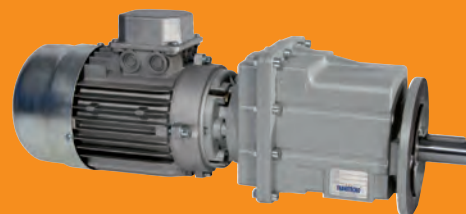


2009-2


TRANSTECNOTM
THE MODULAR GEARMOTOR

**Riduttori
ad ingranaggi
cilindrici CMG**

Helical gearboxes CMG





RIDUTTORI AD INGRANAGGI CILINDRICI CMG **HELICAL GEARBOXES CMG**

B

Indice	Index	Pag. Page
Caratteristiche tecniche	<i>Technical characteristics</i>	B2
Designazione	<i>Designation</i>	B2
Posizioni di montaggio	<i>Mounting positions</i>	B3
Carichi radiali	<i>Radial loads</i>	B3
Simbologia	<i>Symbols</i>	B3
Dati tecnici	<i>Technical data</i>	B4
Motori applicabili	<i>IEC Motor adapters</i>	B9
Dimensioni	<i>Dimensions</i>	B10

Caratteristiche tecniche

Technical characteristics

I riduttori della serie CMG sono caratterizzati da un elevato grado di modularità: partendo da un corpo di base è possibile configurarlo secondo le esigenze dell'applicazione, con flangia o piede.

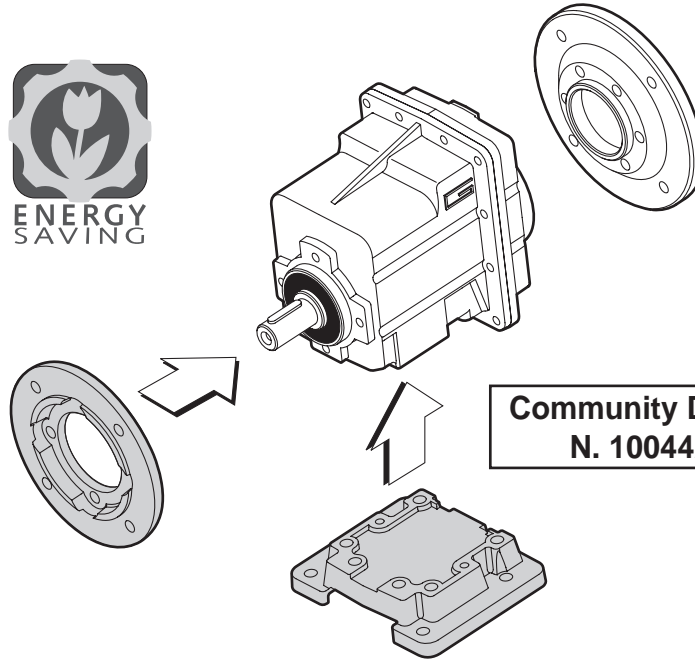
Caratteristiche comuni a tutta la serie:

- Carcasa e flangia PAM in pressofusione di alluminio
- Piedi e flange uscita in ghisa
- Ingranaggi sempre rettificati (sia nel 1° che nel 2° stadio)
- Lubrificazione permanente

CMG helical gearboxes are characterized by high modularity grade: starting from the standard base it is possible to configure the gear according to the specifications, with removable flange or foot.

CMG helical gearboxes have the following characteristics:

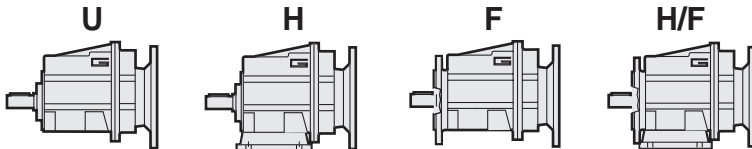
- Die cast aluminium housing and motor flange
- Cast iron foot and output flange
- Ground gears (both 1st and 2nd stage)
- Long life lubrication



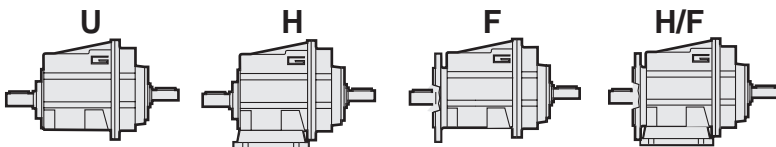
Community Design
N. 1004428

Designazione

Designation



RIDUTTORE / GEARBOX							MOTORE / MOTOR					
CMG	01	2	9.81	H75	P71	B14	O20	71B4	B5	230/400	50	T4
Tipo Type	Grandezza Size	Stadi Stages	Rapporto Ratio	Versione Version	IEC		Diam. Albero uscita Output shaft diam.	Grandezza Size	Forma costuttiva Version	Tensione Voltage	Frequenza Frequency	Pos. morsetteria Terminal board position
CMG	01 02 03 04	2 3	vedi tabella see tables	U... H... F... H.../F...	P63.. — P112..	B5 B14		63.. — 112..	B5 B14			



RIDUTTORE / GEARBOX						
CMGIS	01	2	9.81	U	I16	O20
Tipo Type	Grandezza Size	Stadi Stages	Rapporto Ratio	Versione Version	Diam. Albero entrata Input shaft diam.	Diam. Albero uscita Output shaft diam.
CMGIS	01 02 03 04	2 3	vedi tabella see tables	U... H... F... H.../F...		

Posizioni di montaggio

Mounting positions

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

All CMG reduction units are supplied complete with synthetic lubricant viscosity 320. For this reason they can be installed in any assembly position and do not require maintenance.

Quantità di olio (litri) / Oil quantity (liters)								
Tipo Type	Grandezza / Size							
	012	013	022	023	032	033	042	043
CMG	0.32	0.94	0.32	0.94	0.70	1.80	0.70	1.80
CMGIS	0.32	0.94	0.32	0.94	0.72	1.80	0.72	1.80

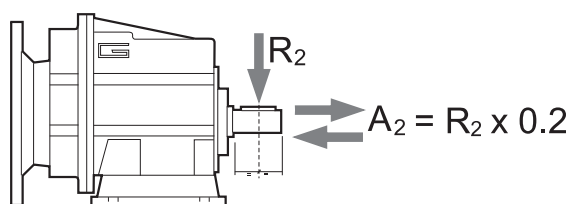
N.B.

Le quantità di lubrificante sono indipendenti dalla posizione di montaggio.

The oil quantity does not depend on mounting position.

Carichi radiali

Radial loads



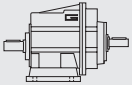
n_2 [min ⁻¹]	R_2 [N]			
	CMG 01	CMG 02	CMG 03	CMG 04
400	921	1842	2395	2866
250	1077	2154	2801	3353
180	1323	2554	3321	3897
150	1406	2714	3529	4244
120	1631	3467	3801	4572
100	1842	3684	4507	5234
80	1984	3969	5042	5991
60	2184	4368	5549	6594
40	2500	5000	6500	8000
10	2500	5000	6500	8000

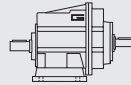
Simbologia

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_n	[Nm]	Coppia nominale in uscita / Nominal output torque
sf		Fattore di servizio / Service factor
R_2	[N]	Carico radiale ammissibile in uscita / Permitted output radial load

Dati tecnici
 n_1 1400 min⁻¹
Technical data

	n_2 [min ⁻¹]	M_2 [Nm]	P1 [kW]	i
---	-------------------------------	---------------	------------	---

	n_2 [min ⁻¹]	M_2 [Nm]	P1 [kW]	i
---	-------------------------------	---------------	------------	---

CMGIS 012

367	60	2.4	3.82
302	60	2.0	4.63
246	60	1.6	5.69
181	80	1.6	7.72
153	80	1.3	9.17
143	80	1.2	9.81
118	100	1.3	11.90
101	120	1.3	13.80
95.7	120	1.3	14.62
78.4	120	1.0	17.86
70.6	120	0.9	19.83
59.4	120	0.8	23.56
39.5	120	0.5	35.47
30.5	120	0.4	45.89
26.3	120	0.3	53.33

CMGIS 032

374	150	6.1	3.74
311	150	5.1	4.50
255	150	4.2	5.48
222	180	4.4	6.31
176	180	3.5	7.93
154	180	3.0	9.08
128	180	2.5	10.93
111	250	3.0	12.60
105	250	2.9	13.30
91.5	280	2.8	15.30
76.9	280	2.3	18.21
72.8	280	2.2	19.24
66.2	280	2.0	21.15
45.8	300	1.5	30.57
31.7	300	1.0	44.18
27.3	300	0.9	51.30

CMGIS 013

30.0	120	0.40	46.61
25.3	120	0.34	55.36
22.1	120	0.30	63.22
18.6	120	0.25	75.08
15.7	120	0.21	89.17
12.4	120	0.17	113.05
10.4	120	0.14	134.27
8.1	120	0.11	173.72
6.9	120	0.09	202.16
5.4	120	0.07	261.57
4.6	120	0.06	304.00
3.6	120	0.05	393.33

CMGIS 033

31.0	300	1.0	45.21
22.8	300	0.76	61.32
19.2	300	0.64	72.83
14.4	300	0.48	97.45
12.1	300	0.40	115.74
9.9	300	0.33	140.81
8.0	300	0.27	174.26
6.2	300	0.21	225.47
5.3	300	0.18	262.05
4.3	300	0.14	325.79
3.7	300	0.12	378.64

CMGIS 022

383	100	4.2	3.66
316	100	3.4	4.43
257	100	2.8	5.45
190	120	2.5	7.39
159	120	2.1	8.78
141	120	1.8	9.93
116	200	2.5	12.05
106	200	2.3	13.21
94.6	200	2.1	14.81
81.9	160	1.4	17.10
69.7	200	1.5	20.08
58.7	200	1.3	23.85
39.0	200	0.9	35.91
30.1	200	0.7	46.46
25.9	200	0.6	54.00

CMGIS 042

374	230	9.4	3.74
311	230	7.8	4.50
255	230	6.4	5.48
222	260	6.3	6.31
176	260	5.0	7.93
154	280	4.7	9.08
128	280	3.9	10.93
111	350	4.2	12.60
105	350	4.0	13.30
91.5	420	4.2	15.30
76.9	420	3.5	18.21
72.8	420	3.3	19.24
45.8	500	2.5	30.57
31.7	500	1.7	44.18
27.3	500	1.5	51.30

CMGIS 023

29.7	200	0.66	47.19
25.0	200	0.56	56.05
21.9	200	0.49	64.01
18.4	200	0.41	76.02
15.5	200	0.35	90.29
12.2	200	0.27	114.46
10.3	200	0.23	135.95
8.0	200	0.18	175.89
6.8	200	0.15	204.69
5.3	200	0.12	264.84
4.5	200	0.10	307.80
3.5	200	0.08	398.25

CMGIS 043

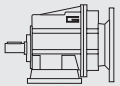

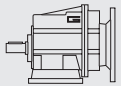

31.0	500	1.7	45.21
22.8	500	1.3	61.32
19.2	500	1.1	72.83
14.4	500	0.80	97.45
12.1	500	0.67	115.74
9.9	500	0.55	140.81
8.0	500	0.45	174.26
6.2	500	0.35	225.47
5.3	500	0.30	262.05
4.3	500	0.24	325.79
3.7	500	0.21	378.64

RIDUTTORI AD INGRANAGGI CILINDRICI HELICAL GEARBOXES

CMG

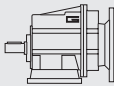

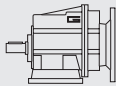

Dati tecnici

Technical data

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i						
0.12							0.18										
63A4 (1400 min ⁻¹)	367	3.0	20.0	3.82	CMG012	B5	63B4 (1400 min ⁻¹)	18.4	88	2.3	76.02	CMG023	B5				
	302	3.6	16.5	4.63			B5		15.5	104	1.9			90.29	B5		
	246	4.5	13.4	5.69			B5		12.2	132	1.5			114.46	B5		
	181	6.1	13.2	7.72			B5		10.3	157	1.3			135.95	B5		
	153	7.2	11.1	9.17			B5		8.0	203	0.99			175.89	B5		
	143	7.7	10.4	9.81			B5		6.8	236	0.85			204.69	B5		
	118	9.4	10.7	11.90			B5								B5		
	101	10.8	11.1	13.80			B5		12.1	134	2.2			115.74	CMG033	B5	
	95.7	11.5	10.4	14.62			B5		9.9	163	1.8			140.81		B5	
	78.4	14.0	8.6	17.86			B5		8.0	201	1.5			174.26		B5	
	70.6	15.6	7.7	19.83	B5		6.2	260	1.2	225.47	B5						
	59.4	18.5	6.5	23.56	B5		5.3	302	0.99	262.05	B5						
	39.5	27.9	4.3	35.47	B5						CMG043	B5					
	30.5	36	3.3	45.89	B5		6.2	260	1.9	225.47		B5					
	26.3	42	2.9	53.33	B5		5.3	302	1.7	262.05		B5					
							4.3	376	1.3	325.79		B5					
	30.0	36	3.3	46.61	CMG013	B5		3.7	437	1.1	378.64		B5				
	25.3	43	2.8	55.36			B5										
	22.1	49	2.5	63.22			B5										
	18.6	58	2.1	75.08			B5										
	15.7	69	1.7	89.17			B5										
	12.4	87	1.4	113.05			B5										
	10.4	103	1.2	134.27			B5										
	8.1	134	0.90	173.72			B5										
	6.9	156	0.77	202.16			B5										
	5.4	201	0.60	261.57			B5										
	4.6	234	0.51	304.00	B5												
	3.6	303	0.40	393.33	B5												
	12.2	88	2.3	114.46	CMG023	B5											
	10.3	105	1.9	135.95			B5										
	8.0	135	1.5	175.89			B5										
	6.8	157	1.3	204.69			B5										
	5.3	204	0.98	264.84			B5										
	4.5	237	0.84	307.80			B5										
	3.5	306	0.65	398.25			B5										
	8.0	134	2.2	174.26			CMG033	B5									
	6.2	173	1.7	225.47					B5								
	5.3	202	1.5	262.05					B5								
	4.3	251	1.2	325.79	B5												
	3.7	291	1.0	378.64	B5												
	5.3	202	2.5	262.05	CMG043	B5											
	4.3	251	2.0	325.79			B5										
	3.7	291	1.7	378.64			B5										
0.18							0.25										
63B4 (1400 min ⁻¹)	367	4.5	13.3	3.82	CMG012	B5	71A4 (1400 min ⁻¹)	367	6.3	9.6	3.82	CMG012	B5/B14				
	302	5.5	11.0	4.63			B5		302	7.6	7.9			4.63	B5/B14		
	246	6.7	8.9	5.69			B5		246	9.3	6.4			5.69	B5/B14		
	181	9.1	8.8	7.72			B5		181	12.6	6.3			7.72	B5/B14		
	153	10.8	7.4	9.17			B5		153	15.0	5.3			9.17	B5/B14		
	143	11.6	6.9	9.81			B5		143	16.1	5.0			9.81	B5/B14		
	118	14.0	7.1	11.90			B5		118	19.5	5.1			11.90	B5/B14		
	101	16.3	7.4	13.80			B5		101	22.6	5.3			13.80	B5/B14		
	95.7	17.2	7.0	14.62			B5		95.7	23.9	5.0			14.62	B5/B14		
	78.4	21.0	5.7	17.86			B5		78.4	29.2	4.1			17.86	B5/B14		
	70.6	23.4	5.1	19.83	B5		70.6	32	3.7	19.83	B5/B14						
	59.4	27.8	4.3	23.56	B5		59.4	39	3.1	23.56	B5/B14						
	39.5	42	2.9	35.47	B5		39.5	58	2.1	35.47	B5/B14						
	30.5	54	2.2	45.89	B5		30.5	75	1.6	45.89	B5/B14						
	26.3	63	1.9	53.33	B5		26.3	87	1.4	53.33	B5/B14						
	30.0	54	2.2	46.61	CMG013	B5		30.0	75	1.6	46.61	CMG013	B5/B14				
	25.3	64	1.9	55.36			B5		25.3	89	1.4			55.36	B5/B14		
	22.1	73	1.6	63.22			B5		22.1	101	1.2			63.22	B5/B14		
	18.6	87	1.4	75.08			B5		18.6	120	1.0			75.08	B5/B14		
	15.7	103	1.2	89.17			B5		15.7	143	0.84			89.17	B5/B14		
	12.4	130	0.92	113.05			B5										
									39.0	59	3.4			35.91	CMG022	B5/B14	
									30.1	76	2.6			46.46			B5/B14
									25.9	88	2.3			54.00			B5/B14
									25.9	88	2.3			54.00			B5/B14
							29.7	76	2.6	47.19	CMG023	B5/B14					
							25.0	90	2.2	56.05			B5/B14				
							21.9	103	1.9	64.01			B5/B14				
							18.4	122	1.6	76.02			B5/B14				
							15.5	145	1.4	90.29			B5/B14				
							12.2	183	1.1	114.46			B5/B14				
							10.3	218	0.92	135.95			B5/B14				
							19.2	117	2.6	72.83			CMG033	B5/B14			
							14.4	156	1.9	97.45					B5/B14		
							12.1	186	1.6	115.74					B5/B14		
							9.9	226	1.3	140.81	B5/B14						
							8.0	279	1.1	174.26	B5/B14						
							6.2	361	0.83	225.47	B5/B14						
							9.9	226	2.2	140.81	CMG043	B5/B14					
							8.0	279	1.8	174.26			B5/B14				
							6.2	361	1.4	225.47			B5/B14				
							5.3	420	1.2	262.05			B5/B14				
							4.3	522	0.96	325.79			B5/B14				
							3.7	607	0.82	378.64			B5/B14				

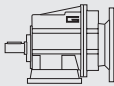

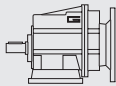

Dati tecnici

Technical data

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i																				
0.37							0.55																								
71B4 (1400 min ⁻¹)	367	9.3	6.5	3.82	CMG012	B5/B14	80A4 (1400 min ⁻¹)	29.7	166	1.2	47.19	CMG023	B5/B14																		
	302	11.2	5.3	4.63		B5/B14		25.0	198	1.0	56.05		B5/B14																		
	246	13.8	4.4	5.69		B5/B14		21.9	226	0.89	64.01		B5/B14																		
	181	18.7	4.3	7.72		B5/B14		45.8	110	2.7	30.57		CMG032	B5/B14																	
	153	22.2	3.6	9.17		B5/B14																									
	143	23.8	3.4	9.81		B5/B14																									
	118	28.8	3.5	11.90		B5/B14																									
	101	33	3.6	13.80		B5/B14																									
	95.7	35	3.4	14.62		B5/B14																									
	78.4	43	2.8	17.86		B5/B14		31.0	159	1.9	45.21		CMG033	B5/B14																	
	70.6	48	2.5	19.83		B5/B14																									
	59.4	57	2.1	23.56		B5/B14																									
	39.5	86	1.4	35.47	B5/B14																										
	30.5	111	1.1	45.89	B5/B14																										
	26.3	129	0.93	53.33	B5/B14																										
	30.0	111	1.1	46.61	CMG013	B5/B14	22.8	216	2.3	61.32	CMG043	B5/B14																			
		25.3	131	0.91		55.36						B5/B14																			
		22.1	150	0.80		63.22						B5/B14																			
		81.9	41	3.9	17.10	CMG022						B5/B14	19.2	257	1.9	72.83	CMG043	B5/B14													
			58.7	58	3.5							23.85						B5/B14													
			39.0	87	2.3							35.91						B5/B14													
	30.1		113	1.8	46.46						B5/B14																				
	25.9		131	1.5	54.00						B5/B14																				
	29.7		112	1.8	47.19						CMG023	B5/B14						14.4	344	0.87	97.45	CMG043	B5/B14								
		25.0	133	1.5	56.05	B5/B14																									
		21.9	152	1.3	64.01	B5/B14																									
		18.4	180	1.1	76.02	B5/B14																									
		15.5	214	0.93	90.29	B5/B14																									
		31.7	107	2.8	44.18	CMG032	B5																								
	27.3		124	2.4	51.30		B5																								
	22.8	145	2.1	61.32	CMG033	B5/B14	8.0	615	0.81	174.26	CMG043	B5/B14																			
		19.2	173	1.7		72.83						B5/B14																			
		14.4	231	1.3		97.45						B5/B14																			
12.1		275	1.1	115.74		B5/B14																									
9.9		334	0.90	140.81		B5/B14																									
12.1		275	1.8	115.74		CMG043						B5/B14																			
		9.9	334	1.5	140.81						B5/B14																				
		8.0	413	1.2	174.26						B5/B14																				
		6.2	535	0.93	225.47						B5/B14																				
		0.55									0.75																				
		80A4 (1400 min ⁻¹)	367	13.8	4.4						3.82	CMG012	B5/B14	80B4 (1400 min ⁻¹)	367	18.8	3.2	3.82	CMG012	B5/B14											
302			16.7	3.6	4.63	B5/B14					302		22.7		2.6	4.63	B5/B14														
246	20.5		2.9	5.69	B5/B14	246	27.9	2.1	5.69	B5/B14																					
181	27.8		2.9	7.72	B5/B14	181	38	2.1	7.72	B5/B14																					
153	33		2.4	9.17	B5/B14	153	45	1.8	9.17	B5/B14																					
143	35		2.3	9.81	B5/B14	143	48	1.7	9.81	B5/B14																					
118	43		2.3	11.90	B5/B14	118	58	1.7	11.90	B5/B14																					
101	50		2.4	13.80	B5/B14	101	68	1.8	13.80	B5/B14																					
95.7	53		2.3	14.62	B5/B14	95.7	72	1.7	14.62	B5/B14																					
78.4	64		1.9	17.86	B5/B14	78.4	88	1.4	17.86	B5/B14																					
70.6	71		1.7	19.83	B5/B14	70.6	97	1.2	19.83	B5/B14																					
59.4	85		1.4	23.56	B5/B14	59.4	116	1.0	23.56	B5/B14																					
39.5	128		0.94	35.47	B5/B14	116	59	3.4	12.05	CMG022	B5/B14																				
81.9	62		2.6	17.10	CMG022						B5/B14	106	65		3.1	13.21	CMG022	B5/B14													
	69.7		72	2.8							20.08							B5/B14													
	58.7		86	2.3							23.85							B5/B14													
	39.0		129	1.5							35.91							B5/B14													
	30.1		167	1.2							46.46							B5/B14													
	25.9		194	1.0							54.00							B5/B14													
31.0	217		1.4	45.21	CMG033						B5/B14						94.6	73	2.8	14.81	CMG022	B5/B14									
	22.8		295	1.0							61.32											B5/B14									
	22.8		295	1.7							61.32											CMG043	B5/B14	81.9	84	1.9	17.10	CMG043	B5/B14		
			19.2	350							1.4												72.83						B5/B14		
			14.4	469							1.1												97.45						B5/B14		
			12.1	557		0.90	115.74	B5/B14																							
			66.2	104		2.7	21.15	CMG032	B5/B14	69.7	99	2.0	20.08		CMG032	B5/B14															
				45.8		150	2.0		30.57							B5/B14															
	31.7			217		1.4	44.18		B5/B14																						
	27.3			252		1.2	51.30		B5/B14																						
	31.0			217		1.4	45.21		CMG033							B5/B14						58.7	117					1.7	23.85	CMG032	B5/B14
				22.8		295	1.0									61.32															B5/B14
22.8			295	1.7	61.32	CMG043	B5/B14	39.0							176	1.1	35.91	CMG043	B5/B14												
			19.2	350	1.4		72.83												B5/B14												
		14.4	469	1.1	97.45		B5/B14																								
		12.1	557	0.90	115.74		B5/B14																								
	66.2	104	2.7	21.15	CMG032		B5/B14		30.1					228					0.88	46.46	CMG032			B5/B14							
		45.8	150	2.0			30.57																	B5/B14							
31.7		217	1.4	44.18		B5/B14																									
27.3		252	1.2	51.30		B5/B14																									
31.0		217	1.4	45.21		CMG033	B5/B14			66.2	104	2.7	21.15					CMG032						B5/B14							
		22.8	295	1.0			61.32																	B5/B14							
	22.8	295	1.7	61.32	CMG043		B5/B14														45.8	150	2.0	30.57	CMG032	B5/B14					
		19.2	350	1.4			72.83																			B5/B14					
		14.4	469	1.1			97.45	B5/B14																							
		12.1	557	0.90			115.74	B5/B14																							
0.92							0.92																								
80C4 (1400 min ⁻¹)		367	23.0	2.6		3.82	CMG012	B5/B14							80C4 (1400 min ⁻¹)	367	23.0	2.6								3.82	CMG012	B5/B14			
	302	27.9	2.2	4.63	B5/B14	302		27.9	2.2					4.63		B5/B14															
	246	34	1.8	5.69	B5/B14	246		34	1.8					5.69		B5/B14															
	181	46	1.7	7.72	B5/B14	181		46	1.7					7.72		B5/B14															
	153	55	1.4	9.17	B5/B14	153		55	1.4					9.17		B5/B14															
	143	59	1.4	9.81	B5/B14	143		59	1.4	9.81	B5/B14																				
	118	72	1.4	11.90	B5/B14	118		72	1.4	11.90	B5/B14																				
	101	83	1.4	13.80	B5/B14	101		83	1.4	13.80	B5/B14																				
	95.7	88	1.4	14.62	B5/B14	95.7		88	1.4	14.62	B5/B14																				
	78.4	108	1.1	17.86	B5/B14	78.4		108	1.1	17.86	B5/B14																				
	70.6	119	1.0	19.83	B5/B14	70.6		119	1.0	19.83	B5/B14																				

Dati tecnici

Technical data

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i				
0.92															
80C4 (1400 min ⁻¹)	116	73	2.8	12.05	CMG022	B5/B14	90L4 (1400 min ⁻¹)	367	38	1.6	3.82	CMG012	B5/B14		
	106	80	2.5	13.21				302	45	1.3	4.63				
	94.6	89	2.2	14.81				246	56	1.1	5.69			CMG022	B5/B14
	106	80	2.5	13.21				181	76	1.1	7.72				
	94.6	89	2.2	14.81				383	36	2.8	3.66				
	81.9	103	1.6	17.10				316	44	2.3	4.43				
	69.7	121	1.7	20.08				257	54	1.9	5.45				
	58.7	144	1.4	23.85				189	73	1.7	7.39				
	39.0	216	0.92	35.91				160	86	1.4	8.78				
	76.9	110	2.6	18.21				141	98	1.2	9.93				
	72.8	116	2.4	19.24	116	118		1.7	12.05						
	66.2	127	2.2	21.15	106	130		1.5	13.21						
	45.8	184	1.6	30.57	94.6	145		1.4	14.81						
	31.7	266	1.1	44.18	69.7	197		1.0	20.08						
	31.0	267	1.1	45.21	111	124		2.0	12.60						
	22.8	362	1.4	61.32	105	131		1.9	13.30						
	19.2	430	1.2	72.83	91.5	150		1.9	15.30						
	14.4	575	0.87	97.45	76.9	179		1.6	18.21						
					72.8	189		1.5	19.24						
					66.2	208		1.3	21.15						
				45.8	300	1.0	30.57								
1.1															
90S4 (1400 min ⁻¹)	367	27.5	2.2	3.82	CMG012	B5/B14	76.9	179	2.3	18.21	CMG042	B5/B14			
	302	33	1.8	4.63			72.8	189	2.2	19.24					
	246	41	1.5	5.69			45.8	300	1.7	30.57					
	181	56	1.4	7.72			31.7	434	1.2	44.18					
	153	66	1.2	9.17			27.3	504	0.99	51.30					
	143	71	1.1	9.81			31.0	435	1.1	45.21					
	118	86	1.2	11.90			22.8	590	0.85	61.32					
	101	99	1.2	13.80											
	95.7	105	1.1	14.62											
	383	26.3	3.8	3.66			CMG022	B5/B14	367	46			1.3	3.82	CMG012
	316	32	3.1	4.43	302	56			1.1	4.63					
	257	39	2.5	5.45	383	44			2.3	3.66					
	189	53	2.3	7.39	316	54			1.9	4.43					
	160	63	1.9	8.78	257	66			1.5	5.45					
	141	72	1.7	9.93	189	90			1.3	7.39					
	116	87	2.3	12.05	160	106			1.1	8.78					
	106	95	2.1	13.21	141	120			1.0	9.93					
	94.6	107	1.9	14.81	116	146			1.4	12.05					
	69.7	145	1.4	20.08	106	160			1.2	13.21					
	58.7	172	1.2	23.85	94.6	179	1.1	14.81							
76.9	131	2.1	18.21	154	110	1.6	9.08								
72.8	139	2.0	19.24	128	132	1.4	10.93								
66.2	152	1.8	21.15	111	153	1.6	12.60								
45.8	220	1.4	30.57	105	161	1.6	13.30								
31.7	318	0.94	44.18	91.5	185	1.5	15.30								
31.0	319	0.94	45.21	76.9	221	1.3	18.21								
31.7	318	1.6	44.18	72.8	233	1.2	19.24								
27.3	370	1.4	51.30	66.2	256	1.1	21.15								
31.0	319	1.6	45.21	45.8	370	0.81	30.57								
22.8	433	1.2	61.32	76.9	221	1.9	18.21								
19.2	514	0.97	72.83	72.8	233	1.8	19.24								
				45.8	370	1.3	30.57								
				31.7	535	0.93	44.18								
				27.3	621	0.80	51.30								
				31.0	536	0.93	45.21								

Dati tecnici

Technical data

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		
---------------	-------------------------------	---------------	----	---	---	---

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		
---------------	-------------------------------	---------------	----	---	---	---

2.2

100LA4 (1400 min ⁻¹)	374	54	2.8	3.74	CMG032	B5/B14	
	311	65	2.3	4.50		B5/B14	
	255	79	1.9	5.48		B5/B14	
	222	91	2.0	6.31		B5/B14	
	177	114	1.6	7.93		B5/B14	
	154	131	1.4	9.08		B5/B14	
	128	157	1.1	10.93		B5/B14	
	111	182	1.4	12.60		B5/B14	
	105	192	1.3	13.30		B5/B14	
	91.5	220	1.3	15.30		B5/B14	
	76.9	262	1.1	18.21		B5/B14	
	72.8	277	1.0	19.24		B5/B14	
	66.2	305	0.92	21.15		B5/B14	
	105	192	1.8	13.30		CMG042	B5/B14
	91.5	220	1.9	15.30			B5/B14
	76.9	262	1.6	18.21			B5/B14
	72.8	277	1.5	19.24			B5/B14
45.8	440	1.1	30.57	B5/B14			

4.0

112M4 (1400 min ⁻¹)	374	98	1.5	3.74	CMG032	B5/B14	
	311	118	1.3	4.50		B5/B14	
	255	144	1.0	5.48		B5/B14	
	222	165	1.1	6.31		B5/B14	
	177	208	0.87	7.93		B5/B14	
	374	98	2.3	3.74		CMG042	B5/B14
	311	118	1.9	4.50			B5/B14
	255	144	1.6	5.48			B5/B14
	222	165	1.6	6.31			B5/B14
	177	208	1.3	7.93			B5/B14
	154	238	1.2	9.08			B5/B14
	128	286	0.98	10.93			B5/B14
	111	330	1.1	12.60			B5/B14
	105	348	1.0	13.30			B5/B14
	91.5	401	1.0	15.30			B5/B14
	76.9	477	0.88	18.21		B5/B14	
	72.8	504	0.83	19.24		B5/B14	

3.0

100LB4 (1400 min ⁻¹)	374	74	2.0	3.74	CMG032	B5/B14	
	311	88	1.7	4.50		B5/B14	
	255	108	1.4	5.48		B5/B14	
	222	124	1.5	6.31		B5/B14	
	177	156	1.2	7.93		B5/B14	
	154	178	1.0	9.08		B5/B14	
	128	215	0.84	10.93		B5/B14	
	111	248	1.0	12.60		B5/B14	
	105	261	0.96	13.30		B5/B14	
	91.5	301	0.93	15.30		B5/B14	
	374	74	3.1	3.74		CMG042	B5/B14
	311	88	2.6	4.50			B5/B14
	255	108	2.1	5.48			B5/B14
	222	124	2.1	6.31			B5/B14
	177	156	1.7	7.93			B5/B14
	154	178	1.6	9.08			B5/B14
	128	215	1.3	10.93			B5/B14
111	248	1.4	12.60	B5/B14			
105	261	1.3	13.30	B5/B14			
91.5	301	1.4	15.30	B5/B14			
76.9	358	1.2	18.21	B5/B14			
72.8	378	1.1	19.24	B5/B14			
45.8	601	0.83	30.57	B5/B14			

4.8

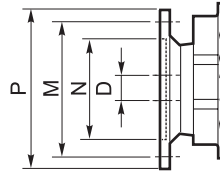
112MS4 (1400 min ⁻¹)	374	118	2.0	3.74	CMG042	B5/B14
	311	142	1.6	4.50		B5/B14
	255	172	1.3	5.48		B5/B14
	222	198	1.3	6.31		B5/B14
	177	249	1.0	7.93		B5/B14
	154	285	0.98	9.08		B5/B14
	128	343	0.82	10.93		B5/B14
	111	396	0.88	12.60		B5/B14

RIDUTTORI AD INGRANAGGI CILINDRICI HELICAL GEARBOXES

CMG

Motori applicabili

IEC Motor adapters



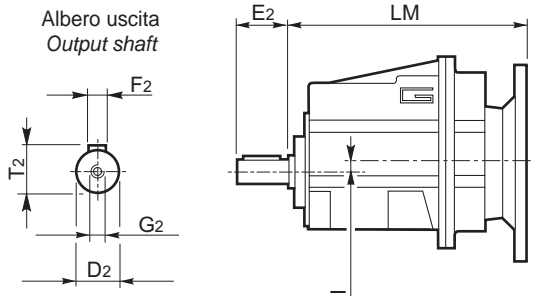
	IEC	N	M	P	D	i (rapporto / ratio)															
						3.82	4.63	5.69	7.72	9.17	9.81	11.90	13.80	14.62	17.86	19.83	23.56	35.47	45.89	53.33	
CMG012	90 B5	130	165	200	24																
	90 B14	95	115	140																	
	80 B5	130	165	200	19																
	80 B14	80	100	120																	
	71 B5	110	130	160	14	B															
	71 B14	70	85	105																	
	63 B5	95	115	140	11	BS															
						46.61	55.36	63.22	75.08	89.17	113.05	134.27	173.72	202.16	261.57	304.00	393.33				
CMG013	90 B5	130	165	200	24																
	90 B14	95	115	140																	
	80 B5	130	165	200	19																
	80 B14	80	100	120																	
	71 B5	110	130	160	14	B															
	71 B14	70	85	105																	
	63 B5	95	115	140	11	BS															
						3.66	4.43	5.45	7.39	8.78	9.93	12.05	13.21	14.81	17.10	20.08	23.85	35.91	46.46	54.00	
CMG022	90 B5	130	165	200	24																
	90 B14	95	115	140																	
	80 B5	130	165	200	19																
	80 B14	80	100	120																	
	71 B5	110	130	160	14	B															
	71 B14	70	85	105																	
	63 B5	95	115	140	11	BS															
						47.19	54.05	64.01	76.02	90.29	114.46	135.95	175.89	204.69	264.84	307.80	398.25				
CMG023	90 B5	130	165	200	24																
	90 B14	95	115	140																	
	80 B5	130	165	200	19																
	80 B14	80	100	120																	
	71 B5	110	130	160	14	B															
	71 B14	70	85	105																	
	63 B5	95	115	140	11	BS															
						3.74	4.50	5.48	6.31	7.93	9.08	10.93	12.60	13.30	15.30	18.21	19.24	21.15	30.57	44.18	51.30
CMG032	100/112B5	180	215	250	28																
	100/112B14	110	130	160																	
	90 B5	130	165	200	24																
	90 B14	95	115	140																	
	80 B5	130	165	200	19	B															
	80 B14	80	100	120																	
	71 B5	110	130	160	14	BS															
						3.74	4.50	5.48	6.31	7.93	9.08	10.93	12.60	13.30	15.30	18.21	19.24	30.57	44.18	51.30	
CMG042	100/112B5	180	215	250	28																
	100/112B14	110	130	160																	
	90 B5	130	165	200	24																
	90 B14	95	115	140																	
	80 B5	130	165	200	19	B															
	80 B14	80	100	120																	
	71 B5	110	130	160	14	BS															
						45.21	61.32	72.83	97.45	115.74	140.81	174.26	225.47	262.05	325.79	378.64					
CMG033 CMG043	90 B5	130	165	200	24																
	90 B14	95	115	140																	
	80 B5	130	165	200	19																
	80 B14	80	100	120																	
	71 B5	110	130	160	14	B															
	71 B14	70	85	105																	
	63 B5	95	115	140	11	BS															

CMG CMGIS	A	B	I	j	LM	LR	Albero entrata / Input shaft					Albero uscita / Output shaft					Peso / Weight [kg]	
							D ₁ h6	E ₁	F ₁	G ₁	T ₁	D ₂ h6	E ₂	F ₂	G ₂	T ₂	CMG	CMGIS
012	124	93	6.5	62	195	187	16	40	5	M6	18	20 (16) (25)	40 (40) (50)	6 (5) (8)	M6 (M6) (M8)	22.5 (18) (28)	5.3	5.0
013		112	43		268	260											7.8	7.5
022	124	98	11.5	57	205	197	16	40	5	M6	18	25	50	8	M8	28	6.2	5.9
023		117	48		278	270											8.7	8.4
032	156	118	5	92	237	229.5	19	40	6	M6	21.5	30	60	8	M10	33	11.3	11.2
033			41.5		303	295											16	5
042	156	128	15	82	250	242.5	19	40	6	M6	21.5	35	70	10	M12	38	13.2	13.1
043			51.5		316	308											16	5

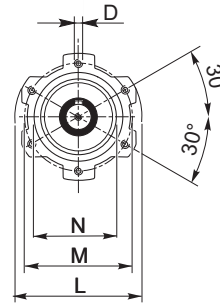
Versione U / U Version						
CMG CMGIS	H	K	L	M	N f7	O
012 013	8.5	13.5	95	76	60	n°4 M8x15
022 023	8.5	13.5	95	76	60	n°4 M8x15
032 033	9	15	127	110	90	n°6 M8x19
042 043	9	15	127	110	90	n°6 M8x19

CMG..U

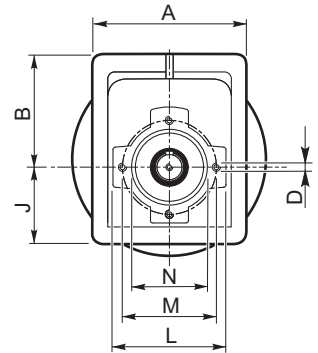
CMG..2 U



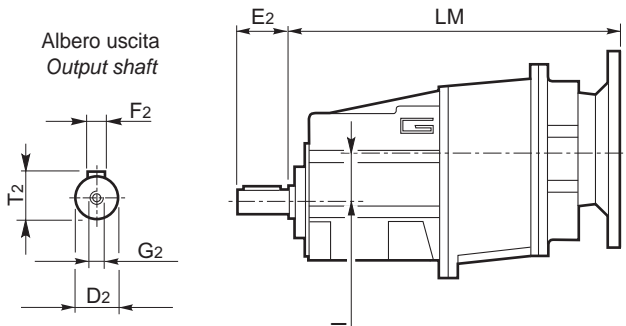
032-042



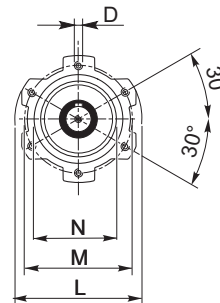
012-022



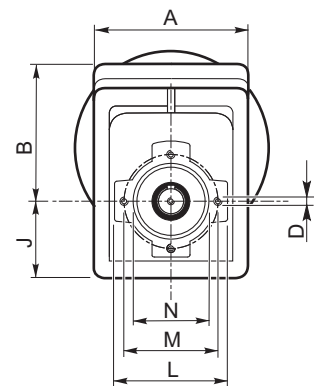
CMG..3 U



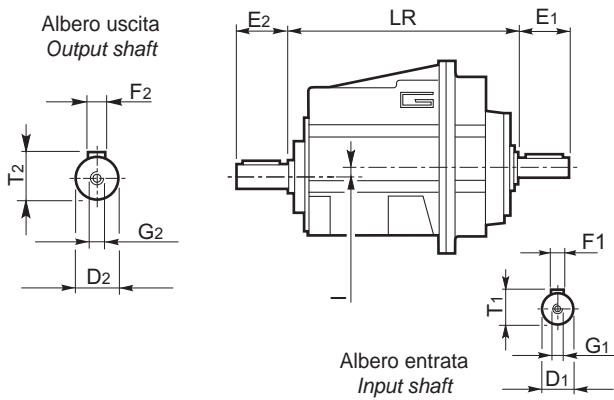
033-043



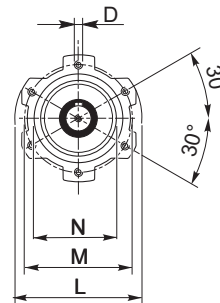
013-023



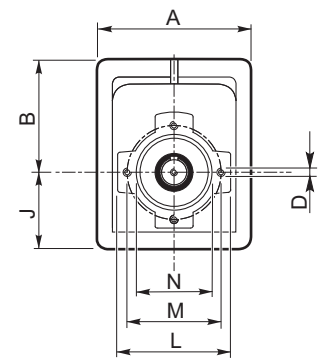
CMGIS..2 U



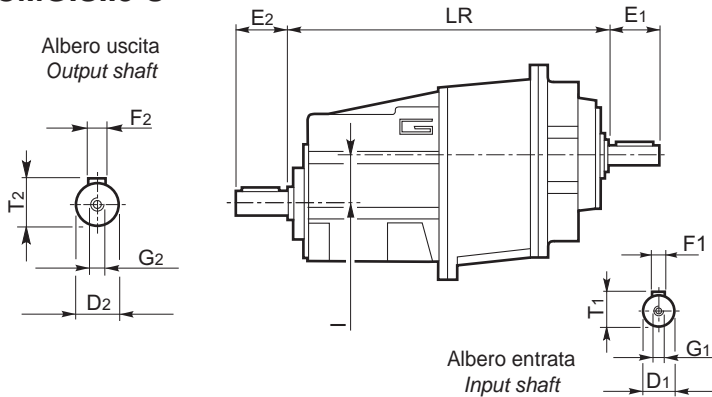
032-042



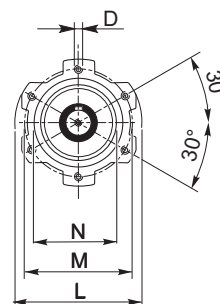
012-022



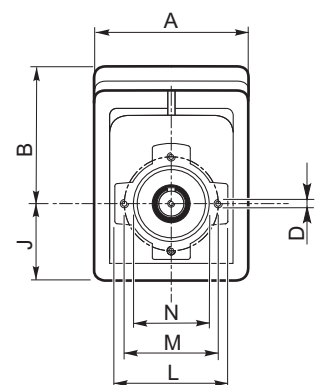
CMGIS..3 U



033-043



013-023



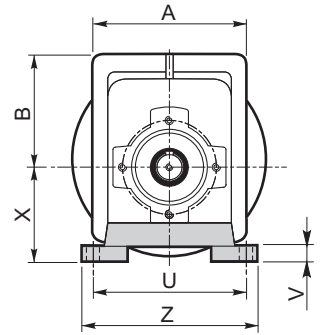
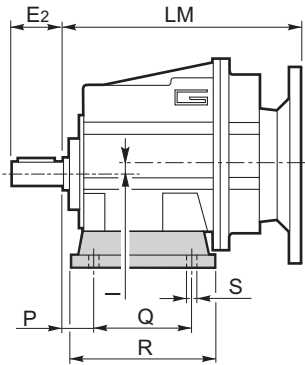
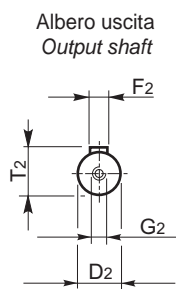
CMG CMGIS	A	B	I	LM	LR	Albero entrata / Input shaft					Albero uscita / Output shaft					Peso / Weight* [kg]	
						D ₁ h6	E ₁	F ₁	G ₁	T ₁	D ₂ h6	E ₂	F ₂	G ₂	T ₂	CMG	CMGIS
012	124	93	6.5	195	187	16	40	5	M6	18	20 (16) (25)	40 (40) (50)	6 (5) (8)	M6 (M6) (M8)	22.5 (18) (28)	5.3	5.0
013		112	43	268	260											7.8	7.5
022	124	98	11.5	205	197	16	40	5	M6	18	25	50	8	M8	28	6.2	5.9
023		117	48	278	270											8.7	8.4
032	156	118	5	237	229.5	19	40	6	M6	21.5	30	60	8	M10	33	11.3	11.2
033			41.5	303	295	16		5		18						13.6	13.3
042	156	128	15	250	242.5	19	40	6	M6	21.5	35	70	10	M12	38	13.2	13.1
043			51.5	316	308	16		5		18						15.5	15.2

* Versione U / U Version

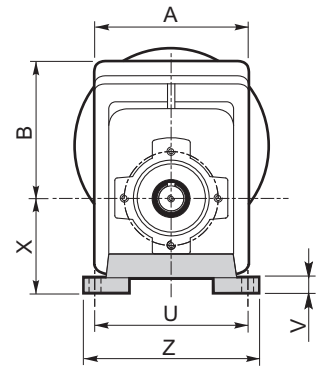
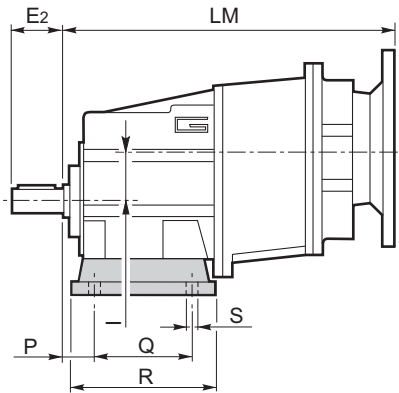
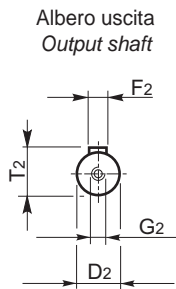
Versione H / H Version										
CMG CMGIS	P	Q	R	S	U	V	X	Z	Piede / Foot	
									Tipo / Type	Peso / Weight [kg]
012 013	18	80	118	9	110	12	75	140	H75	1.0
	18	50 - 87	118	9	110	12	85	130	H85	1.2
	25	130	154	9	110	12	90	135	H90	1.5
	25	85	120	9	120	12	80	140	H80	1.1
	18	47.5 - 60	135	11	130	12	100	155	H100	1.7
022 023	18	80	118	9	110	12	75	140	H75	1.0
	18	50 - 87	118	9	110	12	85	130	H85	1.2
	25	130	154	9	110	12	90	135	H90	1.5
	25	85	120	9	120	12	80	140	H80	1.1
	18	47.5 - 60	135	11	130	12	100	155	H100	1.7
032 033	30	165	195	14	135	14	115	170	H115	2.2
	30	100	150	11	150	14	110	185	H110	1.9
	18	70			160					
	35	110	160	14	170	14	120	210	H120	2.6
042 043	30	165	195	14	135	14	115	170	H115	2.2
	30	100	150	11	150	14	110	185	H110	1.9
	18	70			160					
	35	110	160	14	170	14	120	210	H120	2.6

CMG..H

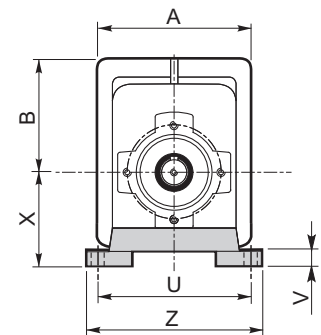
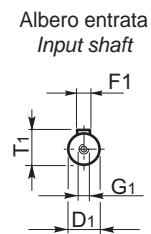
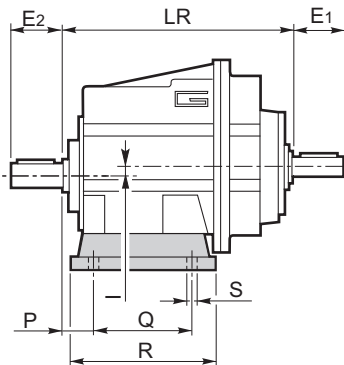
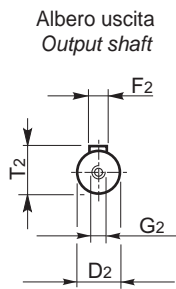
CMG..2 H..



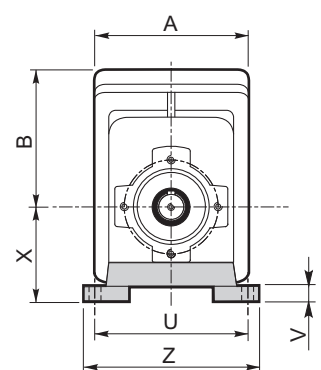
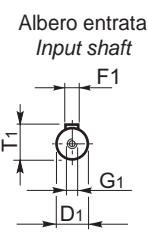
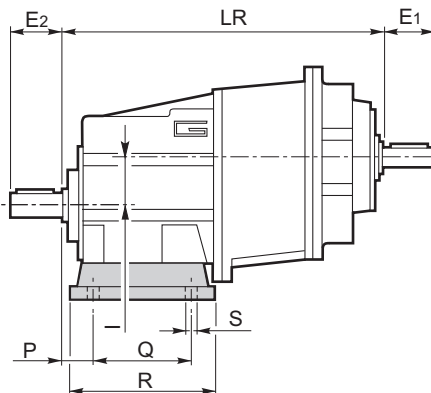
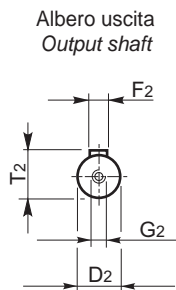
CMG..3 H..



CMGIS..2 H..



CMGIS..3 H..



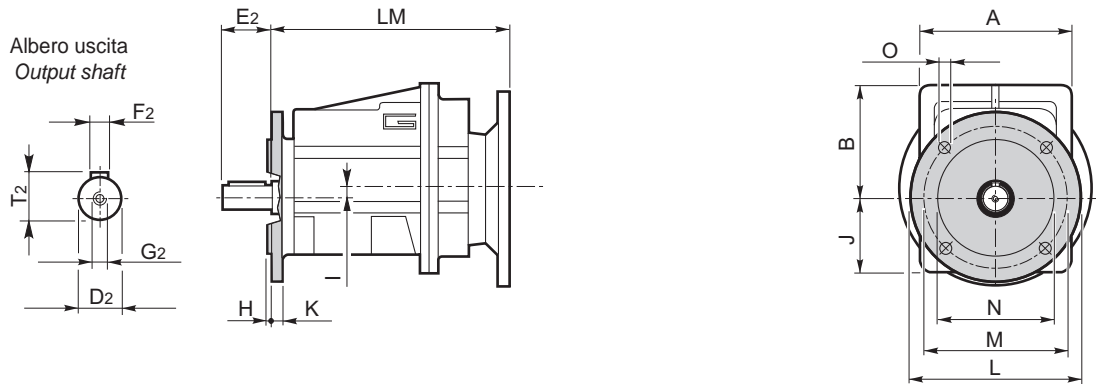
CMG CMGIS	A	B	I	j	LM	LR	Albero entrata / Input shaft					Albero uscita / Output shaft					Peso / Weight* [kg]	
							D ₁ h6	E ₁	F ₁	G ₁	T ₁	D ₂ h6	E ₂	F ₂	G ₂	T ₂	CMG	CMGIS
012	124	93	6.5	62	195	187	16	40	5	M6	18	20 (16) (25)	40 (40) (50)	6 (5) (8)	M6 (M6) (M8)	22.5 (18) (28)	5.3	5.0
013		112	43		268	260											7.8	7.5
022	124	98	11.5	57	205	197	16	40	5	M6	18	25	50	8	M8	28	6.2	5.9
023		117	48		278	270											8.7	8.4
032	156	118	5	92	237	229.5	19	40	6	M6	21.5	30	60	8	M10	33	11.3	11.2
033			41.5		303	295											16	5
042	156	128	15	82	250	242.5	19	40	6	M6	21.5	35	70	10	M12	38	13.2	13.1
043			51.5		316	308											16	5

* Versione U / U Version

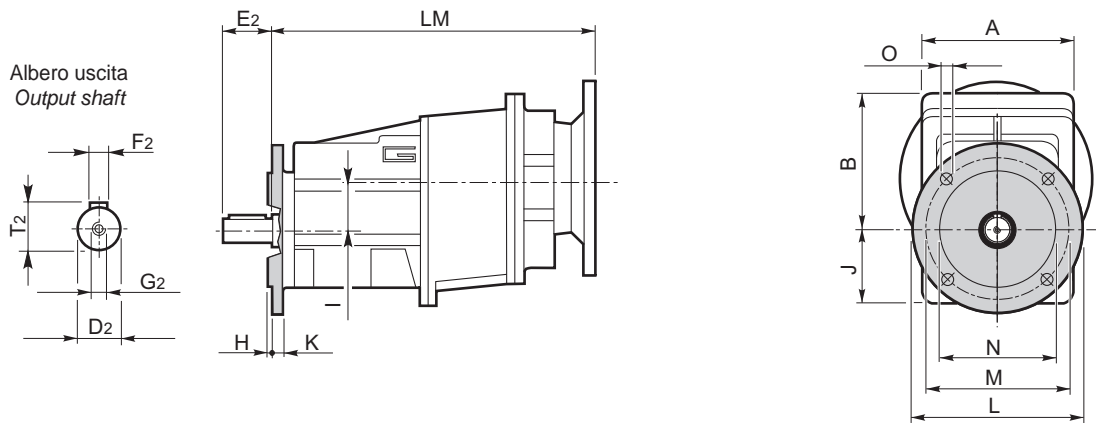
Versione F / F Version								
CMG CMGIS	H	K	L	M	N f7	O	Flangia / Flange	
							Tipo / Type	Peso / Weight [kg]
012 013	3	9	120	100	80	9	F120	0.5
	3.5	9	140	115	95	9	F140	0.8
	3.5	9	160	130	110	9	F160	1.1
022 023	3	9	120	100	80	9	F120	0.5
	3.5	9	140	115	95	9	F140	0.8
	3.5	9	160	130	110	9	F160	1.1
032 033	3.5	11	160	130	110	9	F160	1.0
	3.5	11	200	165	130	11	F200	1.8
042 043	3.5	11	160	130	110	9	F160	1.0
	3.5	11	200	165	130	11	F200	1.8

CMG..F

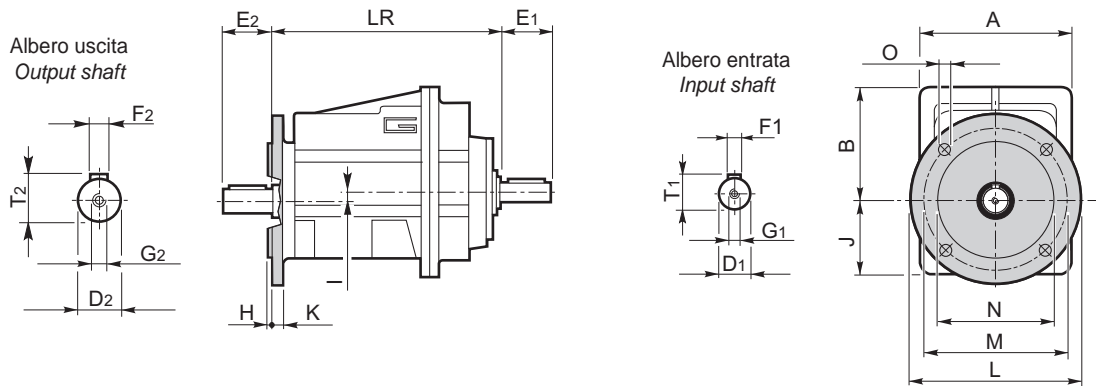
CMG..2 F..



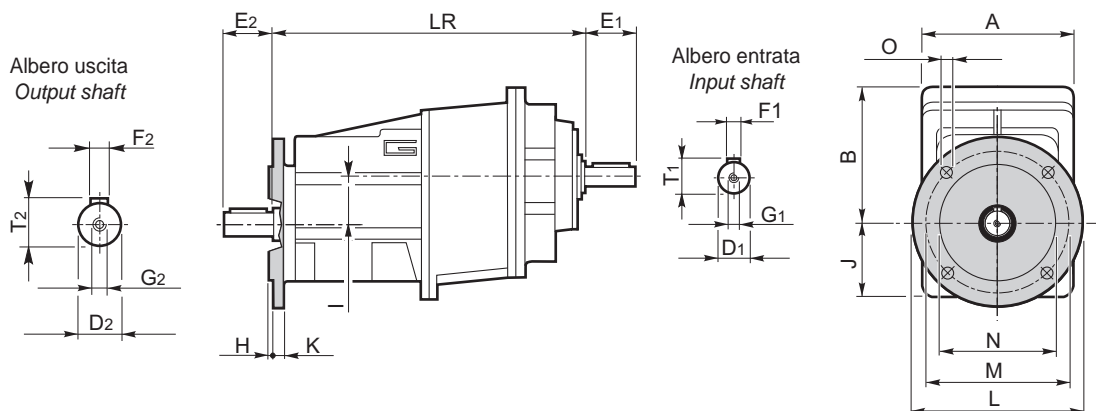
CMG..3 F..



CMGIS..2 F..



CMGIS..3 F..



CMG CMGIS	A	B	I	LM	LR	Albero entrata / Input shaft					Albero uscita / Output shaft					Peso / Weight* [kg]	
						D ₁ h6	E ₁	F ₁	G ₁	T ₁	D ₂ h6	E ₂	F ₂	G ₂	T ₂	CMG	CMGIS
012	124	93	6.5	195	187	16	40	5	M6	18	20 (16)	40 (40)	6 (5)	M6 (M6)	22.5 (18)	5.3	5.0
013		112	43	268	260												
022	124	98	11.5	205	197	16	40	5	M6	18	25	50	8	M8	28	6.2	5.9
023		117	48	278	270											8.7	8.4
032	156	118	5	237	229.5	19	40	6	M6	21.5	30	60	8	M10	33	11.3	11.2
033			41.5	303	295	16		5		18						13.6	13.3
042	156	128	15	250	242.5	19	40	6	M6	21.5	35	70	10	M12	38	13.2	13.1
043			51.5	316	308	16		5		18						15.5	15.2

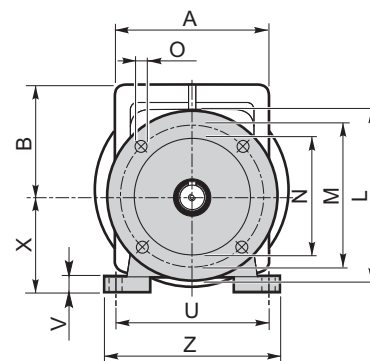
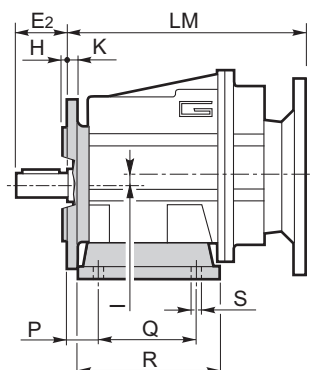
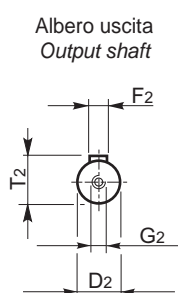
* Versione U / U Version

Versione H / H Version										
CMG CMGIS	P	Q	R	S	U	V	X	Z	Piede / Foot	
									Tipo / Type	Peso / Weight [kg]
012 013	18	80	118	9	110	12	75	140	H75	1.0
	18	50 - 87	118	9	110	12	85	130	H85	1.2
	25	130	154	9	110	12	90	135	H90	1.5
	25	85	120	9	120	12	80	140	H80	1.1
	18	47.5 - 60	135	11	130	12	100	155	H100	1.7
022 023	18	80	118	9	110	12	75	140	H75	1.0
	18	50 - 87	118	9	110	12	85	130	H85	1.2
	25	130	154	9	110	12	90	135	H90	1.5
	25	85	120	9	120	12	80	140	H80	1.1
	18	47.5 - 60	135	11	130	12	100	155	H100	1.7
032 033	30	165	195	14	135	14	115	170	H115	2.2
	30	100	150	11	150	14	110	185	H110	1.9
	18	70			160					
	35	110	160	14	170	14	120	210	H120	2.6
042 043	30	165	195	14	135	14	115	170	H115	2.2
	30	100	150	11	150	14	110	185	H110	1.9
	18	70			160					
	35	110	160	14	170	14	120	210	H120	2.6

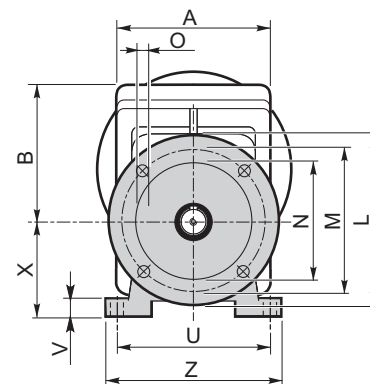
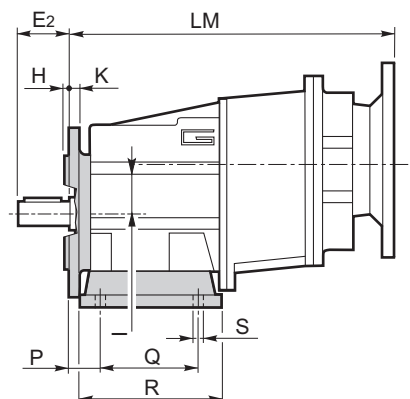
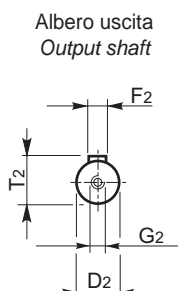
Versione F / F Version									
CMG CMGIS	H	K	L	M	N f7	O	Flangia / Flange		
							Tipo / Type	Peso / Weight [kg]	
012 013	3	9	120	100	80	9	F120	0.5	
	3.5	9	140	115	95	9	F140	0.8	
	3.5	9	160	130	110	9	F160	1.1	
022 023	3	9	120	100	80	9	F120	0.5	
	3.5	9	140	115	95	9	F140	0.8	
	3.5	9	160	130	110	9	F160	1.1	
032 033	3.5	11	160	130	110	9	F160	1.0	
	3.5	11	200	165	130	11	F200	1.8	
042 043	3.5	11	160	130	110	9	F160	1.0	
	3.5	11	200	165	130	11	F200	1.8	

CMG..H../F..

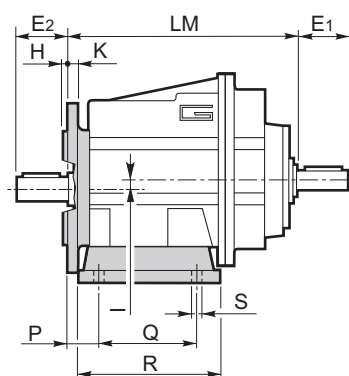
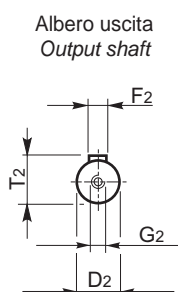
CMG..2 H../F..



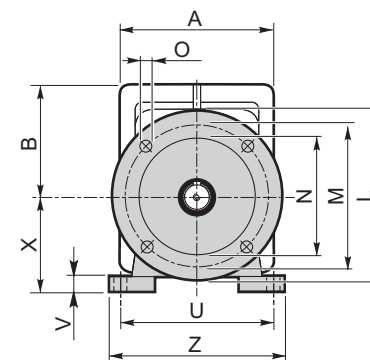
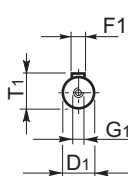
CMG..3 H../F..



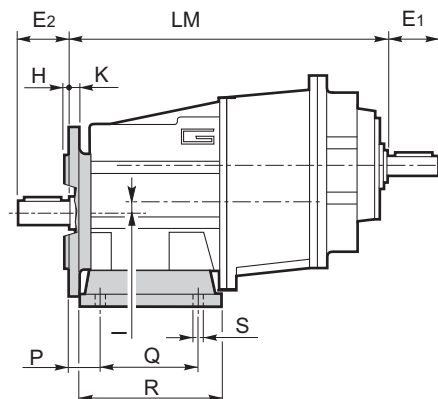
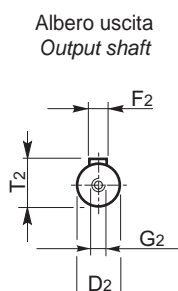
CMGIS..2 H../F..



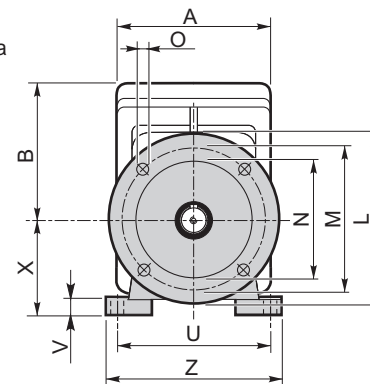
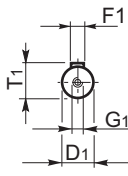
Albero entrata
Input shaft



CMGIS..3 H../F..



Albero entrata
Input shaft





TRANSTECNO™

THE MODULAR GEARMOTOR

HEADQUARTER



TRANSTECNO SRL
Via Caduti di Sabbiuno, 11 D/E
40011 Anzola Emilia (BO) ITALY
Tel. +39.051.6425811
Fax +39.051.734943
info@transtecno.com
www.transtecno.com

MANUFACTURING PLANT



HANGZHOU TRANSTECNO
POWER TRANSMISSIONS CO; LTD
26, No.1 Street
Hangzhou Economic & Technological
Development Area
Hangzhou, CHINA
Tel. +86.571.86921603
Fax +86.571.86921810
info-china@transtecno.com
www.transtecno.cn

SALES OFFICES & WAREHOUSES



GEARTECNO ITALIA SRL
Via Ferrari, 27/11
41043 Fraz. Corlo, Formigine (MO)
ITALY
Tel. +39.059.557522
Fax +39.059.557439
info@geartecno.com
www.geartecno.com



GEARTECNO HOLLAND B.V.
De Stuwdam 43
ind. terrein Wieken/Vinkenhoeft
3815 KM Amersfoort
THE NETHERLANDS
Tel. +31.(0)33.4519505
Fax +31.(0)33.4519506
info@geartecno.nl
www.geartecno.nl

SALES OFFICES



GERMAN SALES OFFICE
Schonebeck 99
D-48329 Havixbeck
GERMANY
Tel. +49-(0)2534-644425
Mobile +49-(0)179-1298682
Fax +49-(0)2534-645875
germanoffice@transtecno.com



SALES OFFICE BRAZIL
Rua Vicente da Fontoura, 2547/404
CEP. 90640-003
PORTO ALEGRE -RS -BRASIL
Tel. +55-51-3251-5447
Fax +55-51-3251-5447
braziloffice@transtecno.com
www.transtecno.com.br