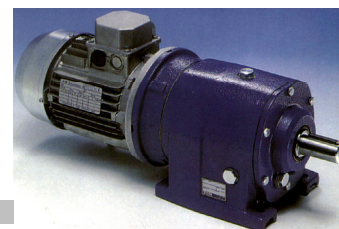


- *Reductores y Motorreductores*

- *Motores*

- *Variadores de Velocidad*



2021

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INDICE

REDUCTORES STM

<u>Reductores a Sin Fin y Corona</u>	Pág. 3
<u>Tabla de Potencias</u>	Pág. 4
<u>Dimensiones</u>	Pág. 5
<u>Modelos COMBINADOS</u>	Pág. 8

REDUCTORES STM (Italianos)

Sin Fin Y Corona



Nuestros reductores de tornillo sin fin están realizados según el criterio de la máxima fiabilidad en el tiempo, un resultado obtenido empleando los mejores materiales y criterios de proyecto modernos.

Carcasas, bridas y pies se ha realizado en fundición mecánica G20 UNI 5007 con la excepción de los modelos de baja potencia (28-40-50-63-70) para los que se utilizó aluminio SGALSi91 UNI 7369/3.

Los tornillos sin fin se han realizado en acero y luego han sido cementados, templados y rectificados.

La rectificación sobre la rosca, en los embregues de reducción donde el valor del módulo lo permite, se ha realizado con un perfil Zi, mejorando así los contactos entre las superficies dentadas y, por consiguiente, el rendimiento y la silenciosidad de funcionamiento.

Los cubos de la corona son de fundición G20, y luego se les añade bronce fundido GcuSn12 UNI7013.

Se han empleado cojinetes de rodillos cónicos o radiales con bolillos de gran calidad para garantizar una larga duración.

El programa de producción prevé también la aplicación de un limitador de par con alarma de paro y el ensamblaje con variador.

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REDUCTORES A SIN FIN Y CORONA: Tabla de potencias

n1=1400 min-1	ir	7	10	15	20	28	40	49	56	70	80	100
	n2 (min-1)	200	140	93	70	50	35	29	25	20	18	14

IEC		63 - 56 - 50					56 - 50					
RI 28 (1.4 kg)	T2M (Nm)	15	17	18	15	19	16	15	15	13	12	10
RI 28 (1.4 kg)	P (kW)	0.39	0.31	0.23	0.16	0.16	0.16	0.08	0.07	0.06	0.05	0.03
RMI 28	P1 (kW)	0.18	0.18	0.18	0.13	0.13	0.09	0.06	0.06	0.06	0.04	0.04
RMI 28	T2 (Nm)	7.0	9.7	14	13	16	15	11	12	14	9.8	11
RMI 28	Fs'	2.2	1.7	1.3	1.2	1.2	1.1	1.4	1.2	0.9	1.2	0.9
IEC		71 - 63 - 56					63 - 56					
RI 40 (2.1 kg)	T2M (Nm)	37	42	42	37	43	40	38	36	28	26	28
RI 40 (2.1 kg)	P (kW)	0.93	0.75	0.54	0.37	0.34	0.24	0.20	0.17	0.13	0.11	0.09
RMI 40	P1 (kW)	0.37	0.37	0.37	0.37	0.25	0.18	0.18	0.18	0.13	0.09	0.09
RMI 40	T2 (Nm)	15	20	29	37	32	29	34	37	29	22	28
RMI 40	Fs'	2.5	2.0	1.4	1.0	1.4	1.4	1.1	1.0	1.0	1.2	1.0
IEC		80 - 71				80 - 71 - 63	71 - 63					
RI 50 (3.8 kg)	T2M (Nm)	68	73	76	74	80	81	72	69	64	58	52
RI 50 (3.8 kg)	P (kW)	1.7	1.3	0.93	0.71	0.60	0.45	0.34	0.30	0.24	0.21	0.16
RMI 50	P1 (kW)	0.75	0.75	0.75	0.55	0.55	0.37	0.37	0.25	0.25	0.18	0.13
RMI 50	T2 (Nm)	30	42	61	57	74	67	78	57	67	72	61
RMI 50	Fs'	2.3	1.7	1.2	1.3	1.1	1.2	0.9	1.2	1.0	0.9	1.0
IEC		90 - 80 - 71					80 - 71					
RI 63 (6 kg)	T2M (Nm)	115	126	131	136	135	145	125	127	117	110	99
RI 63 (6 kg)	P (kW)	2.9	2.2	1.6	1.3	1.0	0.79	0.58	0.54	0.42	0.37	0.28
RMI 63	P1 (kW)	1.1	1.1	1.1	0.75	0.75	0.55	0.55	0.37	0.37	0.25	0.25
RMI 63	T2 (Nm)	44	62	90	79	102	101	118	88	102	75	87
RMI 63	Fs'	2.6	2.0	1.4	1.7	1.3	1.4	1.1	1.5	1.1	1.5	1.1
IEC		90 - 80					80 - 71					
RI 70 (13 kg)	T2M (Nm)	132	142	145	151	147	162	166	167	149	141	128
RI 70 (13 kg)	P (kW)	3.2	2.5	1.8	1.4	1.1	0.89	0.78	0.71	0.55	0.48	0.37
RMI 70	P1 (kW)	1.5	1.5	1.5	1.1	1.1	0.75	0.75	0.55	0.55	0.37	0.37
RMI 70	T2 (Nm)	61	85	123	116	149	137	160	130	150	109	129
RMI 70	Fs'	2.2	1.7	1.2	1.3	1.0	1.2	1.0	1.3	1.0	1.3	1.0
IEC		112 - 100 - 90					90 - 80					
RI 85 (19 kg)	T2M (Nm)	247	280	282	310	275	312	287	283	261	243	217
RI 85 (19 kg)	P (kW)	6.1	4.9	3.4	2.9	2.0	1.7	1.3	1.1	0.90	0.77	0.60
RMI 85	P1 (kW)	3	3	3	2.2	1.5	1.5	1.1	1.1	0.75	0.75	0.55
RMI 85	T2 (Nm)	122	172	249	237	206	282	239	277	218	237	199
RMI 85	Fs'	1.0	1.6	1.1	1.3	1.3	1.1	1.2	1.0	1.2	1.0	1.1
IEC		112 - 100					112 - 100 - 90					
RI 110 (38 kg)	T2M (Nm)	478	537	535	617	570	638	581	465	483	491	444
RI 110 (38 kg)	P (kW)	11.6	9.3	6.4	5.6	4.0	3.3	2.5	1.8	1.6	1.5	1.1
RMI 110	P1 (kW)	4	4	4	4	3	3	2.2	1.5	1.5	1.1	1.1
RMI 110	T2 (Nm)	164	232	336	442	430	589	507	395	458	372	428
RMI 110	Fs'	2.9	2.3	1.6	1.4	1.3	1.1	1.1	1.2	1.1	1.3	1.0
IEC		132 - 112 - 100					112 - 100		112 - 100 - 90			
RI 130 (48 kg)	T2M (Nm)	706	791	840	915	805	903	880	814	812	778	691
RI 130 (48 kg)	P (kW)	16.8	13.3	9.8	8.1	5.6	4.5	3.8	3.1	2.5	2.2	1.7
RMI 130	P1 (kW)	7.5	7.5	5.5	5.5	4	4	3	2.2	2.2	1.5	1.5
RMI 130	T2 (Nm)	315	445	473	623	581	797	702	580	705	764	875
RMI 130	Fs'	2.2	1.8	1.8	1.5	1.4	1.1	1.3	1.4	1.2	1.2	0.9
IEC		132			132 - 112 - 100			132-112-100-90			112-100-90	
RI 150 (77 kg)	T2M (Nm)	1070	1180	1270	1430	1280	1400	1320	1306	1183	1136	1029
RI 150 (77 kg)	P (kW)	25	19.9	14.6	12.5	8.8	6.8	5.6	4.7	3.7	3.2	2.4
RMI 150	P1 (kW)	9.2	9.2	9.2	9.2	7.5	5.5	4	4	3	3	2.2
RMI 150	T2 (Nm)	387	546	800	1054	1089	1126	949	1115	960	1081	930
RMI 150	Fs'	2.8	2.2	1.6	1.4	1.23	1.2	1.4	1.2	1.2	1.1	1.1
IEC		160 - 132					160 - 132 - 112 - 100				112 - 100	
RI 180 (130 kg)	T2M (Nm)	1510	1650	1800	2037	1870	2000	2080	2103	1900	1816	1622
RI 180 (130 kg)	P (kW)	36	27	20	17.8	12.4	9.8	8.4	7.5	5.9	5.0	3.8
RMI 180	P1 (kW)	15	15	15	15	11	7.5	7.5	5.5	5.5	4	3
RMI 180	T2 (Nm)	637	900	1320	1719	1660	1535	1855	1534	1786	1563	1289
RMI 180	Fs'	2.4	1.8	1.4	1.2	1.1	1.3	1.1	1.4	1.1	1.2	1.3

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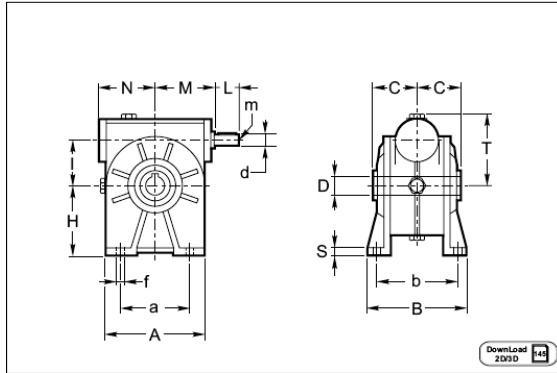
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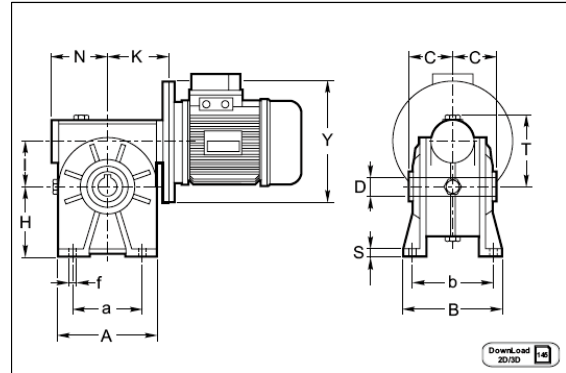
Dimensioni riduttori
Gearboxes dimensions
Abmessungen Getriebes

RI - RMI

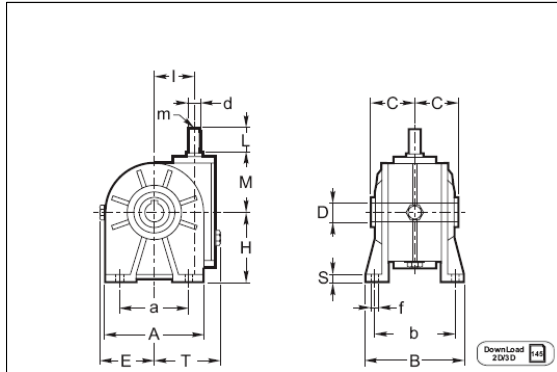
RI S



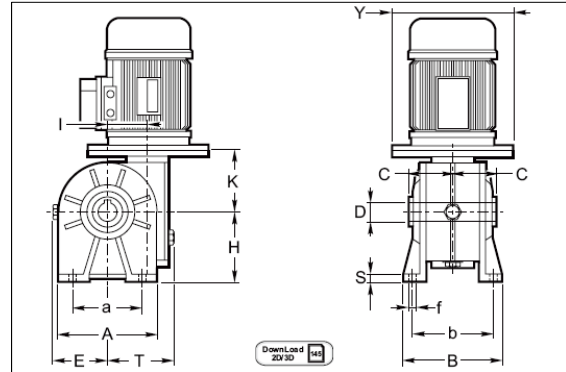
RMI S



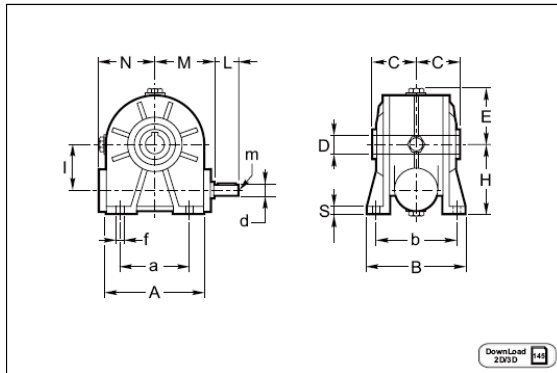
RI D



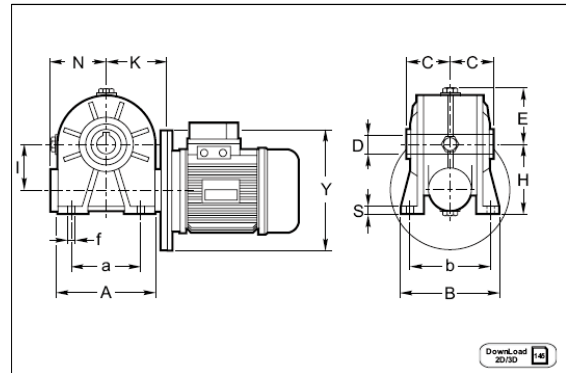
RMI D



RI I



RMI I



RI / RMI	A	a	B	b	C	D (H7)	d (j6)	E	f	H	I	L	M	m	N	S	T
28	67	52	78	66	30	14	9	40	5.5	52	28	20	47	M4	44.5(46)*	6	49
40	100	70	102	84	41	19(18)	11	59	7	71	40	22	64	M5	61(64)*	8	66
50	120	85	119	99	49	24(25)	14	69	9	85	50	30	74	M6	72	10	80
63	140	95	136	111	60	25	18	81	11	100	63	45	96	M6	81	11	99
70	158	120	140	116	60	28	19	87	11	115	70	40	97	M8	92	13	108
85	193	140	168	140	61	32(35)	24	105	13	135	85	50	115	M8	111	15	135
110	250	200	200	162	77.5	42	28	135	14	172	110	60	146	M8	142	17	170
130	286	235	230	190	90	48	38	150	15	200	130	80	166	M10	159	19	200
150	336	260	250	210	105	55	42	178	19	230	150	100	195	M12	189	20	224
180	400	310	320	260	120	65	48	210	22	265	180	110	235	M14	232	22	265

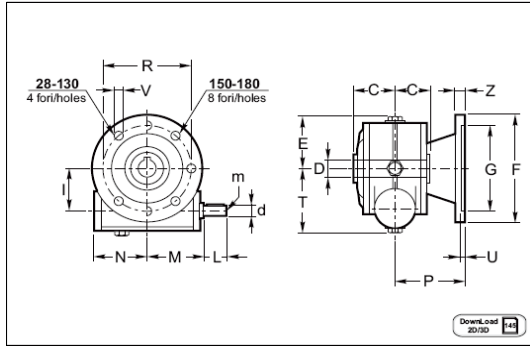
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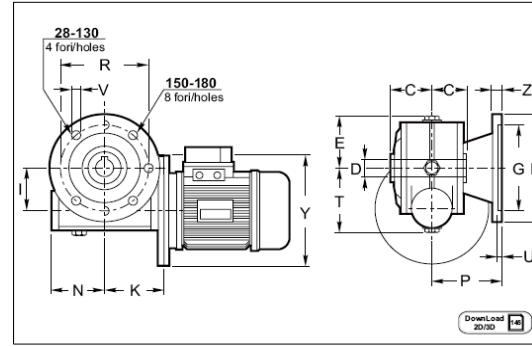
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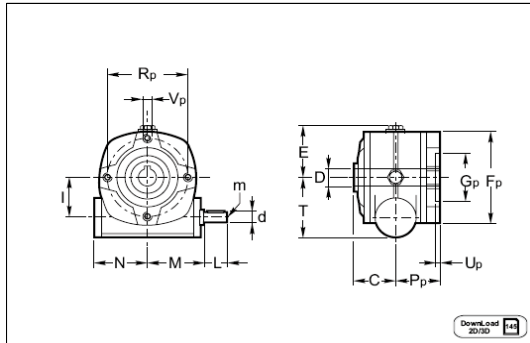
RI FL



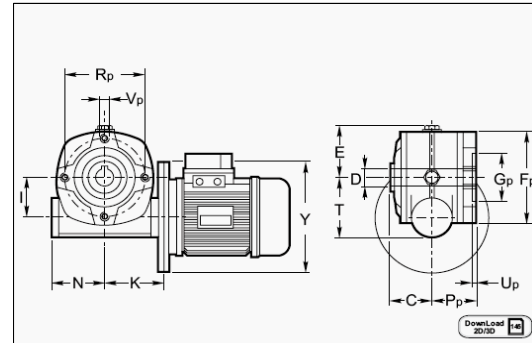
RMI FL



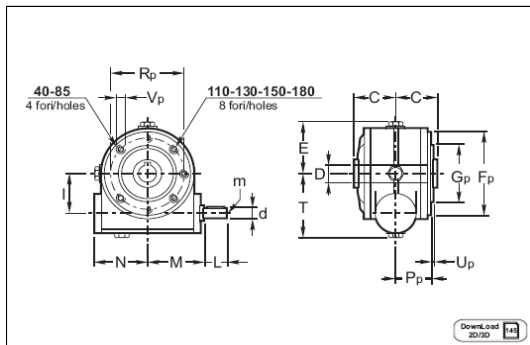
RI P



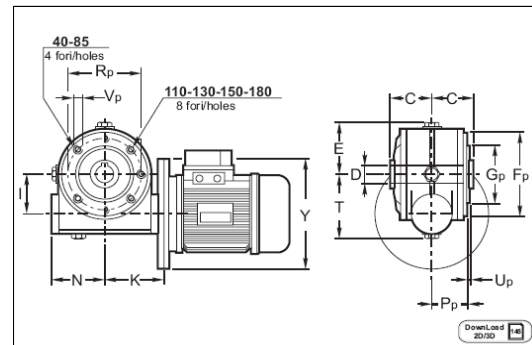
RMI P



RI PP



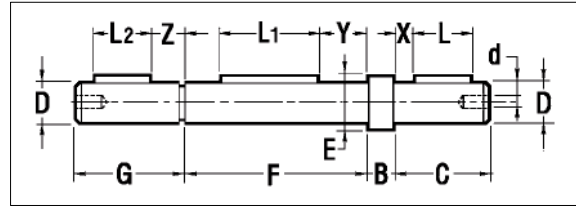
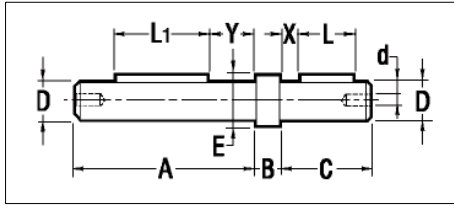
RMI PP



RI - RMI	C	D (H7)	d (j6)	E	I	L	M	m	N	T	F	G	P	R	U	V	Z	Fp	Gp (h8)	Pp	Rp	Up	Vp
28	30	14	9	40	28	20	47	M4	44.5(46)*	49	70	40	49	56	5	6	5	67	42(H8)	36	56	7	M6
40	41	19(18)	11	59	40	22	64	M5	61(64)*	66	140	95	82	115	5	8.5	9	95	60	38	83	2	M6
50	49	24(25)	14	69	50	30	74	M6	72	80	160	110	91.5	130	5	10	10	105	70	49	85	2.5	M8
63	60	25	18	81	63	45	96	M6	81	99	180	115	116	150	5	11	11	105	70	57.5	85	3.5	M8
70	60	28	19	87	70	40	97	M8	92	108	200	130	111	165	5	13	11	120	80	57	100	4	M8
85	61	32(35)	24	105	85	50	115	M8	111	135	200	130	100	165	5	13	12	144	110	56.5	130	3.5	M10
110	77.5	42	28	135	110	60	146	M8	142	170	250	180	150	215	5	15	16	200	130	74	165	3	M12
130	90	48	38	150	130	80	166	M10	159	200	300	230	150	265	5	15	18	242	180	87	215	5	M12
150	105	55	42	178	150	100	195	M12	189	224	350	250	160	300	6	19	18	250	180	102	215	5	M14
180	120	65	48	210	180	110	235	M14	232	265	400	300	180	350	6.5	22	22	300	230	117	265	5	M16

*RI 28 - RMI 28 IEC56: N=44.5, RMI 28 IEC63: N=46 *RI 40 - RMI 40 IEC56-63: N=61, RMI 40 IEC71: N=64

EJES



RI - RMI	28	40	50	63	70	85	110	130	150	180
CRI - CRMI	28/28	28/40 40/40	28/50 40/50	28/63 40/63	28/70 40/70 50/70 63/70	40/85 50/85 63/85 70/85	50/110 63/110 70/110 85/110	63/130 70/130 85/130	85/150 110/150	85/180 110/180 130/180
CR - CB	—	40	50	—	70	85	110	—	—	—
A	58	80	95	109	117	119	153	177	207	239
B	1.5	10	10	10	10	10	10	20	20	20
C	29.5	40	45	60	60	71	100	110	110	130
D _{g6}	14	19	24	25	28	32	42	48	55	65
d	M6	M8	M8	M8	M8	M10	M10	M10	M12	M14
E	17	22	28	34	34	38	50	58	63	78
F	60	82	98	120	120	122	155	180	210	240
G	31	50	55	70	70	81	110	130	130	150
L	20	25	30	40	40	50	80	90	90	100
L1	20	40	50	60	60	70	80	90	100	120
L2	20	25	30	40	40	50	80	90	90	100
X	4.5	8	7.5	10	10	10	10	10	10	15
Y	20	21	24	30	30	26	37	45	55	60
Z	6	18	18	20	20	20	20	30	30	35

COMBINADOS



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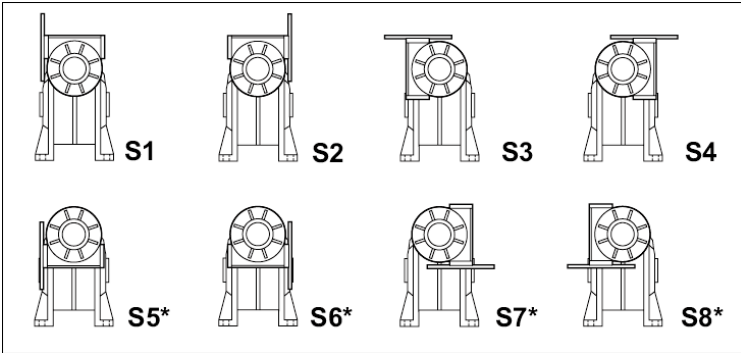
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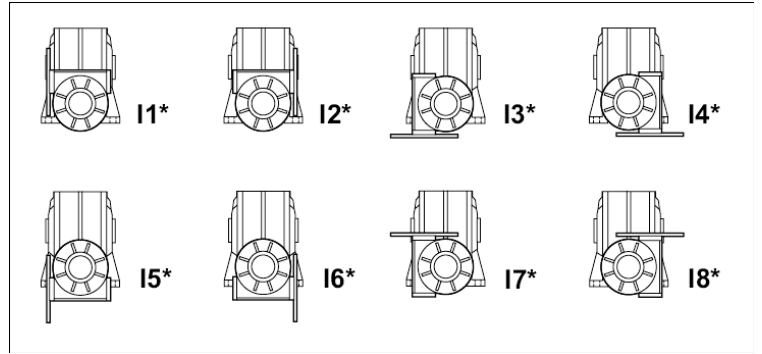
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MONTAJE

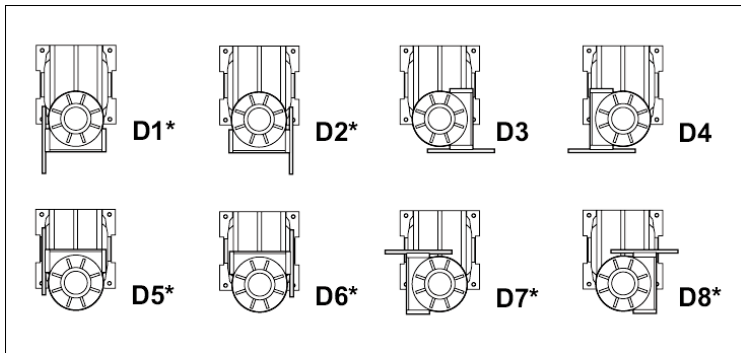
CRI-CRMI S



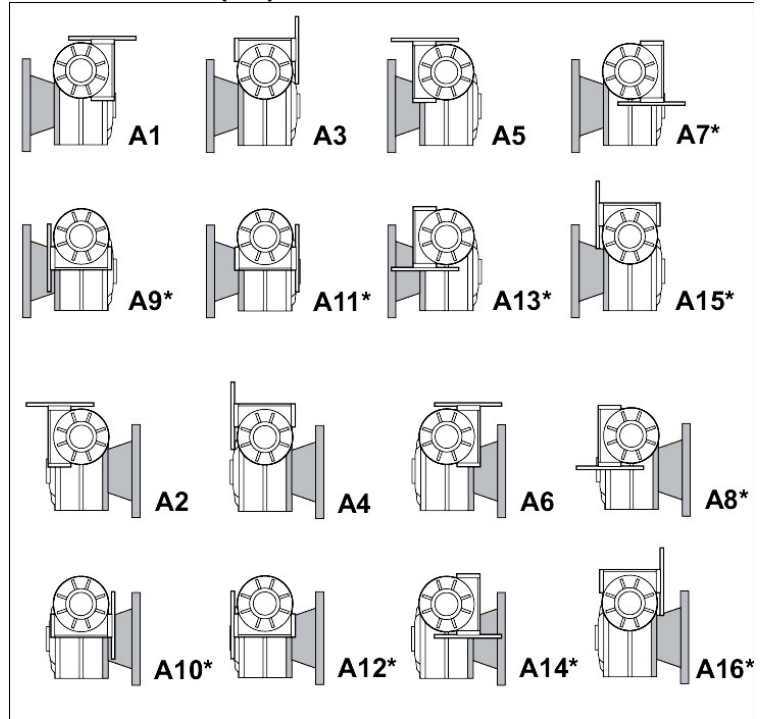
CRI-CRMI I



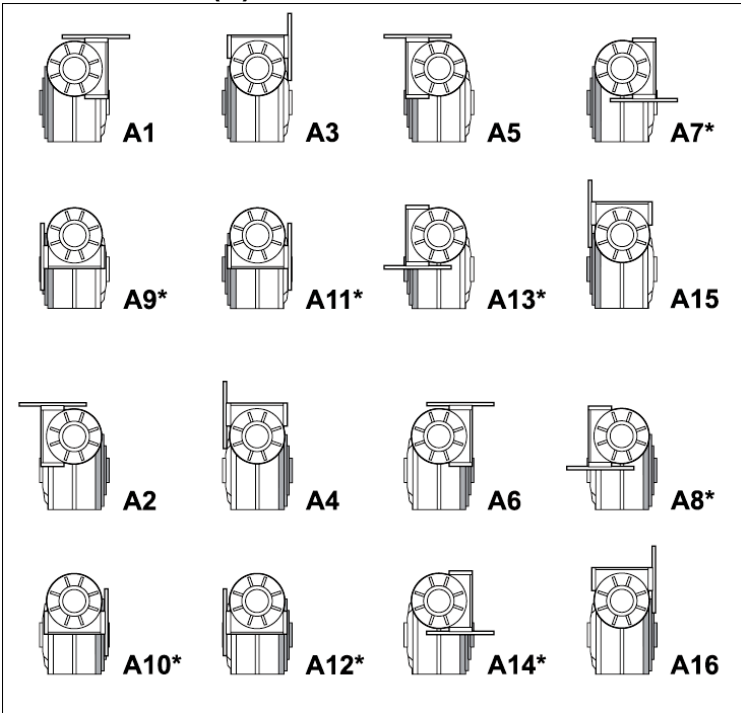
CRI-CRMI D



CRI-CRMI A (FL)



CRI-CRMI A (P)



CRI 28/28



2.8

ir	i ₁ Xi ₂	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	27	0.05	52	63 - 56	—
200	10x20	7.0	27	0.04	49		
280	10x28	5.0	27	0.03	42		
400	20x20	3.5	27	0.02	44		
600	15x40	2.3	27	0.02	35		
980	49x20	1.4	27	0.01	34		
1372	49x28	1.0	27	0.01	28		
1960	49x40	0.71	27	0.01	25		
2800	70x40	0.50	27	0.01	21		
4000	100x40	0.35	27	0.01	17		
5600	100x56	0.25	27	0.01	15		
7000	100x70	0.20	20	0.01	13		
8000	100x80	0.18	16	0.01	11		
10000	100x100	0.14	12	0.01	10		
						56	

CRI 28/40



3.5

ir	i ₁ Xi ₂	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	64	0.13	51	63 - 56	—
200	10x20	7.0	70	0.10	49		
280	10x28	5.0	70	0.08	43		
400	20x20	3.5	70	0.06	43		
600	15x40	2.3	70	0.05	33		
980	49x20	1.4	70	0.03	32		
1372	49x28	1.0	70	0.03	29		
1960	49x40	0.71	70	0.02	24		
2800	70x40	0.50	70	0.02	20		
4000	100x40	0.35	70	0.02	16		
5600	100x56	0.25	65	0.01	14		
7000	100x70	0.20	50	0.01	11		
8000	100x80	0.18	45	0.01	10		
10000	100x100	0.14	35	0.01	11		
						56	

CRI 40/40



4.2

ir	i ₁ Xi ₂	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	64	0.13	52	71-63-56	—
200	10x20	7.0	70	0.10	50		
280	10x28	5.0	70	0.08	45		
400	20x20	3.5	70	0.06	44		
600	15x40	2.3	70	0.05	34		
980	49x20	1.4	70	0.03	33		
1372	49x28	1.0	70	0.03	29		
1960	49x40	0.71	70	0.02	24		
2800	70x40	0.50	70	0.02	19		
4000	100x40	0.35	70	0.01	18		
5600	100x56	0.25	65	0.01	15		
7000	100x70	0.20	50	0.01	12		
8000	100x80	0.18	45	0.01	11		
10000	100x100	0.14	35	0.01	12		
						63-56	

CRI 28/50



5.2

ir	i ₁ Xi ₂	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	110	0.21	54	63 - 56	—
200	10x20	7.0	110	0.15	52		
280	10x28	5.0	110	0.13	46		
400	20x20	3.5	110	0.09	46		
600	15x40	2.3	110	0.07	38		
980	49x20	1.4	110	0.05	35		
1372	49x28	1.0	110	0.04	30		
1960	49x40	0.71	110	0.03	27		
2800	70x40	0.50	110	0.02	24		
4000	100x40	0.35	110	0.02	19		
5600	100x56	0.25	110	0.02	16		
7000	100x70	0.20	110	0.02	15		
8000	100x80	0.18	75	0.01	12		
10000	100x100	0.14	60	0.01	11		
						56	

CRI 40/50



5.9

ir	i ₁ Xi ₂	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	110	0.21	56	71-63-56	—
200	10x20	7.0	110	0.15	53		
280	10x28	5.0	110	0.12	47		
400	20x20	3.5	110	0.09	47		
600	15x40	2.3	110	0.07	39		
980	49x20	1.4	110	0.05	36		
1372	49x28	1.0	110	0.04	30		
1960	49x40	0.71	110	0.03	28		
2800	70x40	0.50	110	0.03	23		
4000	100x40	0.35	110	0.02	21		
5600	100x56	0.25	110	0.02	18		
7000	100x70	0.20	110	0.01	16		
8000	100x80	0.18	75	0.01	14		
10000	100x100	0.14	60	0.01	13		
						63 - 56	

CRI 28/63



7.4

ir	i ₁ Xi ₂	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	207	0.34	56	63 - 56	—
200	10x20	7.0	228	0.31	53		
280	10x28	5.0	250	0.29	46		
400	20x20	3.5	192	0.20	46		
600	15x40	2.3	250	0.16	38		
980	49x20	1.4	189	0.11	35		
1372	49x28	1.0	223	0.07	30		
1960	49x40	0.71	223	0.06	27		
2800	70x40	0.50	244	0.06	23		
4000	100x40	0.35	188	0.04	19		
5600	100x56	0.25	230	0.04	16		
7000	100x70	0.20	220	0.03	15		
8000	100x80	0.18	200	0.03	14		
10000	100x100	0.14	140	0.02	12		
						56	

CRI 40/63		$n_1 = 1400 \text{ min}^{-1}$				CRMI	CRMI...G
ir	$i_1 \times i_2$	n_2 min ⁻¹	T_{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	238	0.44	57	71 - 63 - 56	71 - 63 56
200	10x20	7.0	250	0.34	54		
280	10x28	5.0	250	0.28	47		
400	20x20	3.5	250	0.20	47		
600	15x40	2.3	250	0.16	39		
980	49x20	1.4	250	0.10	36		
1372	49x28	1.0	250	0.09	30		
1960	49x40	0.71	250	0.07	27		
2800	70x40	0.50	250	0.06	22		
4000	100x40	0.35	250	0.04	21		
5600	100x56	0.25	250	0.04	18		
7000	100x70	0.20	220	0.03	16		
8000	100x80	0.18	200	0.02	15		
10000	100x100	0.14	140	0.02	13		

Kg 8.1

CRI 28/70		$n_1 = 1400 \text{ min}^{-1}$				CRMI	CRMI...G
ir	$i_1 \times i_2$	n_2 min ⁻¹	T_{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	207	0.34	55	63 - 56	—
200	10x20	7.0	228	0.30	53		
280	10x28	5.0	271	0.28	45		
400	20x20	3.5	192	0.20	46		
600	15x40	2.3	316	0.20	38		
980	49x20	1.4	189	0.11	35		
1372	49x28	1.0	223	0.08	29		
1960	49x40	0.71	288	0.08	27		
2800	70x40	0.50	244	0.04	25		
4000	100x40	0.35	188	0.04	18		
5600	100x56	0.25	230	0.05	16		
7000	100x70	0.20	245	0.03	14		
8000	100x80	0.18	256	0.04	13		
10000	100x100	0.14	190	0.02	12		

Kg 14.4

CRI 40/70		$n_1 = 1400 \text{ min}^{-1}$				CRMI	CRMI...G
ir	$i_1 \times i_2$	n_2 min ⁻¹	T_{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	266	0.49	56	71 - 63 - 56	71 - 63 56
200	10x20	7.0	290	0.39	54		
280	10x28	5.0	290	0.33	46		
400	20x20	3.5	320	0.25	47		
600	15x40	2.3	316	0.20	39		
980	49x20	1.4	320	0.14	35		
1372	49x28	1.0	320	0.12	30		
1960	49x40	0.71	320	0.09	27		
2800	70x40	0.50	320	0.08	22		
4000	100x40	0.35	320	0.06	20		
5600	100x56	0.25	300	0.04	18		
7000	100x70	0.20	290	0.04	15		
8000	100x80	0.18	270	0.04	14		
10000	100x100	0.14	190	0.02	13		

Kg 16.1

CRI 50/70		$n_1 = 1400 \text{ min}^{-1}$				CRMI	CRMI...G
ir	$i_1 \times i_2$	n_2 min ⁻¹	T_{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	266	0.49	57	80 - 71	80 - 71 63
200	10x20	7.0	290	0.39	55		
280	10x28	5.0	290	0.32	47		
400	20x20	3.5	320	0.24	49		
600	15x40	2.3	316	0.19	41		
980	49x20	1.4	320	0.12	39		
1372	49x28	1.0	320	0.10	33		
1960	49x40	0.71	320	0.08	30		
2800	70x40	0.50	320	0.06	26		
4000	100x40	0.35	320	0.05	22		
5600	100x56	0.25	300	0.04	19		
7000	100x70	0.20	290	0.04	16		
8000	100x80	0.18	270	0.03	15		
10000	100x100	0.14	190	0.02	14		

Kg 16.8

CRI 63/70		$n_1 = 1400 \text{ min}^{-1}$				CRMI	CRMI...G
ir	$i_1 \times i_2$	n_2 min ⁻¹	T_{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	266	0.49	57	90 - 80 - 71	90 - 80 71
200	10x20	7.0	290	0.38	56		
280	10x28	5.0	290	0.32	47		
400	20x20	3.5	320	0.25	47		
600	15x40	2.3	316	0.19	41		
980	49x20	1.4	320	0.12	40		
1372	49x28	1.0	320	0.10	33		
1960	49x40	0.71	320	0.08	31		
2800	70x40	0.50	320	0.06	27		
4000	100x40	0.35	320	0.05	23		
5600	100x56	0.25	300	0.04	20		
7000	100x70	0.20	290	0.04	17		
8000	100x80	0.18	270	0.03	16		
10000	100x100	0.14	190	0.02	15		

Kg 19.0

CRI 40/85		$n_1 = 1400 \text{ min}^{-1}$				CRMI	CRMI...G
ir	$i_1 \times i_2$	n_2 min ⁻¹	T_{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	500	0.89	59	71 - 63 - 56	71 - 63 56
200	10x20	7.0	500	0.66	56		
280	10x28	5.0	500	0.57	46		
400	20x20	3.5	500	0.37	49		
600	15x40	2.3	500	0.31	40		
980	49x20	1.4	500	0.20	37		
1372	49x28	1.0	500	0.18	29		
1960	49x40	0.71	500	0.14	27		
2800	70x40	0.50	500	0.12	22		
4000	100x40	0.35	500	0.09	21		
5600	100x56	0.25	500	0.07	19		
7000	100x70	0.20	460	0.06	17		
8000	100x80	0.18	460	0.05	16		
10000	100x100	0.14	350	0.04	14		

Kg 20

CRI 50/85

Kg 22

ir	i ₁ x _{i2}	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %		
140	7x20	10.0	500	0.88	60	80 - 71	80 - 71 63
200	10x20	7.0	500	0.65	57		
280	10x28	5.0	500	0.56	47		
400	20x20	3.5	500	0.36	51		
600	15x40	2.3	500	0.29	42		
980	49x20	1.4	500	0.18	41		
1372	49x28	1.0	500	0.17	32		
1960	49x40	0.71	500	0.12	30		
2800	70x40	0.50	500	0.10	26		
4000	100x40	0.35	500	0.08	22		
5600	100x56	0.25	500	0.06	21		
7000	100x70	0.20	460	0.05	18		
8000	100x80	0.18	460	0.05	17		
10000	100x100	0.14	350	0.04	14		

CRI 63/85

Kg 24

ir	i ₁ x _{i2}	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %		
140	7x20	10.0	500	0.88	60	90 - 80 - 71	90 - 80 71
200	10x20	7.0	500	0.64	57		
280	10x28	5.0	500	0.55	47		
400	20x20	3.5	500	0.35	52		
600	15x40	2.3	500	0.29	42		
980	49x20	1.4	500	0.18	42		
1372	49x28	1.0	500	0.16	33		
1960	49x40	0.71	500	0.12	31		
2800	70x40	0.50	500	0.10	27		
4000	100x40	0.35	500	0.08	23		
5600	100x56	0.25	500	0.06	22		
7000	100x70	0.20	460	0.05	19		
8000	100x80	0.18	460	0.05	18		
10000	100x100	0.14	350	0.03	15		

CRI 70/85

Kg 31

ir	i ₁ x _{i2}	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %		
140	7x20	10.0	500	0.87	60	100-90-80	—
200	10x20	7.0	500	0.64	57		
280	10x28	5.0	500	0.55	47		
400	20x20	3.5	500	0.36	52		
600	15x40	2.3	500	0.29	42		
980	49x20	1.4	500	0.18	42		
1372	49x28	1.0	500	0.16	33		
1960	49x40	0.71	500	0.12	31		
2800	70x40	0.50	500	0.10	27		
4000	100x40	0.35	500	0.08	23		
5600	100x56	0.25	500	0.06	22		
7000	100x70	0.20	460	0.05	19		
8000	100x80	0.18	460	0.05	18		
10000	100x100	0.14	350	0.03	15		

CRI 50/110

Kg 42

ir	i ₁ x _{i2}	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %		
140	7x20	10.0	1000	1.7	60	80 - 71	80 - 71 - 63
200	10x20	7.0	1000	1.3	58		
280	10x28	5.0	1000	1.0	50		
400	20x20	3.5	1000	0.71	52		
600	15x40	2.3	1000	0.56	44		
980	49x20	1.4	1000	0.37	41		
1372	49x28	1.0	1000	0.31	34		
1960	49x40	0.71	1000	0.24	32		
2800	70x40	0.50	1000	0.19	27		
4000	100x40	0.35	1000	0.16	23		
5600	100x56	0.25	1000	0.12	21		
7000	100x70	0.20	960	0.11	19		
8000	100x80	0.18	860	0.09	18		
10000	100x100	0.14	700	0.06	16		

CRI 63/110

Kg 44

ir	i ₁ x _{i2}	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %		
140	7x20	10.0	1000	1.7	60	90 - 80 - 71	90 - 80 71
200	10x20	7.0	1000	1.2	59		
280	10x28	5.0	1000	1.0	51		
400	20x20	3.5	1000	0.70	52		
600	15x40	2.3	1000	0.56	44		
980	49x20	1.4	1000	0.36	42		
1372	49x28	1.0	1000	0.31	35		
1960	49x40	0.71	1000	0.23	32		
2800	70x40	0.50	1000	0.18	28		
4000	100x40	0.35	1000	0.15	24		
5600	100x56	0.25	1000	0.12	22		
7000	100x70	0.20	960	0.10	20		
8000	100x80	0.18	860	0.08	19		
10000	100x100	0.14	700	0.06	17		

CRI 70/110

Kg 51

ir	i ₁ x _{i2}	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %		
140	7x20	10.0	1000	1.7	61	100-90-80	—
200	10x20	7.0	1000	1.2	59		
280	10x28	5.0	1000	1.0	51		
400	20x20	3.5	1000	0.70	52		
600	15x40	2.3	1000	0.56	44		
980	49x20	1.4	1000	0.36	42		
1372	49x28	1.0	1000	0.31	35		
1960	49x40	0.71	1000	0.23	32		
2800	70x40	0.50	1000	0.19	28		
4000	100x40	0.35	1000	0.15	24		
5600	100x56	0.25	1000	0.12	22		
7000	100x70	0.20	960	0.10	20		
8000	100x80	0.18	860	0.08	19		
10000	100x100	0.14	700	0.06	17		

CRI 85/110

Kg 56

ir	i ₁ x _i 2	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %		
140	7x20	10.0	1000	1.7	61	112-100 90	-
200	10x20	7.0	1000	1.2	60		
280	10x28	5.0	1000	1.0	51		
400	20x20	3.5	1000	0.68	54		
600	15x40	2.3	1000	0.55	45		
980	49x20	1.4	1000	0.35	42		
1372	49x28	1.0	1000	0.30	35		
1960	49x40	0.71	1000	0.23	33		
2800	70x40	0.50	1000	0.18	30		
4000	100x40	0.35	1000	0.14	25		
5600	100x56	0.25	1000	0.11	23		
7000	100x70	0.20	960	0.10	21		
8000	100x80	0.18	860	0.08	20		
10000	100x100	0.14	700	0.06	17		

CRI 63/130

Kg 54

ir	i ₁ x _i 2	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %		
140	7x20	10.0	1660	2.8	61	90 - 80 - 71	90 - 80 71
200	10x20	7.0	1800	2.2	59		
280	10x28	5.0	1600	1.7	51		
400	20x20	3.5	1800	1.3	51		
600	15x40	2.3	1800	1.0	43		
980	49x20	1.4	1800	0.64	42		
1372	49x28	1.0	1800	0.56	35		
1960	49x40	0.71	1800	0.42	32		
2800	70x40	0.50	1800	0.34	28		
4000	100x40	0.35	1800	0.28	24		
5600	100x56	0.25	1700	0.19	23		
7000	100x70	0.20	1700	0.17	20		
8000	100x80	0.18	1600	0.15	20		
10000	100x100	0.14	1250	0.11	17		

CRI 70/130

Kg 61

ir	i ₁ x _i 2	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %		
140	7x20	10.0	1660	2.8	62	100-90-80	-
200	10x20	7.0	1800	2.2	59		
280	10x28	5.0	1600	1.7	51		
400	20x20	3.5	1800	1.2	53		
600	15x40	2.3	1800	1.0	43		
980	49x20	1.4	1800	0.64	42		
1372	49x28	1.0	1800	0.56	35		
1960	49x40	0.71	1800	0.42	32		
2800	70x40	0.50	1800	0.34	27		
4000	100x40	0.35	1800	0.28	24		
5600	100x56	0.25	1700	0.19	23		
7000	100x70	0.20	1700	0.17	20		
8000	100x80	0.18	1600	0.15	20		
10000	100x100	0.14	1250	0.11	17		

CRI 85/130

Kg 66

ir	i ₁ x _i 2	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %		
140	7x20	10.0	1660	2.8	62	112-100 90	-
200	10x20	7.0	1800	2.2	60		
280	10x28	5.0	1600	1.6	51		
400	20x20	3.5	1800	1.2	55		
600	15x40	2.3	1800	1.0	44		
980	49x20	1.4	1800	0.63	43		
1372	49x28	1.0	1800	0.55	35		
1960	49x40	0.71	1800	0.41	33		
2800	70x40	0.50	1800	0.32	29		
4000	100x40	0.35	1800	0.26	25		
5600	100x56	0.25	1700	0.19	24		
7000	100x70	0.20	1700	0.17	21		
8000	100x80	0.18	1600	0.14	21		
10000	100x100	0.14	1250	0.10	18		

CRI 85/150

Kg 95

ir	i ₁ x _i 2	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %		
140	7x20	10.0	2620	4.3	64	112-100 90	-
200	10x20	7.0	2850	3.4	61		
280	10x28	5.0	2510	2.5	53		
400	20x20	3.5	2900	1.9	55		
600	15x40	2.3	2880	1.6	45		
980	49x20	1.4	2900	0.98	44		
1372	49x28	1.0	2900	0.84	37		
1960	49x40	0.71	2900	0.64	34		
2800	70x40	0.50	2900	0.50	31		
4000	100x40	0.35	2900	0.42	25		
5600	100x56	0.25	2900	0.30	25		
7000	100x70	0.20	2600	0.25	22		
8000	100x80	0.18	2600	0.23	21		
10000	100x100	0.14	1950	0.15	19		

CRI 110/150

Kg 115

ir	i ₁ x _i 2	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %		
140	7x20	10.0	2620	4.3	65	132-112-100	-
200	10x20	7.0	2850	3.4	62		
280	10x28	5.0	2510	2.5	54		
400	20x20	3.5	2900	1.9	57		
600	15x40	2.3	2880	1.5	46		
980	49x20	1.4	2900	0.92	47		
1372	49x28	1.0	2900	0.79	39		
1960	49x40	0.71	2900	0.60	36		
2800	70x40	0.50	2900	0.47	32		
4000	100x40	0.35	2900	0.39	27		
5600	100x56	0.25	2900	0.28	27		
7000	100x70	0.20	2600	0.23	23		
8000	100x80	0.18	2600	0.21	22		
10000	100x100	0.14	1950	0.14	21		

CRI 85/180



148

ir	i ₁ x _{i2}	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	3750	6.1	65	112-100 90	-
200	10x20	7.0	4095	4.8	62		
280	10x28	5.0	3700	3.5	55		
400	20x20	3.5	4400	3.0	56		
600	15x40	2.3	4160	2.2	46		
980	49x20	1.4	3850	1.6	44		
1372	49x28	1.0	4600	1.3	38		
1960	49x40	0.71	4600	1.0	34		
2800	70x40	0.50	3900	0.67	31		
4000	100x40	0.35	4250	0.62	26		
5600	100x56	0.25	4600	0.48	25		
7000	100x70	0.20	4600	0.44	22		
8000	100x80	0.18	4200	0.37	21		
10000	100x100	0.14	3300	0.26	19	90 - 80	-

CRI 110/180



168

ir	i ₁ x _{i2}	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	3750	6.0	65	132-112-100	-
200	10x20	7.0	4095	4.8	63		
280	10x28	5.0	3700	3.5	55		
400	20x20	3.5	4600	2.9	58		
600	15x40	2.3	4160	2.2	47		
980	49x20	1.4	4600	1.5	47		
1372	49x28	1.0	4600	1.2	40		
1960	49x40	0.71	4600	0.96	36		
2800	70x40	0.50	4600	0.75	32		
4000	100x40	0.35	4600	0.60	28		
5600	100x56	0.25	4600	0.45	27		
7000	100x70	0.20	4600	0.41	23		
8000	100x80	0.18	4200	0.35	22		
10000	100x100	0.14	3300	0.24	20	112-100-90	-

CRI 130/180

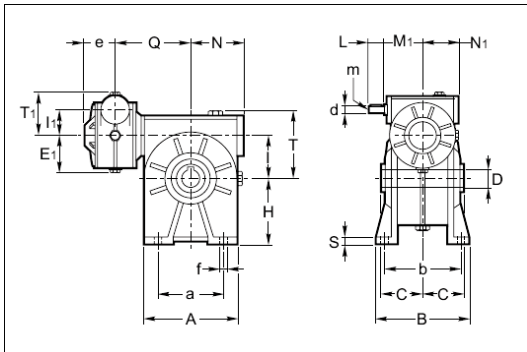


178

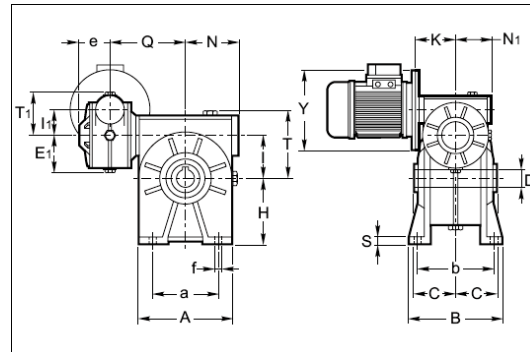
ir	i ₁ x _{i2}	n ₁ = 1400 min ⁻¹				CRMI	CRMI...G
		n ₂ min ⁻¹	T _{2M} Nm	P kW	RD %	IEC	
140	7x20	10.0	3750	5.9	67	132-112-100	-
200	10x20	7.0	4095	4.7	64		
280	10x28	5.0	3700	3.4	57		
400	20x20	3.5	4600	2.9	59		
600	15x40	2.3	4160	2.1	48		
980	49x20	1.4	4600	1.4	48		
1372	49x28	1.0	4600	1.2	41		
1960	49x40	0.71	4600	0.95	36		
2800	70x40	0.50	4600	0.72	34		
4000	100x40	0.35	4600	0.58	29		
5600	100x56	0.25	4600	0.43	28		
7000	100x70	0.20	4600	0.40	24		
8000	100x80	0.18	4200	0.33	23		
10000	100x100	0.14	3300	0.23	21	112-100	-



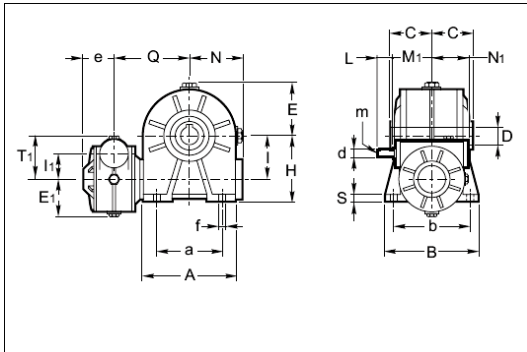
CRI S



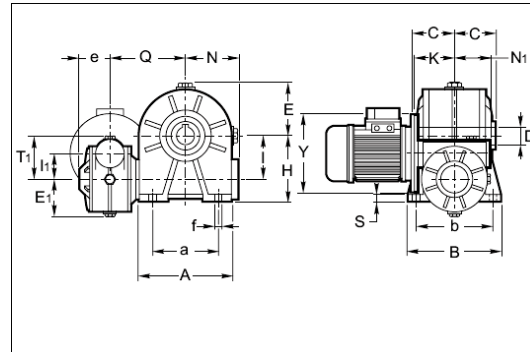
CRMI S



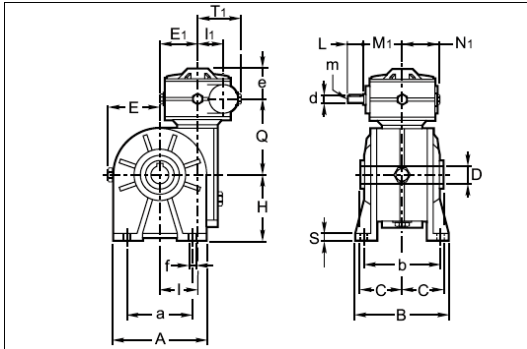
CRI I



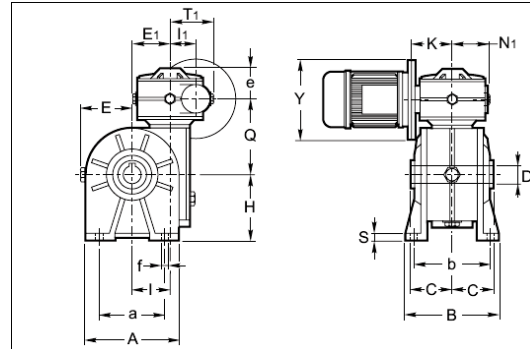
CRMI I



CRI D



CRMI D

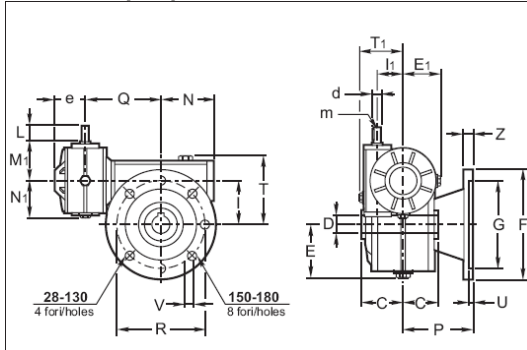


CRI CRMI	A	a	B	b	C	D H7	d j6	E	E ₁	e	f	Q	H	I	I ₁	L	m	M ₁	N	N ₁	S	T	T ₁
28/28	67	52	78	66 ^{±2} _{±6}	30	14	9	40	40	35	5.5	90	52	28	28	20	M4	47	44.5	44.5*	6	49	49
28/40	100	70	102	84 ^{±3}	41	19(18)	9	59	40	35	7	104.5	71	40	28	20	M4	47	61.5	44.5*	8	66	49
40/40 **	100	70	102	84 ^{±3}	41	19(18)	11	59	59	49	7	145.5	71	40	40	22	M5	64	61.5	61.5	8	66	66
28/50	120	85	119	99 ^{±3}	49	24(25)	9	69	40	35	9	115	85	50	28	20	M4	43	72.5	44.5*	10	80	49
40/50	120	85	119	99 ^{±3}	49	24(25)	11	69	59	49	9	106	85	50	40	22	M5	64	72.5	61.5	10	80	66
28/63	140	95	136	111 ^{±0} _{±5}	60	25	9	81	40	35	11	135.5	100	63	28	20	M4	47	84	44.5*	11	99	49
40/63	140	95	136	111 ^{±0} _{±5}	60	25	11	81	59	49	11	146	100	63	40	22	M5	64	84	61.5	11	99	66
28/70	158	120	140	116 ^{±2} _{±8}	60	28	9	87	40	35	11	140.5	115	70	28	20	M4	47	92	44.5*	13	108	49
40/70	158	120	140	116 ^{±2} _{±8}	60	28	11	87	59	49	11	151	115	70	40	22	M5	64	92	61.5	13	108	66
50/70	158	120	140	116 ^{±2} _{±8}	60	28	14	87	69	59	11	149	115	70	50	30	M6	74	92	72.5	13	108	80
63/70 **	158	120	140	116 ^{±2} _{±8}	60	28	18	87	81	69	11	182	115	70	63	45	M6	96	92	81	13	108	99
40/85 **	193	140	168	140	61	32(35)	11	105	59	49	13	198	135	85	40	22	M5	64	111	61.5	15	135	66
50/85	193	140	168	140	61	32(35)	14	105	69	59	13	173	135	85	50	30	M6	74	111	72.5	15	135	80
63/85 **	193	140	168	140	61	32(35)	18	105	81	69	13	198	135	85	63	45	M6	96	111	81	15	135	99
70/85	193	140	168	140	61	32(35)	19	105	87	68	13	165	135	85	70	40	M8	97	111	92	15	135	108
50/110 **	250	200	200	162	77.5	42	14	135	69	59	14	236.5	172	110	50	30	M6	74	142	72.5	17	170	80
63/110 **	250	200	200	162	77.5	42	18	135	81	69	14	227	172	110	63	45	M6	96	142	81	17	170	99
70/110	250	200	200	162	77.5	42	19	135	87	68	14	191	172	110	70	40	M8	97	142	92	17	170	108
85/110	250	200	200	162	77.5	42	24	135	105	71	14	195	172	110	85	50	M8	115	142	111	17	170	135
63/130 **	286	235	230	190	90	48	18	154	81	69	15	265	200	130	63	45	M6	96	161.5	81	19	195	99
70/130	286	235	230	190	90	48	19	154	87	68	15	214	200	130	70	40	M8	97	161.5	92	19	195	108
85/130	286	235	230	190	90	48	24	154	105	71	15	213	200	130	85	50	M8	115	161.5	111	19	195	135
85/150	336	260	250	210	105	55	24	178	105	71	19	240	230	150	85	50	M8	115	189	111	20	224	135
110/150	336	260	250	210	105	55	28	178	135	92	19	254	230	150	110	60	M8	146	189	142	20	224	170
85/180	400	310	320	260	120	65	24	210	105	71	22	283	265	180	85	50	M8	115	232	111	22	265	135
110/180	400	310	320	260	120	65	28	210	135	92	22	296	265	180	110	60	M8	146	232	142	22	265	170
130/180	400	310	320	260	120	65	38	210	150	102	22	306	265	180	130	80	M10	166	232	159	22	265	200

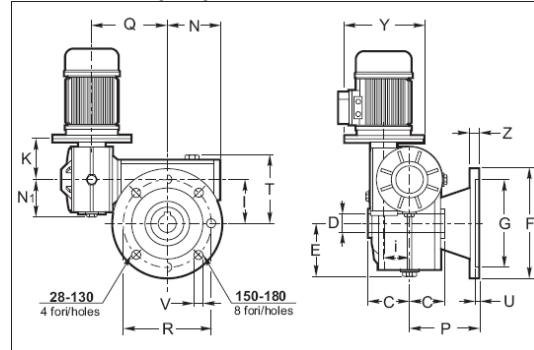
* CRI 28/... - CRMI 28/... IEC56: n=44.5, CRMI 28/... IEC 63: n=46

	28/28 28/40 28/50 28/63 28/70		40/40 ** 40/50 40/63 40/70 40/85 **			50/70 50/85 50/110 **			63/70 ** 63/85 ** 63/110 ** 63/130 **			70/85 70/110 70/130		85/110 85/130 85/150 85/180		110/150 110/180		130/180						
	Y	K	Y	CRMI	CRMI...G	Y	CRMI	CRMI...G	Y	CRMI	CRMI...G	Y	K	Y	K	Y	K	Y	V					
				K			K			K														
B5	120	49	120	63.5	70.5	140	77	80.5	160	95	94.5	160	100	160	118	200	145	—	—					
	—	—	140	63.5		160	77	—	200			—	—	—	—	200	100	200	118	250	145	250	163	
	—	—	160	71		200	81	—	—			—	—	—	—	—	—	250	120	300	145.5	300	163	
B14	80	49	80	63.5	—	90	77	80.5	105	95	94.5	105	100	120	118	160	145	—	—					
	90	51	90	63.5	70.5	105	77		120			—	—	—	—	120	100	140	118	—	—	—	—	
	—	—	105	71	70.5	120	81		80.5			140	—	—	—	—	140	100	160	120	—	—	—	—
	—	—	—	—	—	—	—		—			—	—	—	—	—	160	100	—	—	—	—	—	—

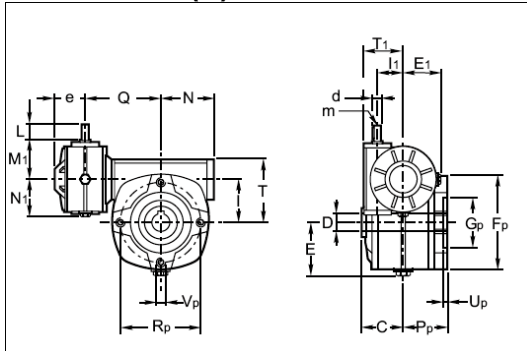
CRI A (FL)



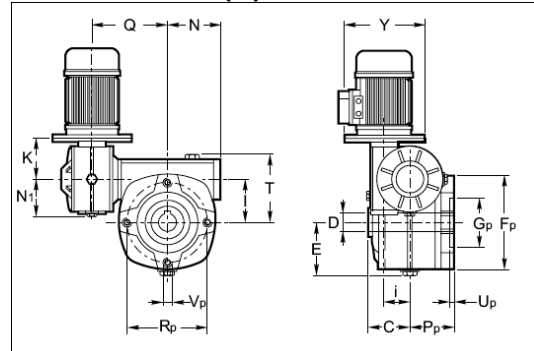
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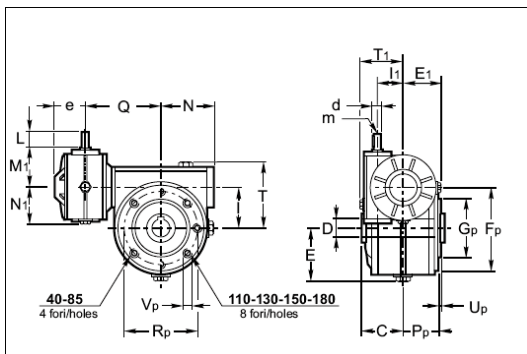
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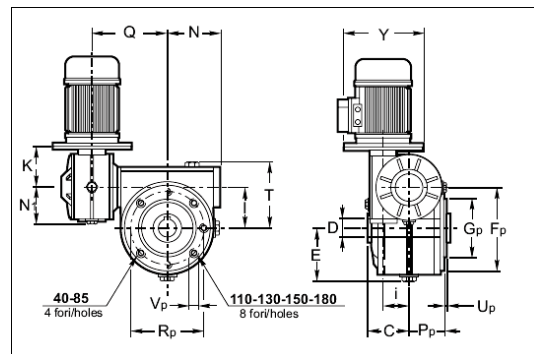
CRMI .../28A(P)



CRI .../40A(PP) - .../70A(PP) CRI .../85A(P) - .../180A(P)



CRMI .../40A(PP) - .../70A(PP) CRMI .../85A(P) - .../180A(P)



CRI CRMI	C	D H7	d j6	E	E ₁	e	Q	I	I ₁	L	m	M ₁	N	N ₁	T	T ₁
28/28	30	14	9	40	40	35	90	28	28	20	M4	47	44.5	44.5*	49	49
28/40	41	19 (18)	9	59	40	35	104.5	40	28	20	M4	47	61.5	44.5*	66	49
40/40 **	41	19 (18)	11	59	59	49	145.5	40	40	22	M5	64	61.5	61.5	66	66
28/50	49	24 (25)	9	69	40	35	115	50	28	20	M4	43	72.5	44.5*	80	49
40/50	49	24 (25)	11	69	59	49	106	50	40	22	M5	64	72.5	61.5	80	66
28/63	60	25	9	81	40	35	135.5	63	28	20	M4	47	84	44.5*	99	49
40/63	60	25	11	81	59	49	145.5	63	40	22	M5	64	84	61.5	99	66
28/70	60	28	9	87	40	35	140.5	70	28	20	M4	47	92	44.5*	108	49
40/70	60	28	11	87	59	49	151	70	40	22	M5	64	92	61.5	108	66
50/70	60	28	14	87	69	59	149	70	50	30	M6	74	92	72.5	108	80
63/70 **	60	28	18	87	81	69	182	70	63	45	M6	96	92	81	108	99
40/85 **	61	32 (35)	11	105	59	49	198	85	40	22	M5	64	111	61.5	135	66
50/85	61	32 (35)	14	105	69	59	173	85	50	30	M6	74	111	72.5	135	80
63/85 **	61	32 (35)	18	105	81	69	198	85	63	45	M6	96	111	81	135	99
70/85	61	32 (35)	19	105	87	68	165	85	70	40	M8	97	111	92	135	108
50/110 **	77.5	42	14	135	69	59	236.5	110	50	30	M6	74	142	72.5	170	80
63/110 **	77.5	42	18	135	81	69	227	110	63	45	M6	96	142	81	170	99
70/110	77.5	42	19	135	87	68	191	110	70	40	M8	97	142	92	170	108
85/110	77.5	42	24	135	105	71	195	110	85	50	M8	115	142	111	170	135
63/130 **	90	48	18	154	81	69	265	130	63	45	M6	96	161.5	81	195	99
70/130	90	48	19	154	87	68	214	130	70	40	M8	97	161.5	92	195	108
85/130	90	48	24	154	105	71	213	130	85	50	M8	115	161.5	111	195	135
85/150	105	55	24	178	105	71	240	150	85	50	M8	115	189	111	224	135
110/150	105	55	28	178	135	92	254	150	110	60	M8	146	189	142	224	170
85/180	120	65	24	210	105	71	283	180	85	50	M8	115	232	111	265	135
110/180	120	65	28	210	135	92	296	180	110	60	M8	146	232	142	265	170
130/180	120	65	38	210	150	102	306	180	130	80	M10	166	232	159	265	200

* CRI 28/... - CRMI 28/... IEC56: n=44.5, CRMI 28/... IEC 63: n=46

CRI CRMI	F	G H8	P	R	U	V	Z	Fp	Gp h8	Pp	Rp	Up	Vp
28/28	70	40	49	56	5	6	5	67	42(H8)	36	56	7	M6
28/40	140°	95	82	115	5	8.5	9	95	60	38	83	2	M6
40/40 **													
28/50	160°	110	91.5	130	5	10	10	105	70	49	85	2.5	M8
40/50													
28/63	180°	115	116	150	5	11	11	105	70	57.5	85	3.5	M8
40/63													
28/70	200°	130	111	165	5	13	11	120	80	57	100	5	M8
40/70													
50/70													
63/70 **													
40/85 **	200	130	100	165 ⁰ ₊₁₁	5	13	12	144	110	56.5	130	3.5	M10
50/85													
63/85 **													
70/85													
50/110 **	250	180	150	215	5	15	16	200	130	74	165	3	M12
63/110 **													
70/110													
85/110													
63/130 **	300	230	150	265	5	15	18	242	180	87	215	5	M12
70/130													
85/130													
85/150													
110/150	350	250	160	300	6	19	18	250	180	102	215	5	M14
85/180													
110/180	400	300	180	350	6.5	22	22	300	230	117	265	5	M16
130/180													

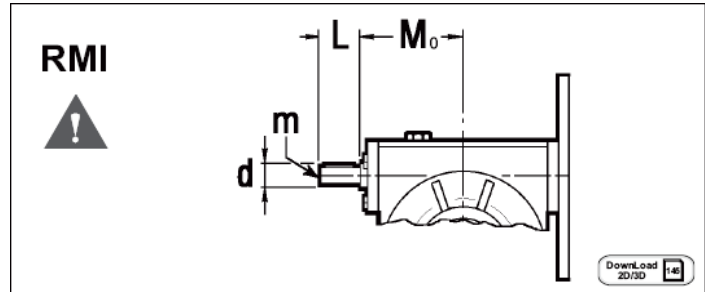
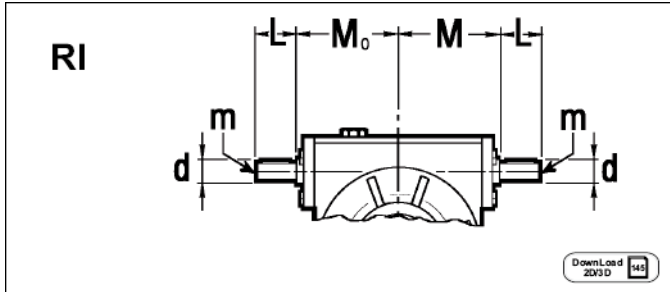
BISPORGENTE

ABACtransmisiones S.R.L.

Marcos Sastre 4796 - Buenos Aires - Argentina

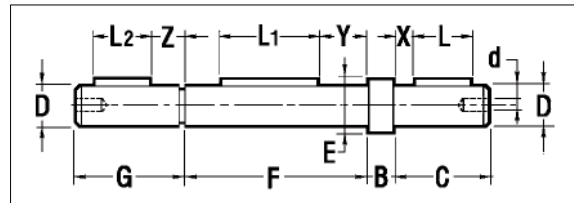
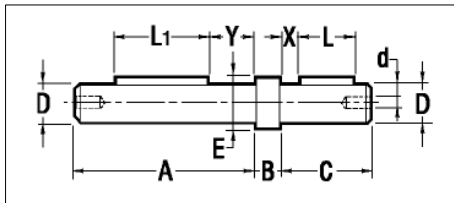
Telefax:(54-11) 4566-3609 // 4648-2034

E-MAIL: abac@abactransmisiones.com.ar



RI RMI	d j6	L	m	M	M ₀
28	9	20	M4	47	47
40	11	22	M5	64	64
50	14	30	M6	74	74
63	18	45	M6	96	85
70	19	40	M8	97	97
85	24	50	M8	115	115
110	28	60	M8	146	146
130	38	80	M10	166	166
150	42	100	M12	195	195
180	48	110	M14	235	235

EJES



RI - RMI	28	40	50	63	70	85	110	130	150	180
CRI - CRMI	28/28	28/40 40/40	28/50 40/50	28/63 40/63	28/70 40/70 50/70 63/70	40/85 50/85 63/85 70/85	50/110 63/110 70/110 85/110	63/130 70/130 85/130	85/150 110/150	85/180 110/180 130/180
CR - CB	—	40	50	—	70	85	110	—	—	—
A	58	80	95	109	117	119	153	177	207	239
B	1.5	10	10	10	10	10	10	20	20	20
C	29.5	40	45	60	60	71	100	110	110	130
D _{g6}	14	19	24	25	28	32	42	48	55	65
d	M6	M8	M8	M8	M8	M10	M10	M10	M12	M14
E	17	22	28	34	34	38	50	58	63	78
F	60	82	98	120	120	122	155	180	210	240
G	31	50	55	70	70	81	110	130	130	150
L	20	25	30	40	40	50	80	90	90	100
L1	20	40	50	60	60	70	80	90	100	120
L2	20	25	30	40	40	50	80	90	90	100
X	4.5	8	7.5	10	10	10	10	10	10	15
Y	20	21	24	30	30	26	37	45	55	60
Z	6	18	18	20	20	20	20	30	30	35