



<b>Indice</b>	<b>Index</b>	Pag. Page
Caratteristiche tecniche	<i>Technical features</i>	<b>L2</b>
Designazione	<i>Designation</i>	<b>L2</b>
Versioni	<i>Versions</i>	<b>L2</b>
Simbologia	<i>Symbols</i>	<b>L2</b>
Lubrificazione	<i>Lubrication</i>	<b>L3</b>
Posizione di montaggio	<i>Mounting position</i>	<b>L3</b>
Dati tecnici	<i>Technical data</i>	<b>L4</b>
Dimensioni	<i>Dimensions</i>	<b>L8</b>
Accessori	<i>Accessories</i>	<b>L10</b>
Optional	<i>Options</i>	<b>L10</b>



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**Caratteristiche tecniche**

**Technical features**

I motovariariduttori della serie CMV hanno le seguenti caratteristiche principali:

CMV mechanical variators and wormgearboxes main features:

- Precisione nella regolazione della velocità, contenuta in  $\pm 0.5/1\%$ .
- Campo di regolazione continuo 1:5.
- Le grandezze CM040, 050, 063, 075, 090 e 110 sono costruite con carcassa in Alluminio, la grandezza 130 ha la carcassa in ghisa.
- Le grandezze VAM18, 037 e 075 sono costruite con carcassa in Alluminio, le altre grandezze in ghisa
- Precision in speed regulation:  $\pm 0.5/1\%$
- Speed range 1:5
- Die-cast aluminum housing on CM040, 050, 063, 075, 090 and 110. Cast iron housing on CM130.
- Die-cast aluminum housing on VAM018, 037 and 075. Cast iron housing on the other sizes.

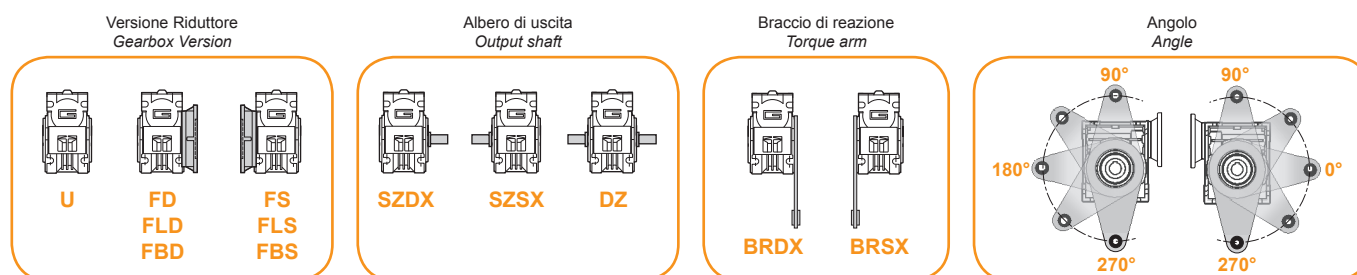
**Designazione**

**Designation**

MOTOVARIARIDUTTORE / MECHANICAL VARIATOR AND GEARBOX								
CMV	040/037	FD	20	SZDX	BR SX	90	B3/1	VS
Tipo Type	Grandezza Size	Versione Version	Rapporto Ratio	Albero di uscita Output shaft	Braccio di reazione Torque arm	Angolo Angle	Pos. di montaggio Mounting position	Opzioni Options
CMV	040/018 — 130/40	U FD FS FBD FBS FLD FLS	vedi tabelle see tables	SZDX SZSX DZ	BRDX BR SX	0° 90° 180° 270°	Vedi pag. L3 See page L3	VS

MOTORE / MOTOR				
0.37kW	4p	3ph	50Hz	T1
Potenza Power	Poli Poles	Fasi Phases	Frequenza Frequency	Pos. morsetteria Terminal box pos.
Vedi tabelle See tables	2p 4p	1ph 3ph	50Hz 60Hz	Vedi pag. L3 See page L3



**Simbologia**

**Symbols**

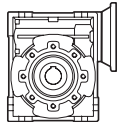
$n_1$	[min <sup>-1</sup> ]	Velocità in ingresso / Input speed
$n_2$	[min <sup>-1</sup> ]	Velocità in uscita / Output speed
$i$		Rapporto di riduzione / Ratio
$P_1$	[kW]	Potenza in entrata / Input power

$M_2$	[Nm]	Coppia in uscita in funzione di $P_1$ / Output torque referred to $P_1$
sf		Fattore di servizio / Service factor
$R_2$	[N]	Carico radiale ammissibile in uscita / Permitted output radial load
$A_2$	[N]	Carico assiale ammissibile in uscita / Permitted output axial load

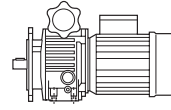


**Lubrificazione**

**Lubrication**



**CM**



**VAM**

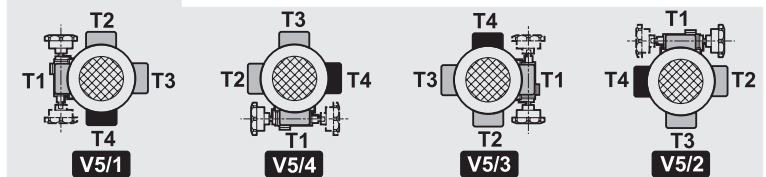
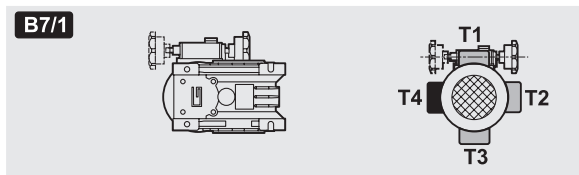
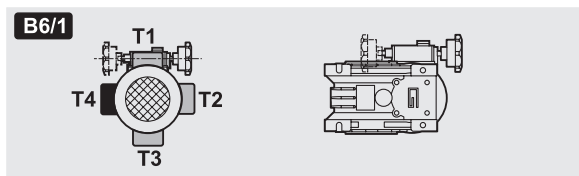
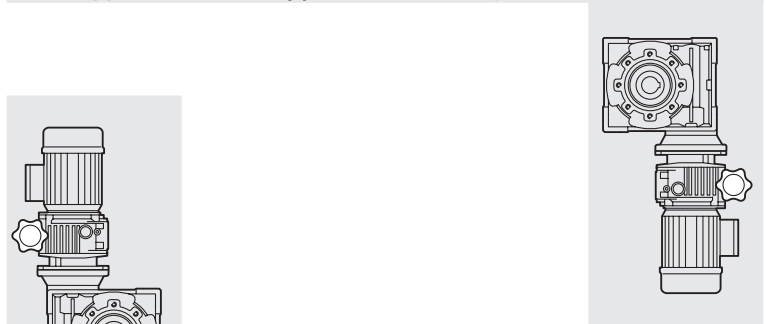
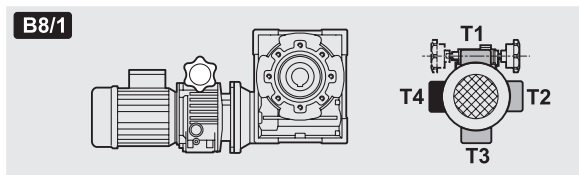
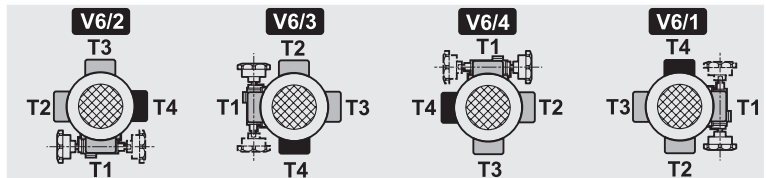
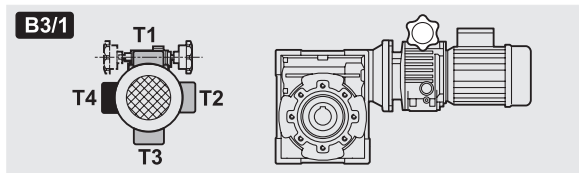
	Quantità di olio (litri) / Oil quantity (liters)					
	B3	B8	B6	B7	V5	V6
CM040	0.07					
CM050	0.1					
CM063	0.25					
CM075	0.3					
CM090	0.85					
CM110	1.5					
CM130	4.5	3.3	3.5	3.5	4.5	3.3

Lubrificati a vita  
Life lubricated

	Quantità di olio (litri) / Oil quantity (liters)					
	VAM					
	018	037	075	15	22	40
B3 - B6 - B7 - B8	0.15	0.2	0.35	0.8	1.2	1.2
V5 - V6	0.2	0.3	0.45	1.0	1.2	1.2

**Posizioni di montaggio**

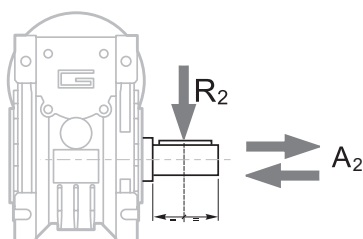
**Mounting positions**





**Carichi radiali**

**Radial loads**

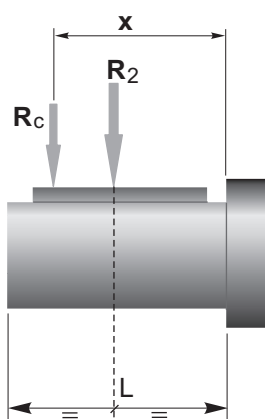


$$A_2 = R_2 \times 0.2$$

n <sub>2</sub> [min <sup>-1</sup> ]	R <sub>2</sub> [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
14	3000	4200	5800	6700	7500	12000	13600

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

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



	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 <sub>2MAX</sub>	3000	4200	5800	6700	7500	12000	13600

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

$$R \leq R_c$$

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



Dati tecnici

Technical data

P <sub>1</sub> [kW]	velocità massima max speed			velocità minima min speed			i	
	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf		

P <sub>1</sub> [kW]	velocità massima max speed			velocità minima min speed			i	
	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf		

0.22

63C4 n <sub>1</sub> =1400 [min <sup>-1</sup> ]	176	8	5.6	34.0	15	5.2	5	CMV 040/018
	117	12	4.3	22.7	22	3.8	7.5	
	88.0	16	3.3	17.0	29	2.9	10	
	58.7	22	2.5	11.3	39	2.2	15	
	44.0	28	1.6	8.5	51	1.5	20	
	35.2	33	1.3	6.8	61	1.1	25	
	29.3	38	1.5	5.7	65	1.4	30	
	22.0	46	1.1	4.3	79	0.9	40	
	17.6	54	0.8	3.4	89	0.8	50	
	22.0	47	1.8	4.3	81	1.7	40	
17.6	56	1.4	3.4	91	1.4	50		
14.7	63	1.2	2.8	100	1.1	60		
11.0	73	0.9	2.1	116	0.8	80		
8.8	82	0.8	1.7	129	0.7	100	CMV 063/018	
14.7	66	2.1	2.8	105	2.0	60		
11.0	79	1.6	2.1	122	1.5	80		
8.8	89	1.4	1.7	133	1.2	100		

0.37

71B4 n <sub>1</sub> =1400 [min <sup>-1</sup> ]	66.7	36	2.7	13.3	65	2.5	15	CMV 050/037	
	50.0	45	1.8	10.0	82	1.7	20		
	40.0	54	1.4	8.0	96	1.3	25		
	33.3	61	1.6	6.7	104	1.6	30		
	25.0	74	1.1	5.0	127	1.1	40		
	20.0	89	0.9	4.0	144	0.9	50		
	16.7	99	0.8	3.3	158	0.7	60		
	25.0	78	2.1	5.0	130	2.0	40		CMV 063/037
	20.0	92	1.6	4.0	150	1.5	50		
	16.7	104	1.4	3.3	166	1.3	60		
12.5	125	1.0	2.5	192	1.0	80			
10.0	141	0.9	2.0	210	0.8	100	CMV 075/037		
16.7	110	2.1	3.3	176	2.0	60			
12.5	132	1.6	2.5	206	1.5	80			
10.0	150	1.3	2.0	228	1.2	100			
10.0	165	1.9	2.0	252	1.7	100	CMV 090/037		

0.37

63C2 n <sub>1</sub> =2800 [min <sup>-1</sup> ]	352	7	5.5	68.0	16	3.8	5	CMV 040/018	
	235	11	4.0	45.3	23	2.8	7.5		
	176	14	3.2	34.0	30	2.2	10		
	117	21	2.2	22.7	42	1.6	15		
	88.0	27	1.5	17.0	53	1.1	20		
	70.4	31	1.2	13.6	63	0.8	25		
	58.7	36	1.3	11.3	72	1.0	30		
	44.0	44	1.0	8.5	88	0.7	40		
	88.0	27	2.7	17.0	54	1.9	20		CMV 050/018
	70.4	32	2.2	13.6	64	1.4	25		
58.7	37	2.4	11.3	74	1.7	30			
44.0	46	1.7	8.5	90	1.2	40			
35.2	54	1.3	6.8	105	1.0	50	CMV 063/018		
29.3	61	1.1	5.7	116	0.8	60			
35.2	56	2.4	6.8	108	1.8	50			
29.3	64	2.0	5.7	121	1.5	60			
22.0	78	1.5	4.3	143	1.1	80			
17.6	88	1.3	3.4	160	0.9	100			

0.55

71B2 n <sub>1</sub> =2800 [min <sup>-1</sup> ]	400	10	3.6	80.0	25	2.4	5	CMV 040/037	
	267	14	2.6	53.3	37	1.8	7.5		
	200	19	2.1	40.0	47	1.4	10		
	133	27	1.5	26.7	66	1.0	15		
	100	35	1.0	20.0	84	0.7	20		
	267	15	4.7	53.3	37	3.2	7.5		CMV 050/037
	200	19	3.8	40.0	48	2.5	10		
	133	28	2.6	26.7	68	1.7	15		
	100	36	1.8	20.0	85	1.2	20		
	80.0	43	1.4	16.0	101	0.9	25		CMV 063/037
66.7	49	1.6	13.3	117	1.1	30			
50.0	62	1.1	10.0	142	0.8	40			
100	36	3.3	20.0	88	2.1	20			
80.0	44	2.6	16.0	105	1.6	25	CMV 075/037		
66.7	51	2.9	13.3	115	2.0	30			
50.0	64	2.0	10.0	144	1.4	40			
40.0	76	1.6	8.0	171	1.1	50			
33.3	87	1.3	6.7	191	0.9	60	CMV 090/037		
25.0	107	1.0	5.0	226	0.7	80			
50.0	66	3.2	10.0	156	2.2	40			
40.0	78	2.4	8.0	183	1.7	50			
33.3	91	2.0	6.7	205	1.4	60	CMV 075/037		
25.0	113	1.5	5.0	240	1.0	80			
20.0	130	1.2	4.0	270	0.8	100			
33.3	95	3.1	6.7	212	2.2	60		CMV 090/037	
25.0	118	2.3	5.0	254	1.6	80			
20.0	139	1.8	4.0	288	1.3	100			





**Dati tecnici**

**Technical data**

P <sub>1</sub> [kW]	velocità massima max speed			velocità minima min speed			i	
	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf		

P <sub>1</sub> [kW]	velocità massima max speed			velocità minima min speed			i	
	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf		

**0.75**

80B4 n <sub>1</sub> =1400 [min <sup>-1</sup> ]	<b>133</b>	38	2.4	<b>26.7</b>	71	2.2	7.5	<b>CMV 050/075</b>	
	<b>100</b>	50	1.9	<b>20.0</b>	91	1.7	10		
	<b>66.7</b>	71	1.3	<b>13.3</b>	130	1.2	15		
		<b>50.0</b>	90	0.9	<b>10.0</b>	163	0.8	20	
		<b>40.0</b>	108	0.7	<b>8.0</b>	192	0.6	25	
		<b>33.3</b>	122	0.8	<b>6.7</b>	209	0.8	30	
		<b>66.7</b>	73	2.4	<b>13.3</b>	128	2.4	15	<b>CMV 063/075</b>
		<b>50.0</b>	94	1.6	<b>10.0</b>	161	1.6	20	
		<b>40.0</b>	113	1.2	<b>8.0</b>	189	1.2	25	
		<b>33.3</b>	126	1.5	<b>6.7</b>	216	1.4	30	
		<b>25.0</b>	156	1.0	<b>5.0</b>	259	1.0	40	
		<b>20.0</b>	183	0.8	<b>4.0</b>	300	0.8	50	
	<b>40.0</b>	110	2.1	<b>8.0</b>	198	1.9	25	<b>CMV 075/075</b>	
	<b>33.3</b>	122	2.5	<b>6.7</b>	227	2.3	30		
	<b>25.0</b>	154	1.7	<b>5.0</b>	274	1.6	40		
	<b>20.0</b>	192	1.3	<b>4.0</b>	318	1.2	50		
	<b>16.7</b>	220	1.1	<b>3.3</b>	353	1.0	60		
	<b>12.5</b>	264	0.8	<b>2.5</b>	413	0.7	80		
	<b>25.0</b>	173	2.7	<b>5.0</b>	293	2.6	40	<b>CMV 090/075</b>	
	<b>20.0</b>	204	2.0	<b>4.0</b>	342	1.9	50		
	<b>16.7</b>	234	1.6	<b>3.3</b>	382	1.5	60		
	<b>12.5</b>	288	1.2	<b>2.5</b>	451	1.1	80		
	<b>10.0</b>	330	1.0	<b>2.0</b>	504	0.9	100		
	<b>12.5</b>	302	2.0	<b>2.5</b>	490	1.8	80	<b>CMV 110/075</b>	
	<b>10.0</b>	354	1.6	<b>2.0</b>	552	1.4	100		

**1.1**

90S4 n <sub>1</sub> =1400 [min <sup>-1</sup> ]	<b>133</b>	58	2.9	<b>26.7</b>	108	2.7	7.5	<b>CMV 063/15</b>	
	<b>100</b>	76	2.3	<b>20.0</b>	139	2.1	10		
	<b>66.7</b>	109	1.6	<b>13.3</b>	192	1.6	15		
		<b>50.0</b>	140	1.1	<b>10.0</b>	241	1.1	20	
		<b>40.0</b>	169	0.8	<b>8.0</b>	284	0.8	25	
		<b>33.3</b>	189	1.0	<b>6.7</b>	324	1.0	30	
		<b>50.0</b>	144	1.8	<b>10.0</b>	248	1.7	20	<b>CMV 075/15</b>
		<b>40.0</b>	173	1.3	<b>8.0</b>	297	1.3	25	
		<b>33.3</b>	197	1.6	<b>6.7</b>	340	1.5	30	
		<b>25.0</b>	245	1.1	<b>5.0</b>	410	1.1	40	
		<b>25.0</b>	259	1.8	<b>5.0</b>	439	1.7	40	<b>CMV 090/15</b>
		<b>20.0</b>	306	1.4	<b>4.0</b>	513	1.2	50	
	<b>16.7</b>	351	1.1	<b>3.3</b>	572	1.0	60		
	<b>16.7</b>	367	1.9	<b>3.3</b>	616	1.6	60	<b>CMV 110/15</b>	
	<b>12.5</b>	454	1.3	<b>2.5</b>	734	1.2	80		
	<b>10.0</b>	531	1.0	<b>2.0</b>	828	0.9	100		

**1.5**

90L4 n <sub>1</sub> =1400 [min <sup>-1</sup> ]	<b>133</b>	77	2.2	<b>26.7</b>	144	2.0	7.5	<b>CMV 063/15</b>	
	<b>100</b>	101	1.7	<b>20.0</b>	185	1.6	10		
	<b>66.7</b>	146	1.2	<b>13.3</b>	256	1.2	15		
		<b>50.0</b>	187	0.8	<b>10.0</b>	322	0.8	20	
		<b>133</b>	78	3.3	<b>26.7</b>	146	3.1	7.5	<b>CMV 075/15</b>
		<b>100</b>	102	2.7	<b>20.0</b>	187	2.5	10	
		<b>66.7</b>	149	2.0	<b>13.3</b>	263	1.9	15	
		<b>50.0</b>	192	1.3	<b>10.0</b>	331	1.3	20	
		<b>40.0</b>	231	1.0	<b>8.0</b>	396	1.0	25	
		<b>33.3</b>	263	1.2	<b>6.7</b>	454	1.1	30	
		<b>25.0</b>	326	0.8	<b>5.0</b>	547	0.8	40	
		<b>133</b>	79	4.9	<b>26.7</b>	149	4.4	7.5	<b>CMV 090/15</b>
	<b>100</b>	104	4.0	<b>20.0</b>	192	3.6	10		
	<b>66.7</b>	151	3.1	<b>13.3</b>	270	3.0	15		
	<b>50.0</b>	197	2.2	<b>10.0</b>	346	2.2	20		
	<b>40.0</b>	240	1.6	<b>8.0</b>	414	1.6	25		
	<b>33.3</b>	274	1.9	<b>6.7</b>	475	1.8	30		
	<b>25.0</b>	346	1.3	<b>5.0</b>	586	1.3	40		
	<b>20.0</b>	408	1.0	<b>4.0</b>	684	0.9	50		
	<b>16.7</b>	468	0.8	<b>3.3</b>	763	0.8	60		
	<b>40.0</b>	243	2.9	<b>8.0</b>	432	2.8	25	<b>CMV 110/15</b>	
	<b>33.3</b>	270	3.2	<b>6.7</b>	482	3.1	30		
	<b>25.0</b>	350	2.4	<b>5.0</b>	624	2.1	40		
	<b>20.0</b>	426	1.8	<b>4.0</b>	732	1.6	50		
	<b>16.7</b>	490	1.4	<b>3.3</b>	821	1.2	60		
	<b>12.5</b>	586	1.0	<b>2.5</b>	979	0.9	80		
	<b>10.0</b>	710	0.8	<b>2.0</b>	1104	0.7	100		
	<b>20.0</b>	438	2.4	<b>4.0</b>	732	2.0	50	<b>CMV 130/15</b>	
	<b>16.7</b>	504	1.9	<b>3.3</b>	821	1.7	60		
	<b>12.5</b>	614	1.4	<b>2.5</b>	979	1.2	80		
	<b>10.0</b>	708	1.1	<b>2.0</b>	1152	1.0	100		

**1.1**

80B2 n <sub>1</sub> =2800 [min <sup>-1</sup> ]	<b>267</b>	29	2.3	<b>53.3</b>	75	1.6	7.5	<b>CMV 050/075</b>	
	<b>200</b>	38	1.9	<b>40.0</b>	96	1.3	10		
	<b>133</b>	55	1.3	<b>26.7</b>	135	0.9	15		
		<b>267</b>	29	4.2	<b>53.3</b>	76	2.8	7.5	<b>CMV 063/075</b>
		<b>200</b>	38	3.4	<b>40.0</b>	98	2.2	10	
		<b>133</b>	56	2.4	<b>26.7</b>	139	1.6	15	
		<b>100</b>	72	1.6	<b>20.0</b>	175	1.1	20	
		<b>80.0</b>	88	1.3	<b>16.0</b>	210	0.8	25	
		<b>66.7</b>	102	1.4	<b>13.3</b>	230	1.0	30	
		<b>50.0</b>	128	1.0	<b>10.0</b>	288	0.7	40	
		<b>100</b>	74	2.7	<b>20.0</b>	180	1.7	20	<b>CMV 075/075</b>
		<b>80.0</b>	90	2.0	<b>16.0</b>	216	1.3	25	
	<b>66.7</b>	104	2.3	<b>13.3</b>	252	1.5	30		
	<b>50.0</b>	132	1.6	<b>10.0</b>	312	1.1	40		
	<b>40.0</b>	158	1.2	<b>8.0</b>	366	0.8	50		
	<b>33.3</b>	182	1.0	<b>6.7</b>	410	0.7	60		
	<b>66.7</b>	107	3.8	<b>13.3</b>	252	2.5	30	<b>CMV 090/075</b>	
	<b>50.0</b>	137	2.6	<b>10.0</b>	317	1.8	40		
	<b>40.0</b>	165	1.9	<b>8.0</b>	366	1.4	50		
	<b>33.3</b>	190	1.5	<b>6.7</b>	425	1.1	60		
	<b>25.0</b>	236	1.1	<b>5.0</b>	509	0.8	80		
	<b>20.0</b>	277	0.9	<b>4.0</b>	576	0.6	100		
	<b>40.0</b>	169	3.4	<b>8.0</b>	390	2.3	50	<b>CMV 110/075</b>	
	<b>33.3</b>	198	2.6	<b>6.7</b>	446	1.8	60		
	<b>25.0</b>	246	1.9	<b>5.0</b>	547	1.3	80		
	<b>20.0</b>	290	1.5	<b>4.0</b>	624	1.0	100		



Dati tecnici

Technical data

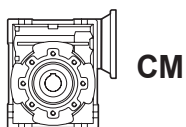
P <sub>1</sub> [kW]	velocità massima max speed			velocità minima min speed			i		P <sub>1</sub> [kW]	velocità massima max speed			velocità minima min speed			i						
	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf				n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf	n <sub>2</sub> [min <sup>-1</sup> ]	M <sub>2</sub> [Nm]	sf							
<b>2.2</b>									<b>3</b>													
90L2 n <sub>1</sub> =2800 [min <sup>-1</sup> ]	267	60	2.0	53.3	151	1.4	7.5	CMV 063/15	100LB4 n <sub>1</sub> =1400 [min <sup>-1</sup> ]	133	157	1.7	26.7	292	1.5	7.5	CMV 075/40					
	200	78	1.6	40.0	197	1.1	10			100	204	1.3	20.0	374	1.3	10						
	133	115	1.2	26.7	277	0.8	15			66.7	299	1.0	13.3	526	0.9	15						
	267	60	3.1	53.3	151	2.1	7.5	CMV 075/15		133	158	2.4	26.7	299	2.2	7.5	CMV 090/40					
		200	79	2.6	40.0	199	1.7				10	100	209	2.0	20.0	384		1.8	10			
		133	115	1.9	26.7	284	1.2				15	66.7	302	1.6	13.3	540		1.5	15			
		100	151	1.3	20.0	360	0.9				20	50.0	394	1.1	10.0	691		1.1	20			
		80.0	185	1.0	16.0	432	0.6				25	40.0	480	0.8	8.0	828		0.8	25			
		66.7	213	1.1	13.3	504	0.7				30	33.3	547	1.0	6.7	950		0.9	30			
	267	61	4.5	53.3	153	3.1	7.5	CMV 090/15		66.7	317	2.5	13.3	598	1.9	15	CMV 110/40					
		200	80	3.8	40.0	202	2.5				10	50.0	418	1.8	10.0	778		1.6	20			
		133	117	3.0	26.7	292	1.9				15	40.0	504	1.4	8.0	912		1.5	25			
100		153	2.2	20.0	374	1.4	20		33.3		598	1.5	6.7	1080	1.2	30						
80.0		189	1.6	16.0	450	1.0	25		25.0		787	1.1	5.0	1382	0.9	40						
66.7		219	1.8	13.3	504	1.3	30		20.0		936	0.8	4.0	1608	0.9	50						
50.0		281	1.3	10.0	634	0.9	40		16.7		1080	0.6	3.3	1872	0.7	60						
40.0		338	0.9	8.0	732	0.7	50		40.0		486	2.2	8.0	876	1.7	25		CMV 130/40				
80.0		191	2.8	16.0	462	1.8	25				33.3	554	2.1	6.7	950	1.8			30			
66.7		219	3.1	13.3	518	2.0	30				25.0	710	1.5	5.0	1210	1.3			40			
50.0		288	2.2	10.0	662	1.5	40				20.0	876	1.2	4.0	1464	1.0			50			
40.0		347	1.7	8.0	780	1.2	50				16.7	1008	1.0	3.3	1642	0.9			60			
33.3	405	1.3	6.7	893	0.9	60	12.5	1229		0.7	2.5	1958	0.6	80								
50.0	281	3.1	10.0	653	1.9	40	CMV 130/15	512M4 n <sub>1</sub> =1400 [min <sup>-1</sup> ]	133	211	1.8	26.7	398	1.7	7.5	CMV 090/40						
	40.0	347	2.4	8.0	804	1.5			50	100	278	1.5	20.0	512	1.4		10					
	33.3	405	1.9	6.7	922	1.2			60	66.7	403	1.2	13.3	720	1.1		15					
	25.0	504	1.4	5.0	1114	0.9			80	50.0	525	0.8	10.0	922	0.8		20					
	20.0	603	1.0	4.0	1272	0.7			100	100	275	2.7	20.0	518	2.4		10	CMV 110/40				
	100LA4 n <sub>1</sub> =1400 [min <sup>-1</sup> ]	133	117	2.2	26.7	219			2.0		7.5	CMV 075/22	66.7	398	2.0		13.3		739	1.8	15	
		100	153	1.8	20.0	281			1.7		10		50.0	525	1.4		10.0		973	1.3	20	
		66.7	224	1.3	13.3	394			1.2		15		40.0	648	1.1		8.0		1184	1.0	25	
		133	119	3.2	26.7	224			2.9		7.5		CMV 090/22	33.3	720		1.2		6.7	1248	1.2	30
			100	157	2.7	20.0			288		2.4			10	25.0		960		0.9	5.0	1664	0.8
			66.7	227	2.1	13.3			405	2.0	15			40.0	648		1.6	8.0	1168	1.3	25	CMV 130/40
			50.0	295	1.5	10.0			518	1.4	20				33.3		739	1.6	6.7	1267	1.3	
40.0			360	1.1	8.0	621	1.1	25	25.0	947	1.2				5.0	1613	1.0	40				
33.3			410	1.3	6.7	713	1.2	30	20.0	1168	0.9				4.0	1952	0.8	50				
133		119	5.7	26.7	224	5.1	7.5	CMV 110/22	16.7	1344	0.7		3.3		2189	0.6	60					
		100	157	4.7	20.0	292	4.3		10	33.3	416		2.8		6.7	713	2.4	30	CMV 130/22			
		66.7	227	3.5	13.3	410	3.3		15		25.0		533	2.1	5.0	907	1.8	40				
	50.0	299	2.5	10.0	540	2.4	20		20.0		657	1.6	4.0	1098	1.4	50						
	40.0	369	1.9	8.0	648	1.9	25		16.7		756	1.3	3.3	1231	1.1	60						
	33.3	421	2.1	6.7	724	2.0	30		12.5		922	1.0	2.5	1469	0.8	80						
25.0	540	1.5	5.0	936	1.4	40																
20.0	639	1.2	4.0	1098	1.1	50																
16.7	734	0.9	3.3	1231	0.8	60																





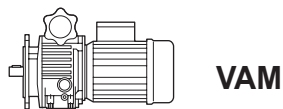
**Dimensioni**

**Dimensions**



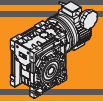
CM.. - CM..F - CM..FB - CM..FL																									
	A	C	D <sub>H8</sub>	E	F	G	G1	H	I	L	M	N <sub>h8</sub>	N1	O	P	Q	R	S	T	V	K	KE	a	b	t
<b>040</b>	70	100	18 (19)	121.5	43	70	78	50	40	71	75	60	36.5	6.5	87	55	71.5	6.5	26	35	60	M6x8 (n.4)	45°	6	20.8 (21.8)
<b>050</b>	80	120	25 (24)	144	49	80	92	60	50	85	85	70	43.5	8.5	100	64	84	7	30	40	70	M8x10 (n.4)	45°	8	28.3 (27.3)
<b>063</b>	100	144	25	174	67	95	112	72	63	103	95	80	53	8.5	110	80	102	8	36	50	85	M8x10 (n.8)	45°	8	28.3
<b>075</b>	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
<b>090</b>	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
<b>110</b>	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
<b>130</b>	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 <sub>H8</sub>	KO	KP	KQ	KA	KB	KC	KM	KN <sub>H8</sub>	KO	KP	KA	KB	KC	KM	KN <sub>H8</sub>	KO	KP	KQ
<b>040</b>	45°	67	7.5	4	80-95	60	9(n.4)	110	95	80	8.5	5	115-125	95	9.5(n.4)	140	97	7.5	4.5	80-95	60	10(n.4)	110	95
<b>050</b>	45°	90	9	5	90-110	70	11(n.4)	125	110	89	9	5	130-145	110	9.5(n.4)	160	120	9	5	90-110	70	11(n.4)	125	110
<b>063</b>	45°	82	10	6	150-160	115	11(n.4)	180	142	98	10	5	165-180	130	11(n.4)	200	112	10	6	150-160	115	11(n.4)	180	142
<b>075</b>	45°	111	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>090</b>	45°	111	13	6	175-190	152	14(n.4)	210	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>110</b>	45°	131	15	6	230	170	14(n.8)	280	260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>130</b>	45°	140	15	6	255	180	16(n.8)	320	290	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



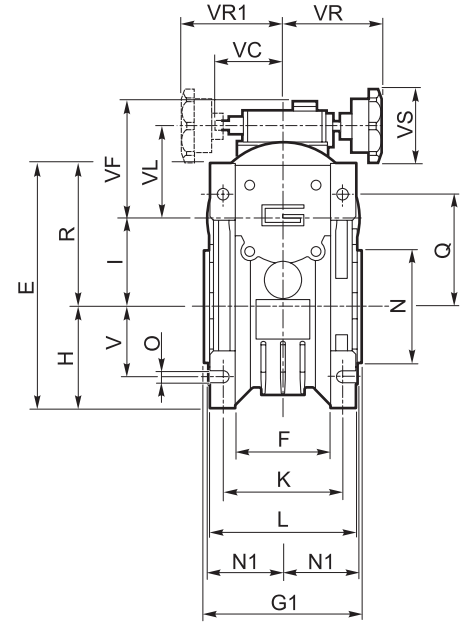
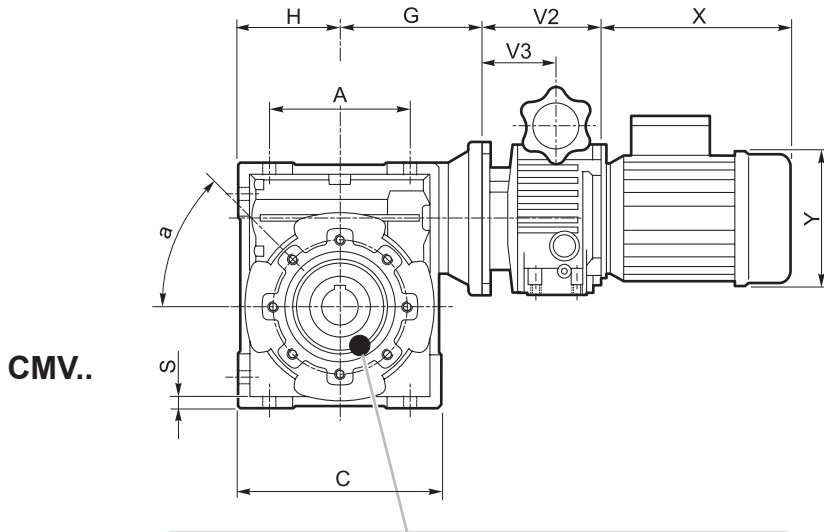
VAM								
	V2	V3	VC	VF	VL	VR	VR1	VS
<b>018</b>	112.5	64.5	71	111	78	110	110	85
<b>037</b>	110	74	71	123	90	110	110	85
<b>075</b>	139	85.5	79	140	107	120	120	85
<b>15</b>	188	115	—	144	122	120	120	85
<b>22</b>	208	131	—	188	150	160	—	110
<b>40</b>	208	131	—	188	150	160	—	110



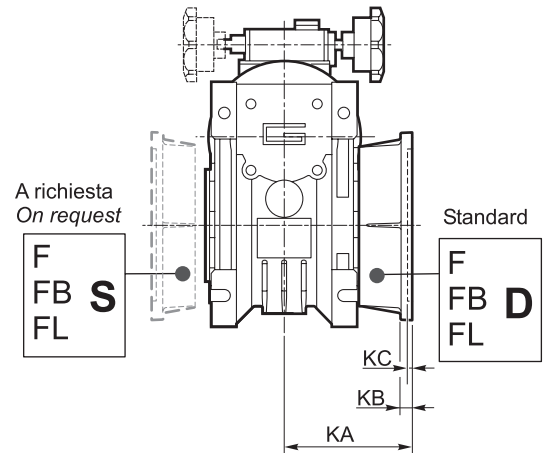
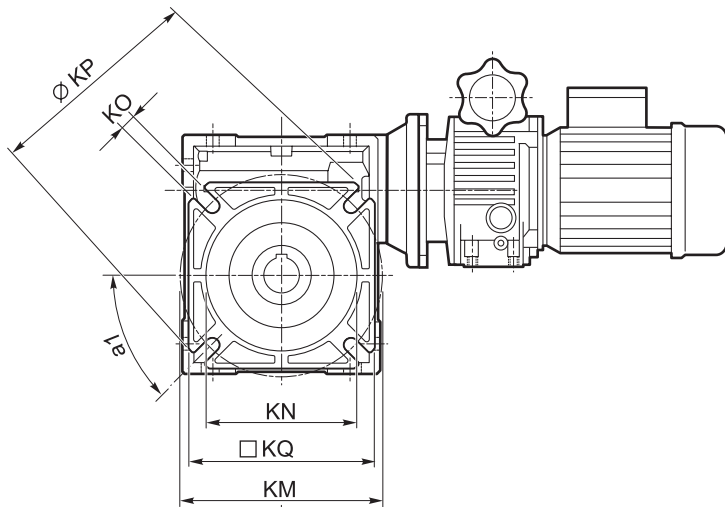
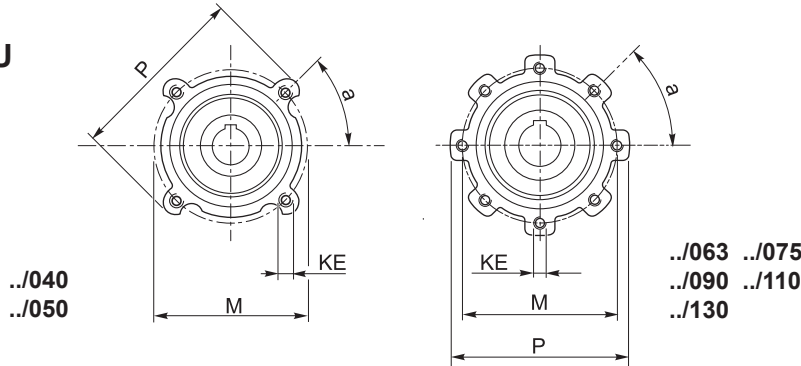


Dimensioni

Dimensions

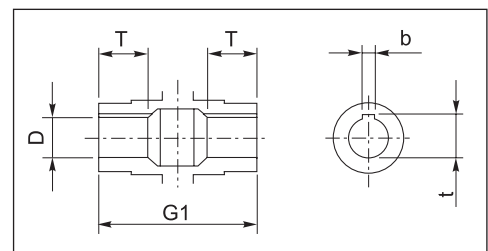
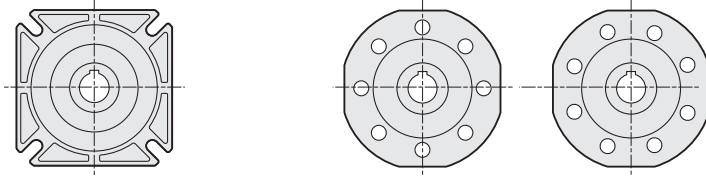


CMV..U



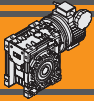
CMV..F (../040 - ../090)  
CMV..FB (../040 - ../063)  
CMV..FL (../040 - ../063)

CMV..F (../110, ../130)



Albero lento cavo / Hollow output shaft





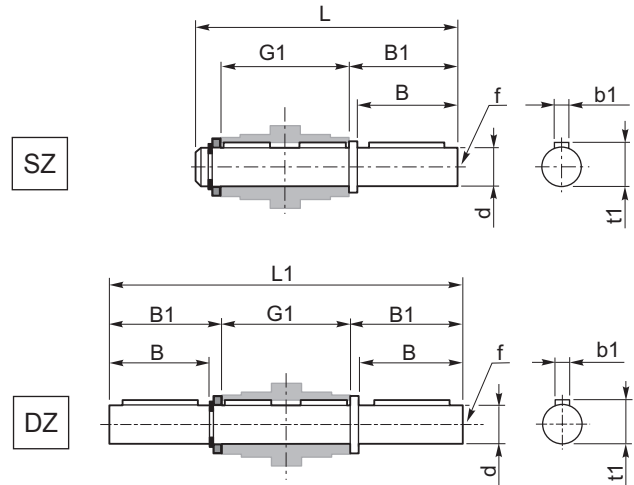
**Accessori**

**Accessories**

**Albero lento semplice e doppio**

**Single and double output shaft**

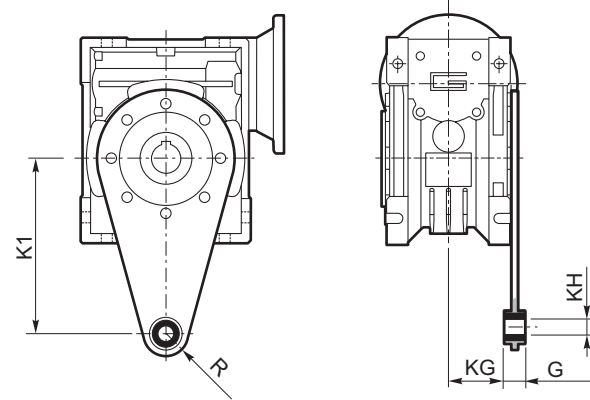
	d <sub>h7</sub>	B	B1	G1	L	L1	f	b1	t1
CM 040	18	40	43	78	128	164	M6	6	20.5
CM 050	25	50	53.5	92	153	199	M10	8	28
CM 063	25	50	53.5	112	173	219	M10	8	28
CM 075	28	60	63.5	120	192	247	M10	8	31
CM 090	35	80	84.5	140	234	309	M12	10	38
CM 110	42	80	84.5	155	249	324	M16	12	45
CM 130	45	80	85	170	265	340	M16	14	48.5



**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

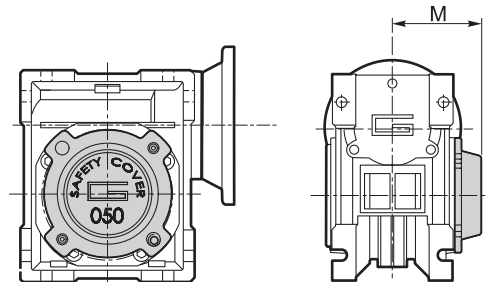
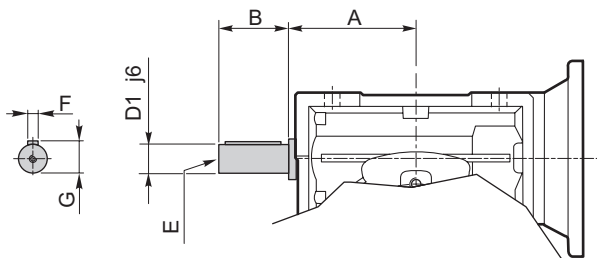


**Opzioni**

**Options**

**VS - Vite sporgente / Extended input shaft**

**SC - Safety cover**



	A	B	D <sub>1</sub> <sub>j6</sub>	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
CM 110	—	—	—	—	—	—
CM 130	—	—	—	—	—	—

	M
CM 040	54.5
CM 050	62.5
CM 063	73
CM 075	79
CM 090	94
CM 110	102
CM 130	117