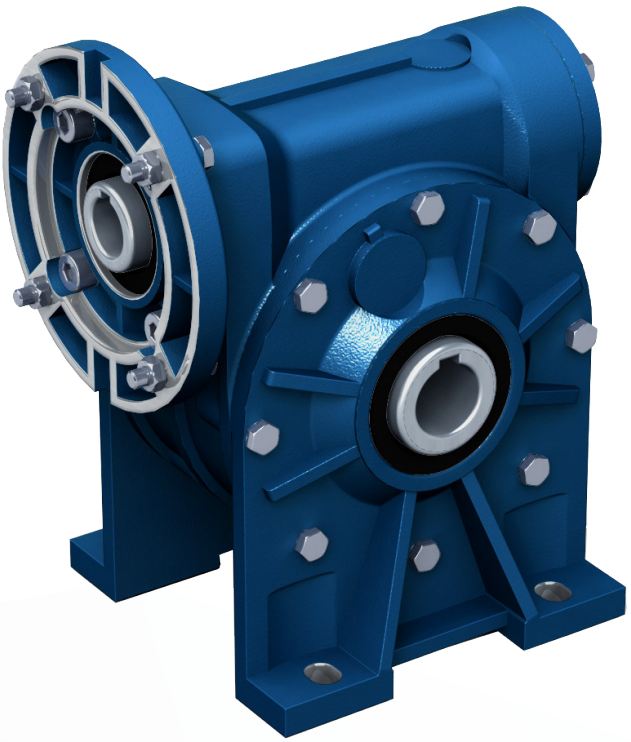
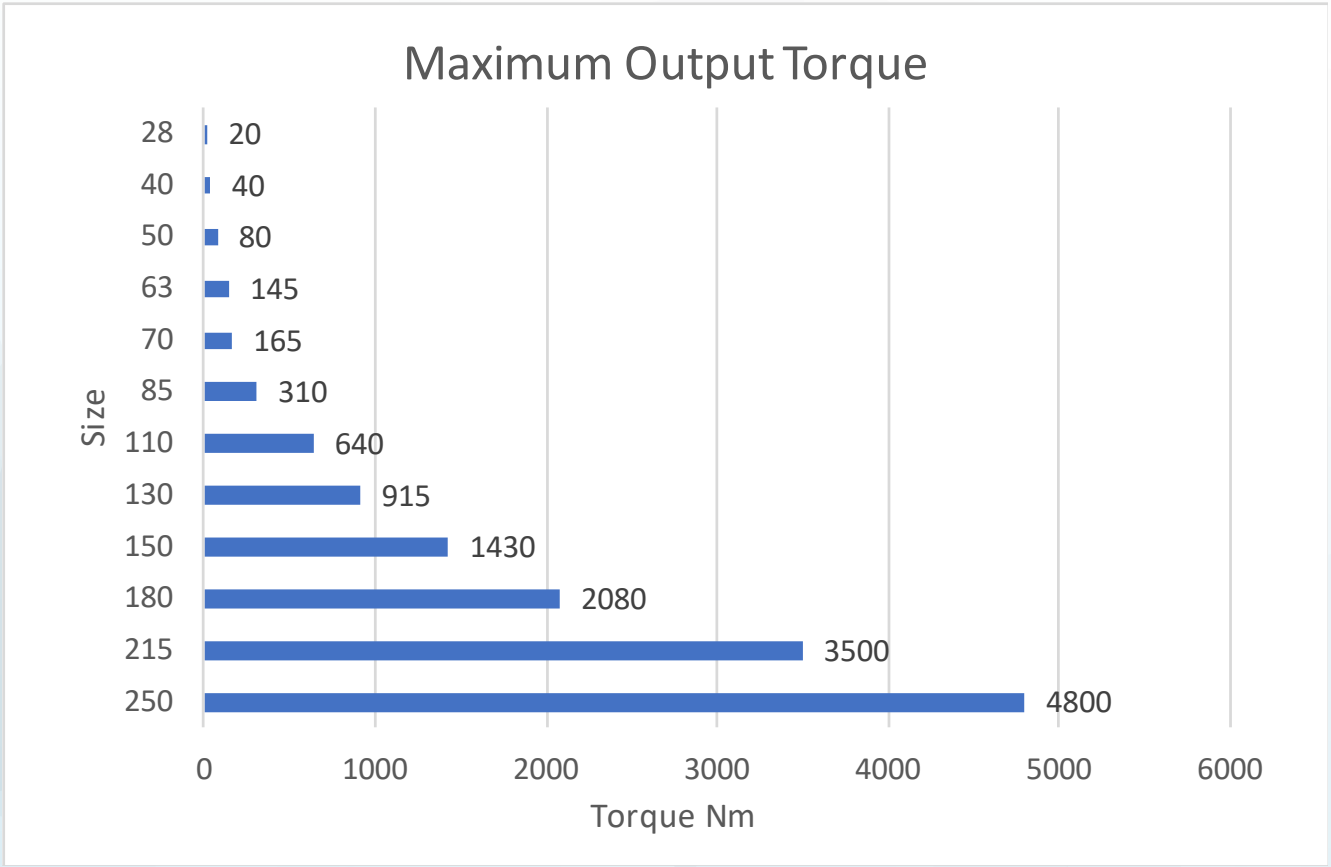
Worm Gearbox - RMI

RMI WORM GEARBOX

The R series Worm Gearbox product range has been updated by adding three innovative principles: two technical and one commercial. All components in aluminium are die cast (from size 28 to size 70) to increase resistance to torsional and structural flexibility. ZI Gear tooth profiles (section and involute) have been adopted to increase efficiency and quite operation. Finally, a modular attachable output flange (FL) has been adopted to increase flexibility. First to patent (in 1987) a torque limiter built inside a standard gearbox..





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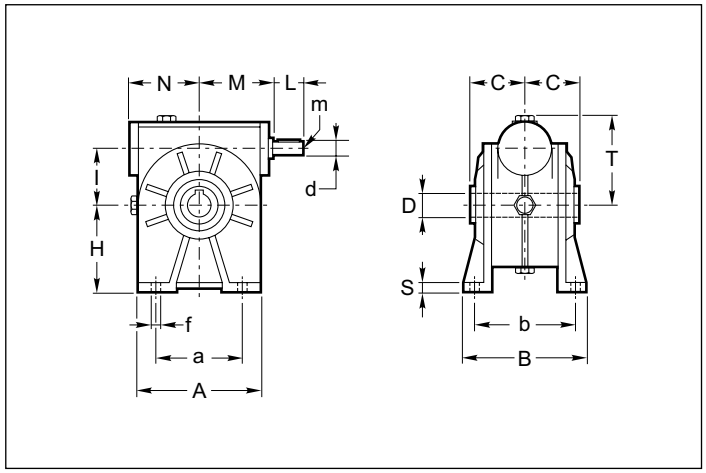
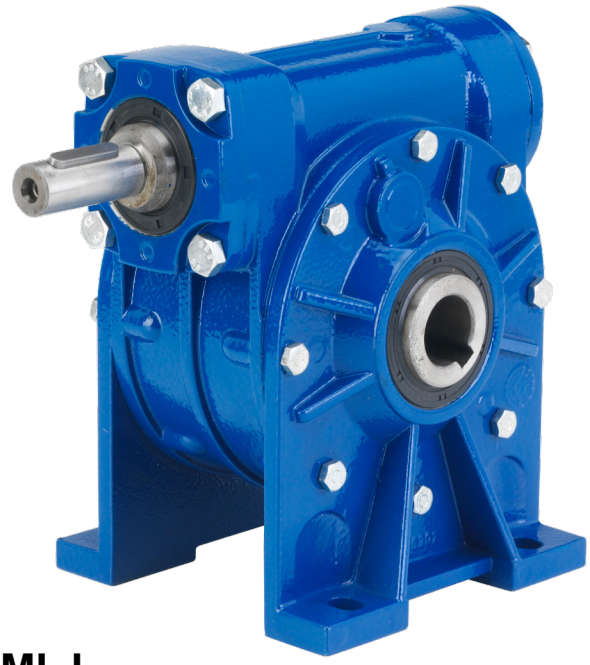
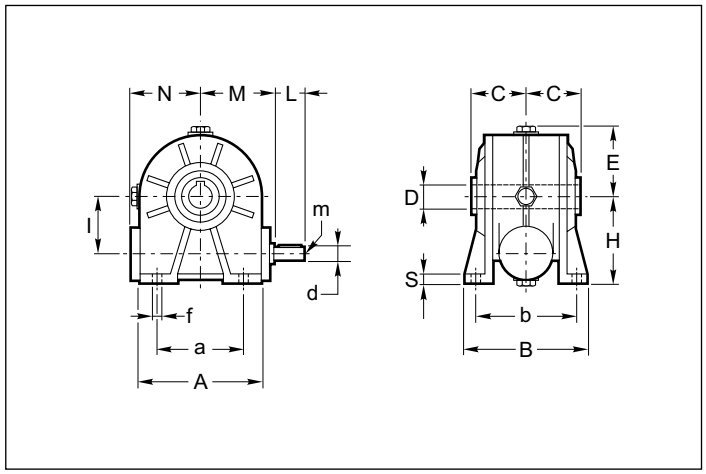
RI S

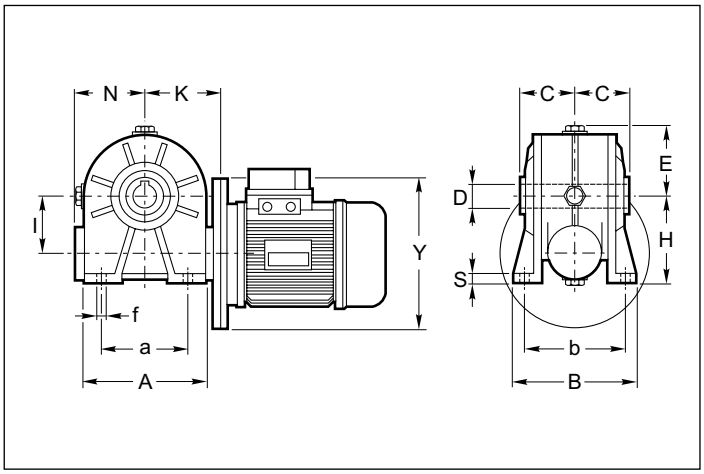




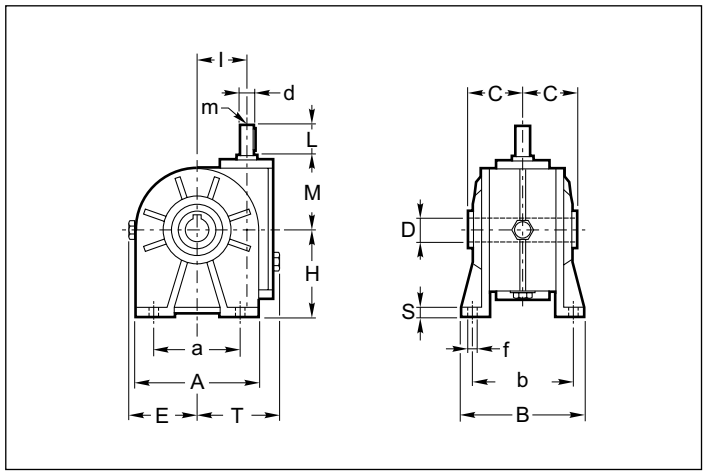
RI I



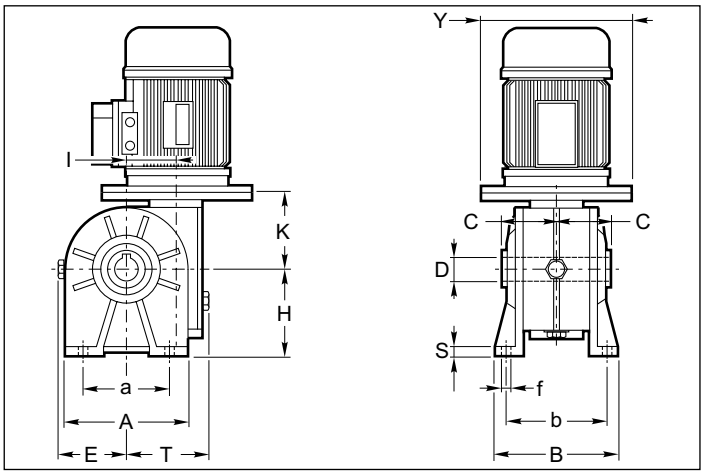
RMI I



RI D



RMI D



DIMENSIONS

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 $^{+2}_{-6}$	30	14	9	40	5.5	52	28	20	47	M4	44.5(46)*	6	49
40	100	70	102	84 ± 3	41	19 (18)	11	59	7	71	40	22	64	M5	61.5	8	66
50	120	85	119	99 ± 3	49	24 (25)	14	69	9	85	50	30	74	M6	72.5	10	80
63	140	95	136	111 $^{0}_{+5}$	60	25	18	81	11	100	63	45	96	M6	84	11	99
70	158	120	140	116 $^{+2}_{-6}$	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	154	15	200	130	80	166	M10	161.5	19	195
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

***RI 28 - RMI 28 IEC56: N=44.5, RMI 28 IEC63: N=46**

RMI	28		70		85		110		130		150		180	
	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K
B5	120	49	160	100	160	118	200	145	250	163	250	190	—	—
	—	—	200	100	200	118	250	145	300	163	300	190	300	234
	—	—	—	—	250	120	300	145.5	—	—	350	197	350	234
B14	80•	49	105	100	120	118	160	145	—	—	—	—	—	—
	90	51	120	100	140	118	—	—	—	—	—	—	—	—
	—	—	140	100	160	120	—	—	—	—	—	—	—	—
	—	—	160	100	—	—	—	—	—	—	—	—	—	—

RMI...G	40		50		63	
	Y	K	Y	K	Y	K
B5	120	70.5	140	80.5	160	94.5
	140		160		200	
	160		200		—	—
B14	90•		90•		105•	94.5
	105		105•		120	
	—		120		140	

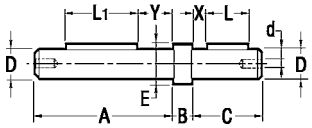
(•) Vedi nota in fondo a tabella 2.13

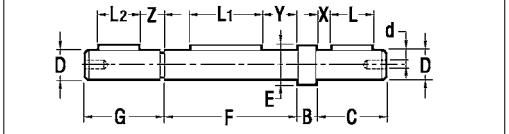
(•) See note at the bottom of table 2.13

(•) Siehe Bemerkungen Tabelle 2.13 unten

Worm Gearbox - RMI

OUTPUT SHAFTS

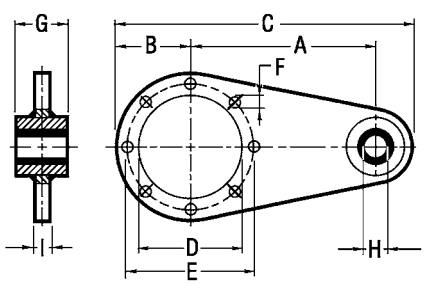




RI - RMI	28	40	50	63	70	85	110	130	150	180
CRI - CRMI	28/28	28/40 40/40	28/50 40/50	28/63 40/63	28/70 40/70 50/70 63/70	40/85 50/85 63/85 70/85	50/110 63/110 70/110 85/110	63/130 70/130 85/130	85/150 110/150	85/180 110/180 130/180
CR - CB	—	40	50	—	70	85	110	—	—	—
A	58	80	95	109	117	119	153	177	207	239
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

TORQUE ARM

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	70	90	100	150	150	200	250	300	350	400
B	34.5	50	60	53	60	75	100	120	125	150
C	119.5	165	185	230	240	313	388	465	525	610
D	42.15	60	70	70	80	110	130	180	180	230
E	56	83	85	85	100	130	165	215	215	265
F	6.5	7	9	9	9	11	13	13	15	17
G	—	15	15	20	20	25	25	30	30	35
H	9	10	10	10	10	20	20	25	25	35
I	4	4	4	6	6	6	6	6	6	10



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