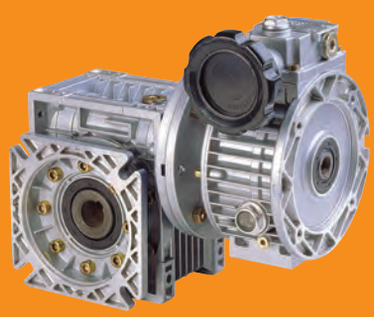
TRANSTECNO™

THE MODULAR GEARMOTOR

2009-2

Motovariariduttori a vite senza fine CMV

Mechanical variators and wormgearboxes CMV



MOTOVARIARIDUTTORI A VITE SENZA FINE CMV

MECHANICAL VARIATORS AND WORMGEARBOXES CMV

J

Caratteristiche tecniche — *Technical characteristics*

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

- Precisione nella regolazione della velocità, contenuta in ± 0.5/1%.
- Campo di regolazione continuo 1:5.
- Le grandezze CM040, 050, 063, 075 e 090 sono costruite con carcassa in Alluminio, le altre grandezze in ghisa.
- Le grandezze VAM018, 037, e 075 sono costruite con carcassa in Alluminio, le altre grandezze in ghisa.

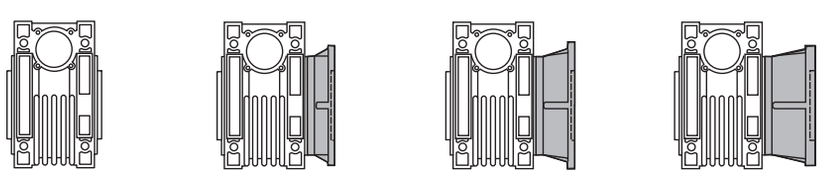
CMV *mechanical variators and gearboxes have the following characteristics:*

- *Precision in speed regulation (± 0,5/1%)*
- *Speed range 1:5.*
- *The frames CM040, 050, 063, 075 and 090 are constructed with the Aluminum body, larger sizes are made of cast iron.*
- *The frames VAM018, 037, and 075 are constructed with the Aluminum body, larger sizes are made of cast iron.*

Designazione — *Designation*

MOTOVARIARIDUTTORE / *MECHANICAL VARIATOR AND GEARBOX*					MOTORE / *MOTOR*				
CMV	**040/037**	**FD**	**20**	**B3/1**	**0.37**	**4**	**230/400**	**50Hz**	**T1**
Tipo *Type*	Grandezza *Size*	Versione *Version*	Rapporto *Ratio*	Pos. di montaggio *Mounting position*	Potenza Power	N° poli *Poles nr.*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*
CMV	**040/018** **—** **130/40**	**U** **FD** **FS** **FBD** **FBS** **FLD** **FLS**	vedi tabelle *see tables*	Vedi pag. J3 *See page J3*	**0.18** **—** **4**	**2** **4**	—	**50Hz** **60Hz**	**Vedi pag. J3** ***See page J3***

Versioni — Versions

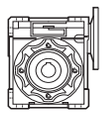


U **F** **FB** **FL**

Simbologia — *Symbols*

n_1	[min^{-1}]	Velocità in ingresso / *Input speed*	sf		Fattore di servizio / *Service factor*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*	R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
i		Rapporto di riduzione / *Ratio*			
P_1	[kW]	Potenza in entrata / *Input power*			
M_n	[Nm]	Coppia nominale in uscita */ Nominal output torque*			
M_2	[Nm]	Coppia in uscita in funzione di P_1 / *Output torque referred to P_1*			

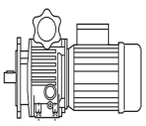
Lubrificazione — *Lubrication*



CM

	Quantità di olio (litri) / *Oil quantity (liters)*					
	B3	**B8**	**B6**	**B7**	**V5**	**V6**
CM040	0.08					
CM050	0.15					
CM063	0.30					
CM075	0.55					
CM090	1.0					
CM110	3.0	2.2	2.5	2.5	3.0	2.2
CM130	4.5	3.3	3.5	3.5	4.5	3.3

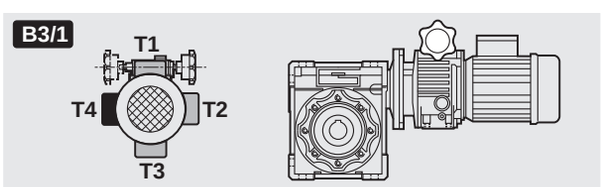
Lubrificati a vita
Life lubricated

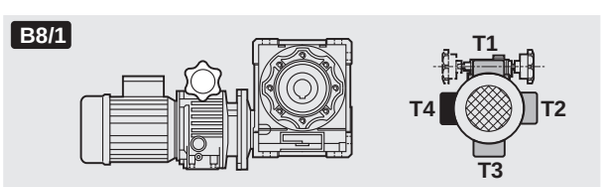


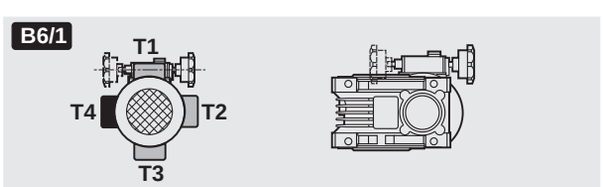
VAM

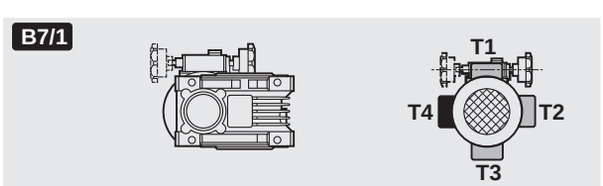
Pos. mont. *Mount. Pos.*	Quantità di olio (litri) / *Oil quantity (liters)*					
	VAM					
	0.18	**037**	**075**	**15**	**22**	**40**
B3 - B6 - B7 - B8	0.13	0.15	0.33	0.80	1.20	1.20
V5	0.30	0.40	0.85	1.40	2.15	2.15
V6	0.13	0.15	0.33	0.80	1.20	1.20

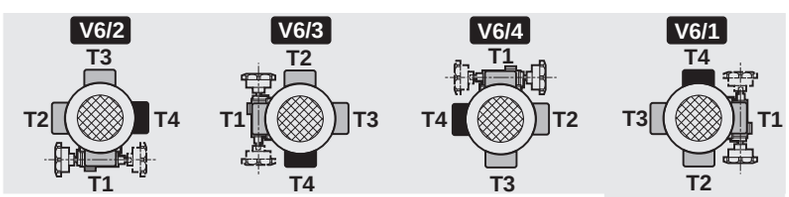
Posizioni di montaggio — Mounting positionsn

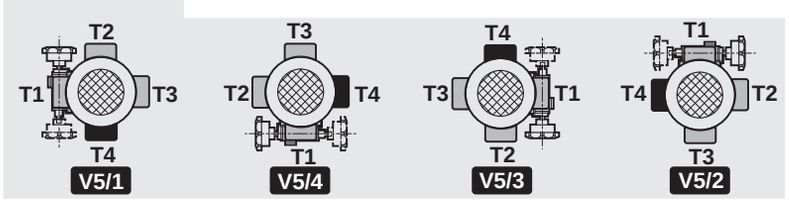




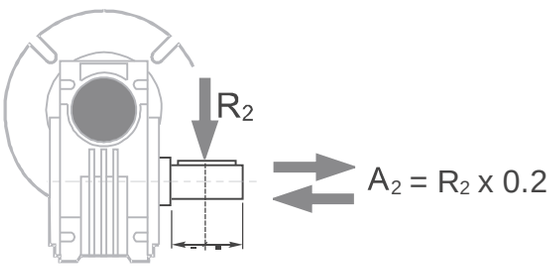








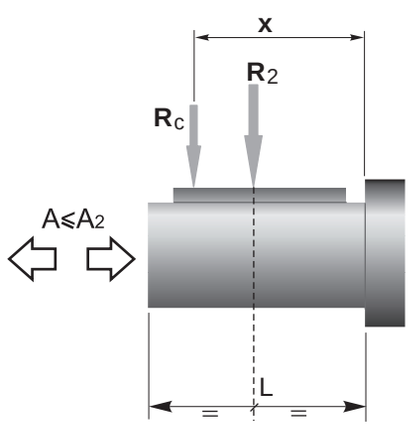
Carichi radiali — *Radial loads*



n_2 [min^{-1}]	R_2 [N]						
	CM040	**CM050**	**CM063**	**CM075**	**CM090**	**CM110**	**CM130**
187	1264	1770	2445	2824	3161	5058	5732
140	1392	1949	2692	3110	3481	5570	6313
93	1596	2234	3085	3564	3990	6384	7235
70	1754	2456	3392	3918	4386	7018	7953
56	1890	2646	3654	4221	4725	7560	8567
47	2004	2805	3874	4475	5009	8014	9083
35	2210	3095	4273	4937	5526	8842	10021
28	2381	3334	4603	5318	5953	9524	10794
23	2542	3559	4915	5678	6356	10170	11526
18	2759	3862	5334	6162	6897	11036	12507

Quando il carico radiale risultante non è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:



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

$$R \leq R_c$$

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

	CM						
	040	**050**	**063**	**075**	**090**	**110**	**130**
a	84	101	120	131	182	176	188
b	64	76	95	101	122	136	148
R_{2MAX}	3000	4200	5800	6700	7500	12000	13600

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}]	**190**	7	6.2	**38**	13	5.6	5	**CMV 040/018**
	127	10	*4.4*	**25**	18	*3.9*	7.5	
	95	12	*3.4*	**19**	23	*3.0*	10	
	63	18	*2.5*	**13**	32	*2.2*	15	
	48	22	*2.0*	**9.5**	40	*1.6*	20	
	38	26	*1.7*	**7.6**	47	*1.3*	25	
	32	30	*1.6*	**6.3**	50	*1.4*	30	
	24	37	*1.2*	**4.8**	60	*1.1*	40	
	19	44	*1.0*	**3.8**	69	*0.9*	50	
	24	37	*2.2*	**4.8**	64	*1.9*	40	**CMV 050/018**
	19	44	*1.7*	**3.8**	74	*1.6*	50	
	16	50	*1.4*	**3.2**	79	*1.3*	60	
	12	56	*1.2*	**2.4**	91	*0.9*	80	
	9.5	63	0.9	**1.9**	102	0.8	100	
0.22								
63C4 n_1=1400 [min^{-1}]	**190**	9	4.9	**38**	16	*4.4*	5	**CMV 040/018**
	127	12	*3.5*	**25**	23	*3.1*	7.5	
	95	16	*2.7*	**19**	30	*2.4*	10	
	63	22	*2.0*	**13**	41	*1.7*	15	
	48	28	*1.6*	**9.5**	51	*1.3*	20	
	38	33	*1.3*	**7.6**	60	*1.0*	25	
	32	38	*1.3*	**6.3**	64	*1.1*	30	
	24	47	*1.0*	**4.8**	76	*0.9*	40	
	24	47	*1.7*	**4.8**	81	*1.5*	40	**CMV 050/018**
	19	56	*1.3*	**3.8**	93	*1.3*	50	
	16	63	*1.1*	**3.2**	100	*1.0*	60	
	12	71	*0.9*	**2.4**	116	*0.7*	80	
	9.5	80	*0.7*	**1.9**	129	*0.6*	100	
0.37								
63C2 n_1=2800 [min^{-1}]	**380**	8	4.1	**76**	17	3.2	5	**CMV 040/018**
	253	11	*2.9*	**51**	24	*2.2*	7.5	
	190	14	*2.3*	**38**	30	*1.7*	10	
	127	21	*1.6*	**25**	43	*1.2*	15	
	95	27	*1.2*	**19**	54	*1.0*	20	
	76	31	*1.0*	**15**	65	*0.7*	25	
	63	36	*1.0*	**13**	72	*0.8*	30	
	253	11	*5.4*	**51**	24	*4.2*	7.5	**CMV 050/018**
	190	15	*3.9*	**38**	30	*3.3*	10	
	127	21	*2.8*	**25**	43	*2.3*	15	
	95	27	*2.1*	**19**	55	*1.6*	20	
	76	33	*1.8*	**15**	65	*1.4*	25	
	63	37	*1.9*	**13**	73	*1.4*	30	
	48	48	*1.4*	**10**	90	*1.1*	40	
	38	55	*1.0*	**7.6**	105	*0.9*	50	
71B4 n_1=1400 [min^{-1}]	**200**	14	3.1	**40**	25	2.8	5	**CMV 040/037**
	133	19	*2.2*	**27**	36	*1.9*	7.5	
	100	25	*1.7*	**20**	47	*1.5*	10	
	67	35	*1.3*	**13**	65	*1.1*	15	
	50	44	*1.0*	**10**	80	*0.8*	20	
	40	53	*0.8*	**8.0**	95	*0.6*	25	

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}]	**133**	19	*4.3*	**27**	36	*3.8*	7.5	**CMV 050/037**
	100	25	*3.3*	**20**	47	*2.9*	10	
	67	35	*2.3*	**13**	64	*2.1*	15	
	50	45	*1.7*	**10**	79	*1.5*	20	
	40	54	*1.4*	**8.0**	96	*1.1*	25	
	33	60	*1.4*	**6.7**	104	*1.3*	30	
	25	74	*1.1*	**5.0**	127	*0.9*	40	
	20	89	*0.8*	**4.0**	147	*0.8*	50	
	25	80	*1.9*	**5.0**	127	*1.8*	40	**CMV 063/037**
	20	93	*1.5*	**4.0**	153	*1.4*	50	
	17	103	*1.3*	**3.3**	166	*1.2*	60	
	13	122	*1.0*	**2.5**	197	*0.9*	80	
	10	141	*0.9*	**2.0**	216	*0.7*	100	
	20	92	*2.4*	**4.0**	159	*1.9*	50	**CMV 075/037**
	17	106	*2.0*	**3.3**	176	*1.6*	60	
	13	130	*1.5*	**2.5**	206	*1.2*	80	
	10	150	*1.3*	**2.0**	234	*0.9*	100	
0.55								
71B2 n_1=2800 [min^{-1}]	**400**	10	3.2	**80**	26	2.0	5	**CMV 040/037**
	267	14	*2.3*	**53**	37	*1.4*	7.5	
	200	19	*1.8*	**40**	48	*1.1*	10	
	133	27	*1.3*	**27**	68	*0.8*	15	
	267	14	*4.2*	**53**	37	*2.7*	7.5	**CMV 050/037**
	200	19	*3.0*	**40**	48	*2.1*	10	
	133	27	*2.1*	**27**	68	*1.5*	15	
	100	35	*1.6*	**20**	86	*1.0*	20	
	80	42	*1.4*	**16**	102	*0.9*	25	
	67	48	*1.5*	**13**	115	*0.9*	30	
	100	36	*3.3*	**20**	88	*1.9*	20	**CMV 063/037**
	80	43	*2.6*	**16**	105	*1.5*	25	
	67	50	*2.6*	**13**	115	*1.6*	30	
	50	62	*1.9*	**10**	146	*1.2*	40	
	40	75	*1.6*	**8**	174	*0.9*	50	
	33	83	*1.3*	**7**	184	*0.8*	60	
	50	64	*2.8*	**10**	151	*1.9*	40	**CMV 075/037**
	40	76	*2.3*	**8.0**	174	*1.4*	50	
	33	87	*1.9*	**6.7**	198	*1.2*	60	
	25	106	*1.5*	**5.0**	235	*0.9*	80	
	20	123	*1.2*	**4.0**	264	*0.8*	100	

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	
0.75								
80B4 n_1=1400 [min^{-1}]	**133**	38	*2.1*	**27**	72	*1.9*	7.5	**CMV 050/075**
	100	49	*1.7*	**20**	94	*1.4*	10	
	67	70	*1.2*	**13**	128	*1.1*	15	
	50	90	*0.8*	**10**	158	*0.8*	20	
	133	39	*3.6*	**27**	72	*3.3*	7.5	**CMV 063/075**
	100	50	*2.9*	**20**	94	*2.6*	10	
	67	72	*2.1*	**13**	130	*1.9*	15	
	50	92	*1.6*	**10**	166	*1.4*	20	
	40	113	*1.2*	**8.0**	195	*1.1*	25	
	33	126	*1.3*	**6.7**	216	*1.1*	30	
	25	161	*1.0*	**5.0**	254	*0.9*	40	
	20	186	*0.8*	**4.0**	306	*0.7*	50	
	50	95	*2.4*	**10**	168	*2.1*	20	**CMV 075/075**
	40	114	*1.8*	**8.0**	204	*1.6*	25	
	33	130	*2.0*	**6.7**	227	*1.7*	30	
	25	158	*1.5*	**5.0**	274	*1.3*	40	
	20	183	*1.2*	**4.0**	318	*1.0*	50	
	17	212	*1.0*	**3.3**	353	*0.8*	60	
	13	259	*0.8*	**2.5**	413	*0.6*	80	
	25	170	*2.3*	**5.0**	293	*2.0*	40	**CMV 090/075**
	20	204	*1.9*	**4.0**	336	*1.6*	50	
	17	230	*1.5*	**3.3**	382	*1.3*	60	
	13	283	*1.1*	**2.5**	451	*1.0*	80	
	10	324	*0.8*	**2.0**	504	*0.8*	100	
	13	293	*1.8*	**2.5**	490	*1.6*	80	**CMV 110/075**
	10	342	*1.4*	**2.0**	552	*1.3*	100	
1.1								
80B2 n_1=2800 [min^{-1}]	**267**	29	*2.1*	**53**	75	*1.3*	7.5	**CMV 050/075**
	200	38	*1.5*	**40**	96	*1.0*	10	
	267	29	*3.8*	**53**	76	*2.4*	7.5	**CMV 063/075**
	200	38	*2.9*	**40**	97	*1.9*	10	
	133	55	*2.1*	**27**	137	*1.3*	15	
	100	72	*1.6*	**20**	175	*1.0*	20	
	80	86	*1.3*	**16**	210	*0.8*	25	
	67	99	*1.3*	**13**	230	*0.8*	30	
	133	55	*3.0*	**27**	142	*1.9*	15	**CMV 075/075**
	100	72	*2.4*	**20**	185	*1.5*	20	
	80	87	*1.9*	**16**	219	*1.1*	25	
	67	102	*1.8*	**13**	248	*1.1*	30	
	50	128	*1.4*	**10**	302	*0.9*	40	
	40	152	*1.2*	**8.0**	348	*0.7*	50	
	67	103	*3.4*	**13**	248	*2.2*	30	**CMV 090/075**
	50	134	*2.3*	**10**	312	*1.5*	40	
	40	163	*1.8*	**8.0**	378	*1.2*	50	
	33	187	*1.5*	**6.7**	418	*1.0*	60	
	25	232	*1.1*	**5.0**	509	*0.7*	80	
	20	273	*0.8*	**4.0**	588	*0.6*	100	

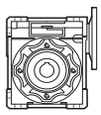
P_1 [kW]	velocità massima *max speed* n_2 [min^{-1}]	M_2 [Nm]	sf	velocità minima *min speed* n_2 [min^{-1}]	M_2 [Nm]	sf	i	
1.1								
80B2 n_1=2800 [min^{-1}]	**40**	167	*3.1*	**8.0**	396	*2.0*	50	**CMV 110/075**
	33	195	*2.5*	**6.7**	446	*1.6*	60	
	25	243	*1.8*	**5.0**	538	*1.2*	80	
	20	286	*1.4*	**4.0**	624	*0.9*	100	
90S4 n_1=1400 [min^{-1}]	**133**	58	*2.4*	**27**	108	*2.2*	7.5	**CMV 063/15**
	100	75	*1.9*	**20**	140	*1.7*	10	
	67	108	*1.4*	**13**	194	*1.2*	15	
	50	139	*1.0*	**10**	248	*0.9*	20	
	40	169	*0.8*	**8.0**	293	*0.7*	25	
	33	189	*0.9*	**6.7**	324	*0.7*	30	
	50	142	*1.6*	**10**	252	*1.4*	20	**CMV 075/15**
	40	171	*1.2*	**8.0**	306	*1.0*	25	
	33	194	*1.3*	**6.7**	340	*1.1*	30	
	25	238	*1.0*	**5.0**	410	*0.9*	40	
	25	256	*1.6*	**5.0**	439	*1.4*	40	**CMV 090/15**
	20	306	*1.2*	**4.0**	504	*1.1*	50	
	17	346	*1.0*	**3.3**	572	*0.9*	60	
	13	439	*1.2*	**2.5**	734	*1.1*	80	**CMV 110/15**
	10	513	*1.0*	**2.0**	828	*0.8*	100	
1.5								
90L4 n_1=1400 [min^{-1}]	**133**	77	*1.8*	**27**	144	*1.7*	7.5	**CMV 063/15**
	100	100	*1.5*	**20**	187	*1.3*	10	
	67	144	*1.0*	**13**	259	*0.9*	15	
	50	185	0.8	**10**	331	0.7	20	
	133	78	*2.7*	**27**	148	*2.4*	7.5	**CMV 075/15**
	100	102	*2.3*	**20**	190	*1.9*	10	
	67	148	*1.6*	**13**	266	*1.4*	15	
	50	190	*1.2*	**10**	336	*1.1*	20	
	40	228	*0.9*	**8.0**	408	0.8	25	
	33	259	*1.0*	**6.7**	454	0.8	30	
	25	317	*0.8*	**5.0**	547	0.6	40	
	133	78	*4.1*	**27**	149	*3.6*	7.5	**CMV 090/15**
	100	102	*3.4*	**20**	194	*2.9*	10	
	67	149	*2.7*	**13**	274	*2.3*	15	
	50	192	*2.0*	**10**	350	*1.8*	20	
	40	234	*1.5*	**8.0**	426	*1.3*	25	
	33	263	*1.7*	**6.7**	468	*1.5*	30	
	25	341	*1.2*	**5.0**	586	*1.0*	40	
	20	408	0.9	**4.0**	672	0.8	50	
	40	243	*2.7*	**8.0**	444	*2.3*	25	**CMV 110/15**
	33	270	*2.7*	**6.7**	468	*2.3*	30	
	25	350	*2.0*	**5.0**	614	*1.7*	40	
	20	426	*1.6*	**4.0**	732	*1.3*	50	
	17	490	*1.3*	**3.3**	821	*1.1*	60	
	13	586	0.9	**2.5**	979	0.8	80	
	13	614	*1.4*	**2.5**	979	*1.2*	80	**CMV 130/15**
	10	708	*1.1*	**2.0**	1152	*1.0*	100	

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	
2.2								
90L2 n_1=2800 [min^{-1}]	**267**	59	*1.8*	**53**	151	*1.2*	7.5	**CMV 63/15**
	200	77	*1.4*	**40**	194	*0.9*	10	
	133	113	*1.0*	**27**	274	*0.7*	15	
	267	59	*2.5*	**53**	153	*1.6*	7.5	**CMV 75/15**
	200	78	*2.1*	**40**	197	*1.3*	10	
	133	113	*1.5*	**27**	284	*0.9*	15	
	100	148	*1.2*	**20**	370	*0.7*	20	
	80	178	*1.0*	**16**	438	*0.6*	25	
	267	60	*4.0*	**53**	153	*2.6*	7.5	**CMV 90/15**
	200	79	*3.3*	**40**	199	*2.1*	10	
	133	116	*2.6*	**27**	284	*1.7*	15	
	100	151	*2.0*	**20**	370	*1.2*	20	
	80	187	*1.6*	**16**	450	*1.0*	25	
	67	211	*1.7*	**13**	497	*1.1*	30	
	50	274	*1.1*	**10**	624	*0.8*	40	
	80	189	*2.7*	**16**	462	*1.7*	25	**CMV 110/15**
	67	213	*2.6*	**13**	511	*1.7*	30	
	50	281	*1.9*	**10**	662	*1.2*	40	
	40	342	*1.5*	**8.0**	792	*1.0*	50	
	33	400	*1.2*	**6.7**	893	*0.8*	60	
	50	281	*3.1*	**10**	653	*1.9*	40	**CMV 130/15**
	40	347	*2.4*	**8.0**	804	*1.5*	50	
	33	405	*1.9*	**6.7**	922	*1.2*	60	
	25	504	*1.4*	**5.0**	1114	*0.9*	80	
	20	603	*1.0*	**4.0**	1272	*0.7*	100	
100LA4 n_1=1400 [min^{-1}]	**133**	117	*1.8*	**27**	221	*1.6*	7.5	**CMV 075/22**
	100	153	*1.5*	**20**	284	*1.3*	10	
	67	221	*1.0*	**1.0**	400	0.9	15	
	133	117	*2.7*	**27**	224	*2.4*	7.5	**CMV 090/22**
	100	153	*2.3*	**20**	292	*1.9*	10	
	67	224	*1.8*	**13**	410	*1.5*	15	
	50	288	*1.3*	**10**	526	*1.2*	20	
	40	351	*1.0*	**8.0**	639	*0.9*	25	
	33	394	*1.1*	**6.7**	702	*1.0*	30	
	133	119	*4.7*	**27**	224	*4.0*	7.5	**CMV 110/22**
	100	155	*4.0*	**20**	292	*3.3*	10	
	67	224	*2.9*	**13**	416	*2.5*	15	
	50	295	*2.1*	**10**	547	*1.8*	20	
	40	365	*1.8*	**8.0**	666	*1.5*	25	
	33	405	*1.8*	**6.7**	702	*1.5*	30	
	25	526	*1.3*	**5.0**	922	*1.1*	40	
	20	639	*1.1*	**4.0**	1098	*0.9*	50	
	17	734	*0.9*	**3.3**	1231	*0.7*	60	
	33	416	*2.8*	**6.7**	713	*2.4*	30	**CMV 130/22**
	25	533	*2.1*	**5.0**	907	*1.8*	40	
	20	657	*1.6*	**4.0**	1098	*1.4*	50	
	17	756	*1.3*	**3.3**	1231	*1.1*	60	
	13	922	*1.0*	**2.5**	1469	*0.8*	80	

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	
3								
100LB4 n_1=1400 [min^{-1}]	**133**	157	*1.3*	**27**	295	*1.2*	7.5	**CMV 075/40**
	100	204	*1.1*	**20**	379	*0.9*	10	
	67	295	*0.8*	**13**	533	0.7	15	
	133	157	*2.0*	**27**	299	*1.8*	7.5	**CMV 090/40**
	100	204	*1.7*	**20**	389	*1.4*	10	
	67	299	*1.3*	**13**	547	*1.1*	15	
	50	384	*1.0*	**10**	701	*0.9*	20	
	40	468	*0.8*	**8.0**	852	*0.7*	25	
	33	526	*0.9*	**6.7**	936	*0.7*	30	
	67	299	*2.2*	**13**	554	*1.8*	15	**CMV 110/40**
	50	394	*1.6*	**10**	730	*1.3*	20	
	40	486	*1.3*	**8.0**	888	*1.1*	25	
	33	540	*1.3*	**6.7**	936	*1.2*	30	
	25	701	*1.0*	**5.0**	1229	*0.8*	40	
	20	852	*0.8*	**4.0**	1464	*0.7*	50	
	40	486	*2.2*	**8.0**	876	*1.7*	25	**CMV 130/40**
	33	554	*2.1*	**6.7**	950	*1.8*	30	
	25	710	*1.5*	**5.0**	1210	*1.3*	40	
	20	876	*1.2*	**4.0**	1464	*1.0*	50	
	17	1008	*1.0*	**3.3**	1642	*0.9*	60	
	13	1229	0.7	**2.5**	1958	0.6	80	
4								
112M4 n_1=1400 [min^{-1}]	**133**	209	*1.5*	**27**	398	*1.4*	7.5	**CMV 090/40**
	100	272	*1.3*	**20**	518	*1.1*	10	
	67	389	*1.0*	**13**	730	*0.8*	15	
	50	512	0.8	**10**	934	0.7	20	
	100	275	*2.3*	**20**	518	*1.9*	10	**CMV 110/40**
	67	398	*1.6*	**13**	739	*1.4*	15	
	50	525	*1.2*	**10**	973	*1.0*	20	
	40	648	*1.0*	**8.0**	1184	*0.9*	25	
	33	720	*1.0*	**6.7**	1248	*0.9*	30	
	40	648	*1.6*	**8.0**	1168	*1.3*	25	**CMV 130/40**
	33	739	*1.6*	**6.7**	1267	*1.3*	30	
	25	947	*1.2*	**5.0**	1613	*1.0*	40	
	20	1168	*0.9*	**4.0**	1952	*0.8*	50	
	17	1344	*0.7*	**3.3**	2189	*0.6*	60	

Dimensioni ***Dimensions***

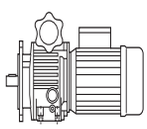


CM

CM.. - CM..F - CM..FB - CM..FL

	A	C	D H8	E	F	G	G1	H	I	L	M	N h8	N1	O	P	Q	R	S	T	V	K	KE	a	b	t
040	70	100	18 (19)	121.5	43	70	78	50	40	71	75	60	36.5	6.5	87	55	71.5	6.5	26	35	60	M6x8(n.4)	45°	6	20.8
050	80	120	25 (24)	144	49	80	92	60	50	85	85	70	43.5	8.5	100	64	84	7	30	40	70	M8x10(n.4)	45°	8	28.3
063	100	144	25	174	67	95	112	72	63	103	95	80	53	8.5	110	80	102	8	36	50	85	M8x14(n.8)	45°	8	28.3
075	120	172	28	205	72	112.5	120	86	75	112	115	95	57	11	140	93	119	10	40	60	90	M8x14(n.8)	45°	8	31.3
090	140	205	35	238	74	129.5	140	102.5	90	130	130	110	67	13	160	102	135	11	45	70	100	M10x18(n.8)	45°	10	38.3
110	170	252.5	42	295	—	160	155	127.5	110	144	165	130	74	14	200	125	167.5	14	50	85	115	M10x18(n.8)	45°	12	45.3
130	200	292.5	45	335	—	180	170	147.5	130	155	215	180	81	16	250	140	187.5	15	60	100	120	M12x21(n.8)	45°	14	48.8

		CM..F								CM..FB							CM..FL							
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KA	KB	KC	KM	KN H8	KO	KP	KQ
040	45°	67	7	4	80-94	60	9 (n.4)	110	95	80	9	5	115	95	9.5(n.4)	140	97	7	4	80-94	60	9(n.4)	110	95
050	45°	90	9	5	90-110	70	11 (n.4)	125	110	89	10	5	130	110	9.5(n.4)	160	120	9	5	90-110	70	11(n.4)	125	110
063	45°	82	10	6	150-160	115	11 (n.8)	180	142	98	11	5	165	130	11(n.4)	200	112	10	6	150-160	115	11(n.4)	180	142
075	45°	111	13	6	165-178	130	14 (n.8)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
090	45°	111	13	6	175-188	152	14 (n.8)	210	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
110	45°	131	15	6	230	170	14 (n.8)	280	260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
130	45°	140	15	6	255	180	16 (n.8)	320	290	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

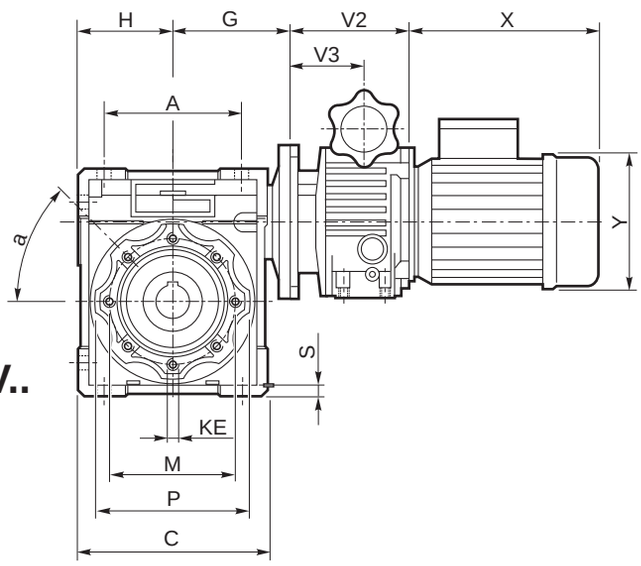


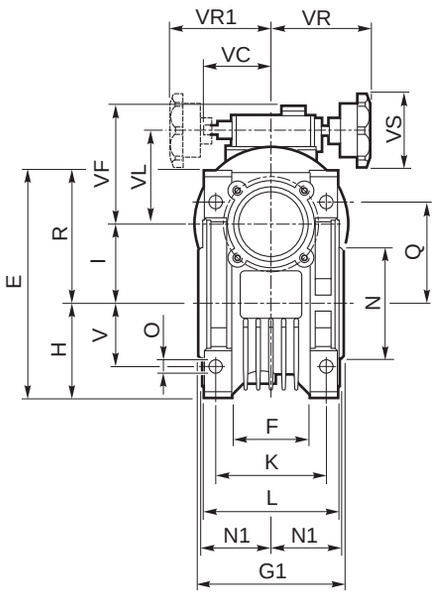
VAM

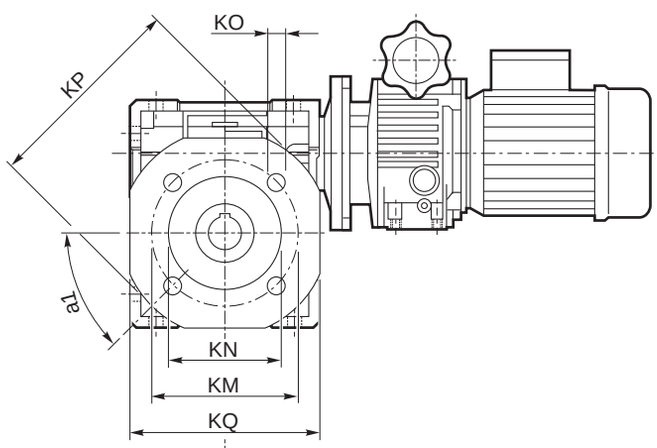
	VAM							
	V2	V3	VC	VF	VL	VR	VR1	VS
018	112.5	64.5	71	111	78	110	110	85
037	110	74	71	123	90	110	110	85
075	139	85.5	79	140	107	120	120	85
15	188	115	—	144	122	120	120	85
22	208	131	—	188	150	160	—	110
40	208	131	—	188	150	160	—	110

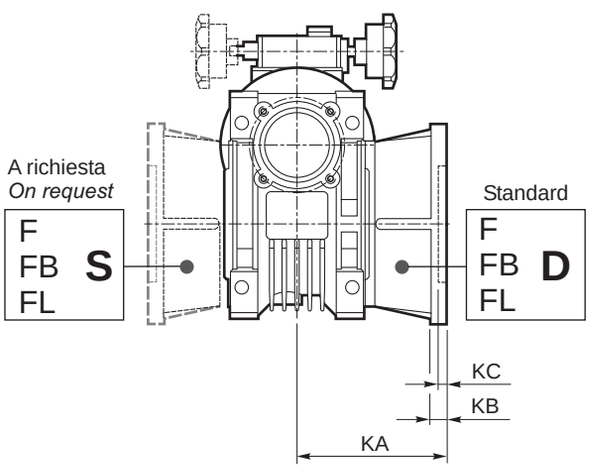
Dimensioni ***Dimensions***

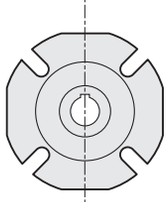
CMV..



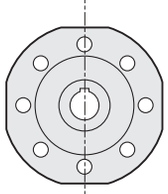




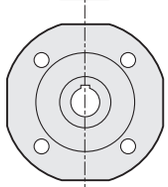




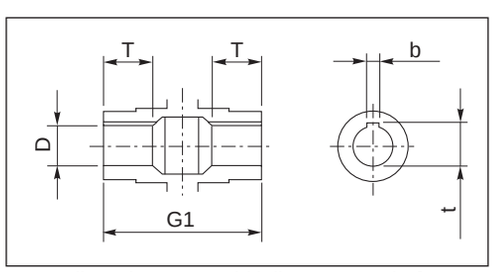
CMV..F **(040/.. - 090/..)**
CMV..FL **(040/.. - 063/..)**



CMV..F **(110/.. - 130/..)**



CMV..FB **(040/.. - 063/..)**



Albero lento cavo / *Hollow output shaft*

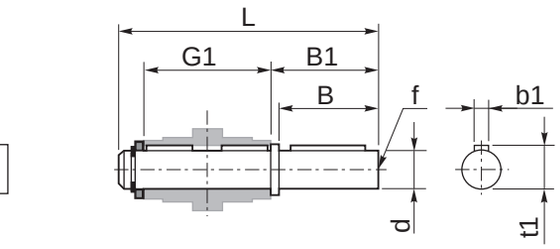
Accessori — *Accessories*

Albero lento semplice e doppio

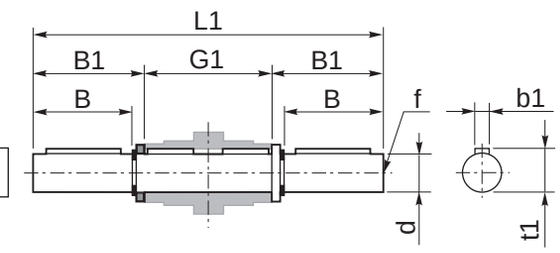
Single and double output shaft

	d h6	B	B1	G1	L	L1	f	b1	t1
CM 040	18	40	43	78	128	164	M6	6	20.5
CM 050	25	50	53.5	92	153	199	M10	8	28
CM 063	25	50	53.5	112	173	219	M10	8	28
CM 075	28	60	63.5	120	192	247	M10	8	31
CM 090	35	80	84.5	140	234	309	M12	10	38
CM 110	42	80	84.5	155	249	324	M16	12	45
CM 130	45	80	85	170	265	340	M16	14	48.5

SZ



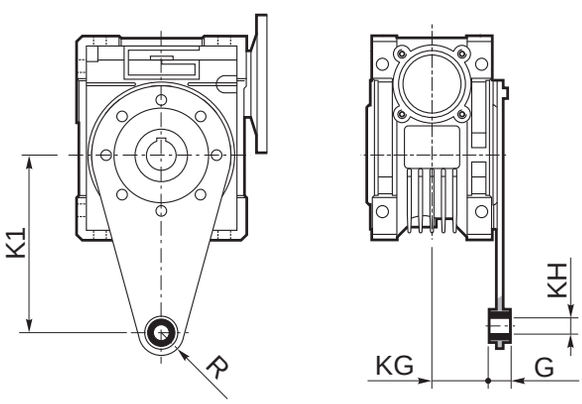
DZ



Braccio di reazione

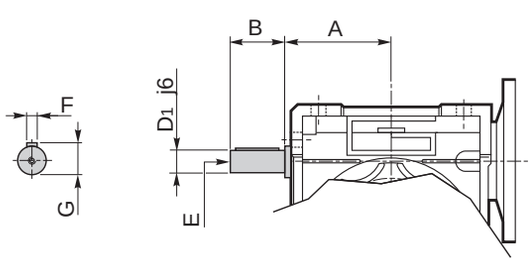
Torque arm

	K1	G	KG	KH	R
CM 040	100	14	31	10	18
CM 050	100	14	38	10	18
CM 063	150	14	47.5	10	18
CM 075	200	25	46.5	20	30
CM 090	200	25	56.5	20	30
CM 110	250	30	62	25	35
CM 130	250	30	69	25	35



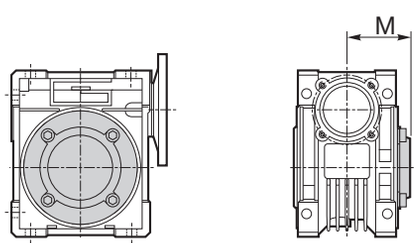
Opzioni — *Options*

VS - Vite sporgente / *Extended input shaft*



	A	B	D_1 j6	E	F	G
CM 040	53	23	11	M5	4	12.5
CM 050	64	30	14	M6	5	16
CM 063	75	40	19	M6	6	21.5
CM 075	90	50	24	M8	8	27
CM 090	108	50	24	M8	8	27

PC - Coperchio di protezione / *Plastic cover*



	M
CM 040	54.5
CM 050	62.5
CM 063	73
CM 075	79
CM 090	94
CM 110	95
CM 130	100

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