RIDUTTORI A VITE SENZA FINE CM
WORMGEARBOXES CM

D

Indice	*Index*	Pag. *Page*
Caratteristiche tecniche	*Technical characteristics*	**D2**
Designazione	*Designation*	**D2**
Versioni	*Versions*	**D2**
Simbologia	*Symbols*	**D2**
Dati di dentatura	*Toothing data*	**D3**
Rendimento	*Efficiency*	**D3**
Posizioni di montaggio	*Mounting positions*	**D4**
Carichi radiali	*Radial loads*	**D4**
Dati tecnici	*Technical data*	**D5**
Motori applicabili	*IEC Motor adapters*	**D10**
Dimensioni	*Dimensions*	**D11**
Accessori	*Accessories*	**D22**
Opzioni	*Options*	**D22**

Caratteristiche tecniche — *Technical characteristics*

I riduttori a vite senza fine della serie CM proposti da **TRANSTECNO** hanno le seguenti caratteristiche principali:

- Le grandezze 030, 040, 050, 063, 075 e 090 sono costruite con carcassa in Alluminio, le altre grandezze in ghisa.
- I riduttori dal CM030 al CM075 sono forniti completi di lubrificante sintetico long-life AGIP TELIUM VSF320.
  Il CM090 è fornito completo di lubrificante minerale long-life AGIP BLASIA 460.
  I CM110 e CM130 sono forniti completi di lubrificante minerale AGIP BLASIA 460: effettuare la sostituzione dopo circa 10000 ore di funzionamento.
- Le grandezze 075, 090, 110 e 130 sono fornite con cuscinetti a rulli conici sulla vite.

*CM wormgearboxes offered by **TRANSTECNO** have the following characteristics:*

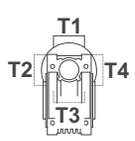
- *The frames 030, 040, 050, 063, 075 and 090 are constructed with the Aluminum body, larger sizes are made of cast iron.*
- *Unit sizes CM030 up to CM075 are filled with long-life synthetic lubricant AGIP TELIUM VSF320.*
  Unit size CM090 is filled with long-life mineral lubricant AGIP BLASIA 460.
  Unit sizes CM110 and CM130 are filled with mineral lubricant AGIP BLASIA 460: replace the oil after approximately 10000 hours running.
- *The frames 075, 090, 110 and 130 are supplied with tapered roller bearings on the worm.*

Designazione — *Designation*

RIDUTTORE / *GEARBOX*

CM	050	FD	20	P71	B5	B3	—
Tipo *Type*	Grandezza *Size*	Versione *Version*	Rapporto *Ratio*	IEC	Forma costruttiva *Version*	Pos. di montaggio *Mounting position*	Opzioni *Options*
CM 	**030**	**U**	vedi tabelle *see tables*	**56..**	**B5**	**B3**	**VS**
	040	**FD**		**—**	**B14**	**B6**	**PC**
	050	**FS**		**132..**		**B7**	
	063	**FBD**				**B8**	
	075	**FBS**				**V5**	
CMIS 	**090**	**FLD**				**V6**	
	110	**FLS**					
	130						

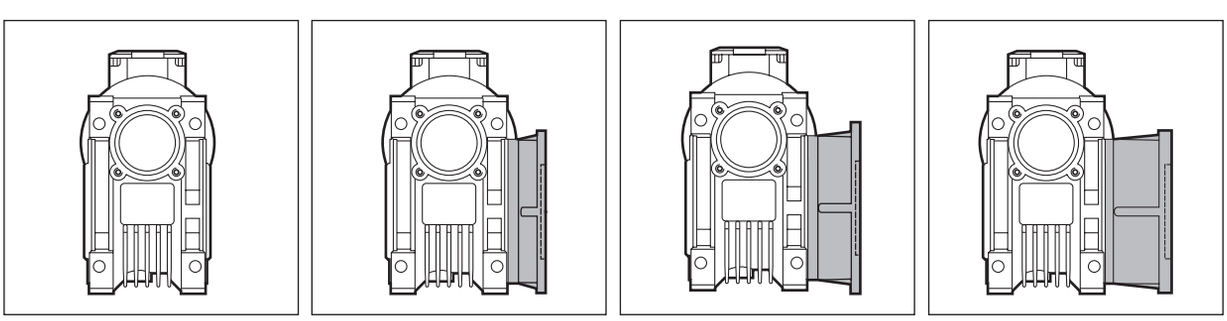
MOTORE / *MOTOR*

71B4	B5	230/400	50Hz	T1
Grandezza *Size*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*
56..	**B5**		**50Hz**	**T1**
—	**B14**		**60Hz**	**T2**
132..				**T3**
		—		**T4**
				

Versioni — *Versions*

I riduttori CM sono disponibili in quattro versioni:

CM gear units are available in four different versions:



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

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*
M_2	[Nm]	Coppia in uscita in funzione di P_1 / *Output torque referred to P_1*

sf		Fattore di servizio / *Service factor*
Rd	%	Rendimento dinamico / *Dynamic efficiency*
Rs	%	Rendimento statico / *Static efficiency*
R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
Z		Numero di principi della vite / *Worm starts*
β		Angolo d'elica / *Helix angle*

Dati di dentatura — *Toothing data*

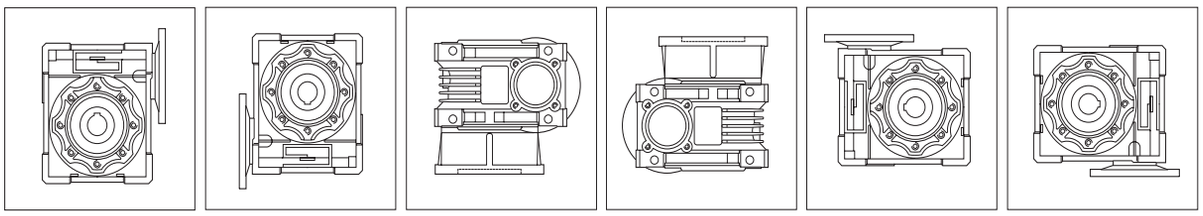
	Dati della coppia vite-corona *Worm wheel data*	Rapporto / *Ratio*										
		7.5	**10**	**15**	**20**	**25**	**30**	**40**	**50**	**60**	**80**	**100**
CM030	**Mx**	1.44	1.44	1.44	1.1	1.7	1.44	1.1	0.89	0.74	0.56	
	Z	4	3	2	2	1	1	1	1	1	1	
	β	18°55'	14°25'	9°44'	7°49'	5°33'	4°54'	3°55'	3°17'	2°43'	2°07'	
CM040	**Mx**	2.05	2.05	2.05	1.56	1.27	2.05	1.56	1.27	1.06	0.8	0.65
	Z	4	3	2	2	2	1	1	1	1	1	1
	β	23°54'	18°23'	12°30'	10°03'	8°45'	6°19'	5°04'	4°24'	3°42'	2°52'	2°29'
CM050	**Mx**	2.56	2.56	2.56	1.95	1.58	2.56	1.95	1.58	1.32	1	0.8
	Z	4	3	2	2	2	1	1	1	1	1	1
	β	23°49'	18°19'	12°27'	10°03'	8°33'	6°18'	5°04'	4°18'	3°38'	2°52'	2°17'
CM063	**Mx**	3.25	3.25	3.25	2.48	2	3.25	2.48	2	1.68	1.27	1.02
	Z	4	3	2	2	2	1	1	1	1	1	1
	β	24°31'	18°53'	12°51'	10°29'	8°45'	6°30'	5°17'	4°24'	3°49'	2°59'	2°26'
CM075	**Mx**	3.95	3.95	3.95	3	2.42	3.95	3	2.42	2.02	1.54	1.24
	Z	4	3	2	2	2	1	1	1	1	1	1
	β	26°38'	20°37'	14°05'	11°19'	9°29'	7°09'	5°43'	4°46'	4°01'	3°17'	2°44'
CM090	**Mx**	4.84	4.84	4.84	3.69	2.98	4.84	3.69	2.98	2.5	1.89	1.52
	Z	4	3	2	2	2	1	1	1	1	1	1
	β	29°05'	22°39'	15°33'	12°50'	10°53'	7°55'	6°30'	5°29'	4°46'	3°45'	3°06'
CM110	**Mx**	5.875	5.875	5.875	4.62	3.73	5.875	4.62	3.73	3.13	2.37	1.91
	Z	4	3	2	2	2	1	1	1	1	1	1
	β	28°15'	21°57'	15°02'	14°42'	12°33'	7°39'	7°29'	6°21'	5°33'	4°27'	3°39'
CM130	**Mx**	6.97	6.97	6.97	5.4	4.37	6.97	5.4	4.37	3.67	2.77	2.23
	Z	4	3	2	2	2	1	1	1	1	1	1
	β	28°43'	22°20'	15°19'	13°47'	11°54'	7°48'	7°00'	6°01'	5°16'	4°08'	3°27'

Rendimento — *Efficiency*

	n_1 [min^{-1}]	Rendimento *Efficiency*	Rapporto / *Ratio*										
			7.5	**10**	**15**	**20**	**25**	**30**	**40**	**50**	**60**	**80**	**100**
CM030	2800	Rd	86	85	80	78	74	70	65	62	56	50	
	1400		85	82	77	73	67	65	58	54	50	43	
	900		82	80	74	70	64	61	54	50	46	40	
		Rs	66	62	56	50	43	40	36	32	28	25	
CM040	2800	Rd	87	86	83	80	76	73	70	68	63	58	53
	1400		86	84	81	77	73	70	65	62	58	52	47
	900		85	82	78	74	70	66	62	58	54	47	43
		Rs	69	65	59	53	50	47	40	38	32	30	25
CM050	2800	Rd	89	87	84	82	79	76	73	68	65	59	53
	1400		86	84	81	78	75	71	67	63	58	52	47
	900		85	82	78	75	72	67	62	59	55	47	42
		Rs	69	66	58	53	50	46	40	36	34	28	24
CM063	2800	Rd	88	87	84	83	80	77	73	71	66	61	56
	1400		87	86	84	81	77	73	70	66	60	55	50
	900		86	83	80	77	75	70	67	62	57	51	47
		Rs	70	67	59	55	50	47	40	37	35	29	25
CM075	2800	Rd	89	88	86	83	81	78	76	72	70	64	60
	1400		88	86	83	81	78	75	71	67	63	58	53
	900		87	85	82	79	76	72	66	61	59	54	50
		Rs	70	68	60	56	53	47	41	38	35	29	26
CM090	2800	Rd	90	89	87	86	84	80	79	76	74	69	64
	1400		88	87	85	83	82	76	74	72	69	63	58
	900		87	85	83	80	78	73	71	68	64	59	54
		Rs	72	69	62	58	54	48	44	39	37	31	27
CM110	2800	Rd	90	89	88	87	86	81	80	78	76	71	68
	1400		89	87	85	84	83	77	76	74	72	67	62
	900		88	86	83	82	81	75	73	71	68	61	57
		Rs	72	69	62	61	58	48	46	42	39	34	30
CM130	2800	Rd	90	89	88	87	86	82	80	79	77	72	70
	1400		89	88	86	84	83	79	76	75	73	69	64
	900		88	87	84	82	81	77	74	73	70	64	59
		Rs	72	69	62	61	59	49	46	43	39	34	30

Posizioni di montaggio — *Mounting positions*

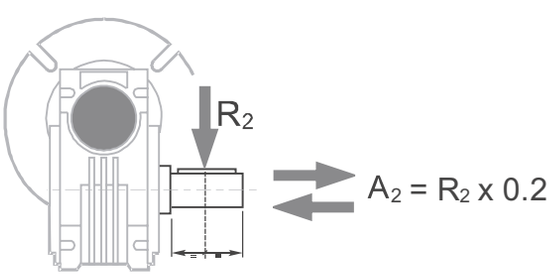
Posizioni di montaggio / *Mounting positions*



B3 (standard) | **B8** | **B6** | **B7** | **V5** | **V6**

	Quantità di olio (litri) / ***Oil quantity*** *(liters)*						
	B3	**B8**	**B6**	**B7**	**V5**	**V6**	
CM030	0.04						Lubrificati a vita *Life lubricated*
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	

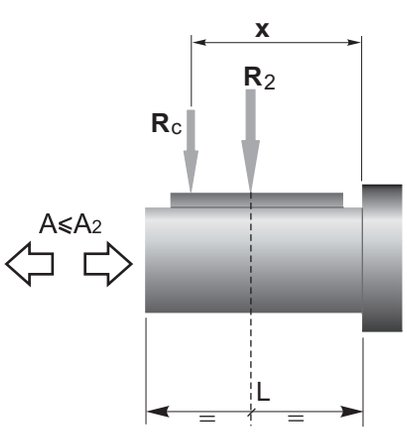
Carichi radiali — *Radial loads*



n_2 [min^{-1}]	R_2 [N]							
	CM030	**CM040**	**CM050**	**CM063**	**CM075**	**CM090**	**CM110**	**CM130**
187	674	1264	1770	2445	2824	3161	5058	5732
140	743	1392	1949	2692	3110	3481	5570	6313
93	851	1596	2234	3085	3564	3990	6384	7235
70	936	1754	2456	3392	3918	4386	7018	7953
56	1008	1890	2646	3654	4221	4725	7560	8567
47	1069	2004	2805	3874	4475	5009	8014	9083
35	1179	2210	3095	4273	4937	5526	8842	10021
28	1270	2381	3334	4603	5318	5953	9524	10794
23	1356	2542	3559	4915	5678	6356	10170	11526
18	1471	2759	3862	5334	6162	6897	11036	12507
14	1600	3000	4200	5800	6700	7500	12000	13600

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

	030	**040**	**050**	**063**	**075**	**090**	**110**	**130**
a	65	84	101	120	131	182	176	188
b	50	64	76	95	101	122	136	148
R_{2MAX}	1600	3000	4200	5800	6700	7500	12000	13600

Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.06						
56A4 (1400 min^{-1})	**187**	3	6.5	7.5	**CM030**	B5/B14
	140	3	5.1	10		B5/B14
	93	5	3.8	15		B5/B14
	70	6	3.0	20		B5/B14
	56	7	2.9	25		B5/B14
	47	8	2.5	30		B5/B14
	35	9	1.9	40		B5/B14
	28	11	1.6	50		B5/B14
	23	12	1.2	60		B5/B14
	18	14	0.9	80		B5/B14
	28	13	3.0	50	**CM040**	B5
	23	14	2.5	60		B5
	18	17	1.9	80		B5
	14	19	1.5	100		B5
0.09						
56A2 (2800 min^{-1})	**140**	5	2.5	20	**CM030**	B5/B14
	112	6	2.6	25		B5/B14
	93	6	2.3	30		B5/B14
	70	8	1.8	40		B5/B14
	56	10	1.3	50		B5/B14
	47	10	1.1	60		B5/B14
	35	12	0.9	80		B5/B14
56B4 (1400 min^{-1})	**187**	4	4.3	7.5	**CM030**	B5/B14
	140	5	3.4	10		B5/B14
	93	7	2.5	15		B5/B14
	70	9	2.0	20		B5/B14
	56	10	1.9	25		B5/B14
	47	12	1.7	30		B5/B14
	35	14	1.3	40		B5/B14
	28	17	1.1	50		B5/B14
	23	18	0.8	60		B5/B14
	18	21	0.6	80		
	28	19	2.0	50	**CM040**	B5
	23	21	1.7	60		B5
	18	26	1.3	80		B5
	14	29	1.0	100		B5
63A6 (900 min^{-1})	**120**	6	3.2	7.5	**CM030**	B5/B14
	90	8	2.5	10		B5/B14
	60	11	1.8	15		B5/B14
	45	13	1.4	20		B5/B14
	36	15	1.4	25		B5/B14
	30	17	1.3	30		B5/B14
	23	21	1.0	40		B5/B14
	45	14	3.1	20	**CM040**	B5/B14
	36	17	2.6	25		B5/B14
	30	19	2.5	30		B5/B14
	23	24	1.9	40		B5/B14
	18	28	1.5	50		B5/B14
	15	31	1.3	60		B5/B14
	11	36	1.0	80		B5/B14
	15	32	2.2	60	**CM050**	B5
	11	36	1.8	80		B5
	9	40	1.4	100		B5
0.12						
63A4 (1400 min^{-1})	**187**	5	3.3	7.5	**CM030**	B5/B14
	140	7	2.5	10		B5/B14
	93	9	1.9	15		B5/B14
	70	12	1.5	20		B5/B14
	56	14	1.5	25		B5/B14
	47	16	1.3	30		B5/B14
	35	19	0.9	40		B5/B14
	28	22	0.8	50		B5/B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.12						
63A4 (1400 min^{-1})	**187**	5	7.2	7.5	**CM040**	B5/B14
	140	7	5.5	10		B5/B14
	93	10	3.8	15		B5/B14
	70	13	3.1	20		B5/B14
	56	15	2.5	25		B5/B14
	47	17	2.6	30		B5/B14
	35	21	1.9	40		B5/B14
	28	25	1.5	50		B5/B14
	23	28	1.3	60		B5/B14
	18	34	1.0	80		B5/B14
	14	38	0.8	100		B5/B14
	35	22	3.5	40	**CM050**	B5
	28	26	2.8	50		B5
	23	28	2.3	60		B5
	18	34	1.8	80		B5
	14	38	1.4	100		B5
63B6 (900 min^{-1})	**120**	8	2.4	7.5	**CM030**	B5/B14
	90	10	1.9	10		B5/B14
	60	14	1.3	15		B5/B14
	45	18	1.1	20		B5/B14
	36	20	1.1	25		B5/B14
	60	15	3.0	15	**CM040**	B5/B14
	45	19	2.3	20		B5/B14
	36	22	2.0	25		B5/B14
	30	25	1.9	30		B5/B14
	23	32	1.4	40		B5/B14
	18	37	1.1	50		B5/B14
	30	26	3.4	30	**CM050**	B5
	23	32	2.5	40		B5
	18	38	2.0	50		B5
	15	42	1.7	60		B5
	11	48	1.4	80		B5
	9	53	1.0	100		B5
0.18						
63A2 (2800 min^{-1})	**373**	4	3.0	7.5	**CM030**	B5/B14
	280	5	2.3	10		B5/B14
	187	7	1.6	15		B5/B14
	140	10	1.3	20		B5/B14
	112	11	1.3	25		B5/B14
	93	13	1.2	30		B5/B14
	140	10	2.9	20	**CM040**	B5/B14
	112	12	2.4	25		B5/B14
	93	13	2.4	30		B5/B14
	70	17	1.9	40		B5/B14
	56	21	1.3	50		B5/B14
	47	23	1.2	60		B5/B14
	56	21	2.5	50	**CM050**	B5
	47	24	2.1	60		B5
	35	29	1.6	80		B5
	28	33	1.2	100		B5
63B4 (1400 min^{-1})	**187**	8	2.2	7.5	**CM030**	B5/B14
	140	10	1.7	10		B5/B14
	93	14	1.3	15		B5/B14
	70	18	1.0	20		B5/B14
	56	21	1.0	25		B5/B14
	47	24	0.8	30		B5/B14
	187	8	4.4	7.5	**CM040**	B5/B14
	140	10	3.7	10		B5/B14
	93	15	2.5	15		B5/B14
	70	19	2.1	20		B5/B14
	56	22	1.7	25		B5/B14
	47	25	1.7	30		B5/B14
	35	32	1.3	40		B5/B14
	28	39	1.0	50		B5/B14
	23	43	0.8	60		B5/B14

Dati tecnici

Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.18						
63B4 (1400 min^{-1})	**35**	33	2.3	40	**CM050**	B5
	28	39	1.9	50		B5
	23	43	1.5	60		B5
	18	51	1.2	80		B5
	14	58	0.9	100		B5
71A6 (900 min^{-1})	**120**	12	3.4	7.5	**CM040**	B5/B14
	90	16	2.7	10		B5/B14
	60	22	2.0	15		B5/B14
	45	28	1.6	20		B5/B14
	36	33	1.3	25		B5/B14
	30	38	1.3	30		B5/B14
	36	34	2.2	25	**CM050**	B5/B14
	30	38	2.2	30		B5/B14
	23	47	1.7	40		B5/B14
	18	56	1.3	50		B5/B14
	15	63	1.1	60		B5/B14
	15	65	2.1	60	**CM063**	B5/B14
	11	78	1.6	80		B5/B14
	9	90	1.4	100		B5/B14
0.25						
63B2 (2800 min^{-1})	**373**	5	2.2	7.5	**CM030**	B5/B14
	280	7	1.7	10		B5/B14
	187	10	1.2	15		B5/B14
	140	13	0.9	20		B5/B14
	112	16	1.0	25		B5/B14
	140	14	2.1	20	**CM040**	B5/B14
	112	16	1.7	25		B5/B14
	93	19	1.7	30		B5/B14
	70	24	1.3	40		B5/B14
	56	29	1.0	50		B5/B14
	47	33	1.5	60	**CM050**	B5
	35	40	1.1	80		B5
	28	45	0.9	100		B5
71A4 (1400 min^{-1})	**187**	11	3.5	7.5	**CM040**	B5/B14
	140	14	2.7	10		B5/B14
	93	21	1.8	15		B5/B14
	70	26	1.5	20		B5/B14
	56	31	1.2	25		B5/B14
	47	36	1.2	30		B5/B14
	35	44	0.9	40		B5/B14
	70	27	2.7	20	**CM050**	B5/B14
	56	32	2.2	25		B5/B14
	47	36	2.3	30		B5/B14
	35	46	1.7	40		B5/B14
	28	54	1.3	50		B5/B14
	23	59	1.1	60		B5/B14
	18	71	0.9	80		B5/B14
	28	56	2.4	50	**CM063**	B5/B14
	23	61	2.1	60		B5/B14
	18	75	1.6	80		B5/B14
	14	85	1.4	100		B5/B14
	23	64	3.0	60	**CM075**	B5
	18	79	2.4	80		B5
	14	90	1.9	100		B5

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.25						
71B6 (900 min^{-1})	**120**	17	2.5	7.5	**CM040**	B5/B14
	90	22	1.9	10		B5/B14
	60	31	1.4	15		B5/B14
	45	39	1.1	20		B5/B14
	45	40	1.9	20	**CM050**	B5/B14
	36	48	1.6	25		B5/B14
	30	53	1.6	30		B5/B14
	23	66	1.2	40		B5/B14
	18	78	1.0	50		B5/B14
	18	82	1.8	50	**CM063**	B5/B14
	15	91	1.5	60		B5/B14
	11	108	1.2	80		B5/B14
	9	125	1.0	100		B5/B14
0.37						
71A2 (2800 min^{-1})	**373**	8	3.2	7.5	**CM040**	B5/B14
	280	11	2.6	10		B5/B14
	187	16	1.9	15		B5/B14
	140	20	1.4	20		B5/B14
	112	24	1.2	25		B5/B14
	93	28	1.2	30		B5/B14
	70	37	1.6	40	**CM050**	B5/B14
	56	43	1.2	50		B5/B14
	47	49	1.0	60		B5/B14
71B4 (1400 min^{-1})	**187**	16	2.3	7.5	**CM040**	B5/B14
	140	21	1.8	10		B5/B14
	93	31	1.2	15		B5/B14
	70	39	1.0	20		B5/B14
	56	46	0.8	25		B5/B14
	47	53	0.8	30		B5/B14
	70	39	1.8	20	**CM050**	B5/B14
	56	47	1.5	25		B5/B14
	47	54	1.5	30		B5/B14
	35	68	1.1	40		B5/B14
	28	80	0.9	50		B5/B14
	23	88	0.8	60		B5/B14
	28	83	1.6	50	**CM063**	B5/B14
	23	91	1.4	60		B5/B14
	18	111	1.1	80		B5/B14
	14	126	0.9	100		B5/B14
	28	85	2.5	50	**CM075**	B5
	23	95	2.0	60		B5
	18	117	1.6	80		B5
	14	134	1.3	100		B5
80A6 (900 min^{-1})	**60**	46	1.8	15	**CM050**	B5/B14
	45	59	1.3	20		B5/B14
	36	71	1.1	25		B5/B14
	30	79	1.1	30		B5/B14
	36	74	1.9	25	**CM063**	B5/B14
	30	82	2.0	30		B5/B14
	23	105	1.5	40		B5/B14
	18	122	1.2	50		B5/B14
	15	134	1.0	60		B5/B14
	18	120	1.8	50	**CM075**	B5/B14
	15	139	1.5	60		B5/B14
	11	170	1.1	80		B5/B14
	9	196	1.0	100		B5/B14

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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.55						
71B2 (2800 min^{-1})	**373**	12	2.1	7.5	**CM040**	B5/B14
	280	16	1.7	10		B5/B14
	187	23	1.3	15		B5/B14
	140	31	1.7	20	**CM050**	B5/B14
	112	37	1.3	25		B5/B14
	93	43	1.4	30		B5/B14
	70	55	1.1	40		B5/B14
	70	55	1.8	40	**CM063**	B5/B14
	56	67	1.4	50		B5/B14
	47	74	1.2	60		B5/B14
	47	79	1.8	60	**CM075**	B5
	35	96	1.3	80		B5
	28	113	1.0	100		B5
80A4 (1400 min^{-1})	**187**	24	2.9	7.5	**CM050**	B5/B14
	140	32	2.3	10		B5/B14
	93	46	1.6	15		B5/B14
	70	59	1.2	20		B5/B14
	56	70	1.0	25		B5/B14
	47	80	1.0	30		B5/B14
	93	47	2.9	15	**CM063**	B5/B14
	70	61	2.2	20		B5/B14
	56	72	1.9	25		B5/B14
	47	82	1.9	30		B5/B14
	35	105	1.4	40		B5/B14
	28	124	1.1	50		B5/B14
	23	135	0.9	60		B5/B14
	35	107	2.0	40	**CM075**	B5/B14
	28	126	1.7	50		B5/B14
	23	142	1.4	60		B5/B14
	18	174	1.1	80		B5/B14
	14	199	0.9	100		B5/B14
	23	155	2.0	60	**CM090**	B5/B14
	18	189	1.5	80		B5/B14
	14	218	1.2	100		B5/B14
	18	201	2.4	80	**CM110**	B5
	14	233	2.0	100		B5
80B6 (900 min^{-1})	**120**	37	2.2	7.5	**CM050**	B5/B14
	90	48	1.7	10		B5/B14
	60	68	1.2	15		B5/B14
	45	90	1.6	20	**CM063**	B5/B14
	36	109	1.3	25		B5/B14
	30	123	1.3	30		B5/B14
	23	156	1.0	40		B5/B14
	18	178	1.2	50	**CM075**	B5/B14
	15	207	1.0	60		B5/B14
	11	275	1.1	80	**CM090**	B5/B14
	9	315	0.9	100		B5/B14
	11	285	1.9	80	**CM110**	B5
	9	333	1.5	100		B5

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.75						
80A2 (2800 min^{-1})	**373**	17	2.9	7.5	**CM050**	B5/B14
	280	22	2.3	10		B5/B14
	187	32	1.7	15		B5/B14
	140	42	1.2	20		B5/B14
	112	51	1.0	25		B5/B14
	93	58	1.0	30		B5/B14
	93	59	1.7	30	**CM063**	B5/B14
	70	75	1.3	40		B5/B14
	56	91	1.0	50		B5/B14
	35	131	1.0	80	**CM075**	B5/B14
	28	153	0.8	100		B5/B14
	35	141	1.5	80	**CM090**	B5/B14
	28	164	1.2	100		B5/B14
80B4 (1400 min^{-1})	**187**	33	2.1	7.5	**CM050**	B5/B14
	140	43	1.7	10		B5/B14
	93	62	1.2	15		B5/B14
	70	80	0.9	20		B5/B14
	56	96	0.7	25		B5/B14
	47	109	0.8	30		B5/B14
	187	33	3.7	7.5	**CM063**	B5/B14
	140	44	3.0	10		B5/B14
	93	64	2.1	15		B5/B14
	70	83	1.6	20		B5/B14
	56	98	1.4	25		B5/B14
	47	112	1.4	30		B5/B14
	35	143	1.0	40		B5/B14
	28	169	0.8	50		
	70	83	2.4	20	**CM075**	B5/B14
	56	100	2.0	25		B5/B14
	47	114	2.0	30		B5/B14
	35	143	1.5	40		B5/B14
	28	171	1.2	50		B5/B14
	23	193	1.0	60		B5/B14
	18	237	0.8	80		
	35	151	2.3	40	**CM090**	B5/B14
	28	184	1.8	50		B5/B14
	23	212	1.5	60		B5/B14
	18	258	1.1	80		B5/B14
	14	297	0.9	100		B5/B14
	18	274	1.8	80	**CM110**	B5
	14	317	1.4	100		B5
90S6 (900 min^{-1})	**45**	126	1.8	20	**CM075**	B5/B14
	36	151	1.4	25		B5/B14
	30	172	1.5	30		B5/B14
	23	210	1.1	40		B5/B14
	18	271	1.4	50	**CM090**	B5/B14
	15	306	1.1	60		B5/B14
	11	388	1.4	80	**CM110**	B5
	9	454	1.1	100		B5

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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.1						
80B2 (2800 min^{-1})	**373**	25	2.0	7.5	**CM050**	B5/B14
	280	33	1.6	10		B5/B14
	187	47	1.2	15		B5/B14
	140	62	1.6	20	**CM063**	B5/B14
	112	75	1.2	25		B5/B14
	93	87	1.2	30		B5/B14
	93	88	1.7	30	**CM075**	B5/B14
	70	114	1.3	40		B5/B14
	56	135	1.0	50		B5/B14
	47	167	1.4	60	**CM090**	B5/B14
	35	207	1.0	80		B5/B14
	28	240	0.8	100		B5/B14
90S4 (1400 min^{-1})	**187**	49	2.6	7.5	**CM063**	B5/B14
	140	65	2.0	10		B5/B14
	93	95	1.4	15		B5/B14
	70	122	1.1	20		B5/B14
	56	144	0.9	25		B5/B14
	47	164	1.0	30		B5/B14
	187	50	3.6	7.5	**CM075**	B5/B14
	140	65	2.9	10		B5/B14
	93	93	2.1	15		B5/B14
	70	122	1.6	20		B5/B14
	56	146	1.3	25		B5/B14
	47	169	1.3	30		B5/B14
	35	213	1.0	40		B5/B14
	56	154	2.2	25	**CM090**	B5/B14
	47	171	2.3	30		B5/B14
	35	222	1.6	40		B5/B14
	28	270	1.3	50		B5/B14
	23	311	1.0	60		B5/B14
	35	228	2.7	40	**CM110**	B5
	28	278	2.2	50		B5
	23	324	1.7	60		B5
	18	402	1.2	80		B5
	14	465	1.0	100		B5
	23	329	2.7	60	**CM130**	B5
	18	414	2.0	80		B5
	14	480	1.5	100		B5
90L6 (900 min^{-1})	**120**	75	1.9	7.5	**CM063**	B5/B14
	90	97	1.5	10		B5/B14
	60	140	1.1	15		B5/B14
	45	184	1.2	20	**CM075**	B5/B14
	36	222	0.9	25		B5/B14
	30	252	1.0	30		B5/B14
	23	331	1.2	40	**CM090**	B5/B14
	18	397	1.0	50		B5/B14
	15	476	1.3	60	**CM110**	B5
	11	570	0.9	80		B5
	11	598	1.5	80	**CM130**	B5
	9	689	1.1	100		B5

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.5						
90S2 (2800 min^{-1})	**373**	34	2.7	7.5	**CM063**	B5/B14
	280	45	2.0	10		B5/B14
	187	64	1.6	15		B5/B14
	140	85	1.2	20		B5/B14
	112	104	1.4	25	**CM075**	B5/B14
	93	120	1.3	30		B5/B14
	70	156	1.0	40		B5/B14
	56	194	1.3	50	**CM090**	B5/B14
	47	227	1.0	60		B5/B14
90L4 (1400 min^{-1})	**187**	67	1.9	7.5	**CM063**	B5/B14
	140	88	1.5	10		B5/B14
	93	129	1.0	15		B5/B14
	70	166	0.8	20		B5/B14
	187	68	2.7	7.5	**CM075**	B5/B14
	140	88	2.2	10		B5/B14
	93	127	1.5	15		B5/B14
	70	166	1.2	20		B5/B14
	56	200	1.0	25		B5/B14
	47	230	1.0	30		B5/B14
	56	210	1.6	25	**CM090**	B5/B14
	47	233	1.7	30		B5/B14
	35	303	1.2	40		B5/B14
	28	368	0.9	50		B5/B14
	35	311	2.0	40	**CM110**	B5
	28	379	1.6	50		B5
	23	442	1.3	60		B5
	18	548	0.9	80		B5
	23	448	2.0	60	**CM130**	B5
	18	565	1.5	80		B5
	14	655	1.1	100		B5
100LA6 (900 min^{-1})	**120**	104	2.0	7.5	**CM075**	B5/B14
	90	135	1.7	10		B5/B14
	60	196	1.2	15		B5/B14
	45	255	1.5	20	**CM090**	B5/B14
	36	310	1.2	25		B5/B14
	30	349	1.3	30		B5/B14
	23	465	1.5	40	**CM110**	B5
	18	565	1.2	50		B5
	15	649	1.0	60		B5
	11	815	1.1	80	**CM130**	B5
	9	939	0.8	100		B5
1.85						
90LB4 (1400 min^{-1})	**187**	82	1.5	7.5	**CM063**	B5/B14
	140	109	1.2	10		B5/B14
	93	159	0.8	15		B5/B14
	187	83	2.2	7.5	**CM075**	B5/B14
	140	109	1.8	10		B5/B14
	93	157	1.2	15		B5/B14
	70	204	1.0	20		B5/B14
	56	246	0.8	25		B5/B14
	47	284	0.8	30		B5/B14

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P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.85						
90LB4 (1400 min^{-1})	**93**	161	2.2	15	**CM090**	B5/B14
	70	209	1.7	20		B5/B14
	56	259	1.3	25		B5/B14
	47	288	1.4	30		B5/B14
	35	374	0.9	40		B5/B14
	47	292	2.2	30	**CM110**	B5
	35	384	1.6	40		B5
	28	467	1.3	50		B5
	23	545	1.0	60		B5
	23	553	1.6	60	**CM130**	B5
	18	697	1.2	80		B5
	14	808	0.9	100		B5
2.2						
90L2 (2800 min^{-1})	**373**	50	1.8	7.5	**CM063**	B5/B14
	280	65	1.4	10		B5/B14
	187	95	1.1	15		B5/B14
	187	97	1.5	15	**CM075**	B5/B14
	140	125	1.2	20		B5/B14
	112	158	1.5	25	**CM090**	B5/B14
	93	180	1.7	30		B5/B14
	70	237	1.1	40		B5/B14
100LA4 (1400 min^{-1})	**187**	99	1.8	7.5	**CM075**	B5/B14
	140	129	1.5	10		B5/B14
	93	187	1.0	15		B5/B14
	187	99	2.8	7.5	**CM090**	B5/B14
	140	131	2.3	10		B5/B14
	93	191	1.8	15		B5/B14
	70	249	1.4	20		B5/B14
	56	308	1.1	25		B5/B14
	47	342	1.2	30		B5/B14
	70	252	2.2	20	**CM110**	B5
	56	311	1.9	25		B5
	47	347	1.8	30		B5
	35	456	1.3	40		B5
	28	555	1.1	50		B5
	23	648	0.9	60		B5
	35	456	2.3	40	**CM130**	B5
	28	563	1.7	50		B5
	23	657	1.4	60		B5
	18	828	1.0	80		B5
	14	960	0.8	100		B5
112M6 (900 min^{-1})	**120**	152	2.1	7.5	**CM090**	B5/B14
	90	198	1.8	10		B5/B14
	60	291	1.4	15		B5/B14
	45	374	1.0	20		B5/B14
	36	473	1.4	25	**CM110**	B5
	30	525	1.4	30		B5
	23	682	1.0	40		B5
	18	852	1.2	50	**CM130**	B5
	15	980	1.0	60		B5
3.0						
100LA2 (2800 min^{-1})	**373**	68	1.8	7.5	**CM075**	B5/B14
	280	90	1.5	10		B5/B14
	187	132	1.1	15		B5/B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
3.0						
100LA2 (2800 min^{-1})	**140**	176	1.4	20	**CM090**	B5/B14
	112	215	1.1	25		B5/B14
	93	246	1.2	30		B5/B14
100LB4 (1400 min^{-1})	**187**	135	1.3	7.5	**CM075**	B5/B14
	140	176	1.1	10		B5/B14
	93	255	0.8	15		B5/B14
	187	135	2.1	7.5	**CM090**	B5/B14
	140	178	1.7	10		B5/B14
	93	261	1.3	15		B5/B14
	70	340	1.0	20		B5/B14
	56	420	0.8	25		B5/B14
	47	467	0.9	30		B5/B14
	93	261	2.2	15	**CM110**	B5
	70	344	1.6	20		B5
	56	425	1.4	25		B5
	47	473	1.3	30		B5
	35	622	1.0	40		B5
	28	757	0.8	50		B5
	23	884	0.6	60		B5
	35	622	1.7	40	**CM130**	B5
	28	767	1.3	50		B5
	23	896	1.0	60		B5
132S6 (900 min^{-1})	**120**	210	2.7	7.5	**CM110**	B5
	90	274	2.3	10		B5
	60	396	1.6	15		B5
	45	522	1.2	20		B5
	36	645	1.6	25	**CM130**	B5
	30	735	1.6	30		B5
	23	942	1.2	40		B5
4.0						
112M2 (2800 min^{-1})	**373**	91	1.3	7.5	**CM075**	B5
	280	120	1.1	10		B5
	187	178	1.5	15	**CM090**	B5
	140	235	1.1	20		B5
112M4 (1400 min^{-1})	**187**	180	1.0	7.5	**CM075**	B5/B14
	140	235	0.8	10		B5/B14
	187	180	1.6	7.5	**CM090**	B5/B14
	140	237	1.3	10		B5/B14
	93	348	1.0	15		B5/B14
	70	453	0.8	20		B5/B14
	187	182	2.6	7.5	**CM110**	B5
	140	237	2.2	10		B5
	93	348	1.6	15		B5
	70	458	1.2	20		B5
	56	566	1.0	25		B5
	47	630	1.0	30		B5
	70	458	2.0	20	**CM130**	B5
	56	566	1.6	25		B5
	47	647	1.6	30		B5
	35	829	1.3	40		B5
	28	1023	0.9	50		B5
132L6 (900 min^{-1})	**120**	280	2.0	7.5	**CM110**	B5/B14
	90	365	1.7	10		B5/B14
	60	528	1.2	15		B5/B14
	45	696	1.5	20	**CM130**	B5/B14
	36	860	1.2	25		B5/B14
	30	980	1.2	30		B5/B14

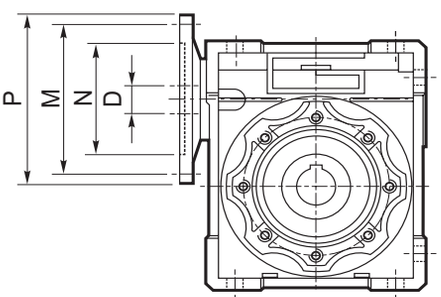
Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
5.5						
132S4 (1400 min^{-1})	**187**	250	1.9	7.5	**CM110**	B5/B14
	140	326	1.6	10		B5/B14
	93	478	1.2	15		B5/B14
	70	630	0.9	20		B5/B14
	187	250	3.0	7.5	**CM130**	B5/B14
	140	330	2.5	10		B5/B14
	93	484	1.9	15		B5/B14
	70	630	1.4	20		B5/B14
	56	778	1.2	25		B5/B14
	47	889	1.2	30		B5/B14
	35	1141	0.9	40		B5/B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
7.5						
132MA4 (1400 min^{-1})	**187**	341	1.4	7.5	**CM110**	B5/B14
	140	445	1.2	10		B5/B14
	93	652	0.9	15		B5/B14
	187	341	2.2	7.5	**CM130**	B5/B14
	140	450	1.8	10		B5/B14
	93	660	1.4	15		B5/B14
	70	860	1.1	20		B5/B14
	56	1062	0.9	25		B5/B14
	47	1213	0.9	30		B5/B14

Motori applicabili — *IEC Motor adapters*

	IEC	N	M	P	D E8	i 7.5	10	15	20	25	30	40	50	60	80	100
CM030	**63B5**	95	115	140	11											
	63B14	60	75	90												
	56B5	80	100	120	9	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**			
	56B14	50	65	80												
CM040	**71B5**	110	130	160	14											
	71B14	70	85	105												
	63B5	95	115	140	11	**B**	**B**	**B**	**B**	**B**	**B**	**B**				
	63B14	60	75	90												
	56B5	80	100	120	9	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**
CM050	**80B5**	130	165	200	19											
	80B14	80	100	120												
	71B5	110	130	160	14	**B**	**B**	**B**	**B**	**B**	**B**					
	71B14	70	85	105												
	63B5	95	115	140	11	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**	
CM063	**90B5**	130	165	200	24											
	90B14	95	115	140												
	80B5	130	165	200	19	**B**	**B**	**B**	**B**	**B**	**B**					
	80B14	80	100	120												
	71B5	110	130	160	14	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**		
	71B14	70	85	105												
CM075	**100/112B5**	180	215	250	28											
	100/112B14	110	130	160												
	90B5	130	165	200	24	**B**	**B**	**B**								
	90B14	95	115	140												
	80B5	130	165	200	19	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**				
	80B14	80	100	120												
	71B5	110	130	160	14				**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**
CM090	**100/112B5**	180	215	250	28											
	100/112B14	110	130	160												
	90B5	130	165	200	24	**B**	**B**	**B**	**B**	**B**	**B**					
	90B14	95	115	140												
	80B5	130	165	200	19	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**		
	80B14	80	100	120												
CM110	**132B5**	230	265	300	38											
	132B14	130	165	200	38											
	100/112B5	180	215	250	28	**B**	**B**	**B**	**B**	**B**						
	90B5	130	165	200	24	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**	**B**		
	80B5	130	165	200	19					**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**
CM130	**132B5**	230	265	300	38											
	132B14	130	165	200	38											
	100/112B5	180	215	250	28	**B**	**B**	**B**	**B**	**B**	**B**	**B**				
	90B5	130	165	200	24	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**

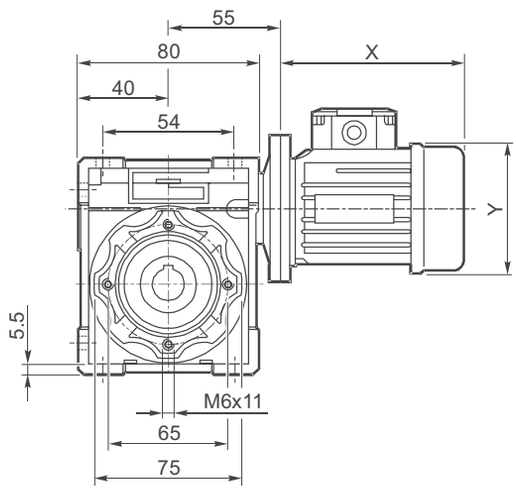


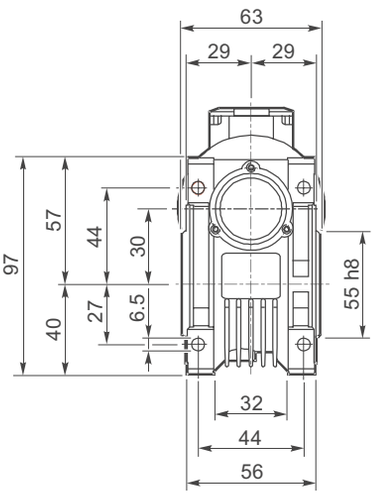
N.B.
Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.
N.B. Grey areas indicate motor inputs available on each size of unit.

B/BS = Boccola di riduzione in acciaio (vedi pag. S6)
B/BS = Metal shaft sleeve (see page S6)

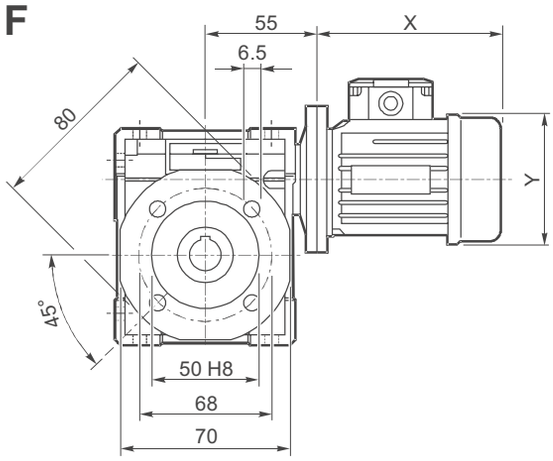
Dimensioni ***Dimensions***

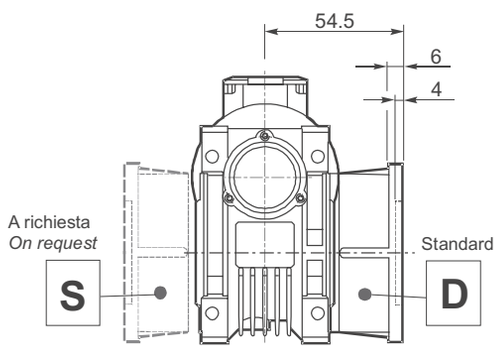
CM 030 U





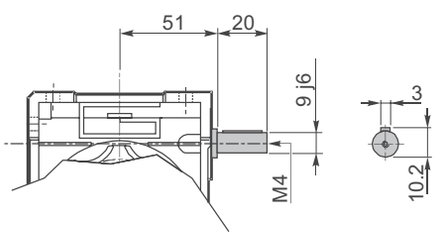
CM 030 F

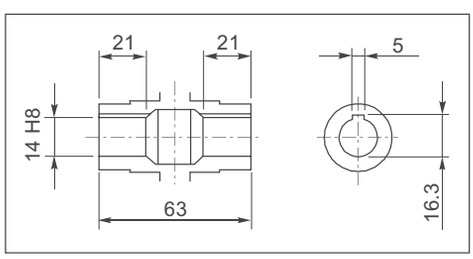




Kg
1.2

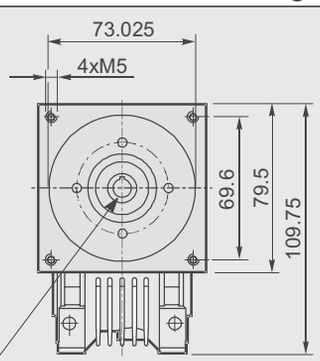
CMIS 030..



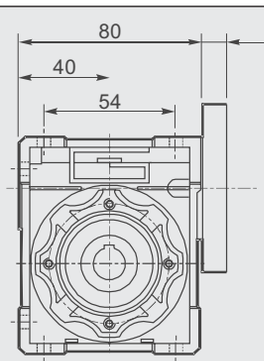


Albero lento cavo / *Hollow output shaft*

CM 030.. con flangia NEMA34 / *with NEMA34 flange*



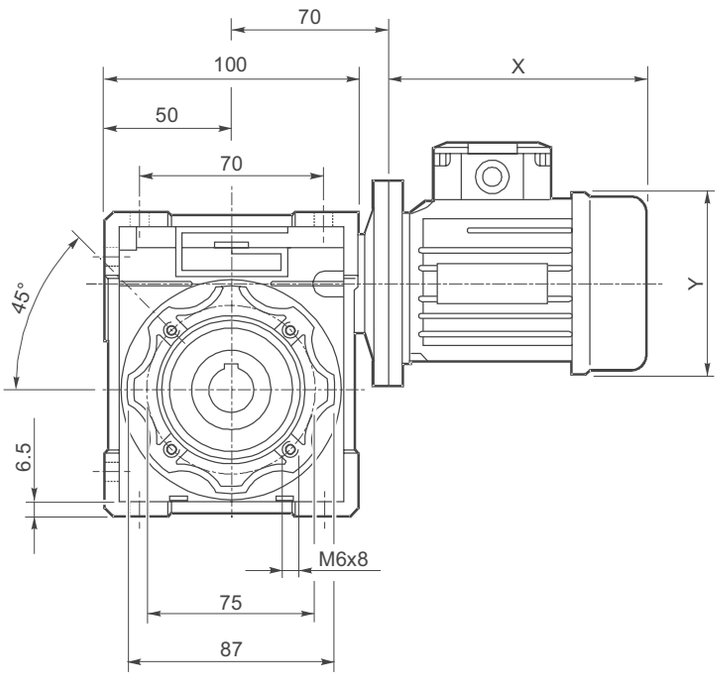
Connessione con boccola o giunto in funzione del diametro dell'albero motore.
Connection with sleeve or coupling depending on motorshaft's diameter.

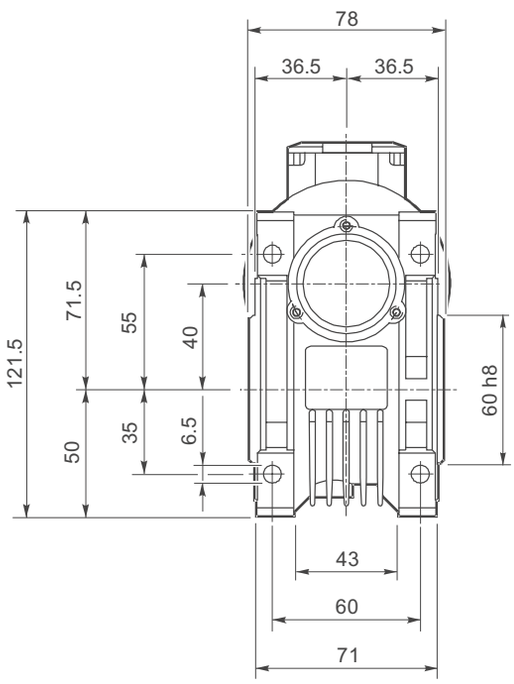


Lo spessore della flangia è variabile in funzione delle diverse lunghezze dell'albero motore.
Flange's thickness may vary depending on motorshaft's length

Dimensioni ***Dimensions***

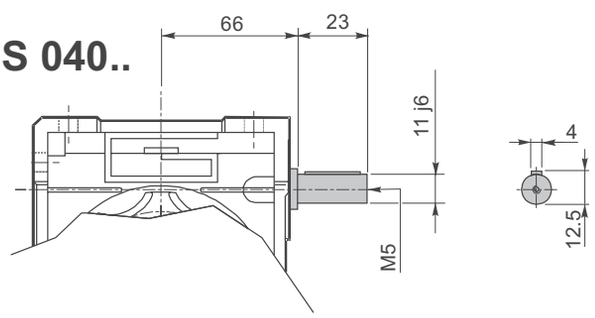
CM 040 U

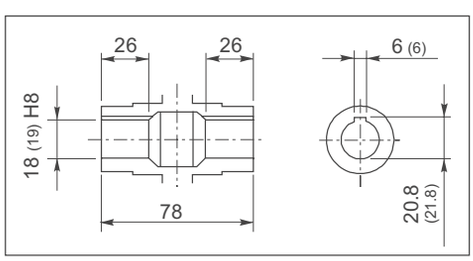




Kg
2.3

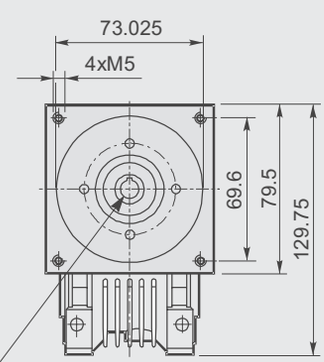
CMIS 040..



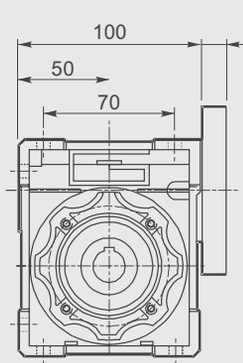


Albero lento cavo / *Hollow output shaft*

CM 040.. con flangia NEMA34 / *with NEMA34 flange*



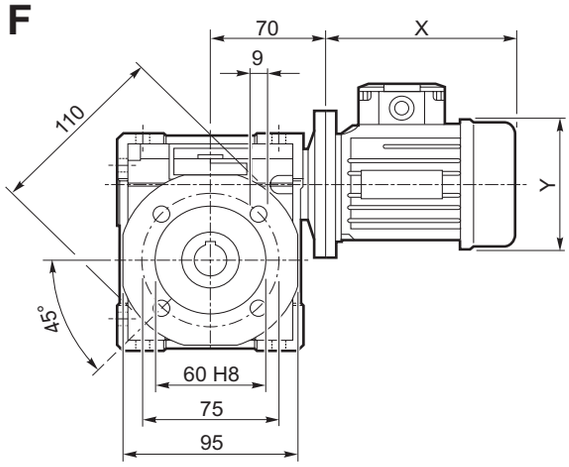
Connessione con boccola o giunto in funzione del diametro dell'albero motore.
Connection with sleeve or coupling depending on motorshaft's diameter.

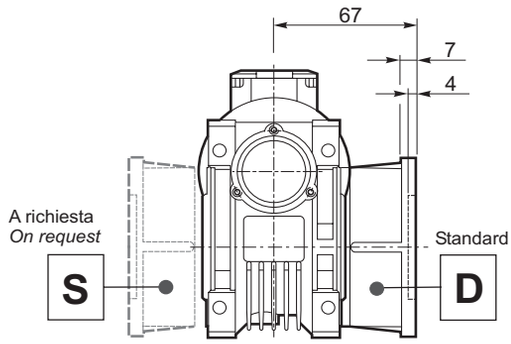


Lo spessore della flangia è variabile in funzione delle diverse lunghezze dell'albero motore.
Flange's thickness may vary depending on motorshaft's length

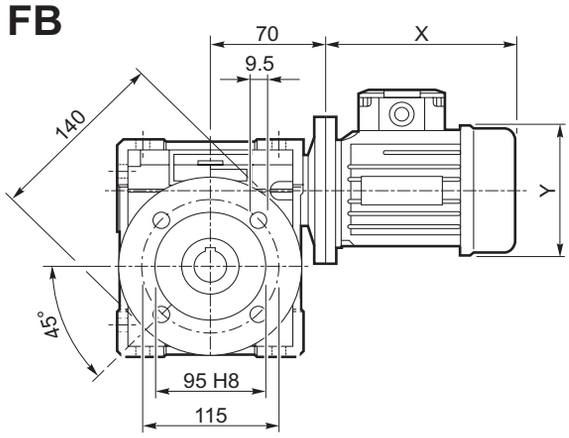
Dimensioni ***Dimensions***

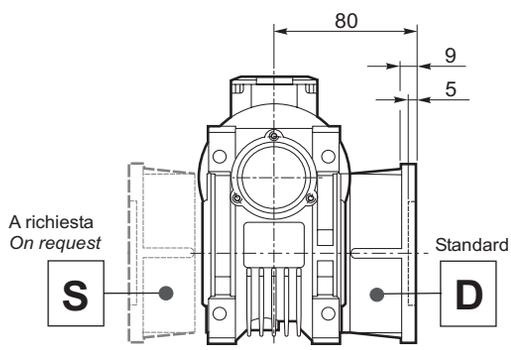
CM 040 F



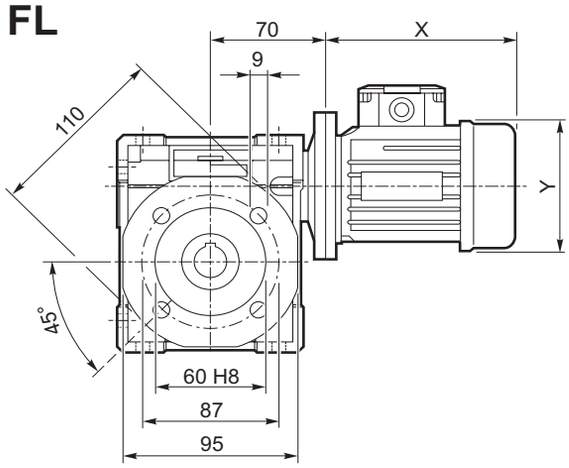


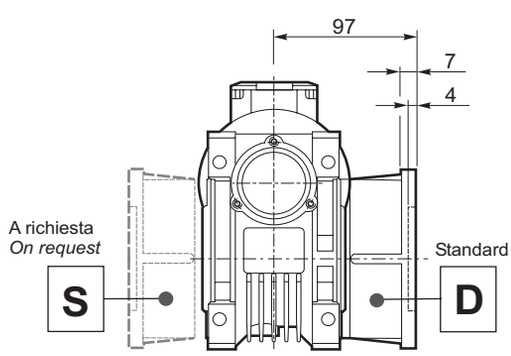
CM 040 FB





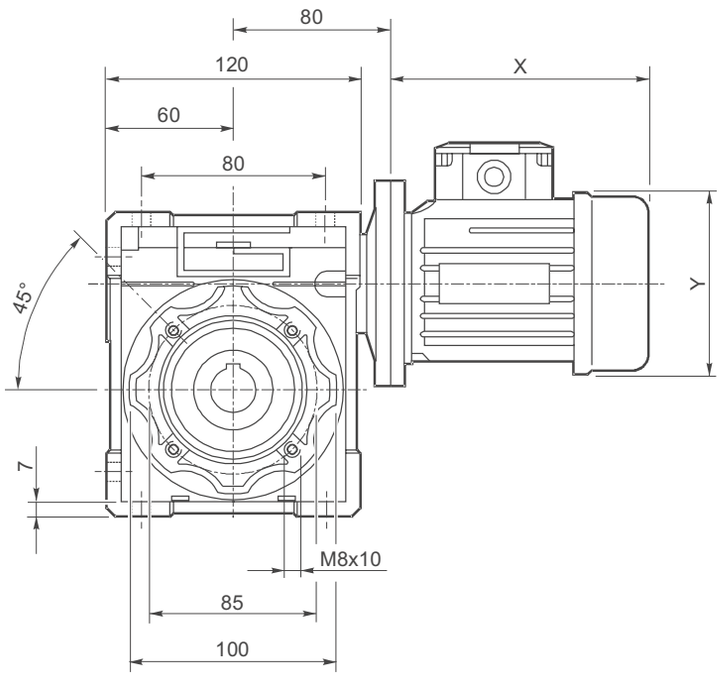
CM 040 FL

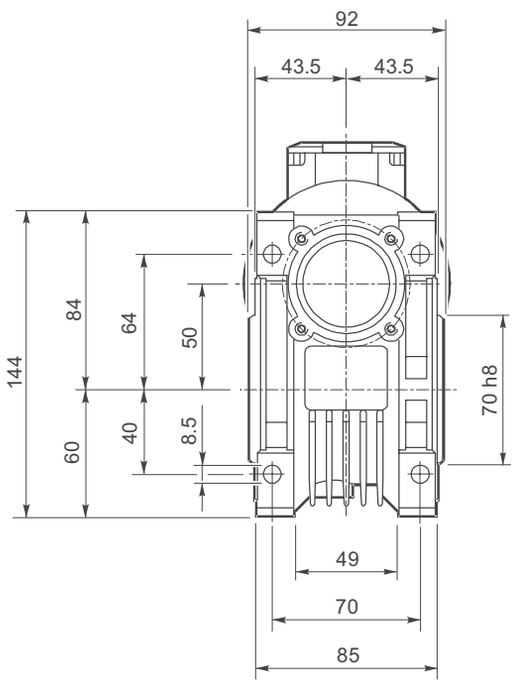




Dimensioni ***Dimensions***

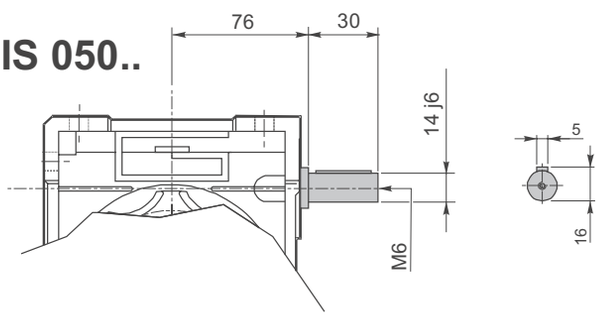
CM 050 U

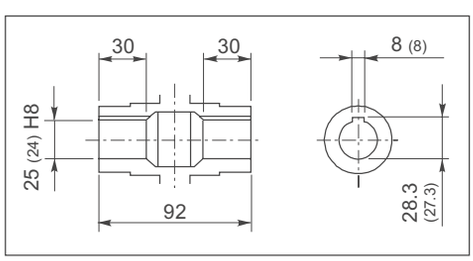




Kg
3.5

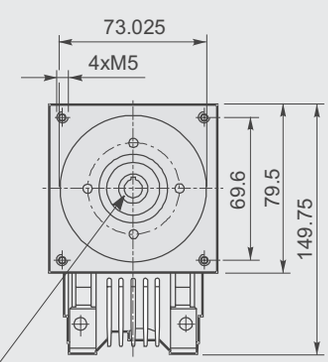
CMIS 050..

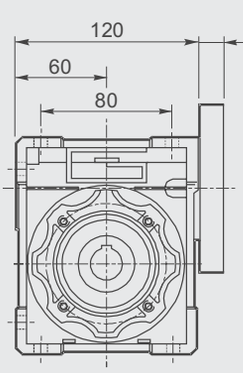




Albero lento cavo / *Hollow output shaft*

CM 050.. con flangia NEMA34 / *with NEMA34 flange*





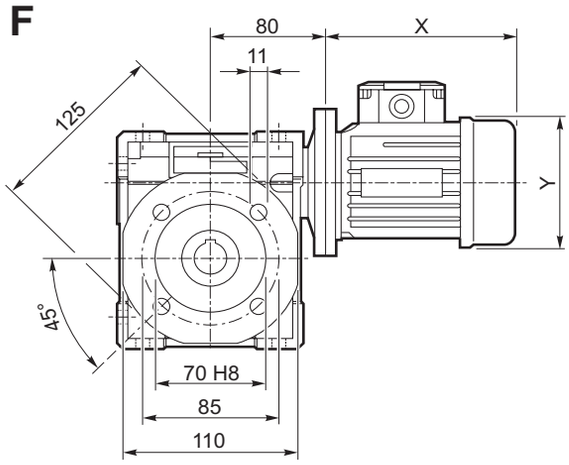
Lo spessore della flangia è variabile in funzione delle diverse lunghezze dell'albero motore.

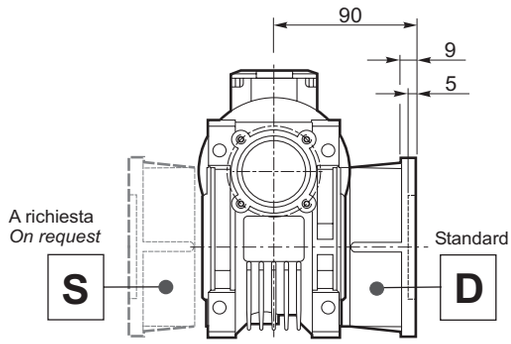
Flange's thickness may vary depending on motorshaft's length

Connessione con boccola o giunto in funzione del diametro dell'albero motore.
Connection with sleeve or coupling depending on motorshaft's diameter.

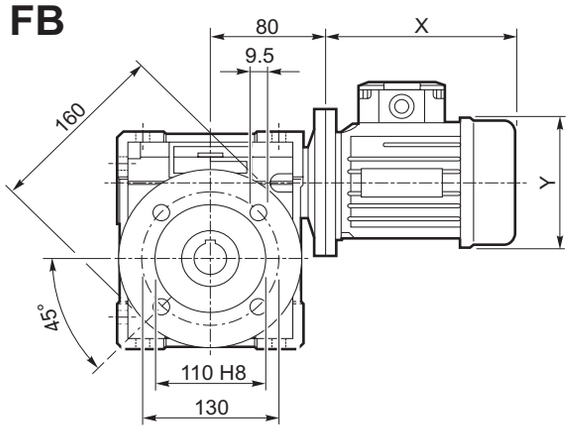
Dimensioni ***Dimensions***

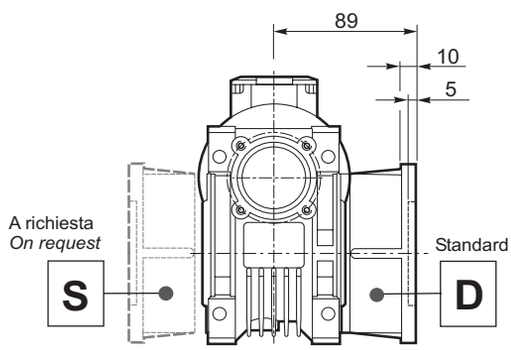
CM 050 F



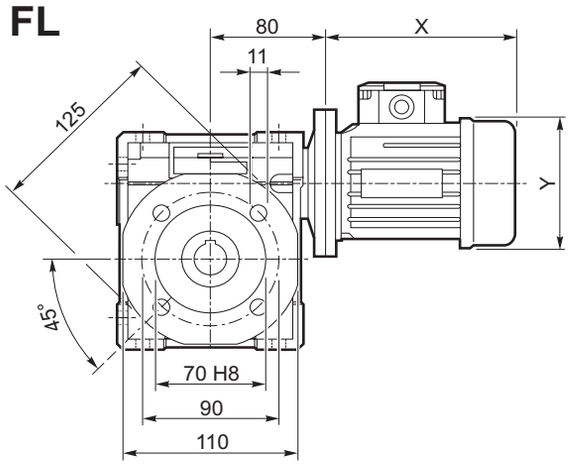


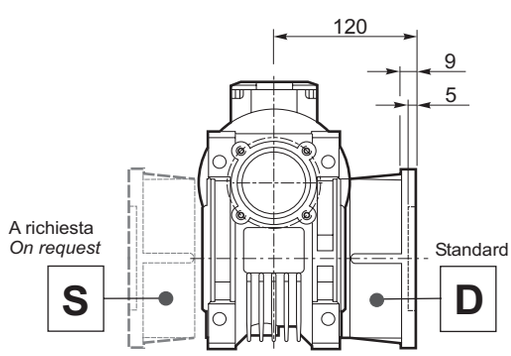
CM 050 FB





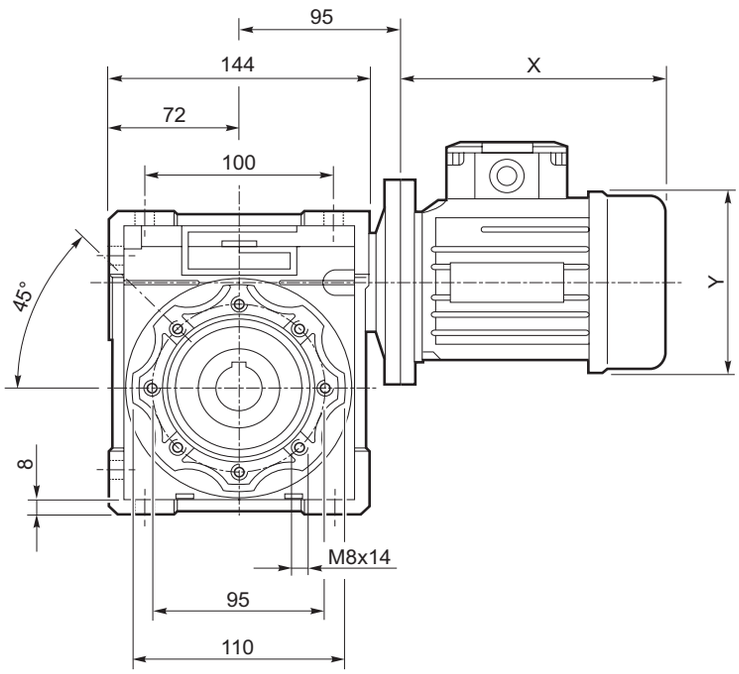
CM 050 FL

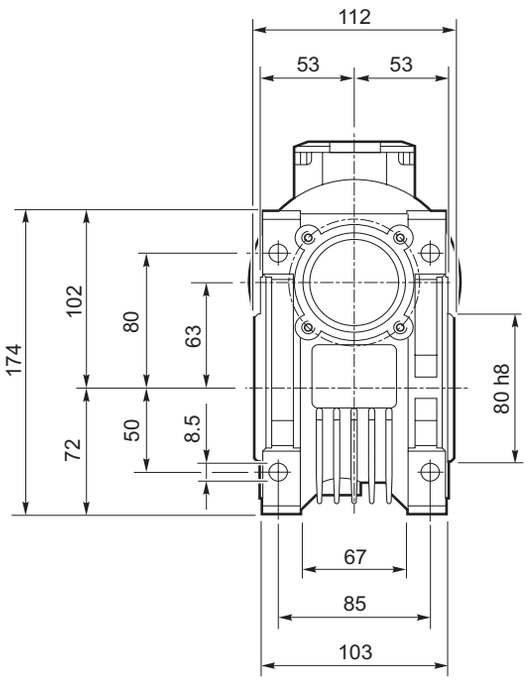




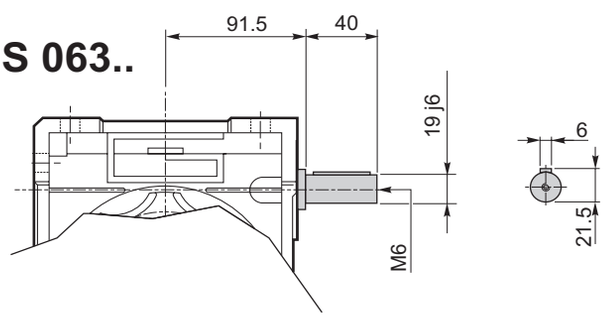
Dimensioni ***Dimensions***

CM 063 U

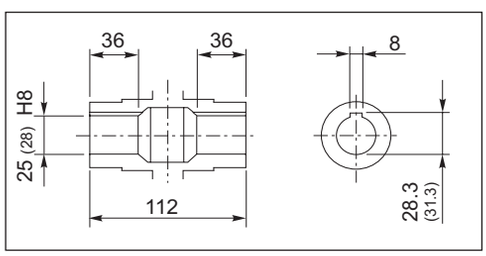




CMIS 063..



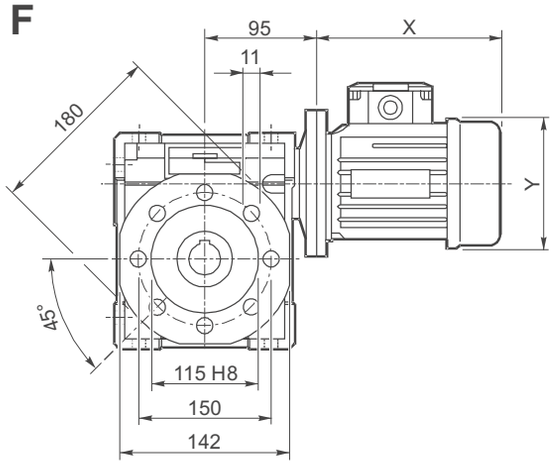
Kg
6.2

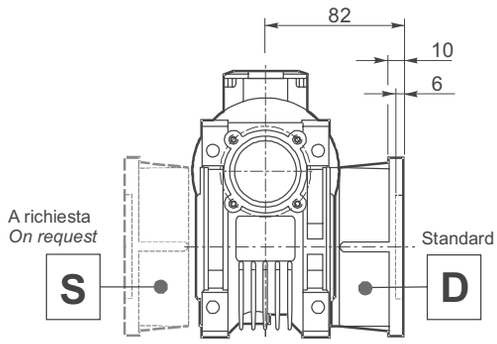


Albero lento cavo / *Hollow output shaft*

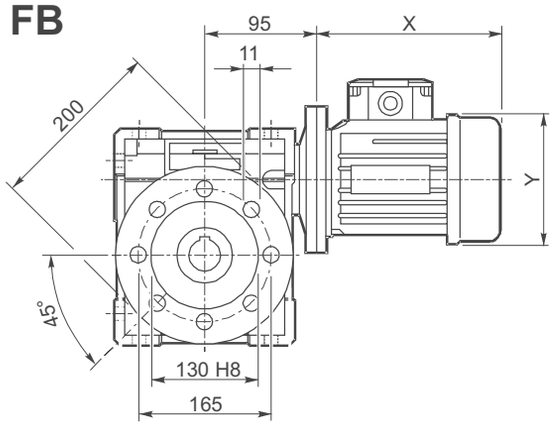
Dimensioni ***Dimensions***

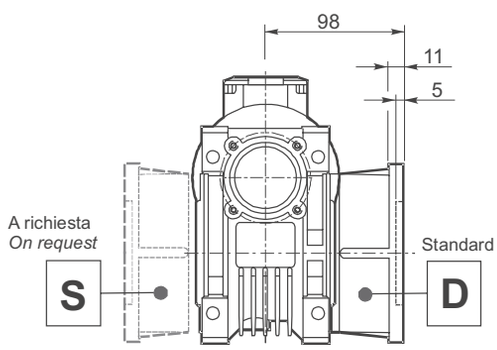
CM 063 F



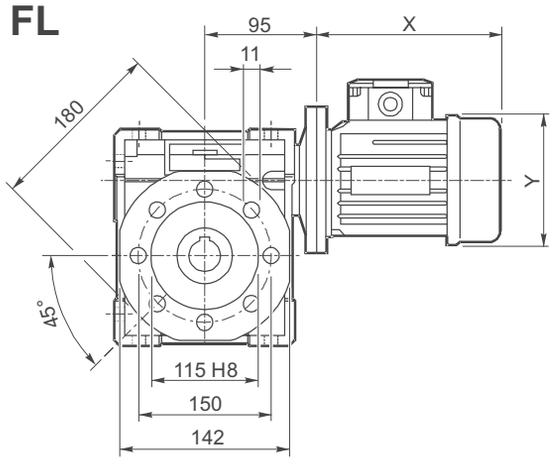


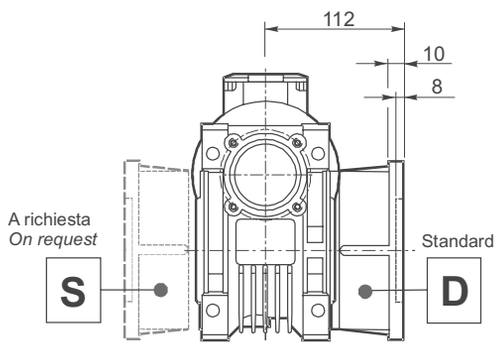
CM 063 FB





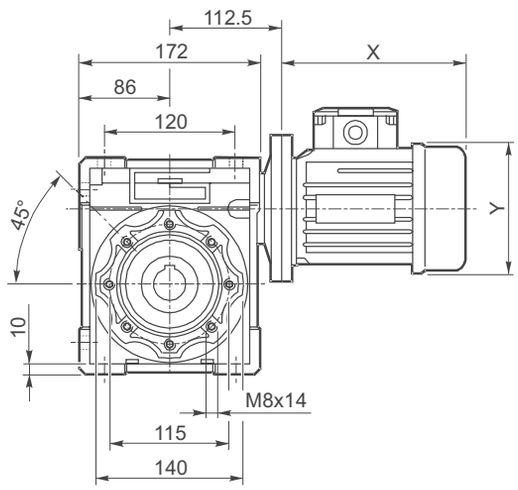
CM 063 FL

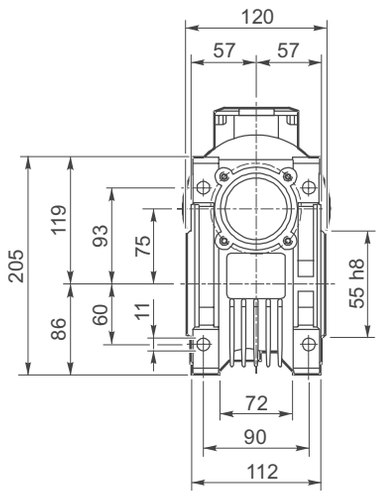




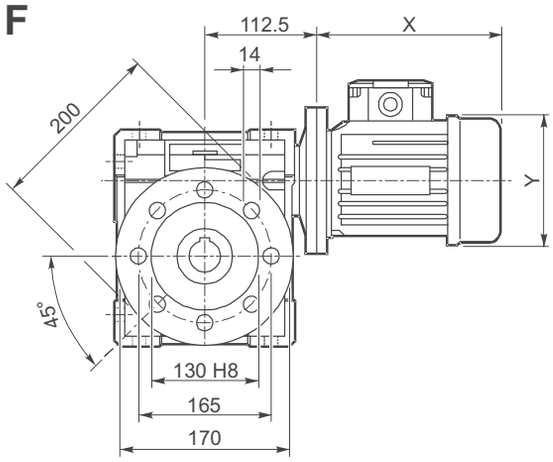
Dimensioni ***Dimensions***

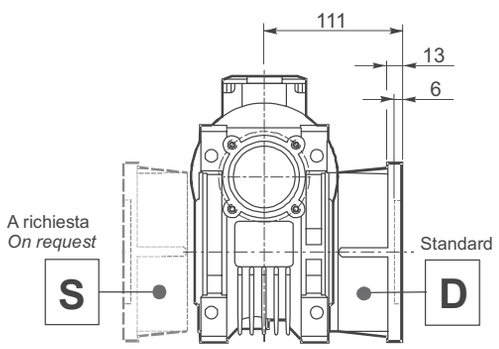
CM 075 U



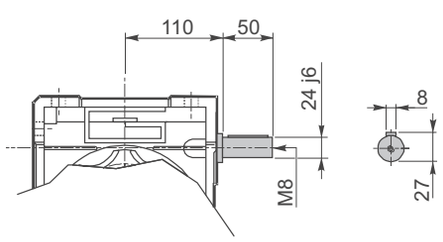


CM 075 F

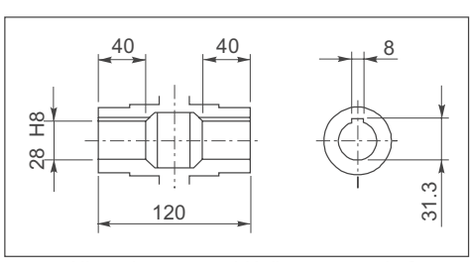




CMIS 075..



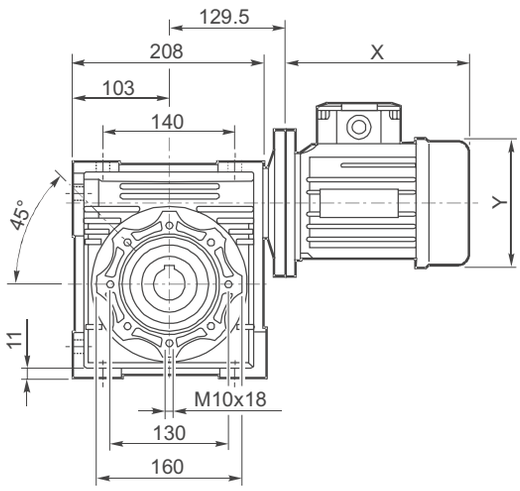
Kg
9.0

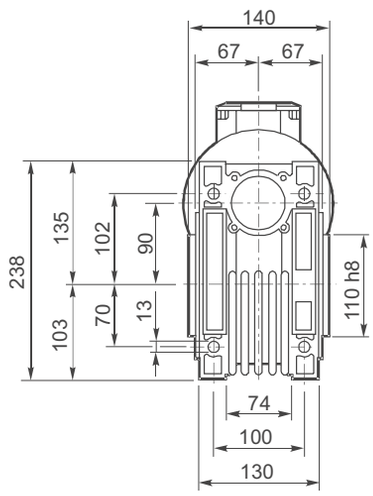


Albero lento cavo / *Hollow output shaft*

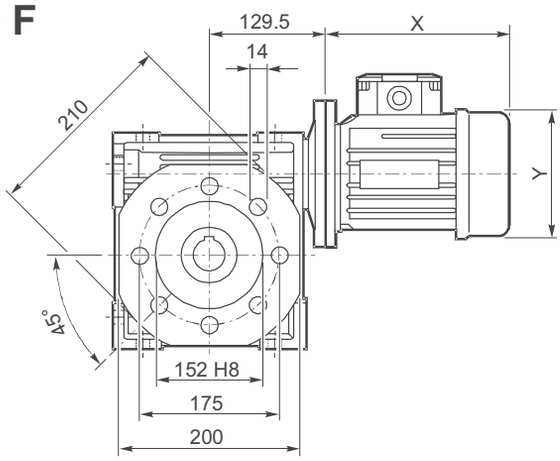
Dimensioni ***Dimensions***

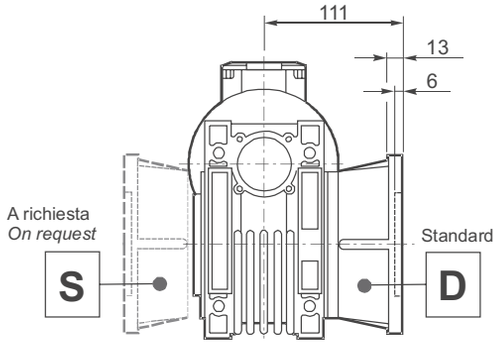
CM 090 U



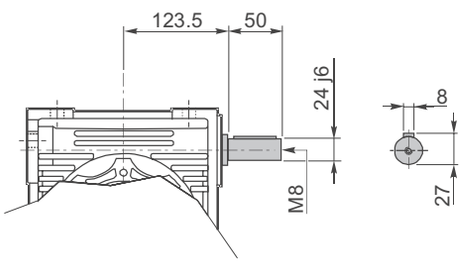


CM 090 F

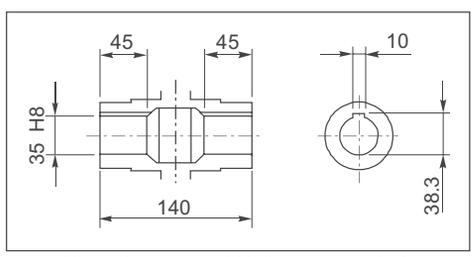




CMIS 090..

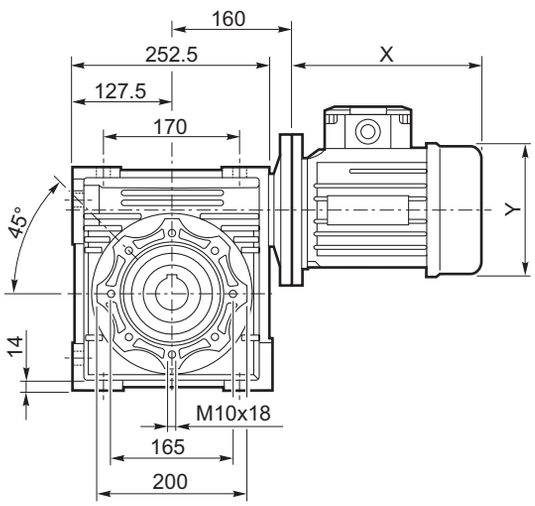


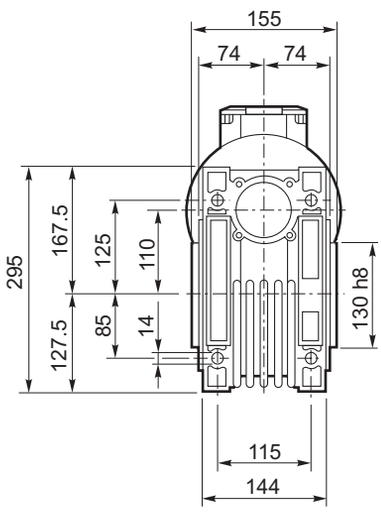
Kg
13



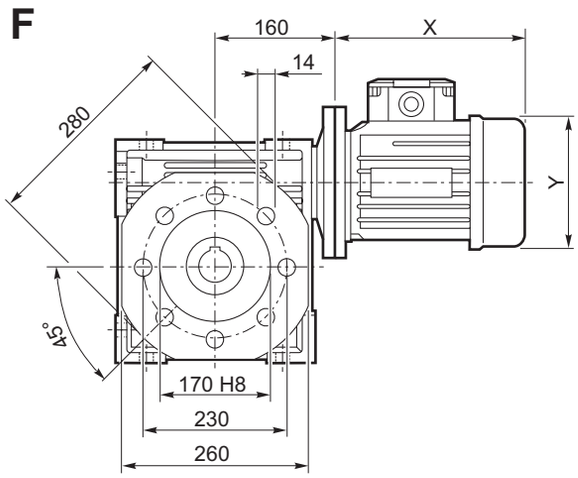
Albero lento cavo / *Hollow output shaft*

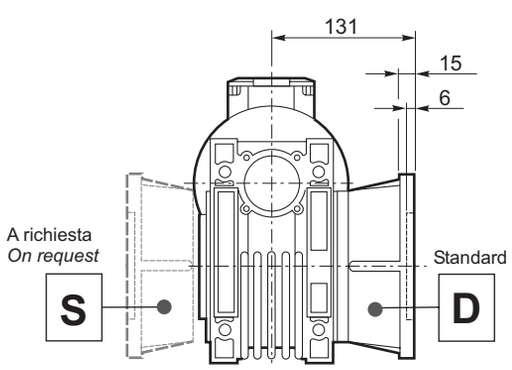
CM 110 U



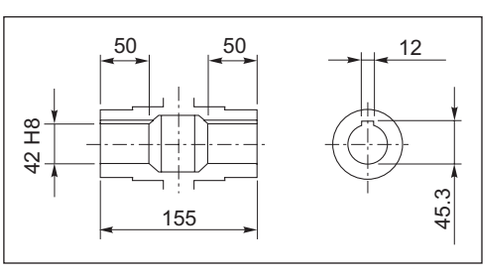


CM 110 F



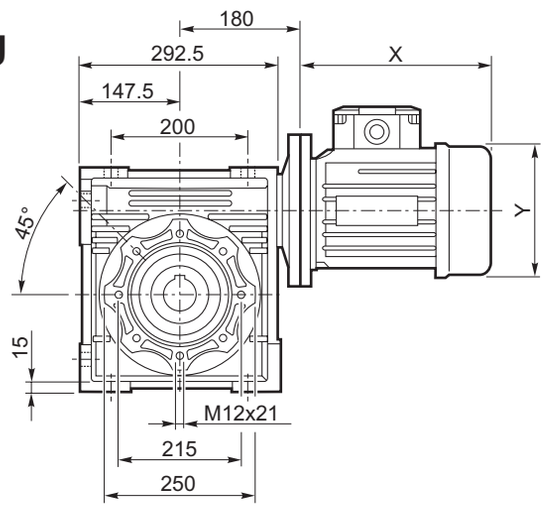


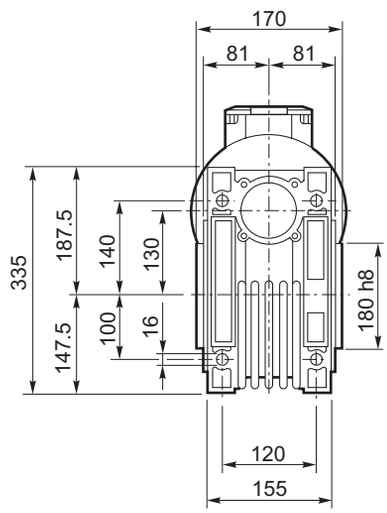
Kg
35



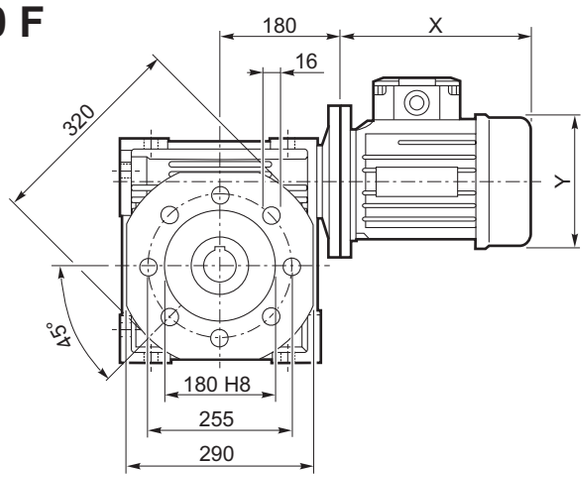
Albero lento cavo / *Hollow output shaft*

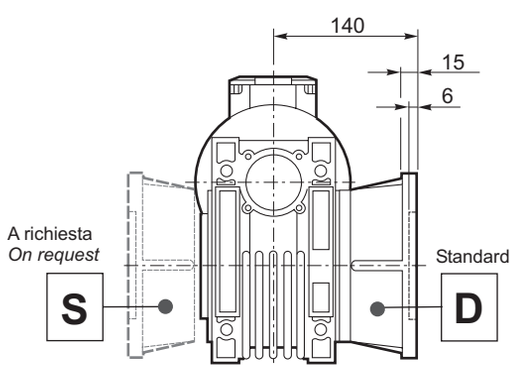
CM 130 U



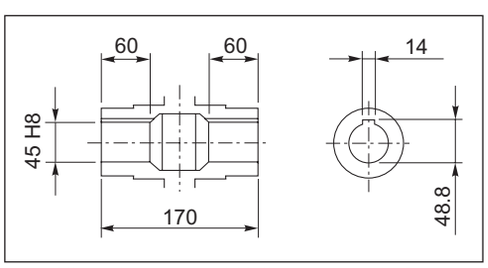


CM 130 F





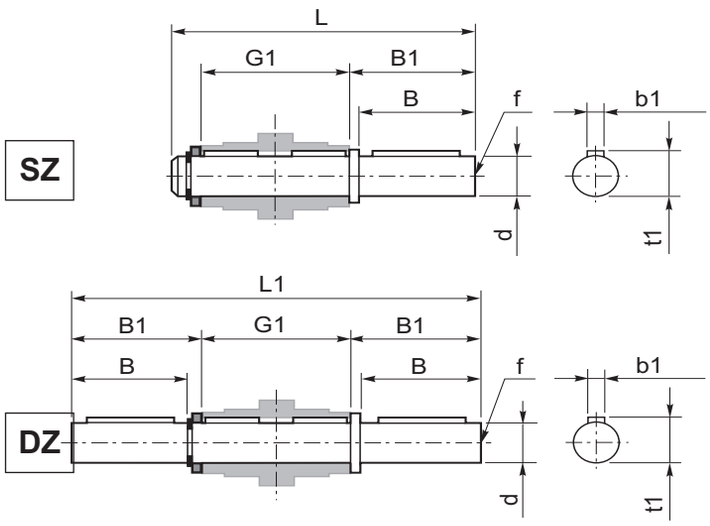
Kg
58



Albero lento cavo / *Hollow output shaft*

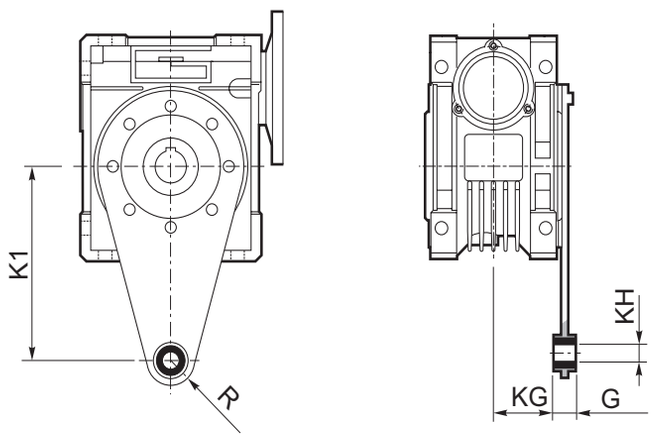
Accessori / *Accessories*

Albero lento / *Output shaft*



	d h6	B	B1	G1	L	L1	f	b1	t1
CM 030	14	30	32.5	63	102	128	M6	5	16
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

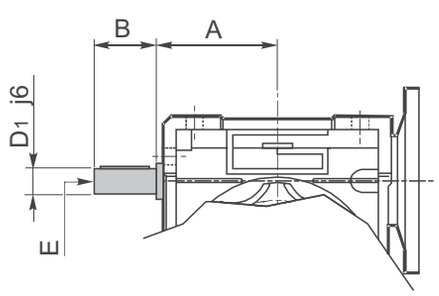
Braccio di reazione / *Torque arm*



	K1	G	KG	KH	R
CM 030	85	14	24	8	15
CM 040	100	14	31.5	10	18
CM 050	100	14	38.5	10	18
CM 063	150	14	49	10	18
CM 075	200	25	47.5	20	30
CM 090	200	25	57.5	20	30
CM 110	250	30	62	25	35
CM 130	250	30	69	25	35

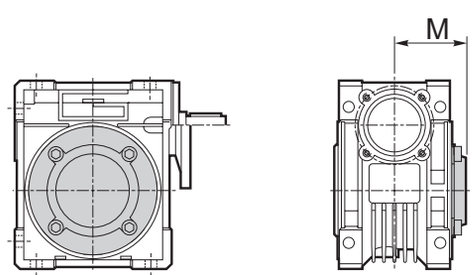
Opzioni / *Options*

VS - Vite sporgente / *Extended input shaft*



	A	B	D_1 j6	E
CM 030	51	20	9	M4
CM 040	66	23	11	M5
CM 050	76	30	14	M6
CM 063	91.5	40	19	M6
CM 075	110	50	24	M8
CM 090	123.5	50	24	M8

PC - Coperchio di protezione / *Plastic cover*



	M
CM 030	47
CM 040	54.5
CM 050	62.5
CM 063	73
CM 075	79
CM 090	94
CM 110	95
CM 130	100