TRANSTECNO™

THE MODULAR GEARMOTOR

2009-2

Motovariariduttori ad ingranaggi cilindrici CMGV

Mechanical variators and helical gearboxes CMGV

MOTOVARIARIDUTTORI AD INGRANAGGI CILINDRICI CMGV

MECHANICAL VARIATORS AND HELICAL GEARBOXES CMGV

Caratteristiche tecniche — *Technical characteristics*

I motovariariduttori della serie **CMGV** hanno le seguenti caratteristiche principali:

- Precisione nella regolazione della velocità, contenuta in ± 0.5/1%.
- Campo di regolazione continuo 1:5.
- Le grandezze CMG01, 02, 03, 04 sono costruite con car cassa in Alluminio.
- Le grandezze VAM018, 037, e 075 sono costruite con carcassa in Alluminio, le altre grandezze in ghisa.

CMGV *mechanical variators and gearboxes have the following characteristics:*

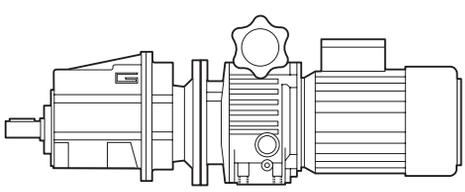
- *Precision in speed regulation (± 0,5/1%)*
- *Speed range 1:5.*
- *The frames CMG01, 02, 03, 04 are constructed with the Aluminum body.*
- *The frames VAM018, 037, and 075 are constructed with the Aluminum body, larger sizes are made of cast iron.*

Designazione — *Designation*

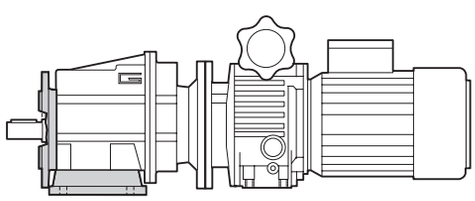
RIDUTTORE / *GEARBOX*						MOTORE / *MOTOR*				
CMGV	**043/040**	**9.81**	**H75**	**O20**	**B3/1**	**0.37**	**4**	**230/400**	**50**	**T4**
Tipo *Type*	Grandezza *Size*	Rapporto *Ratio*	Versione *Version*	Diam. Albero uscita *Output shaft diam.*	Posizione di montaggio *Mounting position*	Potenza *Power*	N° poli Poles nr.	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal board position*
CMGV	**012/018** — **043/040**	vedi tabella *see tables*	**U...** **H...** **F...** **H.../F...**		Vedi pag. I3 *See page I3*	**0.18** — **4**	**2** **4**		**50 Hz** **60 Hz**	Vedi pag. I3 *See page I3*

Versioni — *Versions*

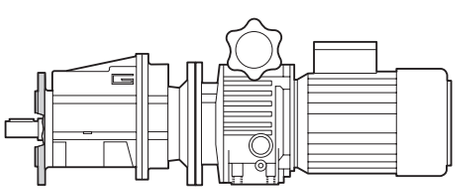
U



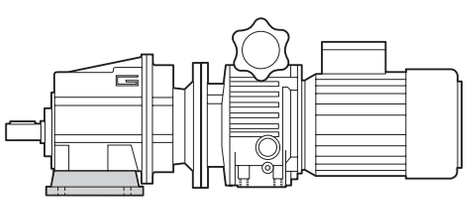
H/F



F



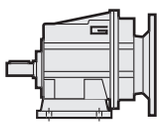
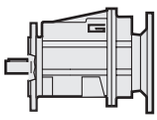
H



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*
Rd	%	Rendimento dinamico / *Dynamic efficiency*
R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*

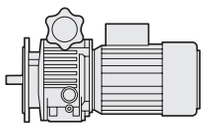
Lubrificazione — *Lubrication*

CMG

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

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

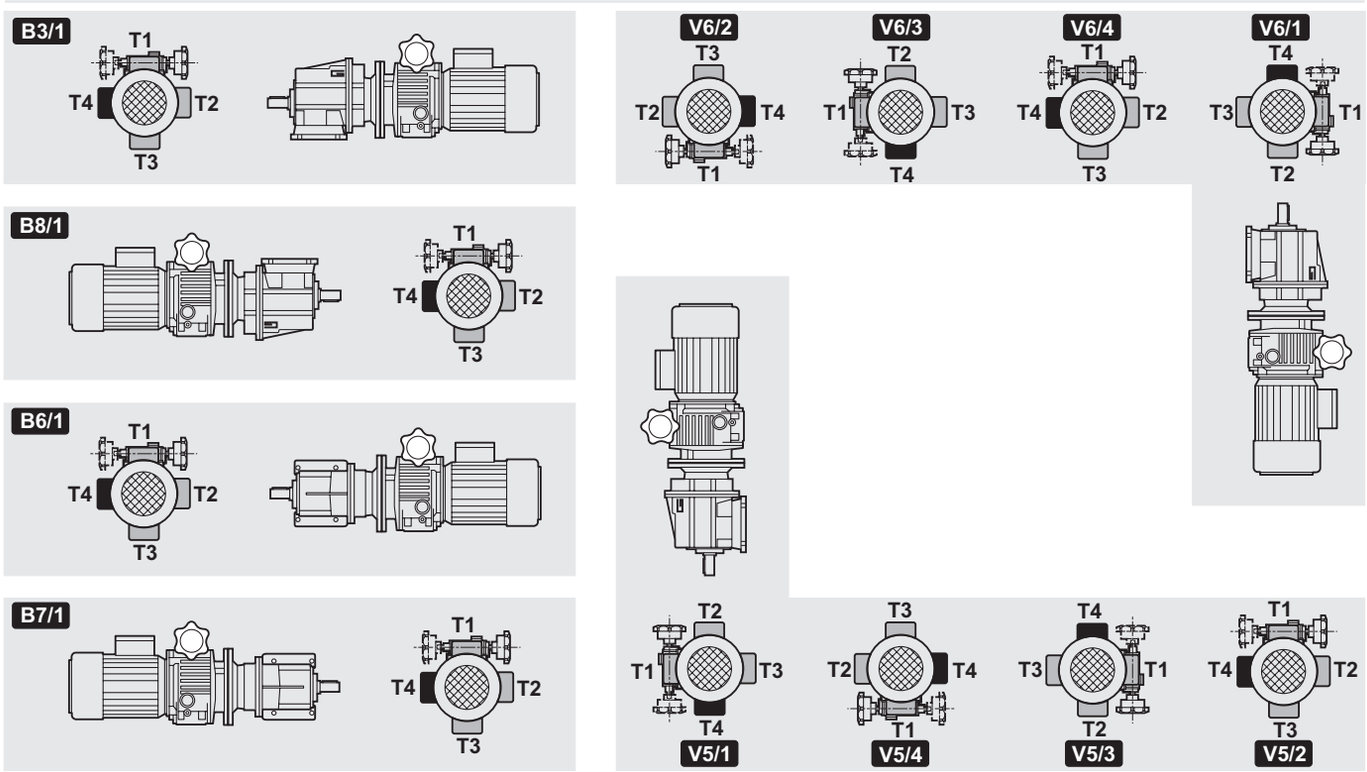


VAM

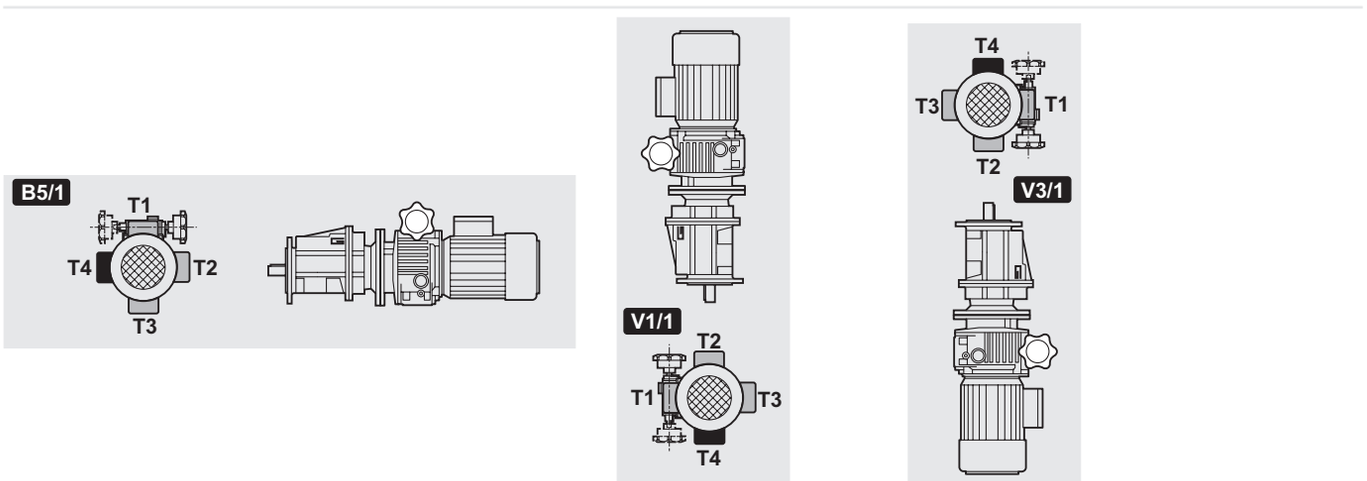
Pos. mont. Mount. pos.	**Quantità di olio** (litri) / **Oil quantity** (liters)					
	VAM					
	018	**037**	**075**	**15**	**22**	**40**
B3 - B5 - B6 - B7 - B8	0.13	0.15	0.33	0.80	1.20	1.20
V1 - V5	0.30	0.40	0.85	1.40	2.15	2.15
V3 - V6	0.13	0.15	0.33	0.80	1.20	1.20

Posizioni di montaggio — *Mounting positions*

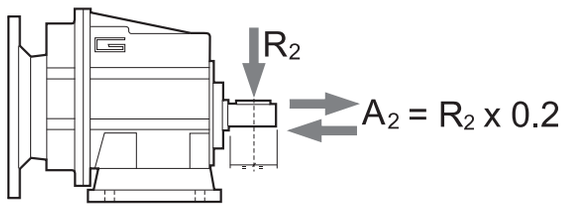
Versione / *Version* **H.. - H../F..**



Versione / *Version* **U.. - F..**



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

Dati tecnici ***Technical data***

P_1 [kW]	velocità massima *max speed* n_2 [min^{-1}]	M_2 [Nm]	sf	velocità minima *min speed* n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.18								
63B4 n_1=1400 [min^{-1}]	**249**	5	12.2	**49.8**	11	6.3	3.82	**CMGV 012/018**
	205	7	10.1	**41.0**	13	5.2	4.63	
	167	8	8.2	**33.4**	16	4.2	5.69	
	123	11	8.1	**24.6**	22	4.1	7.72	
	104	13	6.8	**20.7**	26	3.5	9.17	
	96.8	14	6.3	**19.4**	28	3.3	9.81	
	79.8	17	6.5	**16.0**	34	3.4	11.90	
	68.8	20	6.8	**13.8**	40	3.5	13.80	
	65.0	21	6.4	**13.0**	42	3.3	14.62	
	53.2	26	5.2	**10.6**	51	2.7	17.86	
	47.9	29	4.7	**9.6**	57	2.4	19.83	
	40.3	34	4.0	**8.1**	68	2.0	23.56	
	26.8	51	2.6	**5.4**	102	1.4	35.47	
	20.7	66	2.0	**4.1**	132	1.0	45.89	
	17.8	77	1.8	**3.6**	154	0.9	53.33	
	20.4	66	2.0	**4.1**	131	1.0	46.61	**CMGV 013/018**
	17.2	78	1.7	**3.4**	156	0.9	55.36	
	15.0	89	1.5	**3.0**	178	0.8	63.22	
	12.7	106	1.3	**2.5**	212	0.7	75.08	
	20	67	3.4	**4.0**	133	1.7	47.19	**CMGV 023/018**
	17	79	2.8	**3.4**	158	1.5	56.05	
	15	90	2.5	**3.0**	181	1.3	64.01	
	12	107	2.1	**2.5**	214	1.1	76.02	
	11	127	1.8	**2.1**	255	0.9	90.29	
	8.3	161	1.4	**1.7**	323	0.7	114.46	
	7.0	192	1.2	**1.4**	383	0.6	135.95	
0.22								
63C4 n_1=1400 [min^{-1}]	**249**	7	9.7	**49.8**	14	5.0	3.82	**CMGV 012/018**
	205	8	8.0	**41.0**	17	4.1	4.63	
	167	10	6.5	**33.4**	21	3.3	5.69	
	123	14	6.4	**24.6**	28	3.3	7.72	
	104	17	5.4	**20.7**	33	2.8	9.17	
	96.8	18	5.0	**19.4**	36	2.6	9.81	
	79.8	22	5.2	**16.0**	43	2.6	11.90	
	68.8	25	5.3	**13.8**	50	2.7	13.80	
	65.0	27	5.0	**13.0**	53	2.6	14.62	
	53.2	33	4.1	**10.6**	65	2.1	17.86	
	47.9	36	3.7	**9.6**	72	1.9	19.83	
	40.3	43	3.1	**8.1**	86	1.6	23.56	
	26.8	65	2.1	**5.4**	129	1.1	35.47	
	20.7	84	1.6	**4.1**	167	0.8	45.89	
	17.8	97	1.4	**3.6**	195	0.7	53.33	
	20.4	83	1.6	**4.1**	166	0.8	46.61	**CMGV 013/018**
	17.2	99	1.4	**3.4**	198	0.7	55.36	
	15.0	113	1.2	**3.0**	226	0.6	63.22	
	20.1	84	2.7	**4.0**	169	1.4	47.19	**CMGV 023/018**
	16.9	100	2.2	**3.4**	200	1.1	56.05	
	14.8	114	2.0	**3.0**	229	1.0	64.01	
	12.5	136	1.6	**2.5**	272	0.8	76.02	
	10.5	161	1.4	**2.1**	323	0.7	90.29	
	8.3	204	1.1	**1.7**	409	0.6	114.46	
	21.0	81	4.2	**4.2**	161	2.1	45.21	**CMGV 033/018**
	15.5	110	3.1	**3.1**	219	1.6	61.32	
	13.0	130	2.6	**2.6**	260	1.3	72.83	
	9.7	174	1.9	**1.9**	348	1.0	97.45	
	8.2	207	1.6	**1.6**	413	0.8	115.74	
	6.7	251	1.3	**1.3**	503	0.7	140.81	
	5.5	311	1.1	**1.1**	622	0.6	174.26	

P_1 [kW]	velocità massima *max speed* n_2 [min^{-1}]	M_2 [Nm]	sf	velocità minima *min speed* n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.22								
63C4 n_1=1400 [min^{-1}]	**9.7**	174	3.2	**1.9**	348	1.7	97.45	**CMGV 043/018**
	8.2	207	2.7	**1.6**	413	1.4	115.74	
	6.7	251	2.2	**1.3**	503	1.1	140.81	
	5.5	311	1.8	**1.1**	622	0.9	174.26	
	4.2	403	1.4	**0.8**	805	0.7	225.47	
	3.6	468	1.2	**0.7**	936	0.6	262.05	
0.37								
63C2 n_1=2800 [min^{-1}]	**498**	6	8.6	**100**	14	5.0	3.82	**CMGV 012/018**
	410	8	7.1	**82.0**	17	4.1	4.63	
	334	9	5.8	**66.8**	21	3.3	5.69	
	246	13	5.7	**49.2**	28	3.3	7.72	
	207	15	4.8	**41.5**	33	2.8	9.17	
	194	16	4.4	**38.7**	36	2.6	9.81	
	160	19	4.6	**31.9**	43	2.6	11.90	
	138	23	4.7	**27.5**	50	2.7	13.80	
	130	24	4.5	**26.0**	53	2.6	14.62	
	106	29	3.7	**21.3**	65	2.1	17.86	
	95.8	32	3.3	**19.2**	72	1.9	19.83	
	80.7	38	2.8	**16.1**	86	1.6	23.56	
	53.6	58	1.8	**10.7**	129	1.1	35.47	
	41.4	75	1.4	**8.3**	167	0.8	45.89	
	35.6	87	1.2	**7.1**	195	0.7	53.33	
	40.8	74	1.4	**8.2**	166	0.8	46.61	**CMGV 013/018**
	34.3	88	1.2	**6.9**	198	0.7	55.36	
	30.1	101	1.1	**6.0**	226	0.6	63.22	
	40.3	75	2.4	**8.1**	169	1.4	47.19	**CMGV 023/018**
	33.9	90	2.0	**6.8**	200	1.1	56.05	
	29.7	102	1.7	**5.9**	229	1.0	64.01	
	25.0	121	1.5	**5.0**	272	0.8	76.02	
	21.0	144	1.2	**4.2**	323	0.7	90.29	
	16.6	183	1.0	**3.3**	409	0.6	114.46	
	42.0	72	3.7	**8.4**	161	2.1	45.21	**CMGV 033/018**
	31.0	98	2.7	**6.2**	219	1.6	61.32	
	26.1	116	2.3	**5.2**	260	1.3	72.83	
	19.5	156	1.7	**3.9**	348	1.0	97.45	
	16.4	185	1.4	**3.3**	413	0.8	115.74	
	13.5	225	1.2	**2.7**	503	0.7	140.81	
	10.9	278	1.0	**2.2**	622	0.6	174.26	
71B4 n_1=1400 [min^{-1}]	**262**	11	6.1	**52.4**	22	3.1	3.82	**CMGV 012/037**
	216	13	5.0	**43.2**	27	2.6	4.63	
	176	16	4.1	**35.2**	33	2.1	5.69	
	130	22	4.0	**25.9**	44	2.1	7.72	
	109	26	3.4	**21.8**	53	1.7	9.17	
	102	28	3.2	**20.4**	57	1.6	9.81	
	84.0	34	3.3	**16.8**	69	1.7	11.90	
	72.5	40	3.4	**14.5**	79	1.7	13.80	
	68.4	42	3.2	**13.7**	84	1.6	14.62	
	56.0	51	2.6	**11.2**	103	1.3	17.86	
	50.4	57	2.4	**10.1**	114	1.2	19.83	
	42.5	68	2.0	**8.5**	136	1.0	23.56	
	28.2	102	1.3	**5.6**	204	0.7	35.47	
	41.9	69	3.3	**8.4**	137	1.7	23.85	**CMGV 022/037**
	27.8	103	2.2	**5.6**	207	1.1	35.91	
	21.5	134	1.7	**4.3**	268	0.9	46.46	
	18.5	156	1.4	**3.7**	311	0.7	54.00	

Dati tecnici *Technical data*

P_1 [kW]	velocità massima *max speed* n_2 [min^{-1}]	M_2 [Nm]	sf	velocità minima *min speed* n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.37								
71B4 n_1=1400 [min^{-1}]	**22.1**	127	2.6	**4.4**	255	1.4	45.21	**CMGV 033/037**
	16.3	173	1.9	**3.3**	346	1.0	61.32	
	13.7	205	1.6	**2.7**	411	0.8	72.83	
	10.3	275	1.2	**2.1**	550	0.6	97.45	
	13.7	205	2.7	**2.7**	411	1.4	72.83	**CMGV 043/037**
	10.3	275	2.0	**2.1**	550	1.0	97.45	
	8.6	326	1.7	**1.7**	653	0.9	115.74	
	7.1	397	1.4	**1.4**	794	0.7	140.81	
	5.7	491	1.1	**1.1**	983	0.6	174.26	
0.55								
71B2 n_1=2800 [min^{-1}]	**524**	8	6.6	**105**	22	3.1	3.82	**CMGV 012/037**
	432	10	5.5	**86.4**	27	2.6	4.63	
	352	12	4.4	**70.3**	33	2.1	5.69	
	259	16	4.4	**51.8**	44	2.1	7.72	
	218	19	3.7	**43.6**	53	1.7	9.17	
	204	21	3.4	**40.8**	57	1.6	9.81	
	168	25	3.5	**33.6**	69	1.7	11.90	
	145	29	3.7	**29.0**	79	1.7	13.80	
	137	31	3.5	**27.4**	84	1.6	14.62	
	112	38	2.8	**22.4**	103	1.3	17.86	
	101	42	2.5	**20.2**	114	1.2	19.83	
	84.9	50	2.1	**17.0**	136	1.0	23.56	
	56.4	75	1.4	**11.3**	204	0.7	35.47	
	83.9	50	3.5	**16.8**	137	1.7	23.85	**CMGV 022/037**
	55.7	76	2.3	**11.1**	207	1.1	35.91	
	43.0	98	1.8	**8.6**	268	0.9	46.46	
	37.0	114	1.6	**7.4**	311	0.7	54.00	
	44.2	93	2.9	**8.8**	255	1.4	45.21	**CMGV 033/037**
	32.6	127	2.1	**6.5**	346	1.0	61.32	
	27.5	151	1.8	**5.5**	411	0.8	72.83	
	20.5	202	1.3	**4.1**	550	0.6	97.45	
	32.6	127	3.5	**6.5**	346	1.7	61.32	**CMGV 043/037**
	27.5	151	3.0	**5.5**	411	1.4	72.83	
	20.5	202	2.2	**4.1**	550	1.0	97.45	
	17.3	239	1.9	**3.5**	653	0.9	115.74	
	14.2	291	1.5	**2.8**	794	0.7	140.81	
	11.5	360	1.2	**2.3**	983	0.6	174.26	
0.75								
80B4 n_1=1400 [min^{-1}]	**274**	21	5.3	**54.7**	42	2.7	3.66	**CMGV 022/075**
	225	26	4.4	**45.1**	51	2.3	4.43	
	184	31	3.6	**36.7**	63	1.8	5.45	
	135	43	3.2	**27.1**	85	1.6	7.39	
	114	51	2.7	**22.8**	101	1.4	8.78	
	101	57	2.3	**20.1**	114	1.2	9.93	
	83.0	69	3.2	**16.6**	139	1.7	12.05	
	75.7	76	2.9	**15.1**	152	1.5	13.21	
	67.5	85	2.6	**13.5**	171	1.3	14.81	
	58.5	98	1.8	**11.7**	197	0.9	17.10	
	49.8	116	1.9	**10.0**	231	1.0	20.08	
	41.9	137	1.6	**8.4**	275	0.8	23.85	
	27.8	207	1.1	**5.6**	414	0.6	35.91	

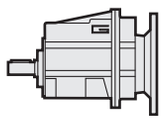
P_1 [kW]	velocità massima *max speed* n_2 [min^{-1}]	M_2 [Nm]	sf	velocità minima *min speed* n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.75								
80B4 n_1=1400 [min^{-1}]	**91.5**	63	3.2	**18.3**	126	1.6	10.93	**CMGV 032/075**
	79.3	73	3.9	**15.9**	145	2.0	12.60	
	75.2	77	3.7	**15.0**	153	1.9	13.30	
	65.4	88	3.6	**13.1**	176	1.8	15.30	
	54.9	105	3.0	**11.0**	210	1.5	18.21	
	52.0	111	2.8	**10.4**	222	1.5	19.24	
	47.3	122	2.6	**9.5**	244	1.3	21.15	
	32.7	176	1.9	**6.5**	352	1.0	30.57	
	22.6	254	1.3	**4.5**	509	0.7	44.18	
	19.5	295	1.1	**3.9**	591	0.6	51.30	
	22.1	255	2.2	**4.4**	510	1.1	45.21	**CMGV 043/075**
	16.3	346	1.6	**3.3**	692	0.8	61.32	
	13.7	411	1.4	**2.7**	821	0.7	72.83	
1.1								
80B2 n_1=2800 [min^{-1}]	**547**	15	5.8	**109**	42	2.7	3.66	**CMGV 022/075**
	451	19	4.8	**90.2**	51	2.3	4.43	
	367	23	3.9	**73.4**	63	1.8	5.45	
	271	31	3.4	**54.1**	85	1.6	7.39	
	228	37	2.9	**45.6**	101	1.4	8.78	
	201	42	2.5	**40.3**	114	1.2	9.93	
	166	51	3.5	**33.2**	139	1.7	12.05	
	151	56	3.2	**30.3**	152	1.5	13.21	
	135	63	2.8	**27.0**	171	1.3	14.81	
	117	72	2.0	**23.4**	197	0.9	17.10	
	100	85	2.1	**19.9**	231	1.0	20.08	
	83.9	101	1.8	**16.8**	275	0.8	23.85	
	55.7	152	1.2	**11.1**	414	0.6	35.91	
	131	65	3.9	**26.1**	176	1.8	15.30	**CMGV 032/075**
	110	77	3.2	**22.0**	210	1.5	18.21	
	104	81	3.1	**20.8**	222	1.5	19.24	
	94.6	89	2.8	**18.9**	244	1.3	21.15	
	65.4	129	2.1	**13.1**	352	1.0	30.57	
	45.3	187	1.4	**9.1**	509	0.7	44.18	
	39.0	217	1.2	**7.8**	591	0.6	51.30	
	44.2	187	2.4	**8.8**	510	1.1	45.21	**CMGV 043/075**
	32.6	254	1.8	**6.5**	692	0.8	61.32	
	27.5	301	1.5	**5.5**	821	0.7	72.83	
90S4 n_1=1400 [min^{-1}]	**267**	32	5.2	**53.4**	65	2.7	3.74	**CMGV 032/15**
	222	39	4.3	**44.4**	78	2.2	4.50	
	182	47	3.5	**36.5**	95	1.8	5.48	
	159	55	3.7	**31.7**	109	1.9	6.31	
	126	69	2.9	**25.2**	137	1.5	7.93	
	110	78	2.6	**22.0**	157	1.3	9.08	
	91.5	94	2.1	**18.3**	189	1.1	10.93	
	79.3	109	2.6	**15.9**	218	1.3	12.60	
	75.2	115	2.4	**15.0**	230	1.3	13.30	
	65.4	132	2.4	**13.1**	264	1.2	15.30	
	54.9	157	2.0	**11.0**	315	1.0	18.21	
	52.0	166	1.9	**10.4**	332	1.0	19.24	
	47.3	183	1.7	**9.5**	365	0.9	21.15	
	32.7	264	1.3	**6.5**	528	0.7	30.57	

Dati tecnici ***Technical data***

P_1 [kW]	velocità massima *max speed* n_2 [min^{-1}]	M_2 [Nm]	sf	velocità minima *min speed* n_2 [min^{-1}]	M_2 [Nm]	sf	i	
1.1								
90S4 n_1=1400 [min^{-1}]	**91.5**	94	3.3	**18.3**	189	1.7	10.93	**CMGV 042/15**
	79.3	109	3.6	**15.9**	218	1.8	12.60	
	75.2	115	3.4	**15.0**	230	1.8	13.30	
	65.4	132	3.6	**13.1**	264	1.8	15.30	
	54.9	157	3.0	**11.0**	315	1.5	18.21	
	52.0	166	2.8	**10.4**	332	1.5	19.24	
	32.7	264	2.1	**6.5**	528	1.1	30.57	
	22.6	382	1.5	**4.5**	763	0.8	44.18	
	19.5	443	1.3	**3.9**	886	0.6	51.30	
	22.1	382	1.5	**4.4**	765	0.8	45.21	**CMGV 043/15**
	16.3	519	1.1	**3.3**	1038	0.6	61.32	
1.5								
90L4 n_1=1400 [min^{-1}]	**267**	43	3.9	**53.4**	86	2.0	3.74	**CMGV 032/15**
	222	52	3.2	**44.4**	104	1.7	4.50	
	182	63	2.7	**36.5**	126	1.4	5.48	
	159	73	2.8	**31.7**	145	1.4	6.31	
	126	91	2.2	**25.2**	183	1.1	7.93	
	110	105	1.9	**22.0**	209	1.0	9.08	
	91.5	126	1.6	**18.3**	252	0.8	10.93	
	79.3	145	1.9	**15.9**	290	1.0	12.60	
	75.2	153	1.8	**15.0**	306	0.9	13.30	
	65.4	176	1.8	**13.1**	353	0.9	15.30	
	54.9	210	1.5	**11.0**	420	0.8	18.21	
	52.0	222	1.4	**10.4**	443	0.7	19.24	
	47.3	244	1.3	**9.5**	487	0.7	21.15	
	126	91	3.2	**25.2**	183	1.6	7.93	**CMGV 042/15**
	110	105	3.0	**22.0**	209	1.5	9.08	
	91.5	126	2.5	**18.3**	252	1.3	10.93	
	79.3	145	2.7	**15.9**	290	1.4	12.60	
	75.2	153	2.6	**15.0**	306	1.3	13.30	
	65.4	176	2.7	**13.1**	353	1.4	15.30	
	54.9	210	2.2	**11.0**	420	1.2	18.21	
	52.0	222	2.1	**10.4**	443	1.1	19.24	
	32.7	352	1.6	**6.5**	704	0.8	30.57	
	22.6	509	1.1	**4.5**	1018	0.6	44.18	
2.2								
90L2 n_1=2800 [min^{-1}]	**534**	32	4.1	**107**	86	2.0	3.74	**CMGV 032/15**
	444	39	3.4	**88.8**	104	1.7	4.50	
	365	47	2.8	**72.9**	126	1.4	5.48	
	317	55	2.9	**63.4**	145	1.4	6.31	
	252	69	2.3	**50.4**	183	1.1	7.93	
	220	78	2.0	**44.1**	209	1.0	9.08	
	183	94	1.7	**36.6**	252	0.8	10.93	
	159	109	2.0	**31.7**	290	1.0	12.60	
	150	115	1.9	**30.1**	306	0.9	13.30	
	131	132	1.9	**26.1**	353	0.9	15.30	
	110	157	1.6	**22.0**	420	0.8	18.21	
	104	166	1.5	**20.8**	443	0.7	19.24	
	94.6	183	1.4	**18.9**	487	0.7	21.15	

P_1 [kW]	velocità massima *max speed* n_2 [min^{-1}]	M_2 [Nm]	sf	velocità minima *min speed* n_2 [min^{-1}]	M_2 [Nm]	sf	i	
2.2								
90L2 n_1=2800 [min^{-1}]	**252**	69	3.4	**50.4**	183	1.6	7.93	**CMGV 042/15**
	220	78	3.2	**44.1**	209	1.5	9.08	
	183	94	2.6	**36.6**	252	1.3	10.93	
	159	109	2.9	**31.7**	290	1.4	12.60	
	150	115	2.7	**30.1**	306	1.3	13.30	
	131	132	2.8	**26.1**	353	1.4	15.30	
	110	157	2.4	**22.0**	420	1.2	18.21	
	104	166	2.2	**20.8**	443	1.1	19.24	
	65.4	264	1.7	**13.1**	704	0.8	30.57	
	45.3	382	1.2	**9.1**	1018	0.6	44.18	
100LA4 n_1=1400 [min^{-1}]	**267**	65	4.0	**53.4**	129	2.0	3.74	**CMGV 042/22**
	222	78	3.3	**44.4**	156	1.7	4.50	
	182	95	2.7	**36.5**	190	1.4	5.48	
	159	109	2.7	**31.7**	218	1.4	6.31	
	126	137	2.1	**25.2**	274	1.1	7.93	
	110	157	2.0	**22.0**	314	1.0	9.08	
	91.5	189	1.7	**18.3**	378	0.9	10.93	
	79.3	218	1.8	**15.9**	436	0.9	12.60	
	75.2	230	1.7	**15.0**	460	0.9	13.30	
	65.4	264	1.8	**13.1**	529	0.9	15.30	
	54.9	315	1.5	**11.0**	629	0.8	18.21	
	52.0	332	1.4	**10.4**	665	0.7	19.24	
3								
100LB4 n_1=1400 [min^{-1}]	**267**	86	3.0	**53.4**	172	1.5	3.74	**CMGV 042/40**
	222	104	2.5	**44.4**	208	1.3	4.50	
	182	126	2.0	**36.5**	253	1.0	5.48	
	159	145	2.0	**31.7**	291	1.0	6.31	
	126	183	1.6	**25.2**	365	0.8	7.93	
	110	209	1.5	**22.0**	418	0.8	9.08	
	91.5	252	1.2	**18.3**	503	0.6	10.93	
	79.3	290	1.3	**15.9**	581	0.7	12.60	
	75.2	306	1.3	**15.0**	613	0.7	13.30	
	65.4	353	1.3	**13.1**	705	0.7	15.30	
	54.9	420	1.1	**11.0**	839	0.6	18.21	
4								
112M4 n_1=1400 [min^{-1}]	**267**	115	2.2	**53.4**	230	1.2	3.74	**CMGV 042/40**
	222	138	1.9	**44.4**	277	1.0	4.50	
	182	168	1.5	**36.5**	337	0.8	5.48	
	159	194	1.5	**31.7**	388	0.8	6.31	
	126	244	1.2	**25.2**	487	0.6	7.93	
	110	279	1.1	**22.0**	558	0.6	9.08	

Dimensioni ***Dimensions***



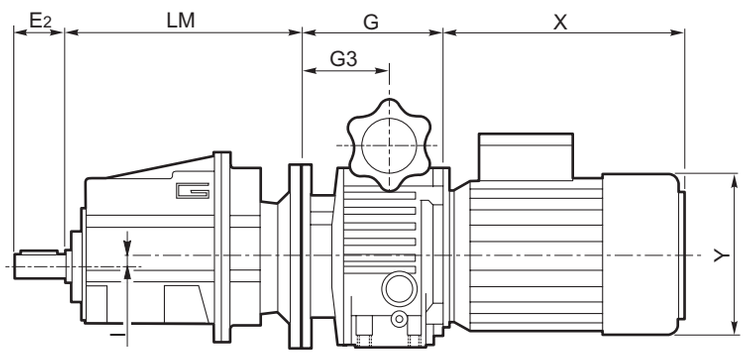
CMG

CMG	A	B	I	j	LM	Albero uscita / *Output shaft*				
						D_2 h6	E_2	F_2	G_2	T_2
012	124	93	6.5	62	195	20 (16) (25)	40 (40) (50)	6 (5) (8)	M6 (M6) (M8)	22.5 (18) (28)
013		112	43		268					
022	124	98	11.5	57	205	25	50	8	M8	28
023		117	48		278					
032	156	118	5	92	237	30	60	8	M10	33
033			41.5		303					
042	156	128	15	82	250	35	70	10	M12	38
043			51.5		316					

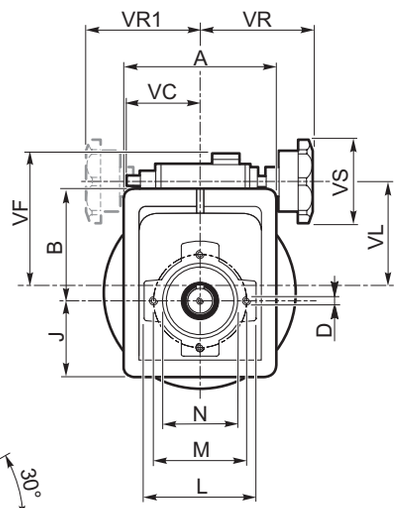
Versione **U** / ***U*** *Version*						
CMG	**H**	**K**	**L**	**M**	**N** f7	**O**
012 013	8.5	13.5	95	76	60	n°4 M8x15
022 023	8.5	13.5	95	76	60	n°4 M8x15
032 033	9	15	127	110	90	n°6 M8x19
042 043	9	15	127	110	90	n°6 M8x19

CMGV..U

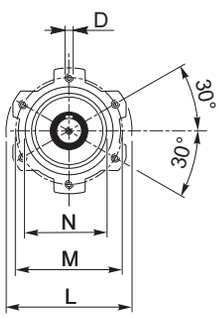
CMGV..2 U



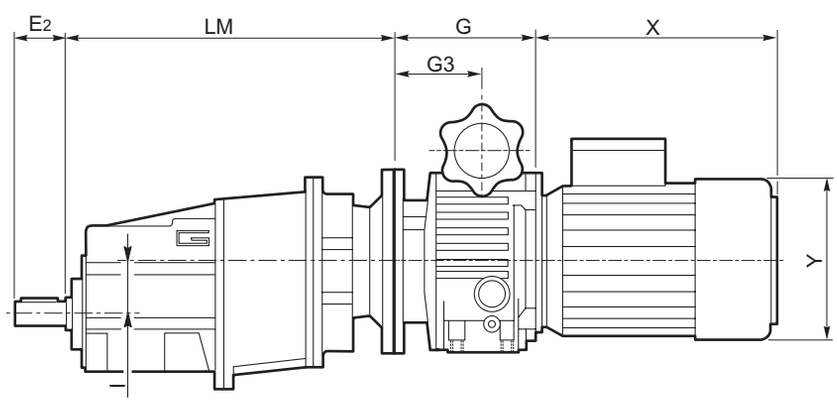
012-022



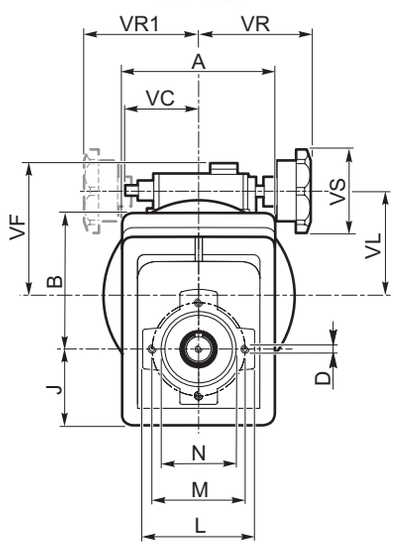
032-042
033-043

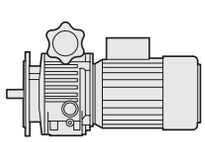


CMGV..3 U



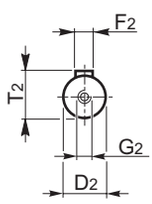
013-023





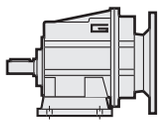
VAM

Albero uscita / *Output shaft*



	VAM							
	V2	**V3**	**VC**	**VF**	**VL**	**VR**	**VR1**	**VS**
018	112.5	64.5	71	111	78	110	110	85
037	110	74	71	123	90	110	110	85
075	139	85.5	79	140	107	120	120	85
15	188	115		144	122	120	120	85
22	208	131		188	150	160		110
40	208	131		188	150	160		110

Dimensioni ***Dimensions***



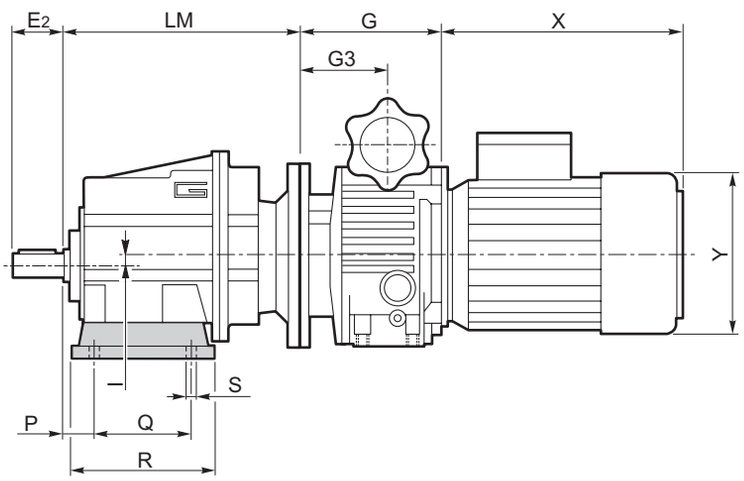
CMG

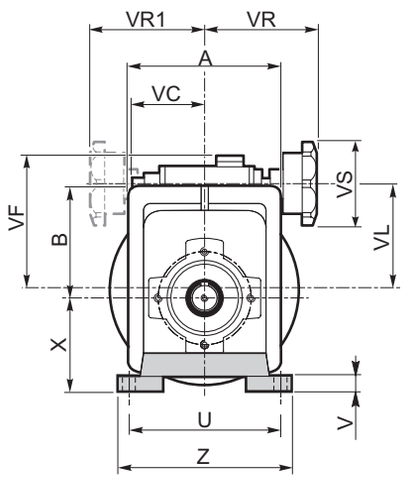
CMG	A	B	I	LM	Albero uscita / *Output shaft*				
					D_2 h6	E_2	F_2	G_2	T_2
012	124	93	6.5	195	20 (16) (25)	40 (40) (50)	6 (5) (8)	M6 (M6) (M8)	22.5 (18) (28)
013		112	43	268					
022	124	98	11.5	205	25	50	8	M8	28
023		117	48	278					
032	156	118	5	237	30	60	8	M10	33
033			41.5	303					
042	156	128	15	250	35	70	10	M12	38
043			51.5	316					

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

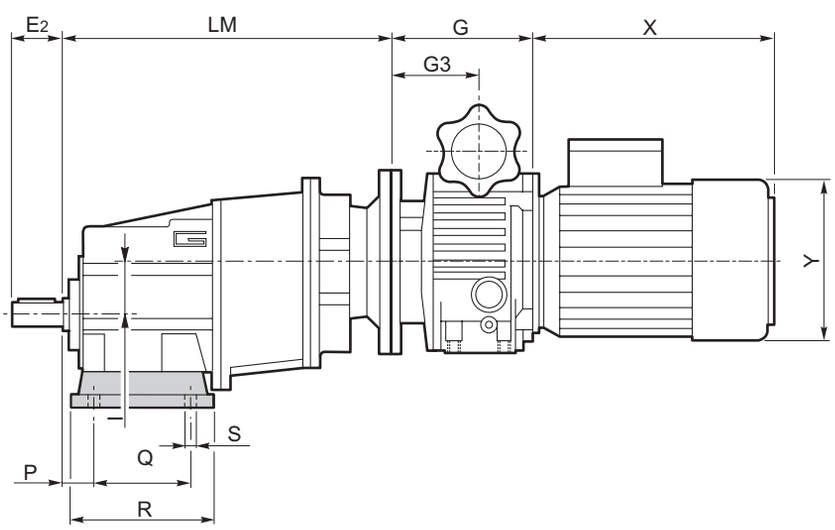
CMGV..H

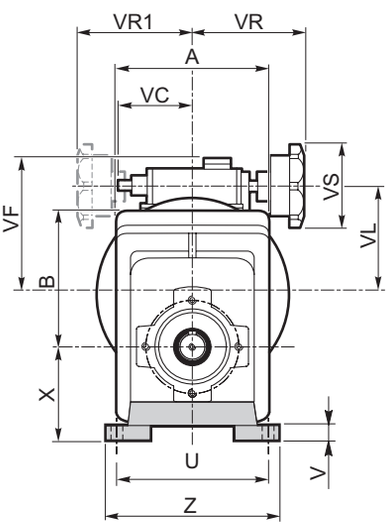
CMGV..2 H..

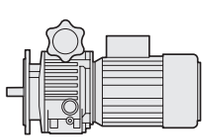




CMGV..3 H..

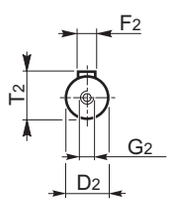






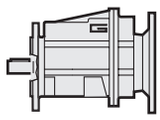
VAM

Albero uscita / *Output shaft*



	VAM							
	V2	**V3**	**VC**	**VF**	**VL**	**VR**	**VR1**	**VS**
018	112.5	64.5	71	111	78	110	110	85
037	110	74	71	123	90	110	110	85
075	139	85.5	79	140	107	120	120	85
15	188	115		144	122	120	120	85
22	208	131		188	150	160		110
40	208	131		188	150	160		110

Dimensioni ***Dimensions***



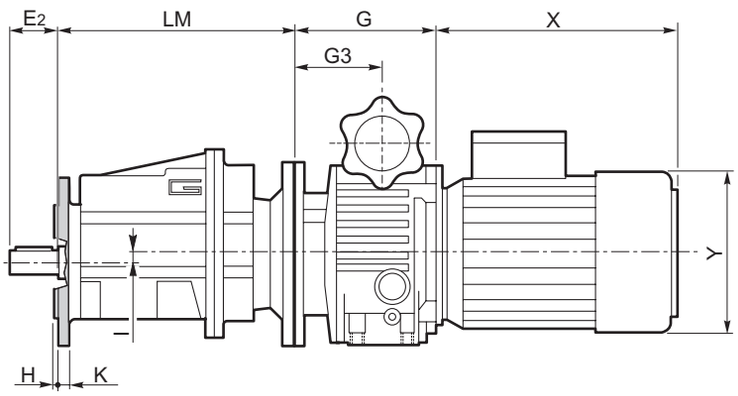
CMG

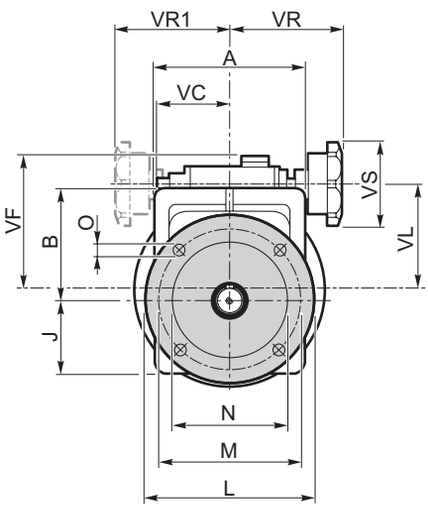
CMG	A	B	I	j	LM	Albero uscita / *Output shaft*				
						D_2 h6	E_2	F_2	G_2	T_2
012	124	93	6.5	62	195	20 (16) (25)	40 (40) (50)	6 (5) (8)	M6 (M6) (M8)	22.5 (18) (28)
013		112	43		268					
022	124	98	11.5	57	205	25	50	8	M8	28
023		117	48		278					
032	156	118	5	92	237	30	60	8	M10	33
033			41.5		303					
042	156	128	15	82	250	35	70	10	M12	38
043			51.5		316					

Versione **F** / ***F** Version*							
CMG	**H**	**K**	**L**	**M**	**N** f7	**O**	**Flangia / *Flange***
							Tipo / *Type*
012 013	3	9	120	100	80	9	**F120**
	3.5	9	140	115	95	9	**F140**
	3.5	9	160	130	110	9	**F160**
022 023	3	9	120	100	80	9	**F120**
	3.5	9	140	115	95	9	**F140**
	3.5	9	160	130	110	9	**F160**
032 033	3.5	11	160	130	110	9	**F160**
	3.5	11	200	165	130	11	**F200**
042 043	3.5	11	160	130	110	9	**F160**
	3.5	11	200	165	130	11	**F200**

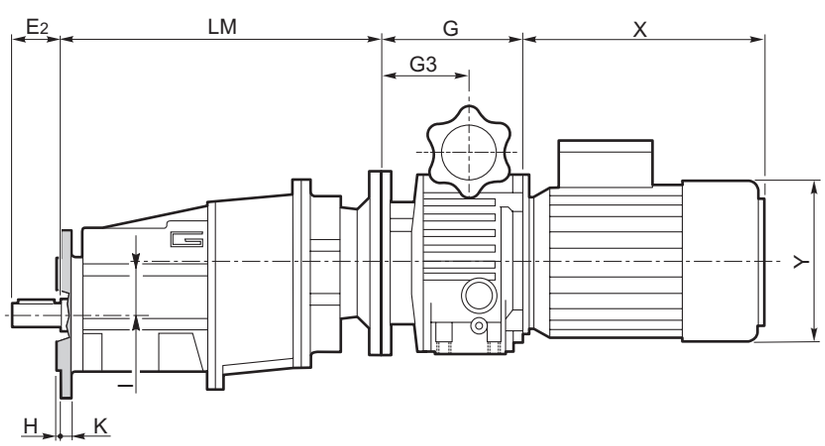
CMGV..F

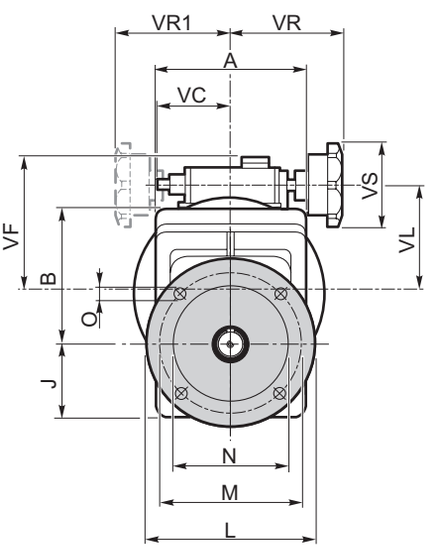
CMGV..2 F..

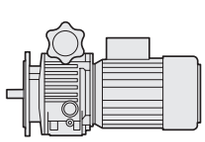




CMGV..3 F..



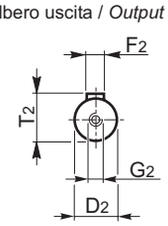




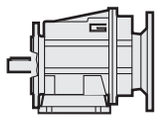
VAM

	VAM							
	V2	**V3**	**VC**	**VF**	**VL**	**VR**	**VR1**	**VS**
018	112.5	64.5	71	111	78	110	110	85
037	110	74	71	123	90	110	110	85
075	139	85.5	79	140	107	120	120	85
15	188	115		144	122	120	120	85
22	208	131		188	150	160		110
40	208	131		188	150	160		110

Albero uscita / *Output shaft*



Dimensioni ***Dimensions***



CMG

CMG	A	B	I	LM	Albero uscita / *Output shaft*				
					D_2 h6	E_2	F_2	G_2	T_2
012	124	93	6.5	195	20 (16) (25)	40 (40) (50)	6 (5) (8)	M6 (M6) (M8)	22.5 (18) (28)
013		112	43	268					
022	124	98	11.5	205	25	50	8	M8	28
023		117	48	278					
032	156	118	5	237	30	60	8	M10	33
033			41.5	303					
042	156	128	15	250	35	70	10	M12	38
043			51.5	316					

Versione **H** / ***H*** Version

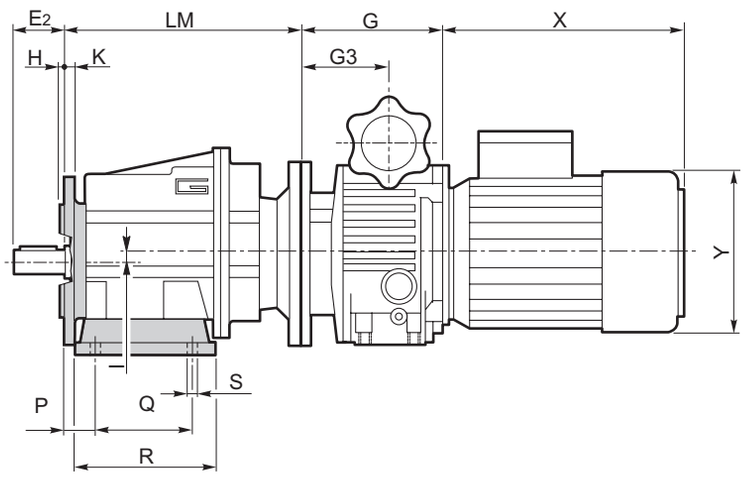
CMG	P	Q	R	S	U	V	X	Z	Piede / *Foot* Tipo / *Type*
012 013	18	80	118	9	110	12	75	140	**H75**
	18	50 - 87	118	9	110	12	85	130	**H85**
	25	130	154	9	110	12	90	135	**H90**
	25	85	120	9	120	12	80	140	**H80**
	18	47.5 - 60	135	11	130	12	100	155	**H100**
022 023	18	80	118	9	110	12	75	140	**H75**
	18	50 - 87	118	9	110	12	85	130	**H85**
	25	130	154	9	110	12	90	135	**H90**
	25	85	120	9	120	12	80	140	**H80**
	18	47.5 - 60	135	11	130	12	100	155	**H100**
032 033	30	165	195	14	135	14	115	170	**H115**
	30	100	150	11	150	14	110	185	**H110**
	18	70			160				
	35	110	160	14	170	14	120	210	**H120**
042 043	30	165	195	14	135	14	115	170	**H115**
	30	100	150	11	150	14	110	185	**H110**
	18	70			160				
	35	110	160	14	170	14	120	210	**H120**

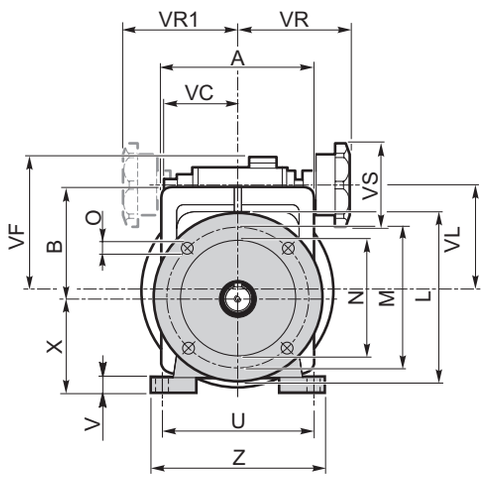
Versione **F** / ***F*** *Version*

CMG	H	K	L	M	N f7	O	Flangia / *Flange* Tipo / *Type*
012 013	3	9	120	100	80	9	**F120**
	3.5	9	140	115	95	9	**F140**
	3.5	9	160	130	110	9	**F160**
022 023	3	9	120	100	80	9	**F120**
	3.5	9	140	115	95	9	**F140**
	3.5	9	160	130	110	9	**F160**
032 033	3.5	11	160	130	110	9	**F160**
	3.5	11	200	165	130	11	**F200**
042 043	3.5	11	160	130	110	9	**F160**
	3.5	11	200	165	130	11	**F200**

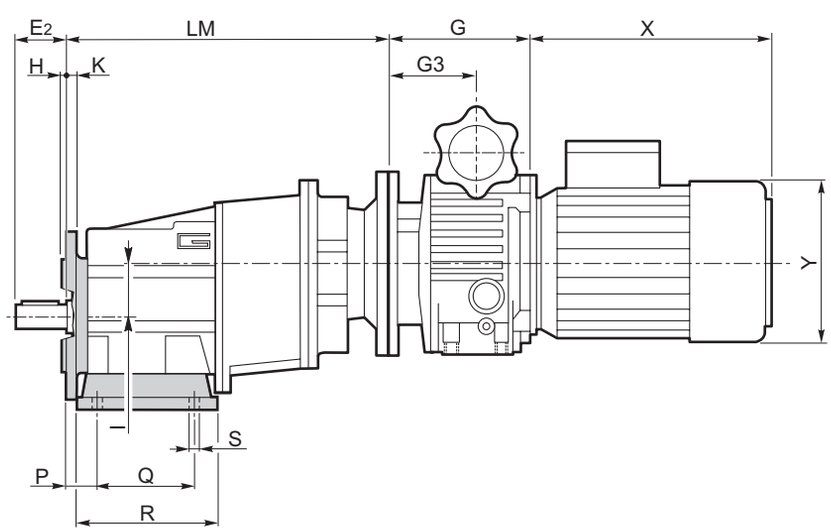
CMGV..H/F

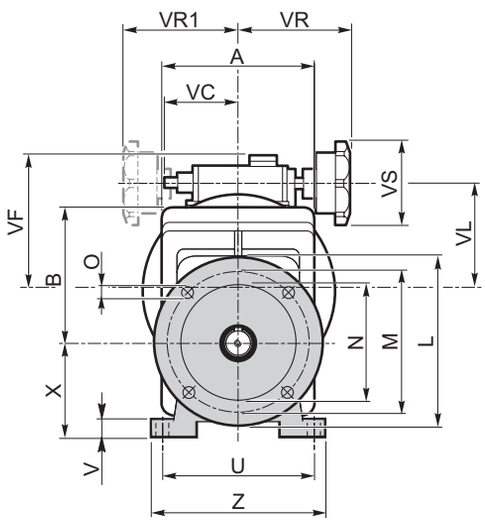
CMGV..2 H../F..

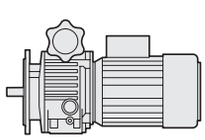




CMGV..3 H../F..

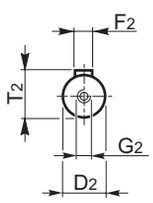






VAM

Albero uscita / *Output shaft*



	VAM							
	V2	**V3**	**VC**	**VF**	**VL**	**VR**	**VR1**	**VS**
018	112.5	64.5	71	111	78	110	110	85
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22	208	131		188	150	160		110
40	208	131		188	150	160		110

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