7	105	0.62	65	181.35	
6.2	110	0.59	65	224.32	
4.4	110	0.59	65	315.05	
3.8	120	0.54	65	368.19	**KFT105/4**
2.6	120	0.54	65	534.98	
2.1	120	0.54	65	661.76	
1.5	120	0.54	65	929.40	

120

P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
68	16	2.5	40	20.57	**KFT105/3**
42	26	2.0	50	33.32	
32	34	1.9	65	44.36	
26	42	1.5	65	54.87	
19	55	1.2	65	71.84	
18	59	1.1	65	77.07	
16	68	1.0	65	88.87	
11	96	0.7	65	124.81	
7.7	110	0.59	65	181.35	
6.2	110	0.59	65	224.32	
4.4	110	0.59	65	315.05	
3.8	120	0.54	65	368.19	**KFT105/4**
2.6	120	0.54	65	534.98	
2.1	120	0.54	65	661.76	
1.5	120	0.54	65	929.40	

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

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



Dati tecnici elettrici

Electrical technical data

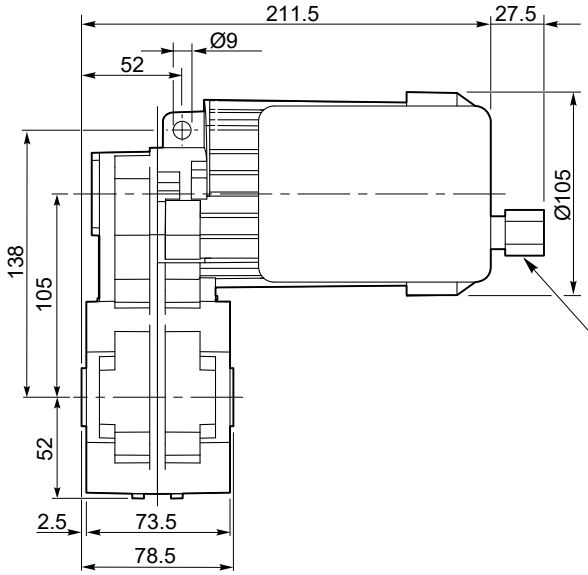
	P_n [W]	V [V]	F [Hz]	I_n [A]	I_s [A]	cosØ	C [µF]
1 Ph	25	230	50	0.42	0.84	0.87	6.0
	40			0.47	0.86	0.91	6.3
	60			0.74	1.50	0.82	8.0
	90			0.82	1.60	0.93	12.5
	120			1.38	3.10	0.81	14.0

	P_n [W]	V [V]	F [Hz]	I_n [A]	I_s [A]	cosØ
3 Ph	25	230	50	0.41	0.97	0.54
		400		0.24	0.56	0.54
	40	230	50	0.43	0.97	0.62
		400		0.25	0.56	0.62
	60	230	50	0.72	1.80	0.48
		400		0.42	1.04	0.48
	90	230	50	0.74	1.80	0.60
		400		0.44	1.04	0.60
	120	230	50	1.34	3.70	0.50
		400		0.87	2.13	0.50

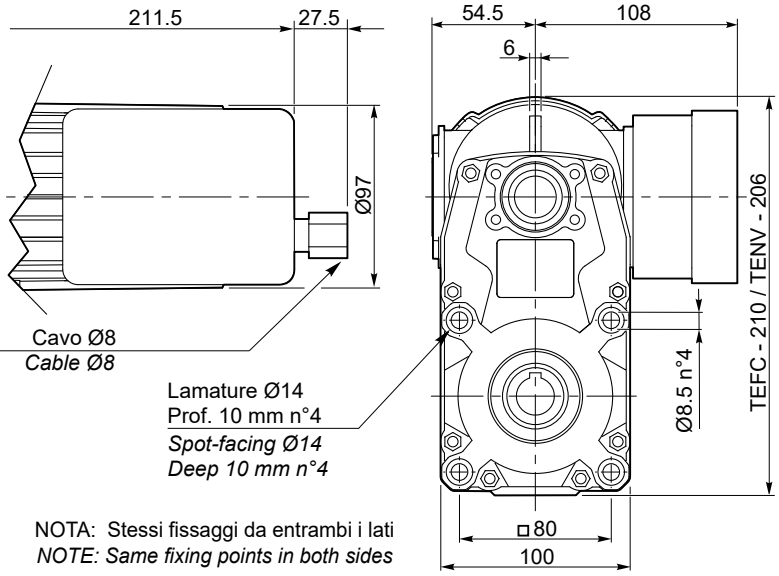
Dimensioni ***Dimensions***

KFT 105... 25W - 40W - 60W - 90W

KFT 105...1 Ph...TEFC

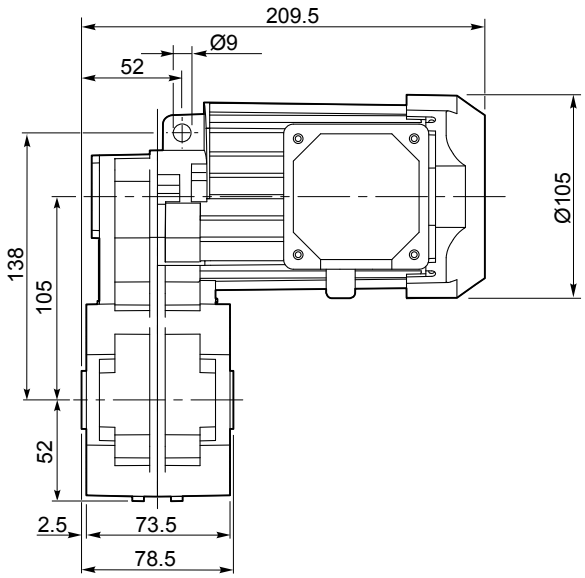


KFT 105...1 Ph...TENV

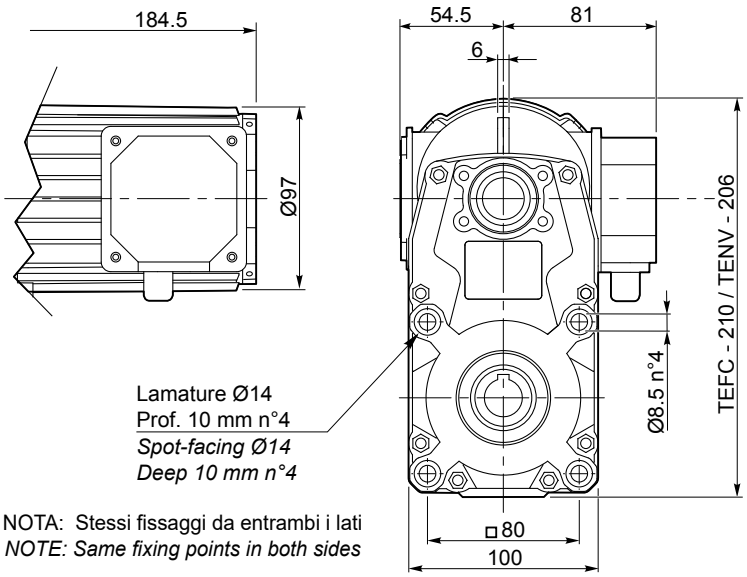


NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

KFT 105...3 Ph... TEFC

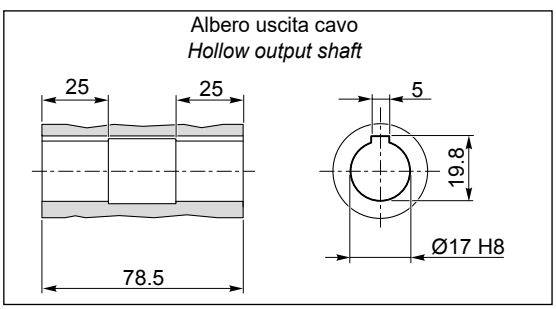


KFT 105...3 Ph... TENV

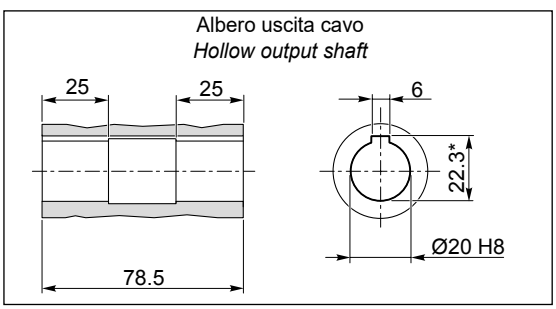


NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

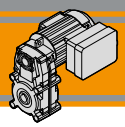
O17



O20

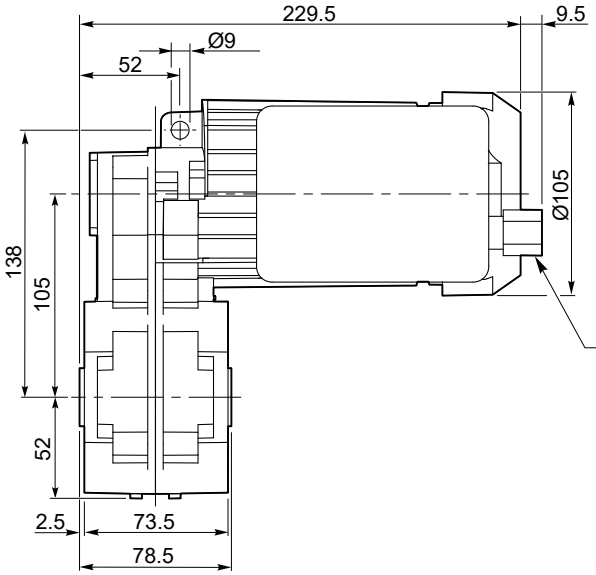


*Sede linguetta ribassata / *Special Keyway*

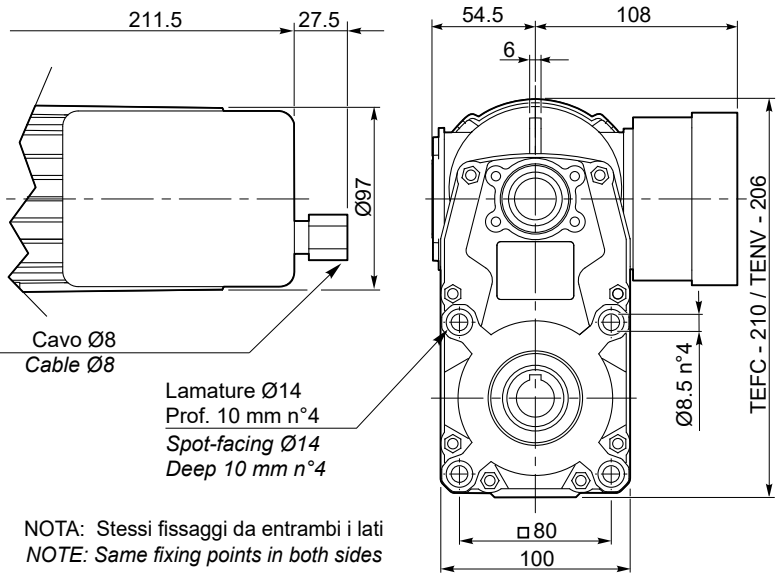


KFT 105... 120W

KFT 105...1 Ph... TEFC

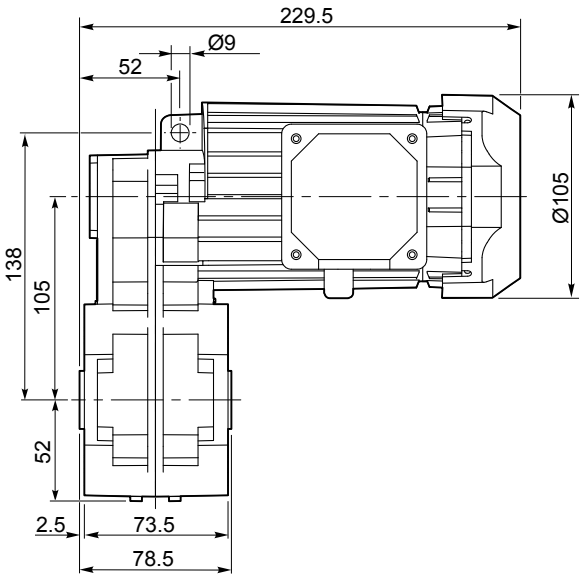


KFT 105...1 Ph...TENV

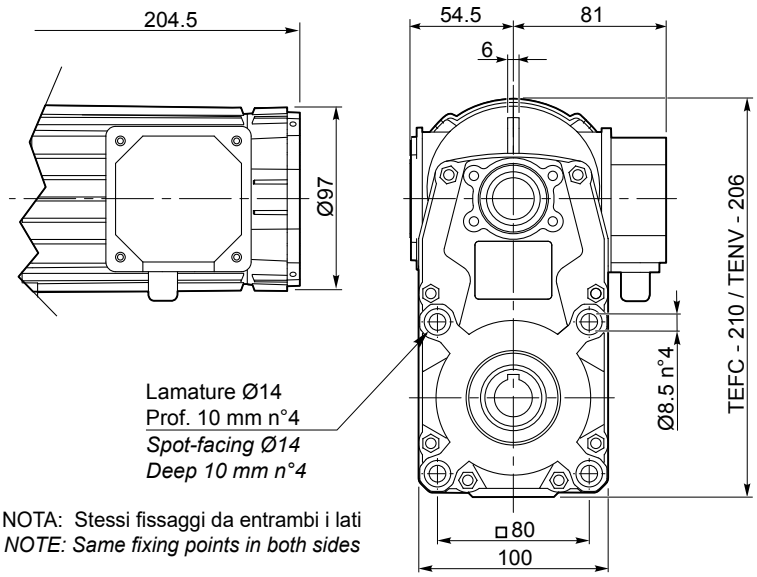


NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

KFT 105...3 Ph... TEFC

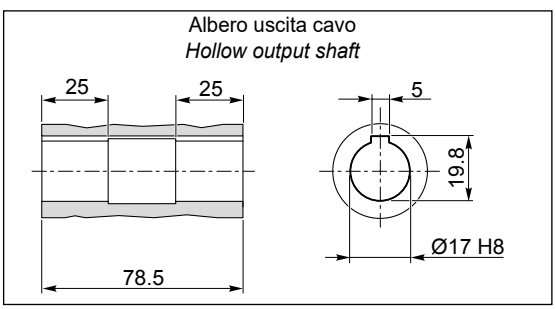


KFT 105...3 Ph... TENV

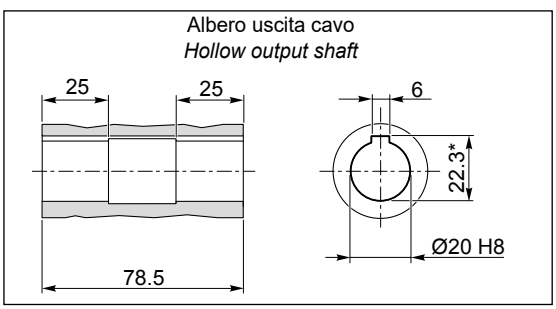


NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

O17



O20



*Sede linguetta ribassata/ *Special Keyway*

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

TRANSTECNO SRL
Via Caduti di Sabbiuno, 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

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.com
www.transtecno.cn

TRANSTECNO U.S.A. LLC
5440 S.W. 156th Place Miami,
FL 33185 - USA
Tel: +1 (305) 220-4423
Fax: +1 (305) 220-5945
usaoffice@transtecno.com

SALES OFFICE BRAZIL
Rua Dr. Freire Alemão 155 / 402 - CEP. 90450-060
Auxiliadora Porto Alegre RS - BRAZIL
Tel: +55 51 3251 5447
Fax: +55 51 3251 5447
Mobile: +55 51 811 45 962
braziloffice@transtecno.com
www.transtecno.com.br

TRANSTECNO B.V.
Ind. terrein Wieken/Vinkenhoef
De Stuwdam,43
3815 KM Amersfoort - NETHERLANDS
Tel: +31(0) 33 45 19 505
Fax: +31(0) 33 45 19 506
info@transtecno.nl
www.transtecno.nl

TRANSTECNO AANDRIJFTECHNIEK B.V.
De Stuwdam 43
3815 KM Amersfoort - NETHERLANDS
Tel: +31 (0) 33 20 4 7 006
info@transtecnoaandrijftechniek.nl
www.transtecnoaandrijftechniek.nl

TRANSTECNO IBÉRICA
THE MODULAR GEARMOTOR, S.A.
C/Enginy, 2 Nave 6 - 08850 Gavà (Barcelona) - SPAIN
Tel: +34 931 598 950
info@transtecno.es
www.transtecno.es

SALES OFFICE FRANCE
Tel: +33 (0) 6 85 12 09 87
Fax-Italy: +39 051 73 49 43
franceoffice@transtecno.com
www.transtecno.fr

SALES OFFICE INDIA
A/10, Anagha, S.N. Road, Mulund (W) Mumbai
400080 - INDIA
Tel: +91 9820614698
Fax-Italy: +39 051 73 49 43
indiaoffice@transtecno.com

SALES OFFICE SOUTH KOREA
D-304 Songdo BRC Smart Valley 30, Songdomirae-ro,
Yeonsu-gu, Incheon, 406-840 - KOREA
Tel: +82 70 8288 2107
Fax: +82 32 815 2107
Mobile: +82 10 5094 2107
koreaoffice@transtecno.com

SALES OFFICE OCEANIA
44 Northview drive, Sunshine west 3020
Victoria - AUSTRALIA
Ph +61 03 9312 4722
Fax +61 03 9312 4714
Mobile: +61 0438060997
oceaniaoffice@transtecno.com
www.transtecno.com.au

TRANSTECNO®
the modular gearmotor

www.transtecno.com