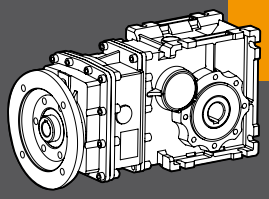
TRANSTECNO™

THE MODULAR GEARMOTOR

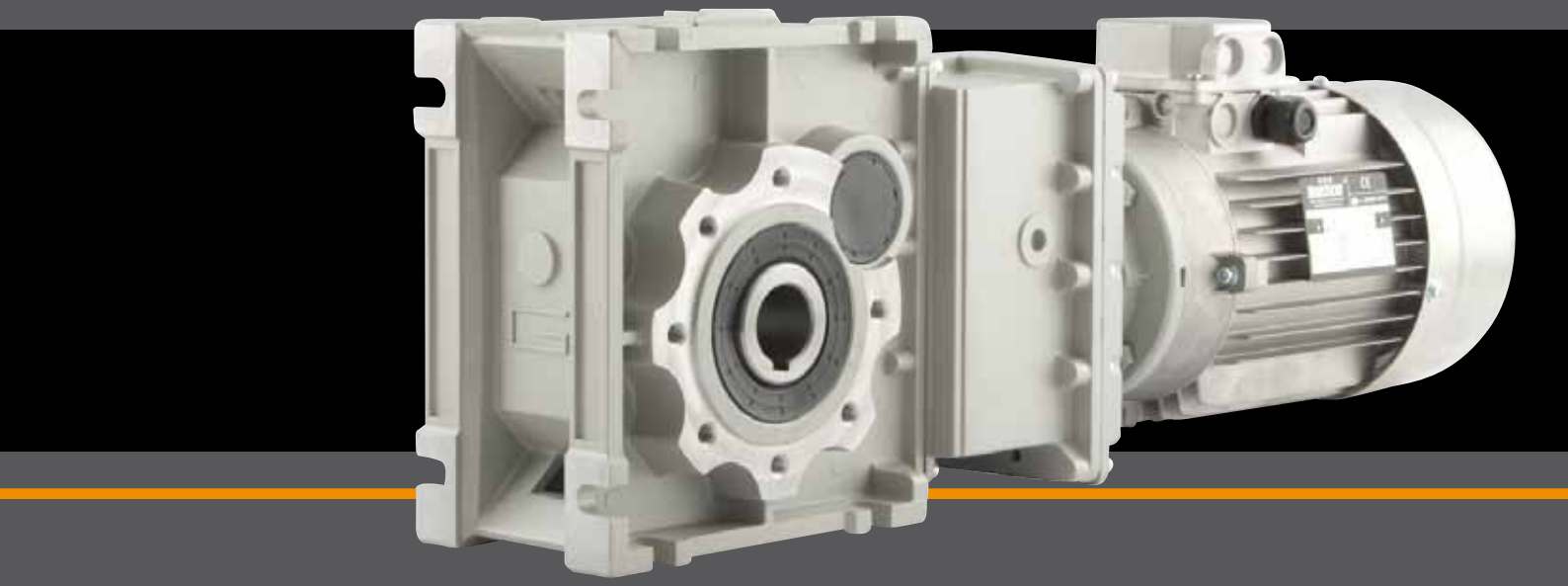
CMB

CMB

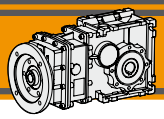


RIDUTTORI AD ASSI ORTOGONALI

BEVEL HELICAL GEARBOXES



TRANSTECNO · GENUINE · PRODUCTS ·



ENERGY SAVING

Caratteristiche tecniche

Technical features

I riduttori ad ingranaggi ad assi ortogonali della serie CMB sono caratterizzati da un elevato grado di modularità: essi infatti sono stati realizzati con una carcassa completamente intercambiabile con quella dei riduttori a vite senza fine della serie CM.
Sono pertanto configurabili secondo le esigenze dell'applicazione con flangia di uscita, albero di uscita, braccio di reazione.

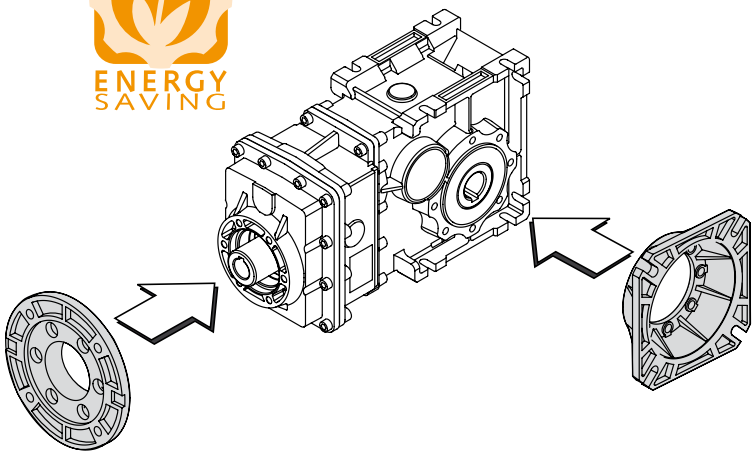
The high degree of modularity of CMB bevel helical gearbox allows it to be completely interchangeable with CM wormgearboxes.

It is possible to set up the version required using output flanges, output shafts and optional torque arms.

Caratteristiche comuni a tutta la serie:
- Carcassa in alluminio nelle grandezze 402, 502, 633 e 903. La grandezza 1103 è costruita con carcassa in ghisa.
- Ingranaggi sempre rettificati.
- Lubrificazione permanente con olio sintetico.

Common features of all CMB range are:
- *Die-cast aluminum housing on sizes 402, 502, 633 and 903. Cast-iron housing on size 1103.*
- *Ground helical gears.*
- *Permanent synthetic oil long-life lubrication.*

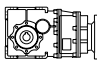
ENERGY SAVING



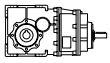
Designazione

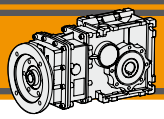
Classification

RIDUTTORE / *GEARBOX*

CMB	63	3	U	9.81	D25	90	B5	SZDX	BRSX	90	B3
Tipo *Type*	Grandezza *Size*	Stadi *Stages*	Versione *Version*	Rapporto *Ratio*	Albero uscita *Output shaft*	IEC	Forma costruttiva *Version*	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*	Pos. di montaggio *Mounting position*
CMB 	**40** **50** **63** **90** **110**	**2** **3**	**U...** **FD...** **FS...** **FBD...** **FBS...** **FLD...** **FLS...**	vedi tabelle *see tables*	vedi tabelle *see tables*	**56..** **—** **90..**	**B5** **B14**	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX**	**0°** **90°** **180°** **270°**	**B3** **B8** **B6** **B7** **V5** **V6**

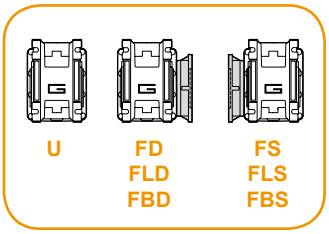
RIDUTTORE / *GEARBOX*

CMBIS	63	3	U	9.81	D25	SZDX	BRSX	90	B3
Tipo *Type*	Grandezza *Size*	Stadi *Stages*	Versione *Version*	Rapporto *Ratio*	Albero uscita *Output shaft*	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*	Pos. di montaggio *Mounting position*
CMBIS 	**40** **50** **63** **90** **110**	**2** **3**	**U...** **FD...** **FS...** **FBD...** **FBS...** **FLD...** **FLS...**	vedi tabelle *see tables*	vedi tabelle *see tables*	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX**	**0°** **90°** **180°** **270°**	**B3** **B8** **B6** **B7** **V5** **V6**

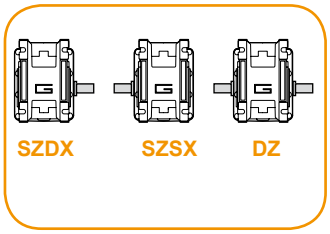


Designazione — *Classification*

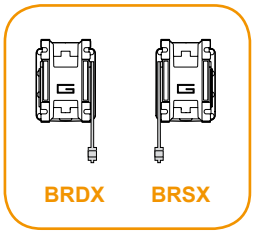
Versione Riduttore
Gearbox Version



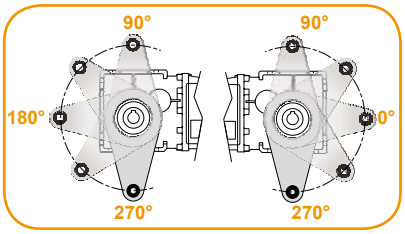
Albero di uscita
Output shaft



Braccio di reazione
Torque arm



Angolo
Angle

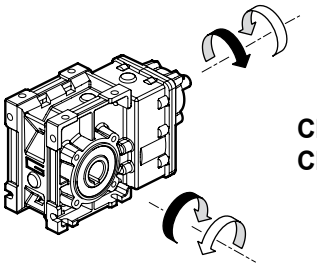


MOTORE / *MOTOR*

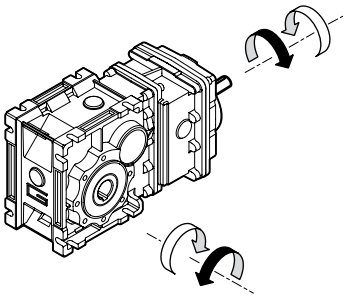
1.5kW	4p	3ph	50Hz	T1
Potenza *Power* Vedi tabelle *See tables*	Poli *Poles* **2p** **4p** **6p** **8p**	Fasi *Phases* **1ph** **3ph**	Frequenza *Frequency* **50Hz** **60Hz**	Pos. morsettiera *Terminal box pos.* **T1** (Std) **T4** **T2** **T3**

Sensi di rotazione — *Direction of rotation*

CMB...2
CMBIS..2



CMB...3
CMBIS..3



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_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / *Output torque referred to* P_1
Pn_1	[kW]	Potenza nominale in entrata / Nominal *input power*
Mn_2	[Nm]	Coppia nominale in uscita in funzione di Pn_1 / Nominal *output torque referred to* Pn_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*

Tutti i riduttori nelle taglie 402, 502, 633 e 903 sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione. Per la taglia 1103 la lubrificazione dipende dalla posizione di montaggio.

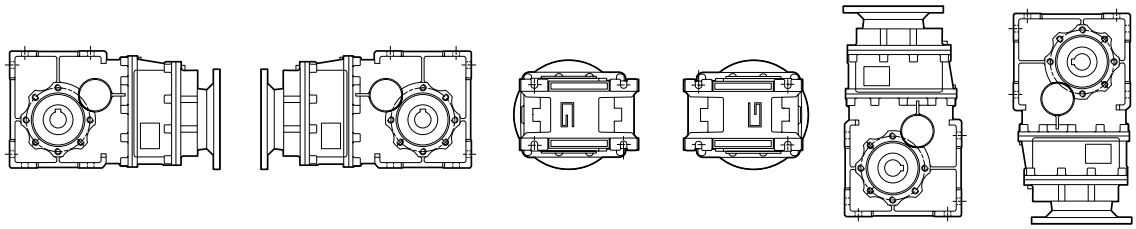
Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use sizes 402, 502, 633 and 903 in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance. For size 1103 lubrication depends on assembly position.

CMB CMBIS	Quantità di olio (litri) / *Oil quantity (litres)*						
	B3	B8	B6	B7	V5	V6	
402	0.4						Lubrificati a vita *Life lubrication*
502	0.52						
633	1.3						
903	2.8						
1103	4.7	(1)	(1)	(1)	(1)	4.2	

(1) Contattare il ns. Servizio Tecnico / *Contact our Technical Service*

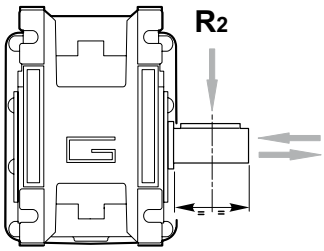
N.B.
Le quantità di lubrificante sono indipendenti dalla posizione di montaggio per le taglie 402, 502, 633 e 903.
The oil quantity does not depend on mounting position for sizes 402, 502, 633 and 903.

Posizioni di montaggio / *Mounting positions*



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

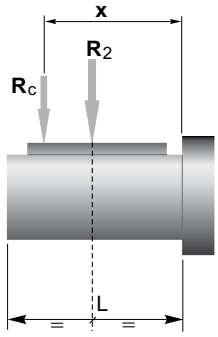
Carichi radiali — *Radial loads*



n_2 [min^{-1}]	R_2 [N]				
	CMB 402	CMB 502	CMB 633	CMB 903	CMB1103
400	905	1116	1835	2682	3409
300	996	1228	2020	2952	3752
200	1141	1406	2312	3379	4294
170	1204	1484	2441	3567	4534
140	1414	1743	2604	3806	4837
100	1582	1949	2913	4686	5411
90	1638	2019	3321	4853	5832
60	2047	2490	3801	5556	7299
40	2524	3029	4492	6614	8355
30	2778	3334	5159	7540	9524
20	3180	3816	5906	8631	10903
15	3500	4200	6500	9500	12000
10	3500	4200	6500	9500	12000

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:

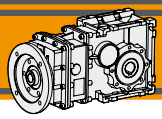


	CMB 402	CMB 502	CMB 633	CMB 903	CMB 1103
a	86	104	118	157	173
b	66	79	93	117	133
R_{2MAX}	3500	4200	6500	9500	12000

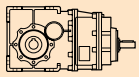
$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

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



Dati tecnici — n_1 1400 min^{-1} — ***Technical data***



CMBIS 402

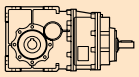
n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
227	40	1.0	6.18
187	40	0.83	7.49
152	40	0.68	9.20
118	45	0.59	11.83
112	45	0.56	12.48
94.4	45	0.47	14.83
79.4	45	0.40	17.63
75.3	55	0.46	18.60
62.7	55	0.38	22.33
58.6	55	0.36	23.91
48.5	65	0.35	28.89
45.4	65	0.33	30.84
41.7	65	0.30	33.57
39.3	65	0.28	35.63
32.7	65	0.24	42.75
25.3	65	0.18	55.31
23.7	65	0.17	59.06
21.8	65	0.16	64.29

CMBIS502

n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
227	70	1.8	6.18
187	70	1.5	7.49
152	70	1.2	9.20
118	90	1.2	11.83
112	90	1.1	12.48
94.4	90	0.95	14.83
79.4	90	0.80	17.63
75.3	110	0.92	18.60
62.7	110	0.77	22.33
58.6	110	0.72	23.91
48.5	125	0.67	28.89
45.4	125	0.63	30.84
41.7	125	0.58	33.57
39.3	125	0.55	35.63
32.7	125	0.46	42.75
25.3	125	0.35	55.31
23.7	125	0.33	59.06
21.8	125	0.30	64.29

Nota:
Pn_1 è la potenza meccanica.
La potenza applicabile è ridotta del fattore termico.
Per maggiori dettagli consultare il nostro Servizio Tecnico.

Note:
Pn_1 is an input mechanical power which must be reduced by the heating factor in order to get the relevant one. For more details please contact our Technical Service.



CMBIS 633

n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
213	150	3.6	6.58
175	150	2.9	7.99
143	150	2.4	9.81
134	150	2.2	10.44
112	150	1.9	12.53
105	150	1.8	13.31
88.6	170	1.7	15.81
78.8	220	1.9	17.77
64.9	220	1.6	21.56
52.9	220	1.3	26.48
49.7	220	1.2	28.17
41.4	220	1.0	33.81
39.0	220	0.96	35.92
36.0	250	1.00	38.88
29.7	250	0.83	47.16
24.2	250	0.67	57.93
22.7	250	0.63	61.63
18.9	250	0.53	73.96
17.8	250	0.50	78.58
15.0	250	0.42	93.33
10.0	250	0.28	140.52
7.7	250	0.21	181.81
6.6	250	0.18	211.31

CMBIS 903

n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
211	280	6.6	6.65
175	280	5.5	8.00
144	280	4.5	9.74
125	280	3.9	11.21
99.3	300	3.3	14.09
78.0	450	3.9	17.95
64.8	450	3.2	21.60
53.2	450	2.7	26.30
46.3	450	2.3	30.25
35.7	500	2.0	39.26
29.6	500	1.7	47.25
24.3	500	1.4	57.52
21.2	500	1.2	66.17
16.8	500	0.94	83.20
10.6	500	0.59	132.23
7.3	500	0.41	191.06
6.3	500	0.35	221.88

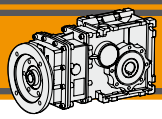
CMBIS 1103

n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
198	550	12.1	7.08
156	550	9.5	8.99
128	550	7.9	10.90
112	550	6.9	12.52
89.2	620	6.2	15.69
76.7	810	6.9	18.25
60.4	810	5.4	23.18
49.8	810	4.5	28.11
43.4	810	3.9	32.27
37.7	900	3.8	37.09
29.7	900	3.0	47.12
24.5	900	2.5	57.14
21.3	900	2.1	65.59
17.0	900	1.7	82.21
14.4	900	1.4	97.25
10.8	900	1.1	130.07
7.5	900	0.75	187.50

Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.06						
56A4 (1400 min^{-1})	**39.3**	14	4.7	35.63	**CMB402**	**B5/B14**
	32.7	16	4.0	42.75		**B5/B14**
	25.3	21	3.1	55.31		**B5/B14**
	23.7	23	2.9	59.06		**B5/B14**
	21.8	25	2.6	64.29		**B5/B14**
0.09						
56B4 (1400 min^{-1})	**48.5**	17	3.9	28.89	**CMB402**	**B5/B14**
	45.4	18	3.7	30.84		**B5/B14**
	41.7	19	3.4	33.57		**B5/B14**
	39.3	21	3.2	35.63		**B5/B14**
	32.7	25	2.6	42.75		**B5/B14**
	25.3	32	2.0	55.31		**B5/B14**
	23.7	34	1.9	59.06		**B5/B14**
	21.8	37	1.8	64.29		**B5/B14**
0.12						
63A4 (1400 min^{-1})	**227**	5	8.4	6.18	**CMB402**	**B5/B14**
	187	6	6.9	7.49		**B5/B14**
	152	7	5.6	9.20		**B5/B14**
	118	9	4.9	11.83		**B5/B14**
	112	10	4.7	12.48		**B5/B14**
	94.4	11	3.9	14.83		**B5/B14**
	79.4	14	3.3	17.63		**B5/B14**
	75.3	14	3.8	18.60		**B5/B14**
	62.7	17	3.2	22.33		**B5/B14**
	58.6	18	3.0	23.91		**B5/B14**
	48.5	22	2.9	28.89		**B5/B14**
	45.4	24	2.7	30.84		**B5/B14**
	41.7	26	2.5	33.57		**B5/B14**
	39.3	27	2.4	35.63		**B5/B14**
	32.7	33	2.0	42.75		**B5/B14**
	25.3	43	1.5	55.31		**B5/B14**
	23.7	45	1.4	59.06		**B5/B14**
	21.8	49	1.3	64.29		**B5/B14**
	32.7	33	3.8	42.75	**CMB502**	**B5/B14**
	25.3	43	2.9	55.31		**B5/B14**
	23.7	45	2.8	59.06		**B5/B14**
	21.8	49	2.5	64.29		**B5/B14**
	18.9	57	4.4	73.96	**CMB633**	**B5**
	17.8	60	4.1	78.58		**B5**
	15.0	72	3.5	93.33		**B5**
	10.0	108	2.3	140.52		**B5**
	7.7	140	1.8	181.81		**B5**
	6.6	163	1.5	211.31		**B5**
0.18						
63B4 (1400 min^{-1})	**227**	7	5.6	6.18	**CMB402**	**B5/B14**
	187	9	4.6	7.49		**B5/B14**
	152	11	3.8	9.20		**B5/B14**
	118	14	3.3	11.83		**B5/B14**
	112	14	3.1	12.48		**B5/B14**
	94.4	17	2.6	14.83		**B5/B14**
	79.4	20	2.2	17.63		**B5/B14**
	75.3	21	2.6	18.60		**B5/B14**
	62.7	26	2.1	22.33		**B5/B14**
	58.6	28	2.0	23.91		**B5/B14**
	48.5	33	1.9	28.89		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.18						
63B4 (1400 min^{-1})	**45.4**	36	1.8	30.84	**CMB402**	**B5/B14**
	41.7	39	1.7	33.57		**B5/B14**
	39.3	41	1.6	35.63		**B5/B14**
	32.7	49	1.3	42.75		**B5/B14**
	25.3	64	1.0	55.31		**B5/B14**
	23.7	68	0.95	59.06		**B5/B14**
	21.8	74	0.88	64.29		**B5/B14**
	45.4	36	3.5	30.84	**CMB502**	**B5/B14**
	41.7	39	3.2	33.57		**B5/B14**
	39.3	41	3.0	35.63		**B5/B14**
	32.7	49	2.5	42.75		**B5/B14**
	25.3	64	2.0	55.31		**B5/B14**
	23.7	68	1.8	59.06		**B5/B14**
	21.8	74	1.7	64.29		**B5/B14**
	24.2	67	3.7	57.93	**CMB633**	**B5**
	22.7	71	3.5	61.63		**B5**
	18.9	85	2.9	73.96		**B5**
	17.8	91	2.8	78.58		**B5**
	15.0	108	2.3	93.33		**B5**
	10.0	162	1.5	140.52		**B5**
	7.7	210	1.2	181.81		**B5**
	6.6	244	1.0	211.31		**B5**
0.25						
71A4 (1400 min^{-1})	**227**	10	4.0	6.18	**CMB402**	**B5/B14**
	187	12	3.3	7.49		**B5/B14**
	152	15	2.7	9.20		**B5/B14**
	118	19	2.4	11.83		**B5/B14**
	112	20	2.2	12.48		**B5/B14**
	94.4	24	1.9	14.83		**B5/B14**
	79.4	28	1.6	17.63		**B5/B14**
	75.3	30	1.8	18.60		**B5/B14**
	62.7	36	1.5	22.33		**B5/B14**
	58.6	38	1.4	23.91		**B5/B14**
	48.5	46	1.4	28.89		**B5/B14**
	45.4	49	1.3	30.84		**B5/B14**
	41.7	54	1.2	33.57		**B5/B14**
	39.3	57	1.1	35.63		**B5/B14**
	32.7	69	0.9	42.75		**B5/B14**
	227	10	7.1	6.18	**CMB502**	**B5/B14**
	187	12	5.8	7.49		**B5/B14**
	152	15	4.7	9.20		**B5/B14**
	118	19	4.7	11.83		**B5/B14**
	112	20	4.5	12.48		**B5/B14**
	94.4	24	3.8	14.83		**B5/B14**
	79.4	28	3.2	17.63		**B5/B14**
	75.3	30	3.7	18.60		**B5/B14**
	62.7	36	3.1	22.33		**B5/B14**
	58.6	38	2.9	23.91		**B5/B14**
	48.5	46	2.7	28.89		**B5/B14**
	45.4	49	2.5	30.84		**B5/B14**
	41.7	54	2.3	33.57		**B5/B14**
	39.3	57	2.2	35.63		**B5/B14**
	32.7	69	1.8	42.75		**B5/B14**
	25.3	89	1.4	55.31		**B5/B14**
	23.7	95	1.3	59.06		**B5/B14**
	21.8	103	1.2	64.29		**B5/B14**



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.25						
71A4 (1400 min^{-1})	**41.4**	54	4.1	33.81	**CMB633**	**B5/B14**
	39.0	58	3.8	35.92		**B5/B14**
	36.0	62	4.0	38.88		**B5/B14**
	29.7	76	3.3	47.16		**B5/B14**
	24.2	93	2.7	57.93		**B5/B14**
	22.7	99	2.5	61.63		**B5/B14**
	18.9	119	2.1	73.96		**B5/B14**
	17.8	126	2.0	78.58		**B5/B14**
	15.0	150	1.7	93.33		**B5/B14**
	10.0	225	1.1	140.52		**B5/B14**
	7.7	291	0.9	181.81		**B5/B14**
	24.3	92	5.4	57.52	**CMB903**	**B5**
	21.2	106	4.7	66.17		**B5**
	16.8	133	3.7	83.20		**B5**
	10.6	212	2.4	132.23		**B5**
	7.3	306	1.6	191.06		**B5**
	6.3	356	1.4	221.88		**B5**
0.37						
71B4 (1400 min^{-1})	**227**	15	2.7	6.18	**CMB402**	**B5/B14**
	187	18	2.3	7.49		**B5/B14**
	152	22	1.8	9.20		**B5/B14**
	118	28	1.6	11.83		**B5/B14**
	112	30	1.5	12.48		**B5/B14**
	94.4	35	1.3	14.83		**B5/B14**
	79.4	42	1.1	17.63		**B5/B14**
	75.3	44	1.2	18.60		**B5/B14**
	62.7	53	1.0	22.33		**B5/B14**
	58.6	57	1.0	23.91		**B5/B14**
	48.5	69	0.9	28.89		**B5/B14**
	45.4	73	0.9	30.84		**B5/B14**
	227	15	4.8	6.18	**CMB502**	**B5/B14**
	187	18	3.9	7.49		**B5/B14**
	152	22	3.2	9.20		**B5/B14**
	118	28	3.2	11.83		**B5/B14**
	112	30	3.0	12.48		**B5/B14**
	94.4	35	2.6	14.83		**B5/B14**
	79.4	42	2.2	17.63		**B5/B14**
	75.3	44	2.5	18.60		**B5/B14**
	62.7	53	2.1	22.33		**B5/B14**
	58.6	57	1.9	23.91		**B5/B14**
	48.5	69	1.8	28.89		**B5/B14**
	45.4	73	1.7	30.84		**B5/B14**
	41.7	80	1.6	33.57		**B5/B14**
	39.3	85	1.5	35.63		**B5/B14**
	32.7	101	1.2	42.75		**B5/B14**
	25.3	131	1.0	55.31		**B5/B14**
	23.7	140	0.9	59.06		**B5/B14**
	64.9	51	4.3	21.56	**CMB633**	**B5/B14**
	52.9	63	3.5	26.48		**B5/B14**
	49.7	67	3.3	28.17		**B5/B14**
	41.4	80	2.7	33.81		**B5/B14**
	39.0	85	2.6	35.92		**B5/B14**
	36.0	92	2.7	38.88		**B5/B14**
	29.7	112	2.2	47.16		**B5/B14**
	24.2	137	1.8	57.93		**B5/B14**
	22.7	146	1.7	61.63		**B5/B14**
	18.9	175	1.4	73.96		**B5/B14**
	17.8	186	1.3	78.58		**B5/B14**
	15.0	221	1.1	93.33		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.37						
71B4 (1400 min^{-1})	**29.6**	112	4.5	47.25	**CMB903**	**B5**
	24.3	136	3.7	57.52		**B5**
	21.2	157	3.2	66.17		**B5**
	16.8	197	2.5	83.20		**B5**
	10.6	314	1.6	132.23		**B5**
	7.3	453	1.1	191.06		**B5**
	6.3	526	0.9	221.88		**B5**
0.55						
80A4 (1400 min^{-1})	**227**	22	3.2	6.18	**CMB502**	**B5/B14**
	187	26	2.6	7.49		**B5/B14**
	152	32	2.2	9.20		**B5/B14**
	118	42	2.2	11.83		**B5/B14**
	112	44	2.0	12.48		**B5/B14**
	94.4	52	1.7	14.83		**B5/B14**
	79.4	62	1.4	17.63		**B5/B14**
	75.3	66	1.7	18.60		**B5/B14**
	62.7	79	1.4	22.33		**B5/B14**
	58.6	84	1.3	23.91		**B5/B14**
	48.5	102	1.2	28.89		**B5/B14**
	45.4	109	1.1	30.84		**B5/B14**
	41.7	118	1.1	33.57		**B5/B14**
	39.3	126	1.0	35.63		**B5/B14**
	213	23	6.5	6.58	**CMB633**	**B5/B14**
	175	28	5.3	7.99		**B5/B14**
	143	35	4.3	9.81		**B5/B14**
	134	37	4.1	10.44		**B5/B14**
	112	44	3.4	12.53		**B5/B14**
	105	47	3.2	13.31		**B5/B14**
	88.6	56	3.0	15.81		**B5/B14**
	78.8	63	3.5	17.77		**B5/B14**
	64.9	76	2.9	21.56		**B5/B14**
	52.9	93	2.4	26.48		**B5/B14**
	49.7	99	2.2	28.17		**B5/B14**
	41.4	119	1.8	33.81		**B5/B14**
	39.0	127	1.7	35.92		**B5/B14**
	36.0	137	1.8	38.88		**B5/B14**
	29.7	166	1.5	47.16		**B5/B14**
	24.2	204	1.2	57.93		**B5/B14**
	22.7	217	1.2	61.63		**B5/B14**
	18.9	261	1.0	73.96		**B5/B14**
	17.8	277	0.9	78.58		**B5/B14**
	46.3	107	4.2	30.25	**CMB903**	**B5/B14**
	35.7	138	3.6	39.26		**B5/B14**
	29.6	167	3.0	47.25		**B5/B14**
	24.3	203	2.5	57.52		**B5/B14**
	21.2	233	2.1	66.17		**B5/B14**
	16.8	293	1.7	83.20		**B5/B14**
	10.6	466	1.1	132.23		**B5/B14**
	29.7	166	5.4	47.12	**CMB1103**	**B5**
	24.5	202	4.5	57.14		**B5**
	21.3	231	3.9	65.59		**B5**
	17.0	290	3.1	82.21		**B5**
	14.4	343	2.6	97.25		**B5**
	10.8	459	2.0	130.07		**B5**
	7.5	661	1.4	187.50		**B5**

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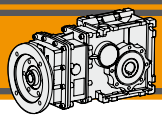
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.75						
80B4 (1400 min^{-1})	**227**	30	2.4	6.18	**CMB502**	**B5/B14**
	187	36	1.9	7.49		**B5/B14**
	152	44	1.6	9.20		**B5/B14**
	118	57	1.6	11.83		**B5/B14**
	112	60	1.5	12.48		**B5/B14**
	94.4	71	1.3	14.83		**B5/B14**
	79.4	85	1.1	17.63		**B5/B14**
	75.3	89	1.2	18.60		**B5/B14**
	62.7	107	1.0	22.33		**B5/B14**
	58.6	115	1.0	23.91		**B5/B14**
	48.5	139	0.9	28.89		**B5/B14**
	213	32	4.7	6.58	**CMB633**	**B5/B14**
	175	38	3.9	7.99		**B5/B14**
	143	47	3.2	9.81		**B5/B14**
	134	50	3.0	10.44		**B5/B14**
	112	60	2.5	12.53		**B5/B14**
	105.2	64	2.3	13.31		**B5/B14**
	88.6	76	2.2	15.81		**B5/B14**
	78.8	85	2.6	17.77		**B5/B14**
	64.9	104	2.1	21.56		**B5/B14**
	52.9	127	1.7	26.48		**B5/B14**
	49.7	135	1.6	28.17		**B5/B14**
	41.4	163	1.4	33.81		**B5/B14**
	39.0	173	1.3	35.92		**B5/B14**
	36.0	187	1.3	38.88		**B5/B14**
	29.7	227	1.1	47.16		**B5/B14**
	24.2	279	0.9	57.93		**B5/B14**
	22.7	296	0.8	61.63		**B5/B14**
	64.8	104	4.3	21.60	**CMB903**	**B5/B14**
	53.2	126	3.6	26.30		**B5/B14**
	46.3	145	3.1	30.25		**B5/B14**
	35.7	189	2.6	39.26		**B5/B14**
	29.6	227	2.2	47.25		**B5/B14**
	24.3	277	1.8	57.52		**B5/B14**
	21.2	318	1.6	66.17		**B5/B14**
	16.8	400	1.2	83.20		**B5/B14**
	49.8	135	6.0	28.11	**CMB1103**	**B5**
	43.4	155	5.2	32.27		**B5**
	37.7	178	5.0	37.09		**B5**
	29.7	227	4.0	47.12		**B5**
	24.5	275	3.3	57.14		**B5**
	21.3	315	2.9	65.59		**B5**
	17.0	395	2.3	82.21		**B5**
	14.4	468	1.9	97.25		**B5**
	10.8	626	1.4	130.07		**B5**
	7.5	902	1.0	187.50		**B5**
1.1						
90S4 (1400 min^{-1})	**213**	46	3.2	6.58	**CMB633**	**B5/B14**
	175	56	2.7	7.99		**B5/B14**
	143	69	2.2	9.81		**B5/B14**
	105	94	1.6	13.31		**B5/B14**
	88.6	112	1.5	15.81		**B5/B14**
	78.8	125	1.8	17.77		**B5/B14**
	64.9	152	1.4	21.56		**B5/B14**
	52.9	187	1.2	26.48		**B5/B14**
	39.0	253	0.9	35.92		**B5/B14**
	36.0	274	0.9	38.88		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.1						
90S4 (1400 min^{-1})	**211**	47	6.0	6.65	**CMB903**	**B5/B14**
	175	56	5.0	8.00		**B5/B14**
	144	69	4.1	9.74		**B5/B14**
	125	79	3.5	11.21		**B5/B14**
	99.3	99	3.0	14.09		**B5/B14**
	78.0	127	3.6	17.95		**B5/B14**
	64.8	152	3.0	21.60		**B5/B14**
	53.2	185	2.4	26.30		**B5/B14**
	46.3	213	2.1	30.25		**B5/B14**
	35.7	277	1.8	39.26		**B5/B14**
	29.6	333	1.5	47.25		**B5/B14**
	24.3	406	1.2	57.52		**B5/B14**
	21.2	467	1.1	66.17		**B5/B14**
	16.8	587	0.9	83.20		**B5/B14**
	60.4	164	5.0	23.18	**CMB1103**	**B5/B14**
	49.8	198	4.1	28.11		**B5/B14**
	43.4	228	3.6	32.27		**B5/B14**
	37.7	262	3.4	37.09		**B5/B14**
	29.7	332	2.7	47.12		**B5/B14**
	24.5	403	2.2	57.14		**B5/B14**
	21.3	463	1.9	65.59		**B5/B14**
	17.0	580	1.6	82.21		**B5/B14**
	14.4	686	1.3	97.25		**B5/B14**
	10.8	917	1.0	130.07		**B5/B14**
1.5						
90L4 (1400 min^{-1})	**213**	63	2.4	6.58	**CMB633**	**B5/B14**
	175	77	2.0	7.99		**B5/B14**
	143	94	1.6	9.81		**B5/B14**
	105	128	1.2	13.31		**B5/B14**
	88.6	152	1.1	15.81		**B5/B14**
	78.8	171	1.3	17.77		**B5/B14**
	64.9	207	1.1	21.56		**B5/B14**
	52.9	255	0.9	26.48		**B5/B14**
	211	64	4.4	6.65	**CMB903**	**B5/B14**
	175	77	3.6	8.00		**B5/B14**
	144	94	3.0	9.74		**B5/B14**
	125	108	2.6	11.21		**B5/B14**
	99.3	136	2.2	14.09		**B5/B14**
	78.0	173	2.6	17.95		**B5/B14**
	64.8	208	2.2	21.60		**B5/B14**
	53.2	253	1.8	26.30		**B5/B14**
	46.3	291	1.5	30.25		**B5/B14**
	35.7	378	1.3	39.26		**B5/B14**
	29.6	454	1.1	47.25		**B5/B14**
	24.3	553	0.9	57.52		**B5/B14**
	198	68	8.1	7.08	**CMB1103**	**B5/B14**
	156	86	6.4	8.99		**B5/B14**
	128	105	5.2	10.90		**B5/B14**
	112	120	4.6	12.52		**B5/B14**
	89.2	151	4.1	15.69		**B5/B14**
	76.7	176	4.6	18.25		**B5/B14**
	60.4	223	3.6	23.18		**B5/B14**
	49.8	270	3.0	28.11		**B5/B14**
	43.4	310	2.6	32.27		**B5/B14**
	37.7	357	2.5	37.09		**B5/B14**
	29.7	453	2.0	47.12		**B5/B14**
	24.5	550	1.6	57.14		**B5/B14**
	21.3	631	1.4	65.59		**B5/B14**
	17.0	791	1.1	82.21		**B5/B14**
	14.4	935	1.0	97.25		**B5/B14**

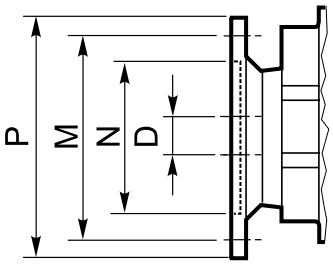


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.85						
90LB4 (1400 min^{-1})	**213**	78	1.9	6.58	**CMB633**	**B5/B14**
	175	95	1.6	7.99		**B5/B14**
	143	116	1.3	9.81		**B5/B14**
	105	158	1.0	13.31		**B5/B14**
	88.6	188	0.9	15.81		**B5/B14**
	78.8	211	1.0	17.77		**B5/B14**
	211	79	3.5	6.65	**CMB903**	**B5/B14**
	175	95	2.9	8.00		**B5/B14**
	144	116	2.4	9.74		**B5/B14**
	125	133	2.1	11.21		**B5/B14**
	99.3	167	1.8	14.09		**B5/B14**
	78.0	213	2.1	17.95		**B5/B14**
	64.8	256	1.8	21.60		**B5/B14**
	53.2	312	1.4	26.30		**B5/B14**
	46.3	359	1.3	30.25		**B5/B14**
	35.7	466	1.1	39.26		**B5/B14**
	29.6	561	0.9	47.25		**B5/B14**
	198	84	6.6	7.08	**CMB1103**	**B5/B14**
	156	107	5.2	8.99		**B5/B14**
	128	129	4.3	10.90		**B5/B14**
	112	148	3.7	12.52		**B5/B14**
	89.2	186	3.3	15.69		**B5/B14**
	76.7	216	3.7	18.25		**B5/B14**
	60.4	275	2.9	23.18		**B5/B14**
	49.8	334	2.4	28.11		**B5/B14**
	43.4	383	2.1	32.27		**B5/B14**
	37.7	440	2.0	37.09		**B5/B14**
	29.7	559	1.6	47.12		**B5/B14**
	24.5	678	1.3	57.14		**B5/B14**
	21.3	778	1.2	65.59		**B5/B14**
	17.0	975	0.9	82.21		**B5/B14**
2.2						
100LA4 (1400 min^{-1})	**211**	94	3.0	6.65	**CMB903**	**B5/B14**
	175	113	2.5	8.00		**B5/B14**
	144	137	2.0	9.74		**B5/B14**
	125	158	1.8	11.21		**B5/B14**
	99.3	199	1.5	14.09		**B5/B14**
	78.0	253	1.8	17.95		**B5/B14**
	64.8	305	1.5	21.60		**B5/B14**
	53.2	371	1.2	26.30		**B5/B14**
	46.3	427	1.1	30.25		**B5/B14**
	35.7	554	0.9	39.26		**B5/B14**
	198	100	5.5	7.08	**CMB1103**	**B5/B14**
	156	127	4.3	8.99		**B5/B14**
	128	154	3.6	10.90		**B5/B14**
	112	177	3.1	12.52		**B5/B14**
	89.2	221	2.8	15.69		**B5/B14**
	76.7	257	3.1	18.25		**B5/B14**
	60.4	327	2.5	23.18		**B5/B14**
	49.8	397	2.0	28.11		**B5/B14**
	43.4	455	1.8	32.27		**B5/B14**
	37.7	523	1.7	37.09		**B5/B14**
	29.7	665	1.4	47.12		**B5/B14**
	24.5	806	1.1	57.14		**B5/B14**
	21.3	925	1.0	65.59		**B5/B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
3						
100LB4 (1400 min^{-1})	**211**	128	2.2	6.65	**CMB903**	**B5/B14**
	175	154	1.8	8.00		**B5/B14**
	144	187	1.5	9.74		**B5/B14**
	125	216	1.3	11.21		**B5/B14**
	99.3	271	1.1	14.09		**B5/B14**
	78.0	345	1.3	17.95		**B5/B14**
	64.8	416	1.1	21.60		**B5/B14**
	53.2	506	0.9	26.30		**B5/B14**
	198	136	4.0	7.08	**CMB1103**	**B5/B14**
	156	173	3.2	8.99		**B5/B14**
	128	210	2.6	10.90		**B5/B14**
	112	241	2.3	12.52		**B5/B14**
	89.2	302	2.1	15.69		**B5/B14**
	76.7	351	2.3	18.25		**B5/B14**
	60.4	446	1.8	23.18		**B5/B14**
	49.8	541	1.5	28.11		**B5/B14**
	43.4	621	1.3	32.27		**B5/B14**
	37.7	713	1.3	37.09		**B5/B14**
	29.7	906	1.0	47.12		**B5/B14**
4						
112M4 (1400 min^{-1})	**211**	171	1.6	6.65	**CMB903**	**B5/B14**
	175	205	1.4	8.00		**B5/B14**
	144	250	1.1	9.74		**B5/B14**
	125	287	1.0	11.21		**B5/B14**
	99.3	361	0.8	14.09		**B5/B14**
	78.0	460	1.0	17.95		**B5/B14**
	198	182	3.0	7.08	**CMB1103**	**B5/B14**
	156	231	2.4	8.99		**B5/B14**
	128	280	2.0	10.90		**B5/B14**
	112	321	1.7	12.52		**B5/B14**
	89.2	402	1.5	15.69		**B5/B14**
	76.7	468	1.7	18.25		**B5/B14**
	60.4	595	1.4	23.18		**B5/B14**
	49.8	721	1.1	28.11		**B5/B14**
	43.4	828	1.0	32.27		**B5/B14**
	37.7	951	0.9	37.09		**B5/B14**
5.5						
132S4 (1400 min^{-1})	**198**	250	2.2	7.08	**CMB1103**	**B5**
	156	317	1.7	8.99		**B5**
	128	385	1.4	10.90		**B5**
	112	441	1.2	12.52		**B5**
	89.2	553	1.1	15.69		**B5**
	76.7	644	1.3	18.25		**B5**
	60.4	818	1.0	23.18		**B5**
7.5						
132MA4 (1400 min^{-1})	**198**	340	1.6	7.08	**CMB1103**	**B5**
	156	432	1.3	8.99		**B5**
	128	524	1.0	10.90		**B5**
	112	602	0.9	12.52		**B5**
	89.2	754	0.8	15.69		**B5**
	76.7	878	0.9	18.25		**B5**

Motori applicabili

IEC Motor adapters

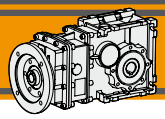


	IEC	N	M	P	D	i (rapporto / *ratio*)																
						6.18	7.49	9.2	11.83	12.48	14.83	17.63	18.6	22.33	23.91	28.89	30.84	33.57	35.63	42.75	55.31	59.06	64.29
CMB402	**71B5**	110	130	160	14																		
	71B14	70	85	105																			
	63B5	95	115	140	11	**B**																	
	63B14	60	75	90																			
	56B5	80	100	120	9	**BS**																	
	56B14	50	65	80																			

	IEC	N	M	P	D	i (rapporto / *ratio*)																
						6.18	7.49	9.2	11.83	12.48	14.83	17.63	18.6	22.33	23.91	28.89	30.84	33.57	35.63	42.75	55.31	59.06	64.29
CMB502	**80B5**	130	165	200	19																		
	80B14	80	100	120																			
	71B5	110	130	160	14																		
	71B14	70	85	105																			
	63B5	95	115	140	11	**B**																	
	63B14	60	75	90																			
	56B5	80	100	120	9	**BS**																	
	56B14	50	65	80																			

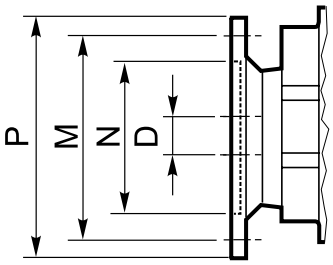
N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.
B/BS = Boccola di riduzione in acciaio

N.B.
Highlighted areas indicate motor inputs available on each size of unit.
***B/BS** = Metal shaft sleeve*



Motori applicabili

IEC Motor adapters



	IEC	N	M	P	D	i (rapporto / *ratio*)																							
						6.58	7.99	9.81	10.44	12.53	13.31	15.81	17.77	21.56	26.48	28.17	33.81	35.92	38.88	47.16	57.93	61.63	73.96	78.58	93.33	140.52	181.81	211.31
CMB633	**90 B5**	130	165	200	24																							
	90 B14	95	115	140																								
	80 B5	130	165	200	19																							
	80 B14	80	100	120																								
	71 B5	110	130	160	14																							
	71 B14	70	85	105																								
	63 B5	95	115	140	11	**B**																						
						BS																						

	IEC	N	M	P	D	i (rapporto / *ratio*)																							
						6.65	8.00	9.74	11.21	14.09	17.95	21.60	26.30	30.25	39.26	47.25	57.52	66.17	83.20	132.23	191.06	221.88							
CMB903	**100/112B5**	180	215	250	28																							
	100/112B14	110	130	160																								
	90 B5	130	165	200	24																							
	90 B14	95	115	140																								
	80 B5	130	165	200	19	**B**																						
	80 B14	80	100	120																								
	71 B5	110	130	160	14	**BS**																						

	IEC	N	M	P	D	i (rapporto / *ratio*)																							
						7.08	8.99	10.90	12.52	15.69	18.25	23.18	28.11	32.27	37.09	47.12	57.14	65.59	82.21	97.25	130.07	187.50							
CMB1103	**132/B5**	230	265	300	38																							
	100/112B5	180	215	250	28																							
	100/112B14	110	130	160																								
	90 B5	130	165	200	24																							
	90 B14	95	115	140																								
	80 B5	130	165	200	19	**B**																						
						BS																						

N.B.
Le aree evidenziate indicano l'applicabilità della corrispondente grandezza motore.
B/BS = Boccola di riduzione in acciaio

N.B.
Highlighted areas indicate motor inputs available on each size of unit.
***B/BS** = Metal shaft sleeve*

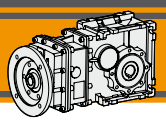
Dimensioni — *Dimensions*

CMB CMBIS	A	C	E	G	H	I	K	KE	a_2	L	M	N f7	N1	O	P	Q	R	S	U	V	CMB Peso / *Weight* [kg]	CMBIS Peso / *Weight* [kg]
402	70	100	121.5	154.5	50	24.5	60	4-M6x11	45°	73	75	60	71	6.5	87	55	71.5	6.5	151.5	35	3.4	3.5
502	80	120	144	165.5(1) 175.5(2)	60	23	70	4-M8x12	45°	87	85	70	85	8.5	98	64	84	7	162.5	40	4.7(1) 5(2)	4.8
633	100	144	174	241	72	0	85	7-M8x15	45°	106	95	80	104	8.5	110	80	102	8	233	50	9.5	9.2
903	140	206	238	287	103	0	100	7-M10x20	45°	134	130	110	130	13	160	102	135	11	279.5	70	18.4	18.1
1103	170	255	295	277.5	127.5	30	115	7-M10x19	45°	148	165	130	145	14	200	125	167.5	14	256.5	85	50	50.3

(1) IEC 56/63/71
(2) IEC 80

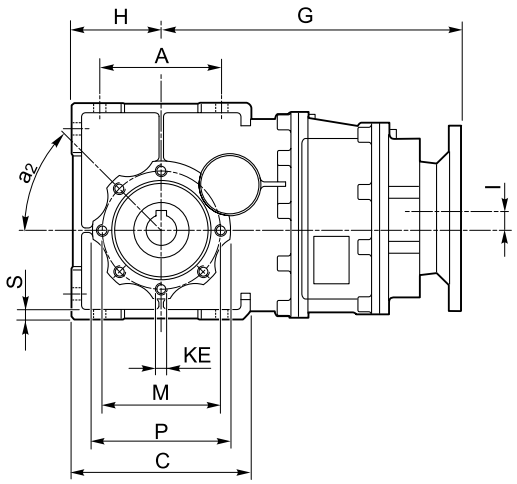
CMB CMBIS	Albero entrata *Input shaft*					Albero uscita cavo *Hollow output shaft*				
	D_1 j6	E_1	F_1	G_1	T_1	D_2 H8	F_2	G_2	b	t
402	14	30	5	M6	16	18 20	26	78	6	20.8 22.8
502	14	30	5	M6	16	25	30	92	8	28.3
633	16	40	5	M6	18	25	35	112	8	28.3
903	19	40	6	M6	21.5	35	45	140	10	38.3
1103	28	60	8	M10	31	42	50	155	12	45.3

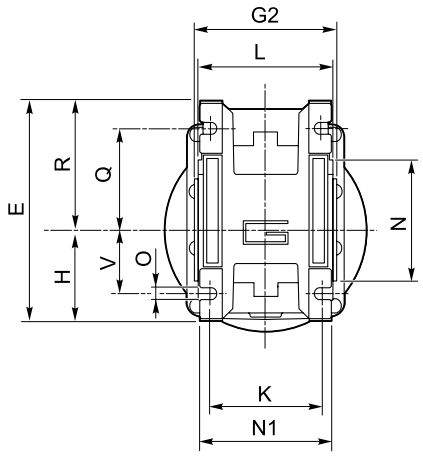
	Flange uscita / *Output flanges*																									
	F									**FL**									**FB**							
CMB CMBIS	a_1	KA	KB	KC	KM	KN H8	KO	KP	KQ	a_1	KA	KB	KC	KM	KN H8	KO	KP	KQ	a_1	KA	KB	KC	KM	KN H8	KO	KP	KQ
402	45°	67	7.5	4.5	80-95	60	9	110	95	45°	97	7.5	4.5	80-95	60	9	110	95	45°	80	8.5	5	115-125	95	9.5	140	112
502	45°	90	9	5	90-110	70	11	125	110	45°	120	9	5	90-110	70	11	125	110	45°	89	9	5	130-145	110	9.5	160	132
633	45°	82	10	6	150 - 160	115	11	180	142	45°	112	10	8	150 - 160	115	11	180	142	45°	98	11	5	165	130	11	200	160
903	45°	111	13	6	175 - 188	152	14	210	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1103	45°	131	15	6	230	170	14	280	260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



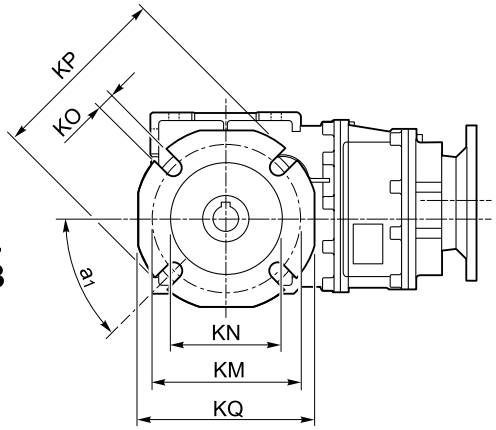
CMB.. - CMBIS..

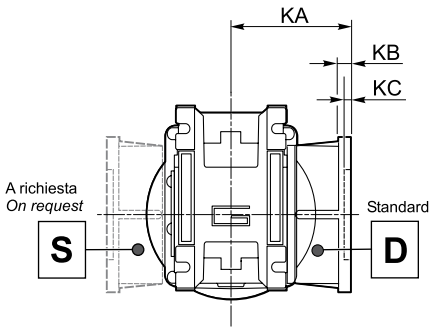
CMB..U





CMB..F
CMB..FL
CMB..FB





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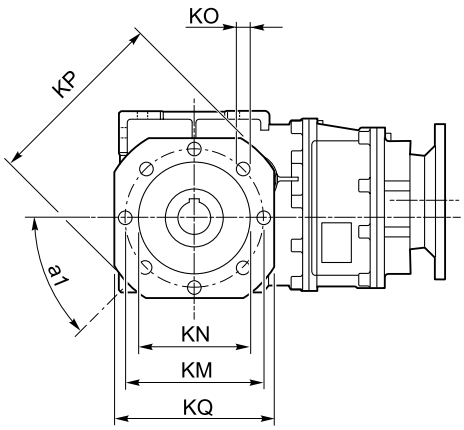

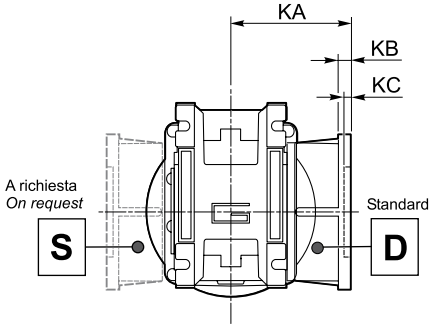

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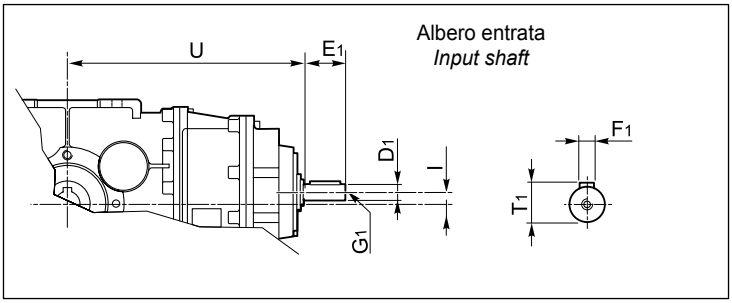
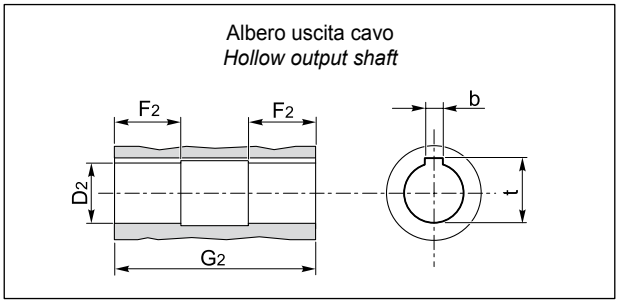
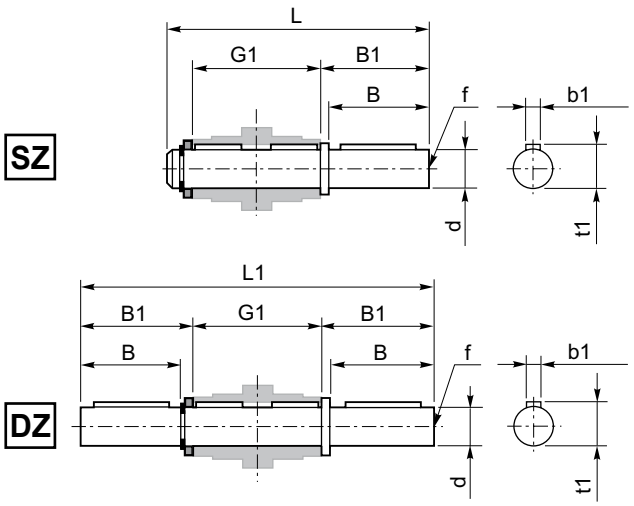
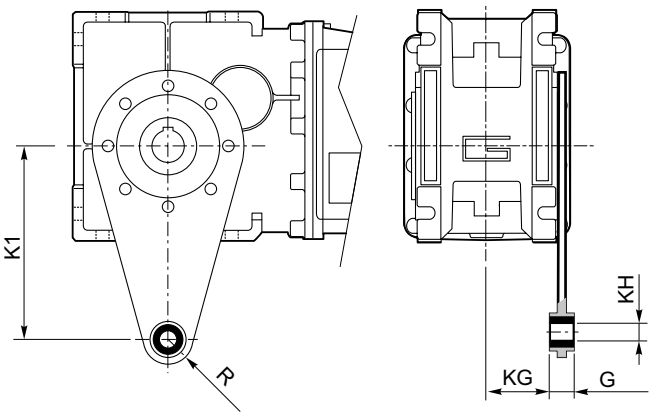




Accessori — *Accessories*





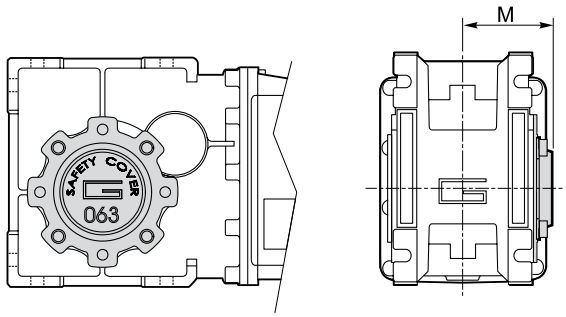
Albero lento / *Output shaft*

CMB CMBIS	d h7	B	B1	G1	L	L1	f	b1	t1
402	18	40	43	78	128	164	M6	6	20.5
502	25	50	53.5	92	153	199	M10	8	28
633	25	50	53.5	112	173	219	M10	8	28
903	35	80	84.5	140	234	309	M12	10	38
1103	42	80	84.5	155	249	324	M16	12	45

Braccio di reazione / *Torque arm*

CMB CMBIS	K1	G	KG	KH	R
402	100	14	31	10	18
502	100	14	38	10	18
633	150	14	47.5	10	18
903	200	25	56.5	20	30
1103	250	30	62	25	35

SC - *Safety cover*



CMB CMBIS	M
402	54.5
502	62.5
633	73
903	94
1103	102

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