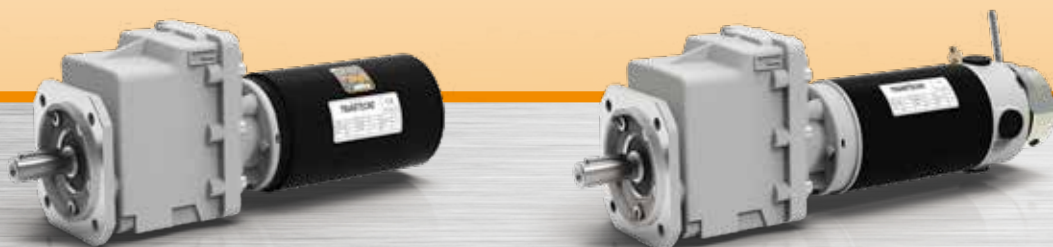
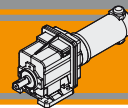


Motoriduttori CC ad ingranaggi cilindrici
DC helical in-line gearmotors

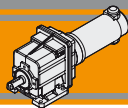




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Sensi di rotazione	<i>Direction of rotation</i>	BD3
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Simbologia	<i>Symbols</i>	BD3
Carichi radiali	<i>Radial loads</i>	BD4
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Dati tecnici per servizio S2	<i>Technical data for S2 duty</i>	BD5
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NDCMG
ECMG

Motoriduttori CC ad ingranaggi cilindrici
DC Helical in-line gearmotors

MINI
TECNO

Caratteristiche tecniche

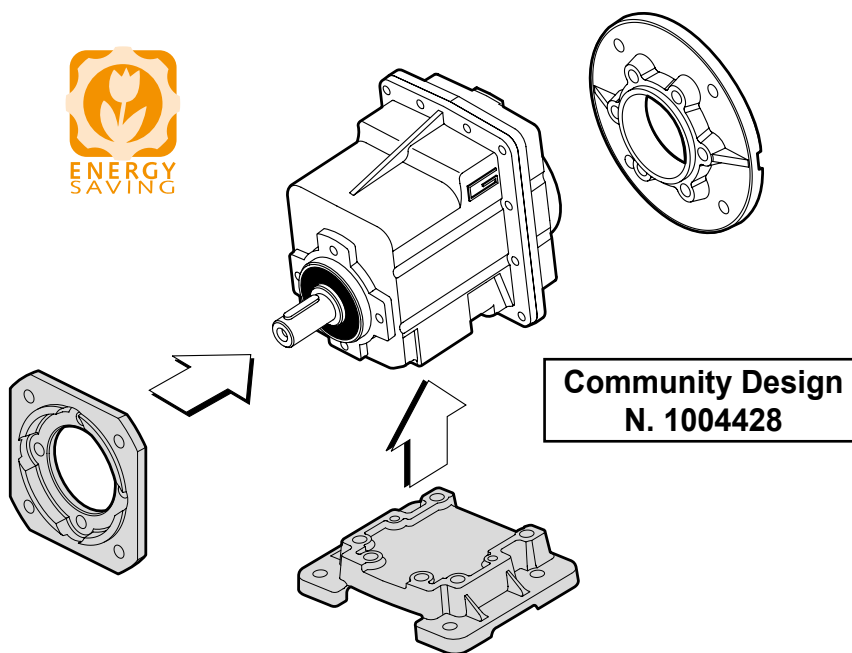
Technical features

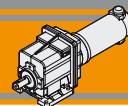
I motoriduttori CC ad ingranaggi cilindrici a magneti permanenti in neodimio **NDCMG** e in ferrite **ECMG** hanno le seguenti caratteristiche principali:

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

NDCMG neodymium permanent magnets and **ECMG** ferrite permanent magnets DC helical in-line gearmotors range has the following main features:

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

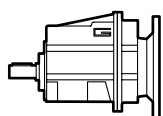




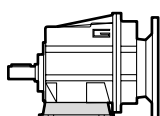
Designazione

Classification

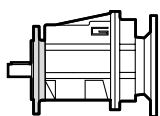
U



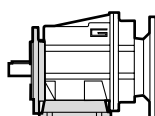
H



F



H/F



MOTORIDUTTORE / GEARMOTOR

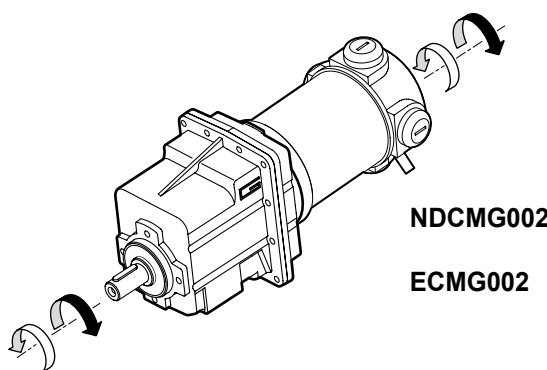
NDCMG	120/002	U	8.99	D20	240
Tipo Type	Grandezza Size	Versione Version	Rapporto Ratio	Albero uscita Output shaft	Versione motore Motor version
NDCMG	120/002 180/002	U... H... F... H.../F...	vedi tabelle see tables	vedi tabelle see tables	120 240

MOTORIDUTTORE / GEARMOTOR

ECMG	100/002	U	8.99	D20	240
Tipo Type	Grandezza Size	Versione Version	Rapporto Ratio	Albero uscita Output shaft	Versione motore Motor version
ECMG	070/002 100/002 180/002 250/002 350/002 600/002	U... H... F... H.../F...	vedi tabelle see tables	vedi tabelle see tables	120 240 24E

Sensi di rotazione

Direction of rotation



NDCMG002

ECMG002

Lubrificazione

Lubrication

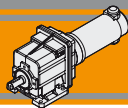
Tutti i riduttori sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

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

Simbologia

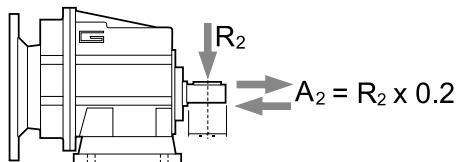
Symbols

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>
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>



Carichi radiali

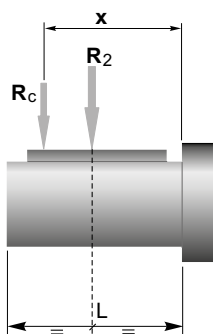
Radial loads



n ₂ [min ⁻¹]	R ₂ [N]
	CMG 002
700	416
600	437
500	465
400	501
250	586
180	653
150	748
120	806
100	958
80	1032
60	1136
40	1300
10	1300

Quando il carico radiale risultante non è applicato sulla mezza-
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:*



	CMG 002
a	73
b	53
R _{2MAX}	1300

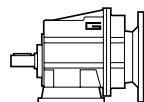
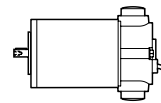
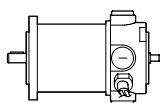
$$R_c = \frac{R_2 \cdot a}{(b + x)} \leq R_{2MAX}$$

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

$$R \leq R_c$$

Motori applicabili

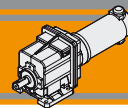
IEC Motor adapters

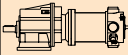
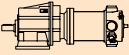


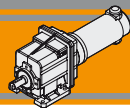
		ND		EC					
		120.120	180.120	070.12E	100.120	180.120	250.120	350.120	600.120
		120.240	180.240	070.24E	100.240	180.240	250.240	350.240	600.240
CMG	002	5.03 - 55.10							

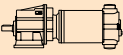
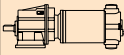
5.03 - 55.10

Rapporti di riduzione i
Ratio i


Dati tecnici per servizio S2
ND CMG
Technical data for S2 duty

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)	596	2.5	12.6	5.03	120/002	120/240	(3000 min ⁻¹)	596	3.8	8.1	5.03	180/002	120/240
	492	3.0	10.4	6.10				492	4.7	6.7	6.10		
	401	3.7	8.5	7.49				401	5.7	5.4	7.49		
	334	4.4	8.9	8.99				334	6.9	5.7	8.99		
	295	5.0	7.9	10.16				295	7.8	5.0	10.16		
	249	5.9	6.6	12.07				249	9.2	4.2	12.07		
	224	6.6	8.4	13.40				224	10	5.4	13.40		
	198	7.4	7.4	15.14				198	12	4.8	15.14		
	165	8.9	6.2	18.17				165	14	4.0	18.17		
	139	11	5.2	21.58				139	17	3.3	21.58		
	128	12	4.8	23.51				128	18	3.1	23.51		
	120	12	4.5	25.10				120	19	2.9	25.10		
	111	13	4.2	27.08				111	21	2.7	27.08		
	92	16	3.5	32.49				92	25	2.2	32.49		
	71	21	2.7	42.04				71	32	1.7	42.04		
	67	22	2.5	44.89				67	34	1.6	44.89		
	61	24	2.3	48.86				61	37	1.5	48.86		
	54	27	2.0	55.10				54	42	1.3	55.10		

**ECMG**Motoriduttori CC ad ingranaggi cilindrici
DC Helical in-line gearmotors**MINI**TECNO**Dati tecnici per servizio S2****EC CMG****Technical data for S2 duty**

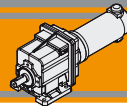
P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version	P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
100							350						
(3000 min ⁻¹)	596	1.5	20.2	5.03	070/002	12E/24E	(3000 min ⁻¹)	596	5.4	5.8	5.03	250/002	120/240
	492	1.9	16.6	6.10				492	6.5	4.8	6.10		
	401	2.3	13.5	7.49				401	8.0	3.9	7.49		
	334	2.7	14.2	8.99				334	10	4.1	8.99		
	295	3.1	12.6	10.16				295	11	3.6	10.16		
	249	3.7	10.6	12.07				249	13	3.0	12.07		
	224	4.1	13.4	13.40				224	14	3.8	13.40		
	198	4.6	11.9	15.14				198	16	3.4	15.14		
	165	5.5	9.9	18.17				165	19	2.8	18.17		
	139	6.6	8.3	21.58				139	23	2.4	21.58		
	128	7.2	7.7	23.51				128	25	2.2	23.51		
	120	7.7	7.2	25.10				120	27	2.0	25.10		
	111	8.3	6.6	27.08				111	29	1.9	27.08		
	92	9.9	5.5	32.49				92	35	1.6	32.49		
	71	13	4.3	42.04				71	45	1.2	42.04		
	67	14	4.0	44.89				67	48	1.1	44.89		
	61	15	3.7	48.86				61	52	1.1	48.86		
	54	17	3.3	55.10		54	59	0.9	55.10				
140							500						
(3000 min ⁻¹)	596	2.2	14.4	5.03	100/002	120/240/24E	(3000 min ⁻¹)	596	7.7	4.0	5.03	350/002	120/240
	492	2.6	11.9	6.10				492	9.3	3.3	6.10		
	401	3.2	9.7	7.49				401	11	2.7	7.49		
	334	3.8	10.1	8.99				334	14	2.8	8.99		
	295	4.3	9.0	10.16				295	16	2.5	10.16		
	249	5.2	7.6	12.07				249	18	2.1	12.07		
	224	5.7	9.6	13.40				224	20	2.7	13.40		
	198	6.5	8.5	15.14				198	23	2.4	15.14		
	165	7.8	7.1	18.17				165	28	2.0	18.17		
	139	9.2	6.0	21.58				139	33	1.7	21.58		
	128	10	5.5	23.51				128	36	1.5	23.51		
	120	11	5.1	25.10				120	38	1.4	25.1		
	111	12	4.7	27.08				111	41	1.3	27.08		
	92	14	4.0	32.49				92	50	1.1	32.49		
	71	18	3.1	42.04				71	64	0.9	42.04		
	67	19	2.9	44.89				67	69	0.8	44.89		
	61	21	2.6	48.86				61	75	0.7	48.86		
	54	24	2.3	55.10									
250							800						
(3000 min ⁻¹)	596	3.8	8.1	5.03	180/002	120/240/24E	(3000 min ⁻¹)	596	12	2.5	5.03	600/002	120/240
	492	4.7	6.7	6.10				492	15	2.1	6.10		
	401	5.7	5.4	7.49				401	18	1.7	7.49		
	334	6.9	5.7	8.99				334	22	1.8	8.99		
	295	7.8	5.0	10.16				295	25	1.6	10.16		
	249	9.2	4.2	12.07				249	30	1.3	12.07		
	224	10	5.4	13.40				224	33	1.7	13.40		
	198	12	4.8	15.14				198	37	1.5	15.14		
	165	14	4.0	18.17				165	44	1.2	18.17		
	139	17	3.3	21.58				139	53	1.0	21.58		
	128	18	3.1	23.51				128	57	1.0	23.51		
	120	19	2.9	25.10				120	61	0.9	25.10		
	111	21	2.7	27.08				111	66	0.8	27.08		
	92	25	2.2	32.49				92	79	0.7	32.49		
	71	32	1.7	42.04				71	79	0.7	42.04		
	67	34	1.6	44.89				67	79	0.7	44.89		
	61	37	1.5	48.86									
	54	42	1.3	55.10									

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



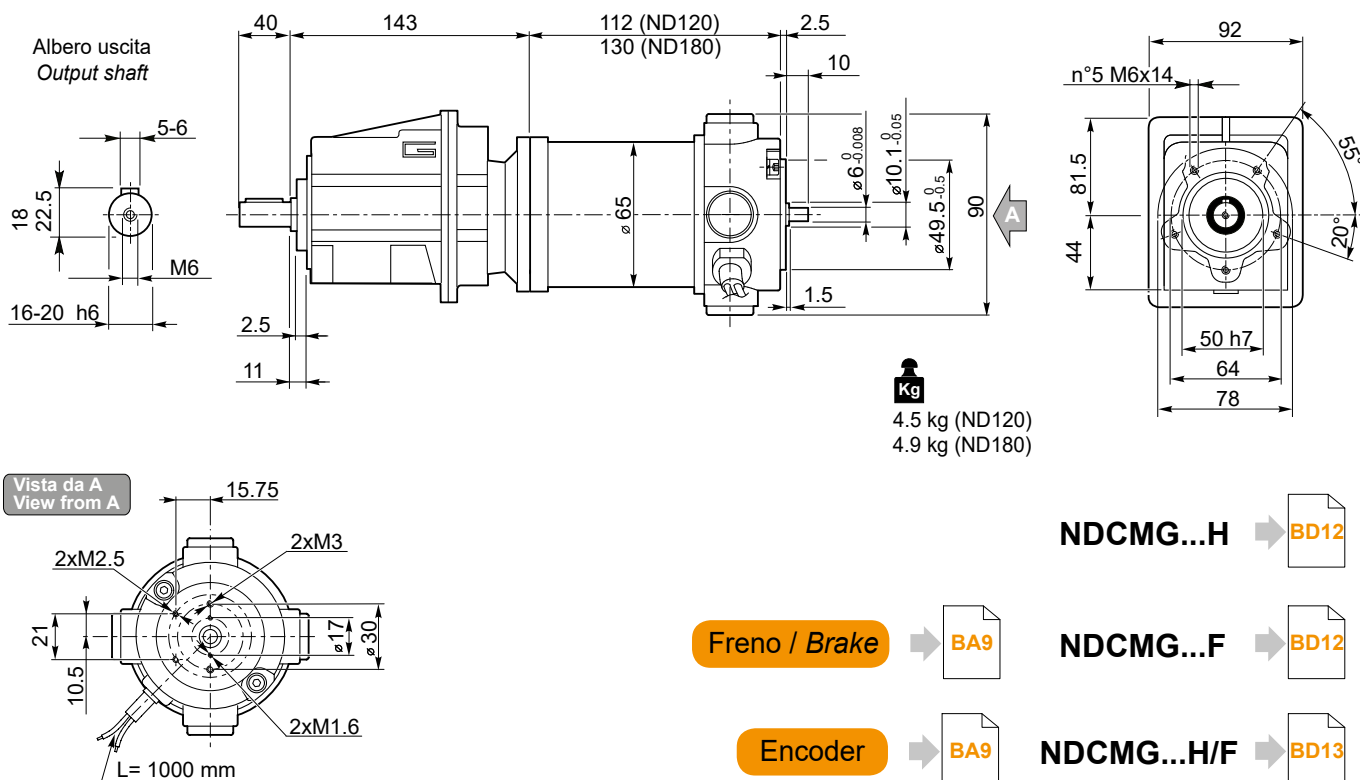
Dimensioni

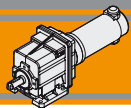
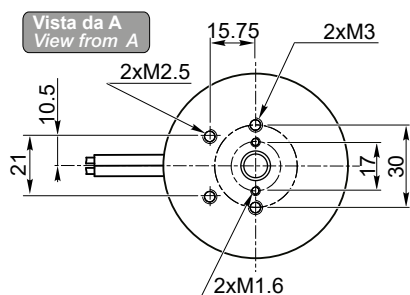
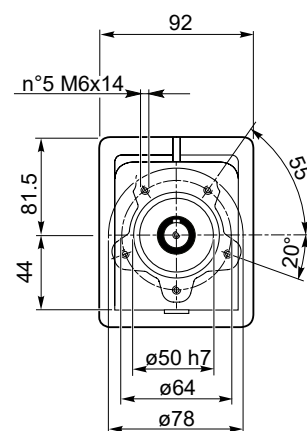
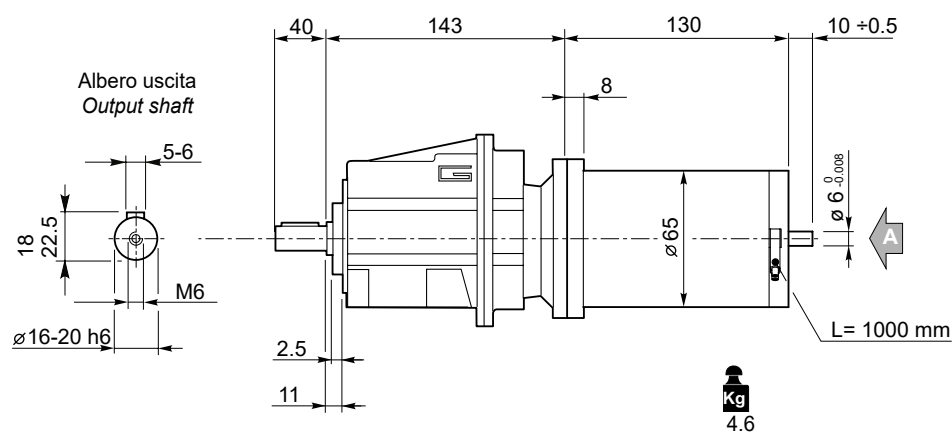
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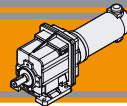
NDCMG..U

NDCMG120/002 U

NDCMG180/002 U



**ECMG****Motoriduttori CC ad ingranaggi cilindrici**
DC Helical in-line gearmotors**MINI**
TECNO**Dimensioni****Dimensions****ECMG..U****ECMG070/002 U****Freno / Brake****Encoder****Motori / Motors IP66****ECMG...H****ECMG...F****ECMG...H/F**

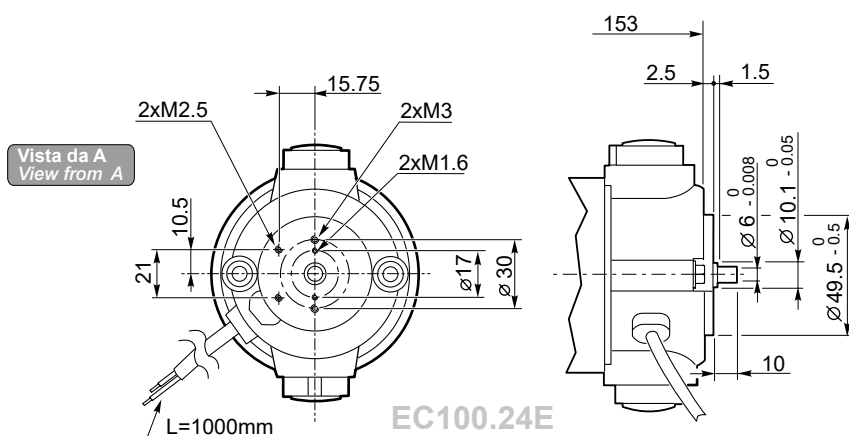
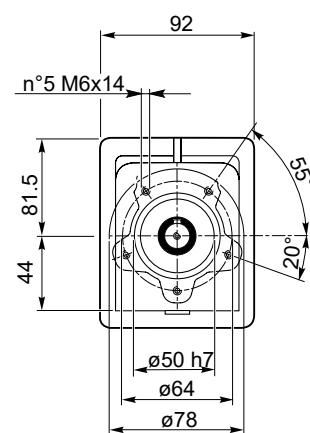
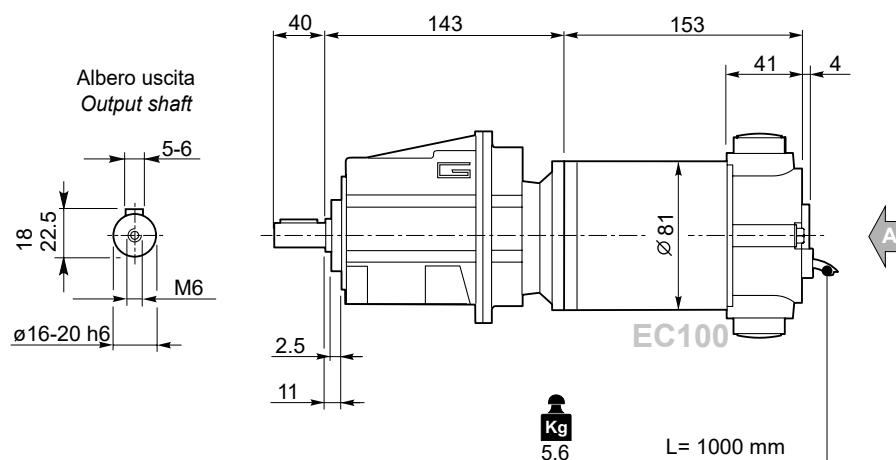


Dimensioni

Dimensions

ECMG..U

ECMG100/002 U



Freno / Brake



Encoder



Motori / Motors IP66



ECMG...H

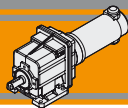


ECMG...F

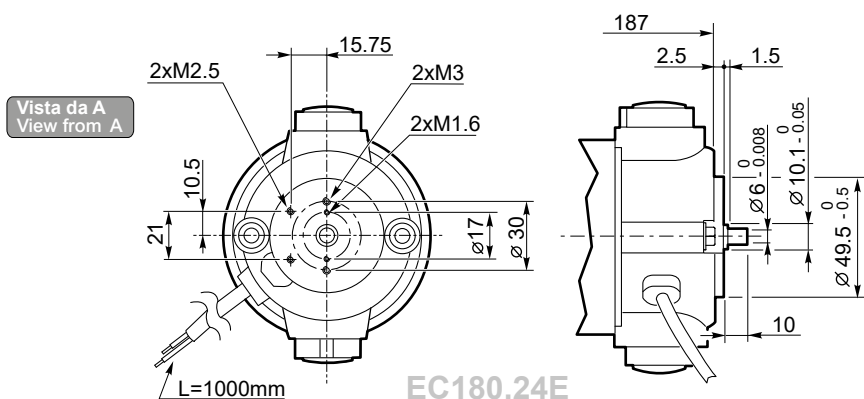
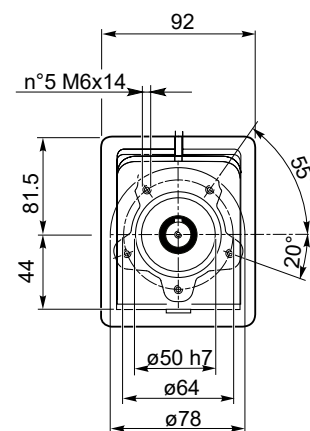
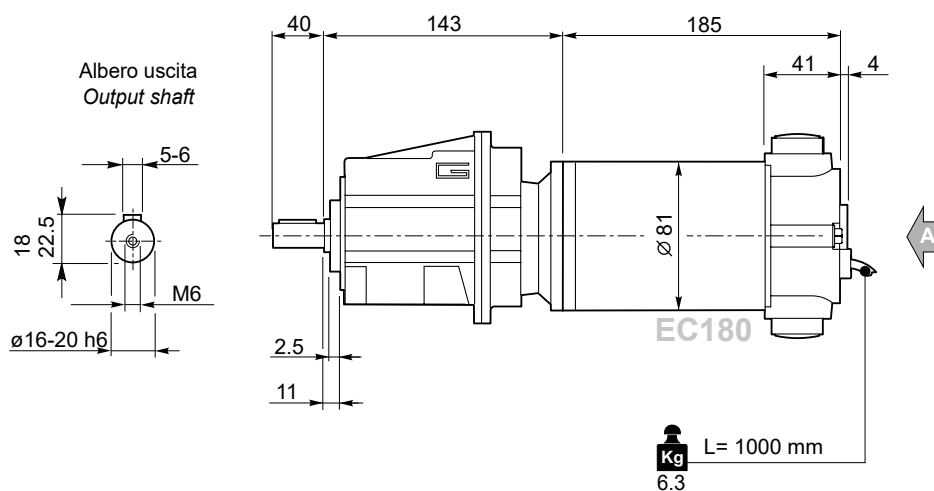
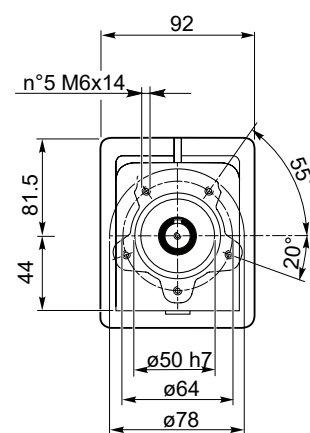
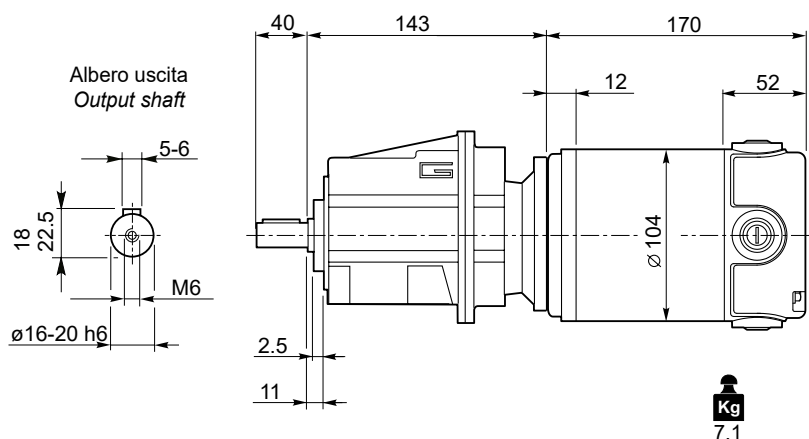


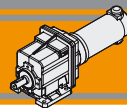
ECMG...H/F



**ECMG**

Motoriduttori CC ad ingranaggi cilindrici
DC Helical in-line gearmotors

MINI **TECNO****Dimensioni****Dimensions****ECMG..U****ECMG180/002 U**Freno / Brake → [BB23](#)Encoder → [BB24](#)Motori / Motors IP66 → [BC6](#)ECMG...H → [BD12](#)ECMG...F → [BD12](#)ECMG...H/F → [BD13](#)**ECMG250/002 U**Motori / Motors IP66 → [BC8](#)ECMG...H → [BD12](#)ECMG...F → [BD12](#)ECMG...H/F → [BD13](#)

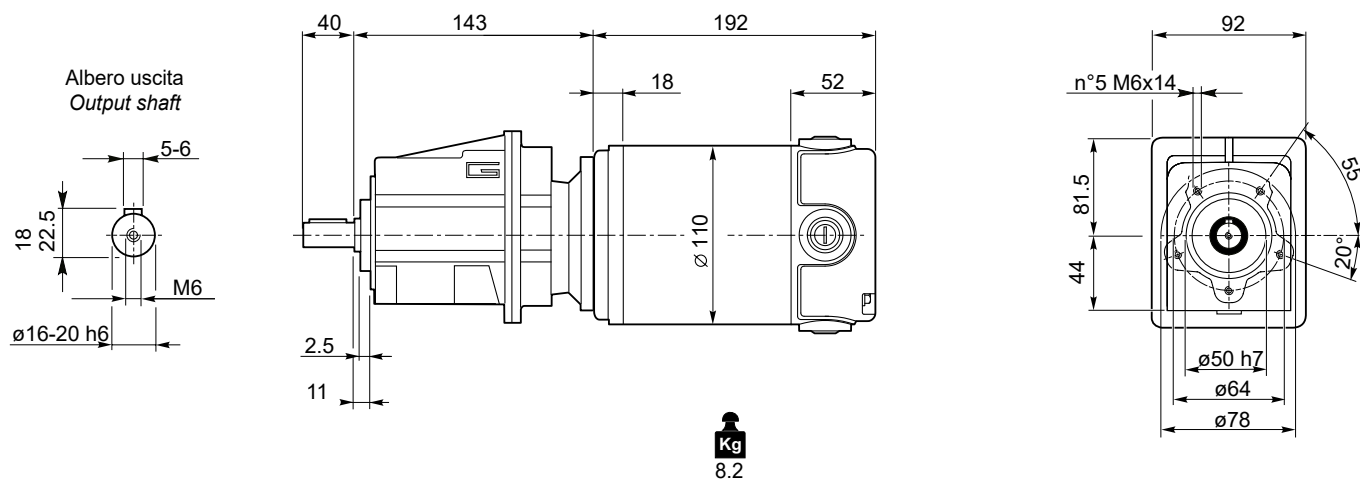


Dimensioni

Dimensions

ECMG..U

ECMG350/002 U



Freno / Brake



Motori / Motors IP66



ECMG...H



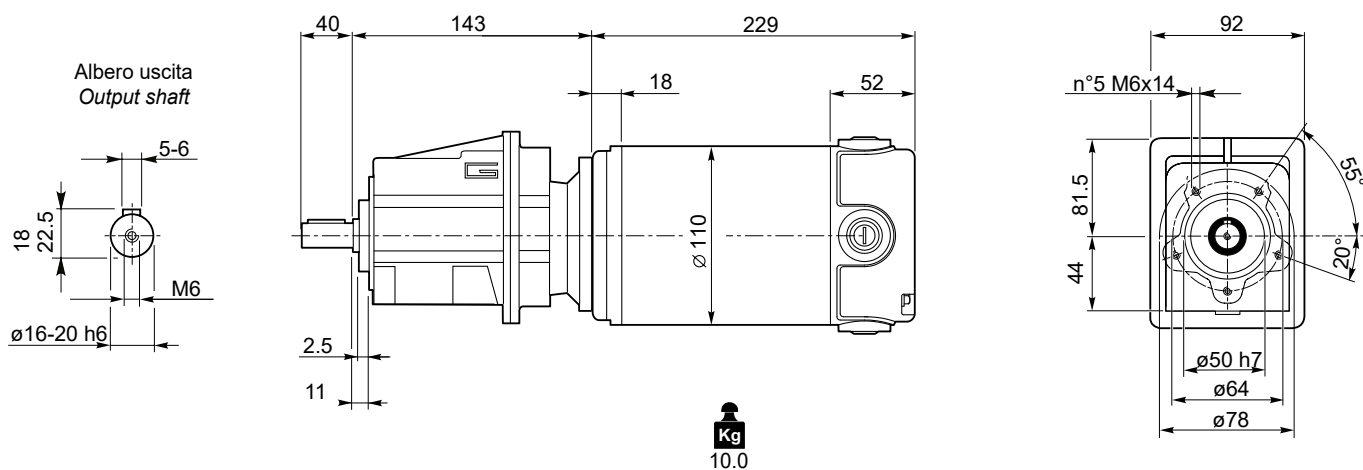
ECMG...F



ECMG...H/F



ECMG600/002 U



Freno / Brake



Motori / Motors IP66



ECMG...H



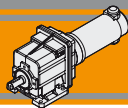
ECMG...F



ECMG...H/F



DC



**NDCMG
ECMG**

Motoriduttori CC ad ingranaggi cilindrici
DC Helical in-line gearmotors

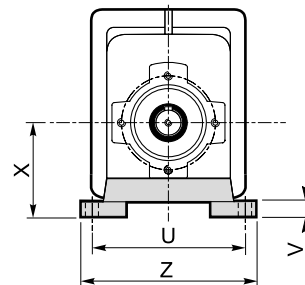
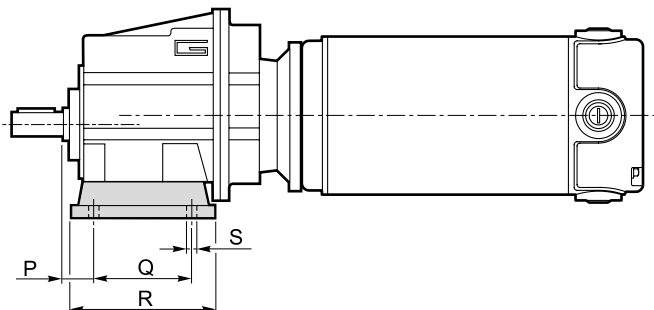
MINI **TECNO**

Dimensioni

Dimensions

NDCMG..H - ECMG..H

NDCMG..2 H..
ECMG..2 H..

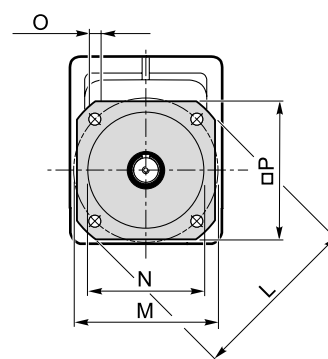
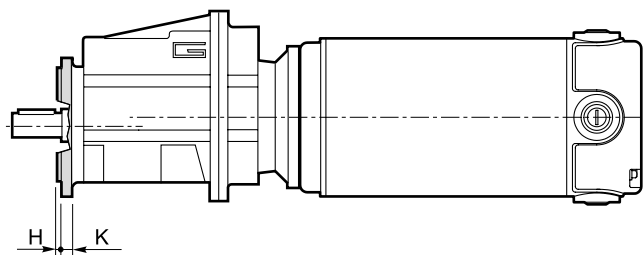


Versione H / H Version										
CMG	P	Q	R	S	U	V	X	Z	Piede / Foot	
									Tipo / Type	Peso / Weight [kg]
002	18	60	80	9	100	10	60	120	H60	0.2
	18	80	104	9	110 - 120	10	75	145	H75	0.3
	18	50 - 87	110	9	110	10	85	135	H85	0.4

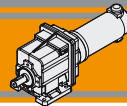
 Preferenziale / Preferred

NDCMG..F - ECMG..F

NDCMG..2 F..
ECMG..2 F..



Versione F / F Version									
CMG	H	K	L	M	N f7	O	P	Flangia / Flange	
								Tipo / Type	Peso / Weight [kg]
002	3.5	7	105	85	70	6.5	90	F105	0.1
	3.5	8	120	100	80	7	100	F120	0.2
	3.5	8	140	115	95	9	115	F140	0.2



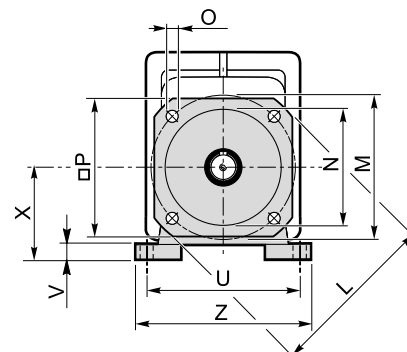
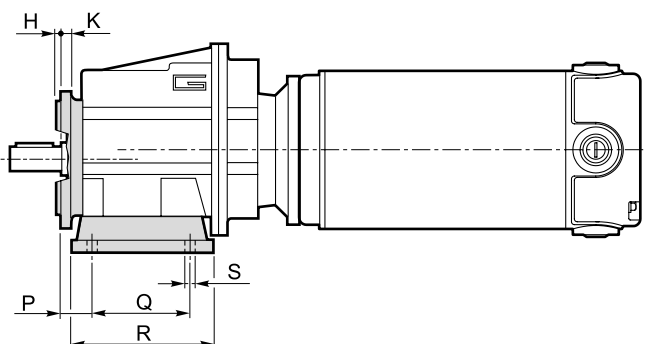
Dimensioni

Dimensions

NDCMG..H../F.. - ECMG..H../F..

NDCMG..2 H../F..

ECMG..2 H../F..



Versione H / <i>H</i> Version											Combinazioni possibili H/F <i>Possible combinations H/F</i>						
CMG	P	Q	R	S	U	V	X	Z	Piede / <i>Foot</i>								
									Tipo <i>Type</i>	Peso / <i>Weight</i> [kg]	F105	F120	F140	F160	F200	F250	F300
002	18	60	80	9	100	10	60	120	H60	0.2	●	●	●				
	18	80	104	9	110 - 120	10	75	145	H75	0.3	●	●	●				
	18	50 - 87	110	9	110	10	85	135	H85	0.4	●	●	●				

Preferenziale / Preferred

• Combinazioni possibili H/F / Possible combinations H/F

Versione F / F Version									
CMG	H	K	L	M	N f7	O	P	Flangia / Flange	
								Tipo / Type	Peso / Weight [kg]
002	3.5	7	105	85	70	6.5	90	F105	0.1
	3.5	8	120	100	80	7	100	F120	0.2
	3.5	8	140	115	95	9	115	F140	0.2

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