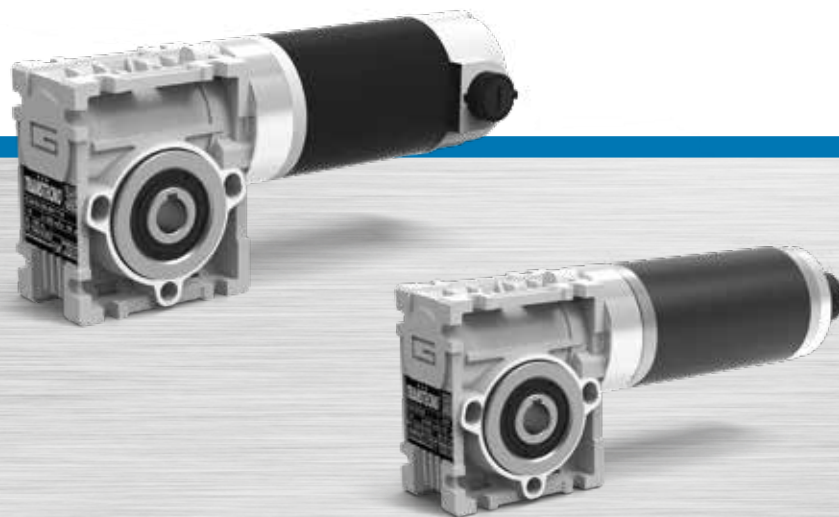
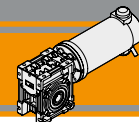


Micro motoriduttori CC a vite senza fine DC Micro wormgearmotors

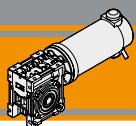




Indice	Index	Pag. Page
Caratteristiche tecniche	<i>Technical features</i>	C2
Designazione	<i>Classification</i>	C2
Simbologia	<i>Symbols</i>	C2
Lubrificazione	<i>Lubrication</i>	C2
Carichi radiali	<i>Radial loads</i>	C3
Dati di dentatura	<i>Toothing data</i>	C3
Rendimento	<i>Efficiency</i>	C3
CM026 con motore CC	<i>CM026 with DC motor</i>	C4
CM030 con motore CC	<i>CM030 with DC motor</i>	C8
Dimensioni	<i>Dimensions</i>	C10
Opzioni	<i>Options</i>	C10
Accessori	<i>Accessories</i>	C11

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.intecno-srl.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.intecno-srl.com***



Micro motoriduttori CC a vite senza fine DC Micro wormgearmotors

Caratteristiche tecniche

Technical features






Le caratteristiche principali dei motoriduttori in CC a vite senza fine della serie CM sono:

The main features of DC wormgearmotors range CM are:

- Alimentazione in bassa tensione 12/24 Vcc
- Possibilità di montaggio encoder
- Potenze motore disponibili da 55 a 250W S2
- Magneti permanenti in ferrite
- Carcasse dei riduttori in pressofusione di alluminio
- Lubrificazione permanente con olio sintetico.
- Low voltage power supply 12/24 Vdc
- Suitable for encoder assembly
- Motor power ratings available from 55 to 250W S2
- Ferrite permanent magnets
- Die-cast aluminum housing
- Permanent synthetic oil long-life lubrication.

Designazione

Classification

RIDUTTORE / GEARBOX				MOTORE / MOTOR		
CM	026	20	U	EC035	24V	—
Tipo Type	Grandezza Size	Rapporto in Ratio in	Versione Version	Tipo Type	Tensione Voltage	Opzioni Options
CM	026 030	Vedere tabelle See tables	U F	EC035 EC050 EC070 EC100 EC180	12V 24V	Encoder  Freno / Brake 
Versione Riduttore Gearbox Version <div style="display: flex; justify-content: space-around; align-items: center;">    </div>						
U	FD	FS				

Simbologia

Symbols

Ns	n° stadi / No. stages	Pn	[W]	Potenza nominale / Nominal power
in	rapporto nominale / nominal ratio	V	[V]	Tensione / Voltage
ir	rapporto reale / real ratio	I	[A]	Assorbimento / Current
M _n	[Nm] coppia in uscita in funzionamento continuativo S1 output torque for continuous operation S1	IC		Classe di isolamento termico / Thermal insulation class
Rd	rendimento dinamico / efficiency	FF		Fattore di forma / Form factor
R ₂	[N] massimo carico radiale al centro dell'albero uscita max. radial load at output shaft centre	n ₁	[Rpm]	Giri / Speed
A ₂	[N] massimo carico assiale / max. axial load	IP		Grado di protezione / Enclosure protection
		Kg		Peso / Weight

Lubrificazione

Lubrication

I riduttori a vite senza fine della serie CM026 e CM030 sono lubrificati a vita con olio sintetico di viscosità 320 e possono essere installati in qualunque posizione di montaggio.

Permanent synthetic oil long-life lubrication allow to use CM026 and CM030 wormgearbox range in all mounting position.

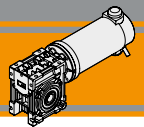
Temperatura ambiente 0 ÷ 40 °C (in assenza di congelamento ed in assenza di condensa).

Ambient temperature 0 ÷ 40 °C (in the absence of freezing and condensation).

Per temperature diverse, contattare nostro UT.

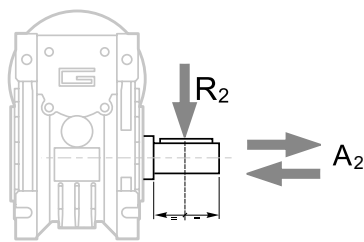
For temperature outside this range please contact our technical dept.

Quantità di olio (litri) / Oil quantity (litres)						
	B3	B8	B6	B7	V5	V6
CM026	0.015					
CM030	0.03					



Carichi radiali

Radial loads

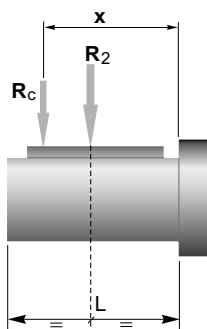


$$A_2 = R_2 \times 0.2$$

n ₂ [min ⁻¹]	R ₂ [N]	
	CM026	CM030
187	400	674
140	490	743
93	580	851
70	610	936
56	610	1008
47	610	1069
35	610	1179
28	610	1270
23	610	1356
18	610	1471
14	610	1600

Quando il carico radiale risultante non è applicato sulla mezzes-
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:



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

$$R \leq R_c$$

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

	CM	
	026	030
a	56	65
b	43	50
R _{2MAX}	610	1600

Dati di dentatura

Toothing data

	Dati della coppia vite-corona Worm wheel data	Rapporto / Ratio											
		5	7.5	10	15	20	25	30	40	50	60	80	100
CM026	Z	6	4	3	2	2		1	1	1	1		
	β	34° 35'	24° 41'	19° 1'	12° 57'	10° 30'		6° 33'	5° 17'	4° 26'	3° 49'		
CM030	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	27° 4'	24° 28'	18° 50'	12° 49'	10° 23'	8° 43'	6° 29'	5° 14'	4° 23'	3° 46'	2° 57'	2° 25'

Rendimento

Efficiency

	n ₁ [min ⁻¹]	Rendimento Efficiency	Rapporto / Ratio											
			5	7.5	10	15	20	25	30	40	50	60	80	100
CM026	2800	Rd	0.89	0.87	0.85	0.83	0.80		0.73	0.68	0.64	0.60		
		Rs	0.72	0.71	0.68	0.61	0.56		0.46	0.41	0.36	0.34		
CM030	2800	Rd	0.89	0.88	0.86	0.84	0.81	0.78	0.74	0.70	0.65	0.62	0.57	0.52
		Rs	0.72	0.67	0.63	0.55	0.50	0.43	0.39	0.35	0.31	0.27	0.23	0.21

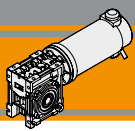
Reversibilità e irreversibilità

Reversibility and irreversibility

La tabella sottostante riporta a titolo puramente
indicativo i vari gradi di reversibilità/irreversibilità
nei riduttori a vite senza fine in funzione del rendi-
mento dinamico Rd e statico Rs.

The table below is provided for reference purposes
only. It contains the various degrees of reversibi-
lity/irreversibility of wormgearboxes in relation to
dynamic Rd and static Rs efficiency.

Rd	Reversibilità e irreversibilità dinamica	Dynamic reversibility and irreversibility
> 0.60	Reversibilità dinamica	Dynamic reversibility
0.50 - 0.60	Reversibilità dinamica incerta	Uncertain dynamic reversibility
0.40 - 0.50	Buona irreversibilità dinamica	Good dynamic irreversibility
<0.40	Irreversibilità dinamica	Dynamic irreversibility
Rs	Reversibilità e irreversibilità statica	Static reversibility and irreversibility
> 0.55	Reversibilità statica	Static reversibility
0.50 - 0.55	Reversibilità statica incerta	Uncertain static reversibility
<0.50	Irreversibilità statica	Static irreversibility



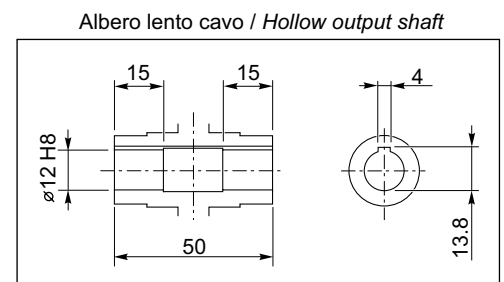
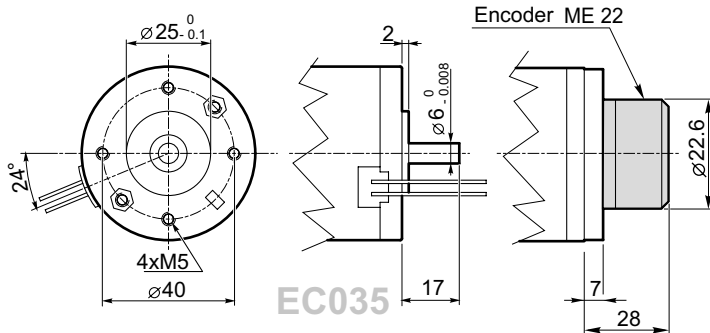
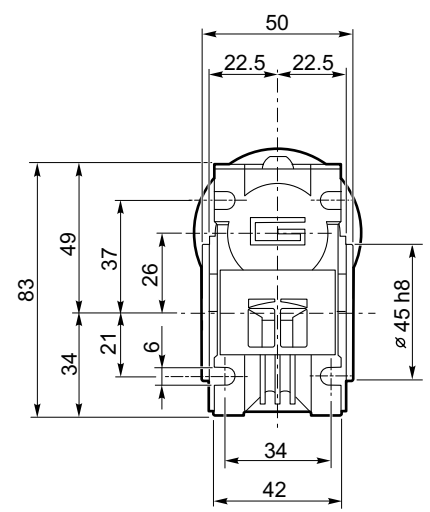
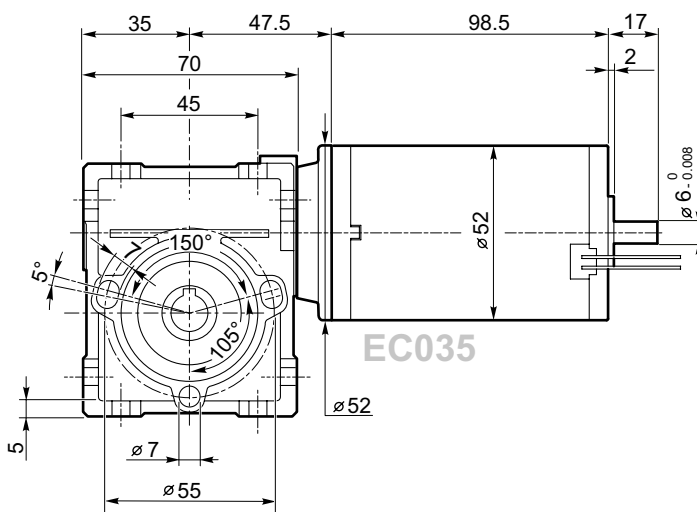
Micro motoriduttori CC a vite senza fine DC Micro wormgearmotors

CM026 con motore CC

CM026 with DC motor

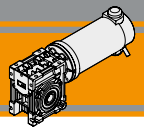
CM026 n ₁ =3000 rpm			EC035 S2 12/24V	
ir	M _n [Nm]	Kg	[Nm]	[rpm]
5	10	0.8	0.8	600
7.5	11		1.2	400
10	11		1.5	300
15	11		2.2	200
20	11		2.9	150
30	12		3.9	100
40	11		4.9	75
50	10		5.8	60
60	9		6.5	50

Tipo Type	Servizio Duty	P _n [W]	V [V]	I [A]	IC	FF	M _n [Nm]	n ₁ [rpm]	IP	Kg
EC035.120	S2 9'	55	12	8.0	F	1	0.18	3000	20	0.8
EC035.240	S2 9'	55	24	4.0			0.18	3000		



EC035: per montaggio encoder
serve flangia AS204
EC035: encoder assembling
needs flange AS204





CM026 con motore CC

CM026 with DC motor

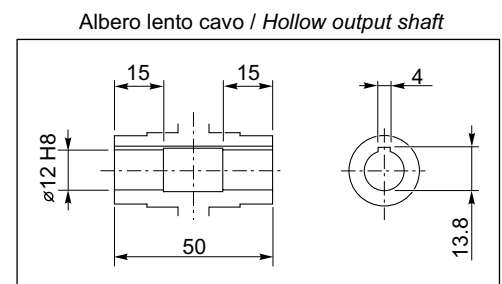
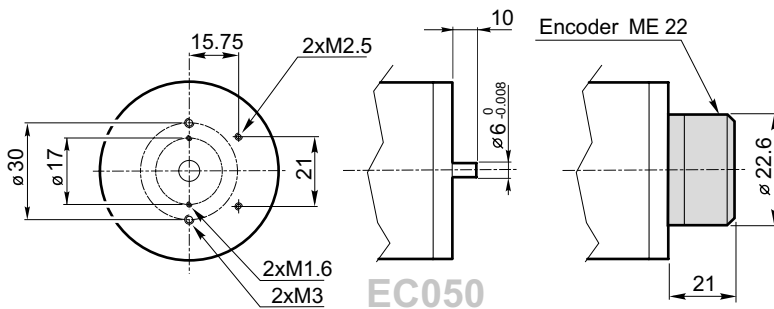
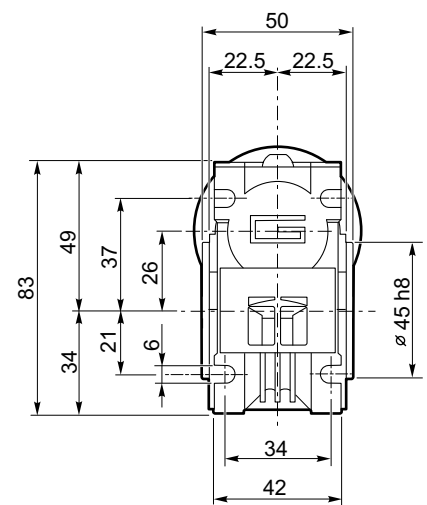
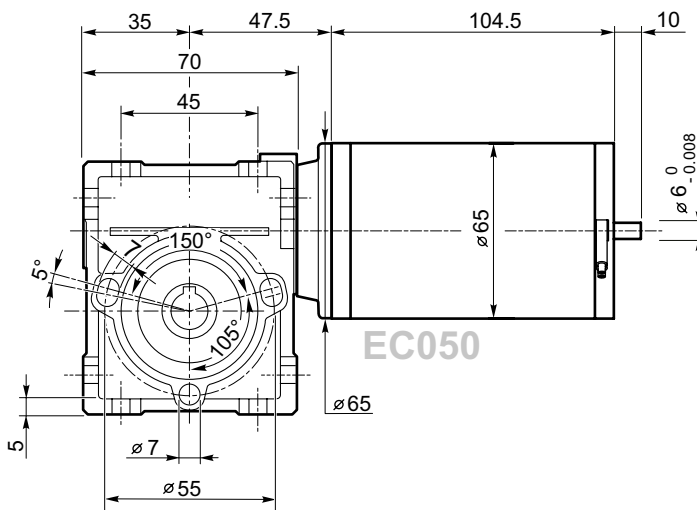
CM026 n ₁ =3000 rpm			EC050 S2 12/24V		
ir	M _n [Nm]	Kg	[Nm]	[rpm]	
5	10		0.8	1	600
7.5	11			1.5	400
10	11			2	300
15	11			2.8	200
20	11			3.6	150
30	12			4.8	100
40	11			6	75
50	10			7	60
60	9			8	50

Tipo Type	Servizio Duty	P _n [W]	V [V]	I [A]	IC	FF	M _n [Nm]	n ₁ [rpm]	IP	Kg
EC050.12E	S2 9'	70	12	9.4	F	1	0.22	3000	20	1.2
EC050.24E	S2 9'	70	24	4.7			0.22			

Azionamenti
Drives



H2



Encoder



I2

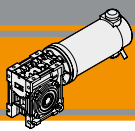
Freno / Brake



C12

DC

CM



Micro motoriduttori CC a vite senza fine DC Micro wormgearmotors

CM026 con motore CC

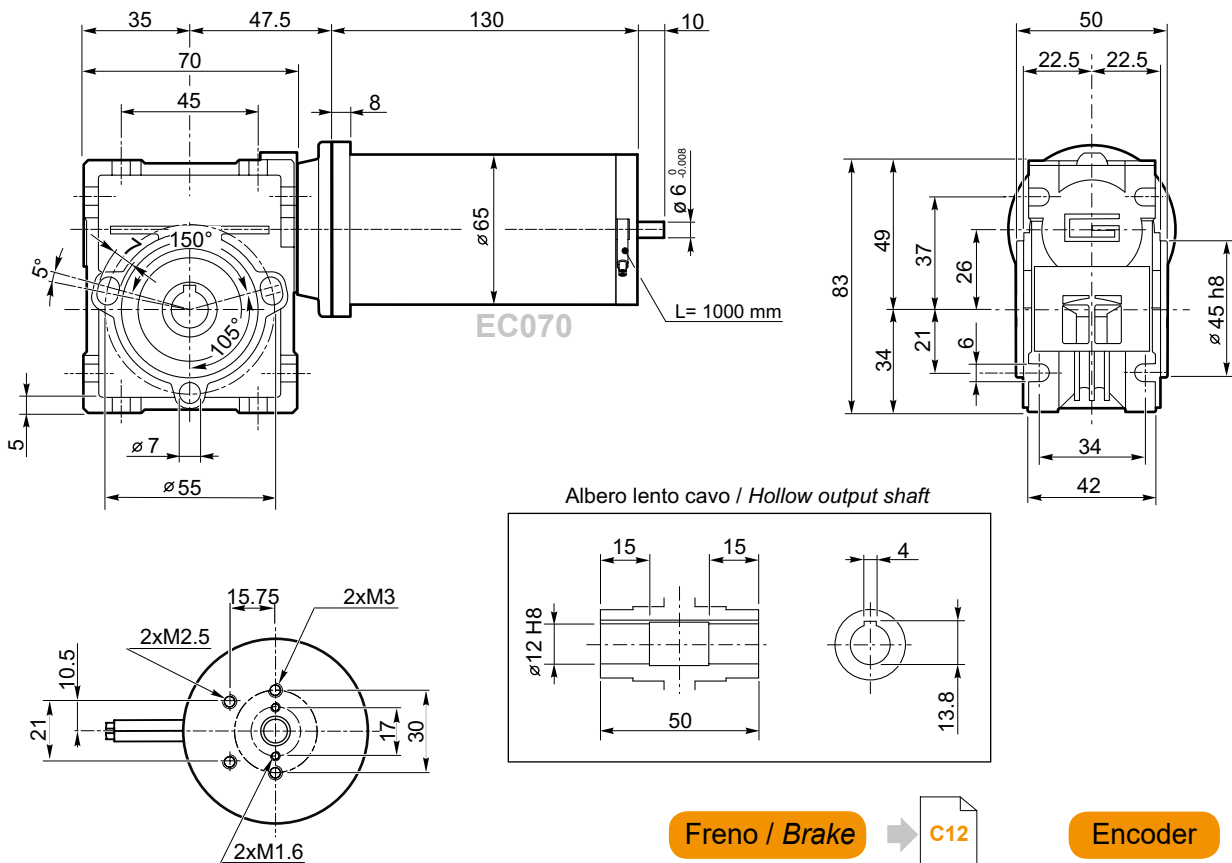
CM026 with DC motor

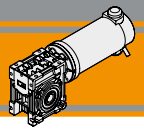
CM026 n ₁ =3000 rpm			EC070			
ir	M _n [Nm]	Kg	S1 12/24 V		S2 12/24 V	
			[Nm]	[rpm]	[Nm]	[rpm]
5	10	0.8	0.98	600	1.38	600
7.5	11		1.44	400	2.03	400
10	11		1.87	300	2.63	300
15	11		2.74	200	3.86	200
20	11		3.52	150	4.96	150
30	12		4.82	100	6.79	100
40	11		5.98	75	8.43	75
50	10		7.04	60	9.92	60
60	9		7.92	50	11.16	50

Nota: le caselle in colore grigio indicano il superamento della coppia massima sopportata dal riduttore per il servizio in S1.
N.B.: boxes in grey indicate that maximum torque withstood by gear reducer for service in S1 is exceeded.

Tipo Type	Servizio Duty	P _n [W]	V [V]	I [A]	IC	FF	M _n [Nm]	n ₁ [rpm]	IP	Kg
EC070.12E	S1	70	12	8.4	F	1	0.22	3000	20	1.7
	S2 20'	100		11.8			0.31			
EC070.24E	S1	70	24	4.2						
	S2 20'	100		5.9			0.31			

Azionamenti
Drives





CM026 con motore CC

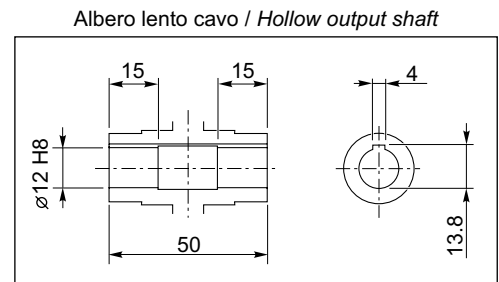
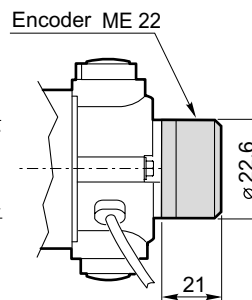
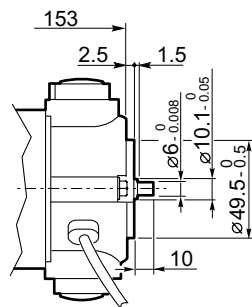
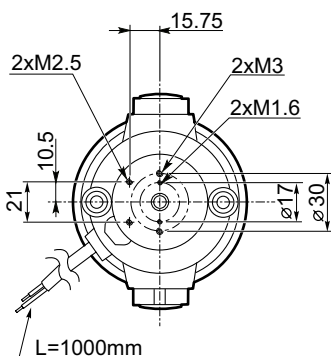
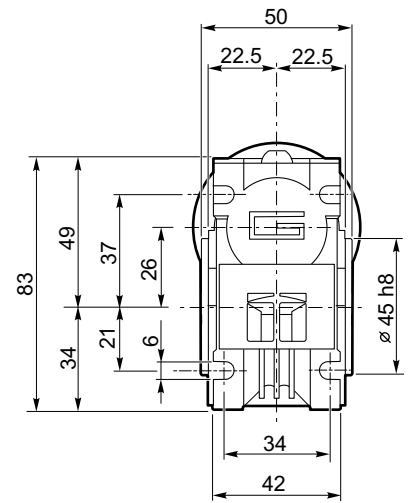
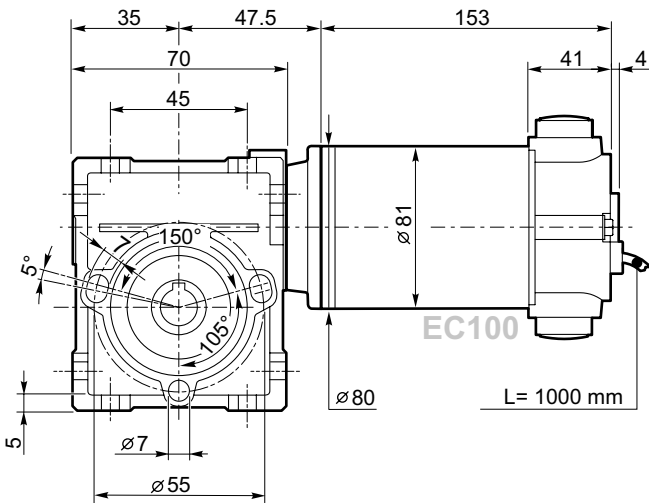
CM026 with DC motor

CM026 n ₁ =2800 rpm			EC100			
ir	M _n [Nm]	Kg	S1 12/24 V		S2 12/24 V	
			[Nm]	[rpm]	[Nm]	[rpm]
5	10	0.8	1.38	600	1.92	600
7.5	11		2.03	400	2.81	400
10	11		2.63	300	3.65	300
15	11		3.86	200	5.36	200
20	11		4.96	150	6.88	150
30	12		6.79	100	9.42	100
40	11		8.43	75	11.69	75
50	10		9.92	60	13.76	60
60	9		11.16	50	15.48	50

Nota: le caselle in colore grigio indicano il superamento della coppia massima sopportata dal riduttore per il servizio in S1.
N.B.: boxes in grey indicate that maximum torque withstood by gear reducer for service in S1 is exceeded.

Tipo Type	Servizio Duty	P _n [W]	V [V]	I [A]	IC	FF	M _n [Nm]	n ₁ [rpm ¹]	IP	Kg
EC100.120	S1	100	12	12	F	1	0.31	3000	40	2.7
	S2 25'	140		16.8			0.43			
EC100.240	S1	100	24	6			0.31		20	
EC100.24E	S2 25'	140		8.4			0.43			

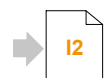
Azionamenti
Drives

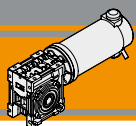


Freno / Brake



Encoder





Micro motoriduttori CC a vite senza fine DC Micro wormgearmotors

CM030 con motore CC

CM030 with DC motor

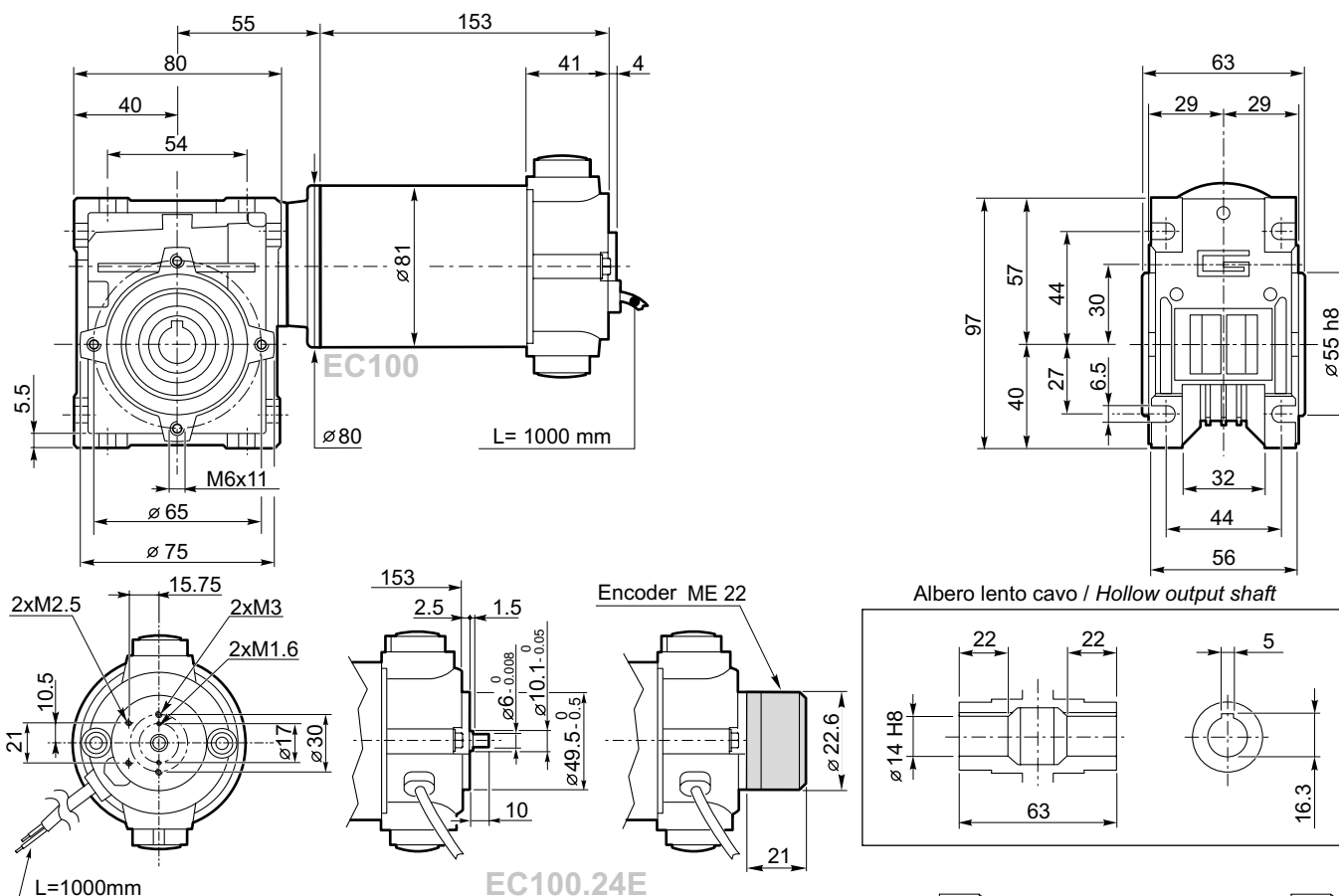
CM030 n ₁ =3000 rpm			EC100			
i _r	M _n [Nm]	Kg	S1 12/24 V		S2 12/24 V	
			[Nm]	[rpm]	[Nm]	[rpm]
5	13	1.2	1.4	600	1.9	600
7.5	15		2	400	2.8	400
10	16		2.7	300	3.7	300
15	16		3.9	200	5.4	200
20	14		5	150	6.9	150
25	15		6	120	8.3	120
30	18		6.9	100	9.6	100
40	16		8.7	75	12.1	75
50	15		10	60	13.9	60
60	14		11.5	50	16.0	50
80	12	14.1	37.5	19.6	37.5	
100	11	16.1	30	22.3	30	

Nota: le caselle in colore grigio indicano il superamento della coppia massima sopportata dal riduttore per il servizio in S1.
N.B.: boxes in grey indicate that maximum torque withstood by gear reducer for service in S1 is exceeded.

Tipo Type	Servizio Duty	P _n [W]	V [V]	I [A]	IC	FF	M _n [Nm]	n ₁ [rpm ¹]	IP	Kg
EC100.120	S1	100	12	12	F	1	0.31	3000	40	2.7
	S2 25'	140		16.8			0.43			
EC100.240	S1	100	24	6			0.31		20	
EC100.24E	S2 25'	140		8.4			0.43			

Azionamenti
Drives

H2

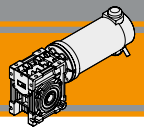


Freno / Brake

C12

Encoder

I2



CM030 con motore CC

CM030 with DC motor

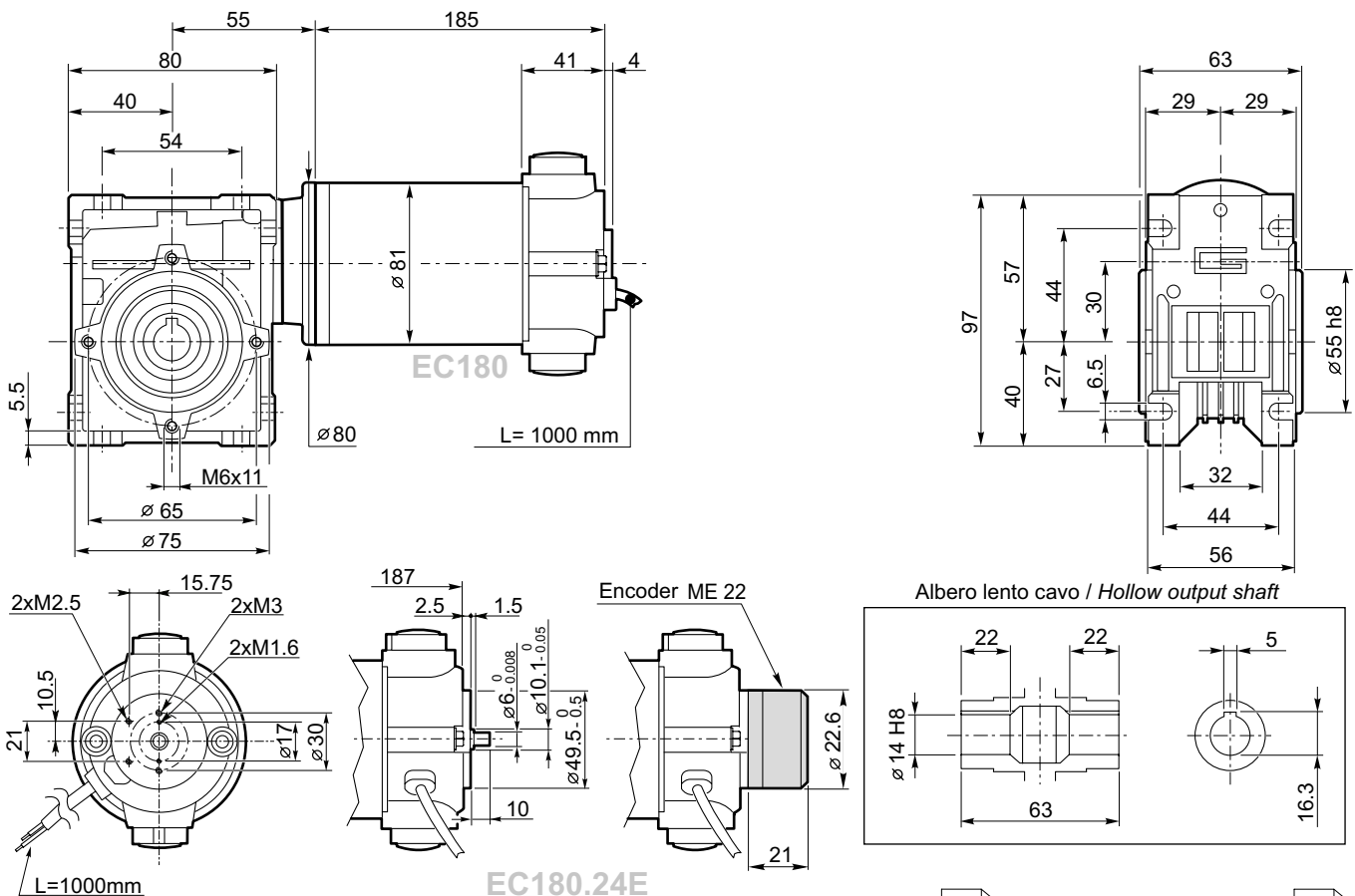
CM030 n ₁ =3000 rpm			EC180			
ir	M _n [Nm]	Kg	S1 12/24 V		S2 12/24 V	
			[Nm]	[rpm]	[Nm]	[rpm]
5	13	1.2	2.6	600	3.6	600
7.5	15		3.7	400	5.2	400
10	16		5.0	300	7.0	300
15	16		7.2	200	10.1	200
20	14		9.2	150	12.9	150
25	15		11.0	120	15.5	120
30	18		12.7	100	17.8	100
40	16		16.0	75	22.5	75
50	15		18.4	60	25.8	60
60	14		21.1	50	29.7	50
80	12		25.9	37.5	36.4	37.5
100	11		29.6	30	41.5	30

Nota: le caselle in colore grigio indicano il superamento della coppia massima sopportata dal riduttore per il servizio in S1.
N.B.: boxes in grey indicate that maximum torque withstood by gear reducer for service in S1 is exceeded.

Nota: su rapporti 60, 80 e 100 non è possibile montare motore EC180.24E
Note: on ratio 60, 80 and 100 is not possible to assembly motor EC180.24E

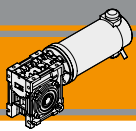
Tipo Type	Servizio Duty	Pn [W]	V [V]	I [A]	IC	FF	Mn [Nm]	n1 [rpm ¹]	IP	Kg
EC180.120	S1	180	12	21.5	F	1	0.57	3000	40	3.4
	S2 25'	250		30			0.8			
EC180.240	S1	180	24	10.8			0.57		20	
EC180.24E	S2 25'	250		15			0.8			

Azionamenti Drives → H2



Freno / Brake → C12

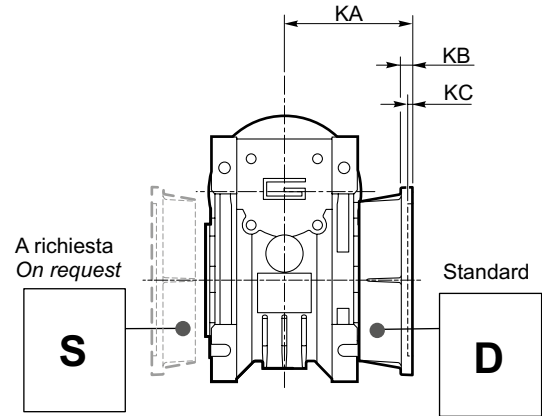
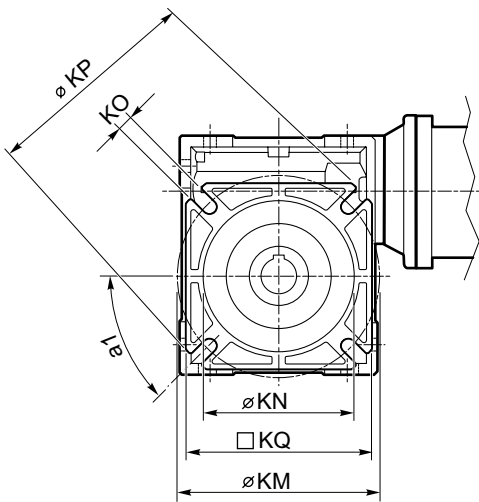
Encoder → I2



Dimensioni

Dimensions

CM.../... F... Flange uscita / Output flanges

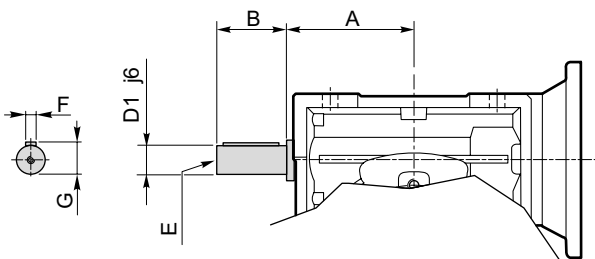


CM	CM..F								
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ
026	45°	45	6	4.5	55-69	40	6.5(n.4)	75	70
030	45°	54.5	6	4	68	50	6.5(n.4)	80	70

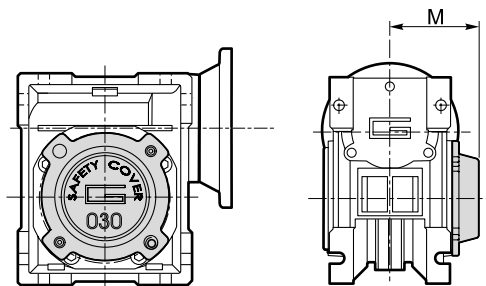
Opzioni

Options

VS - Vite sporgente / Extended input shaft

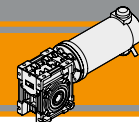


SC - Safety cover



	A	B	D ₁ j6	E	F	G
CM 030	45	20	9	M4	3	10.2

	M
CM 030	47

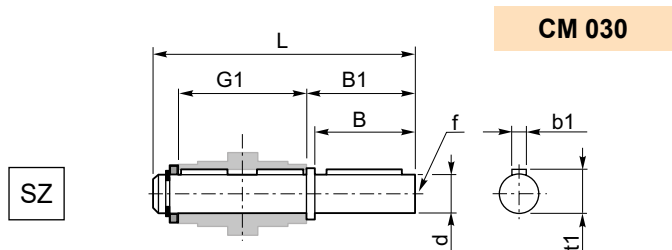
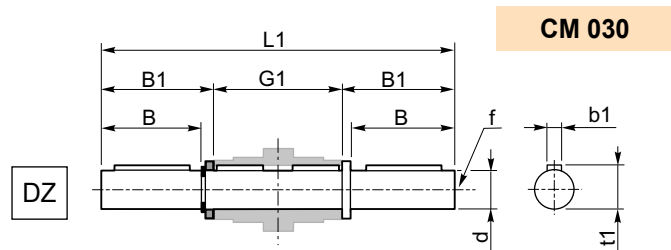


Accessori

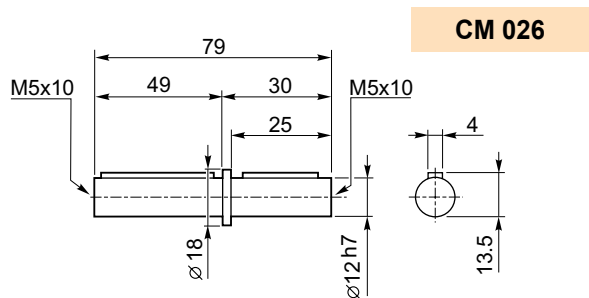
Accessories

Albero lento

Output shaft



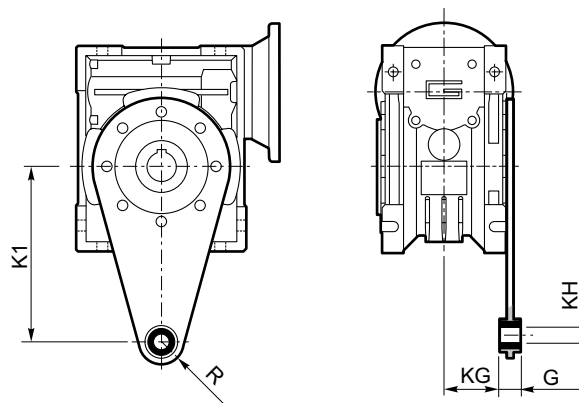
	d h7	B	B1	G1	L	L1	f	b1	t1
CM 030	14	30	32.5	63	102	128	M6	5	16



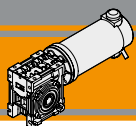
Braccio di reazione

Torque arm

	K1	G	KG	KH	R
CM 030	85	14	23	8	15



DC
CM



Freno

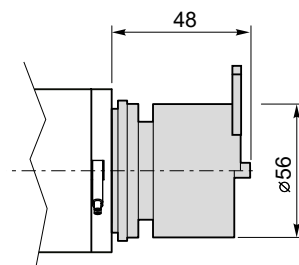
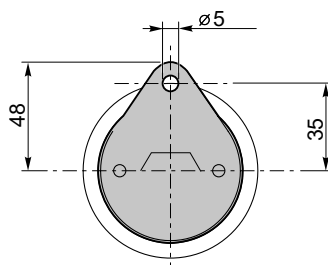
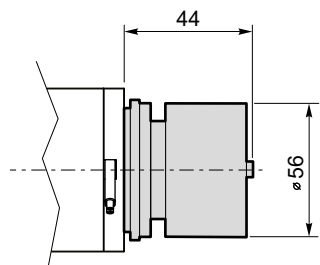
Brake

Freno / Brake

Freno con leva di sblocco/ Brake with hand release

EC050...BR
EC070...BR

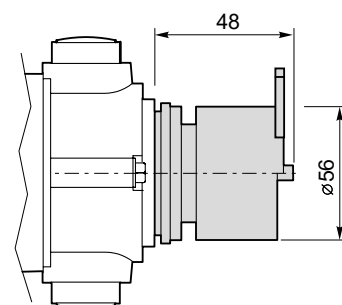
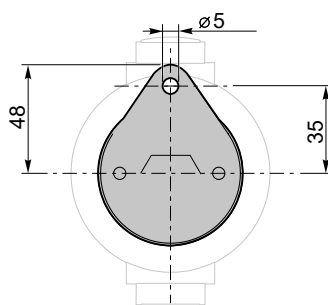
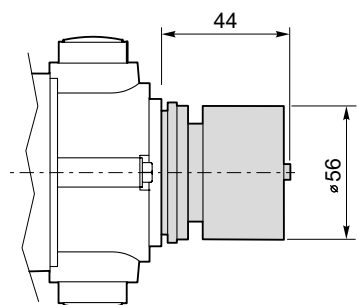
EC050...BRL
EC070...BRL



	P_n [W]	V [V]	M_n [Nm]	n₁ [min ⁻¹]
Caratteristiche del freno / Break features	14	12	2	3000
		24		

EC100.24E BR
EC180.24E BR

EC100.24E BRL
EC180.24E BRL



	P_n [W]	V [V]	M_n [Nm]	n₁ [min ⁻¹]
Caratteristiche del freno / Break features	14	12	2	3000
		24		

**INTECNO SRL**

Via Caduti di Sabbiuno, 9/E
 40011 Anzola dell'Emilia (BO) - ITALY
 Tel: +39 051 19985350
 Fax: +39 051 19985361
 info@intecno-srl.com
 www.intecno-srl.com



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



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 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



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



SALES OFFICE FRANCE
 12 Impasse des Mûriers
 38300 Ruy - FRANCE
 Tel: +33 (0) 6 85 12 09 87
 Fax - Italy: +39 051 734943
 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 734943
 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

INTECNO member of
TRANSTECNO
 group

power transmissions

www.micro-intecno.com
 www.intecno-srl.com