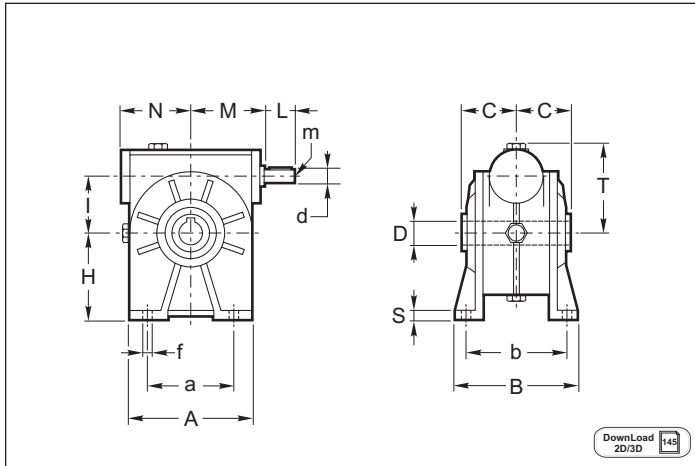


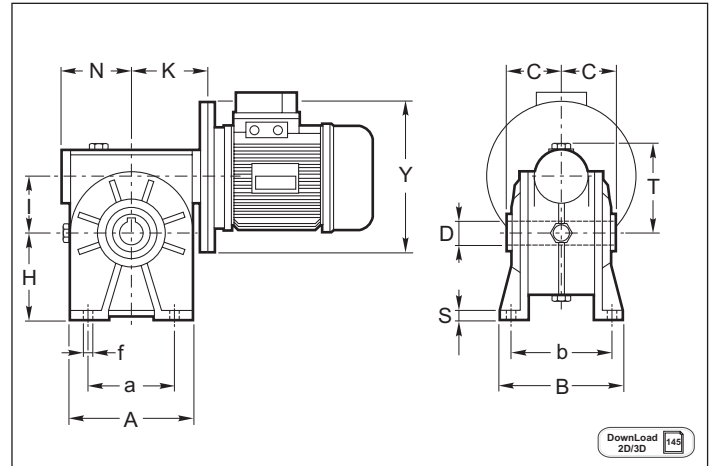
Dimensioni riduttori
Gearboxes dimensions
Abmessungen Getriebes

RI - RMI

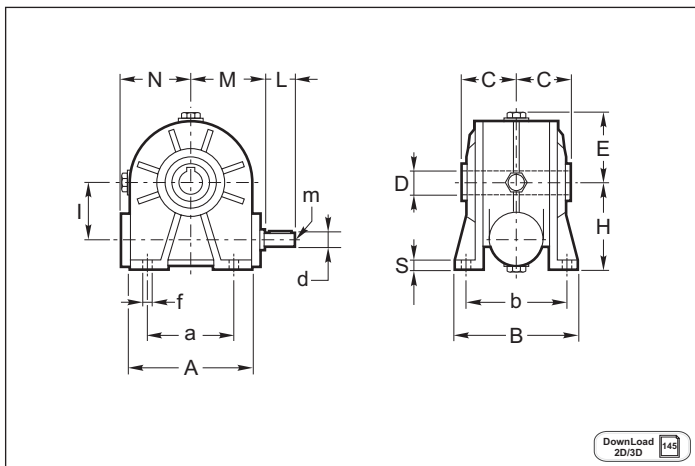
RI S



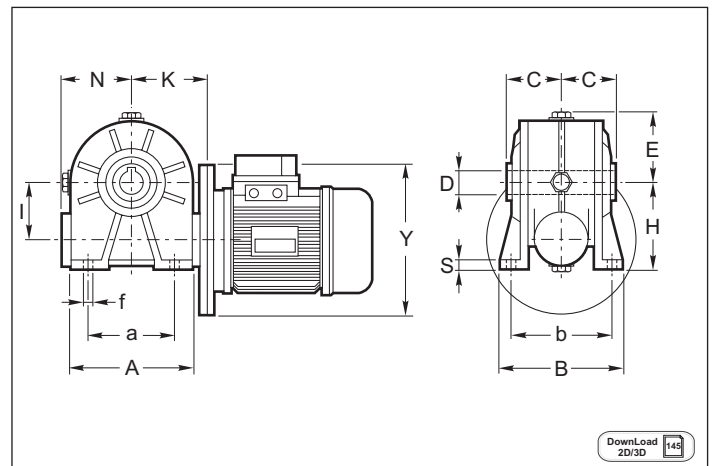
RMI S



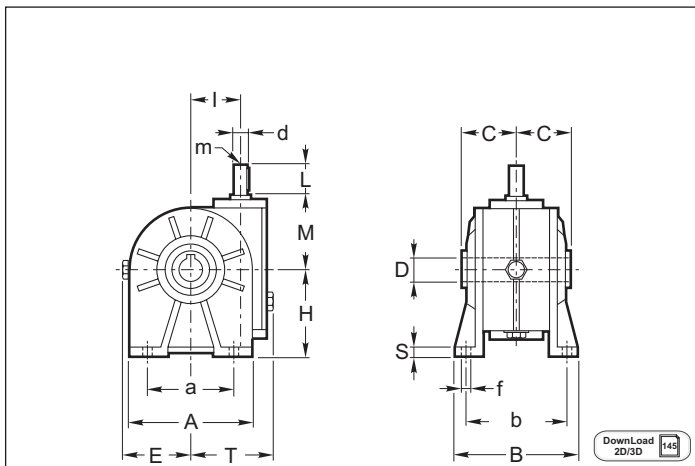
RI I



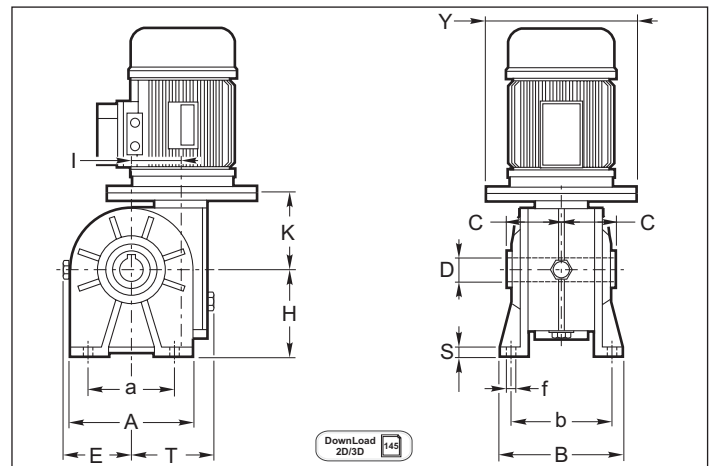
RMI I



RI D



RMI D





2.8 Dimensioni

2.8 Dimensions

2.8 Abmessungen

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	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

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

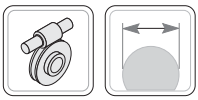
RMI	28		40		50		63		70		85		110		130		150		180	
	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K
B5	120	49	120	63.5	140	77	160	95	160	100	160	116	200	145	250	163	250	190	—	—
	—	—	140	63.5	160	77	200	95	200	100	200	116	250	145	300	163	300	190	300	234
	—	—	160	71	200	81	—	—	—	—	250	118	300	145.5	—	—	350	197	350	234
B14	80•	49	80•	63.5	90•	77	105•	95	105	100	120	116	160	145	—	—	—	—	—	—
	90	51	90	63.5	105	77	120	95	120	100	140	116	—	—	—	—	—	—	—	
	—	—	105	71	120	81	140	95	140	100	160	118	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	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			
	160		200			
B14	90•	70.5	90•	80.5	105•	94.5
	105		105•			
	—		120			

(•) Vedi nota in fondo a tabella 2.13

(•) See note at the bottom of table 2.13

(•) Siehe Bemerkungen Tabelle 2.13 unten

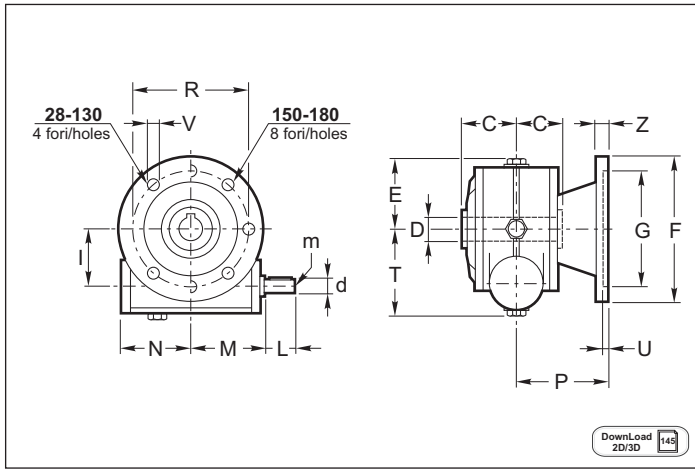


2.8 Dimensioni

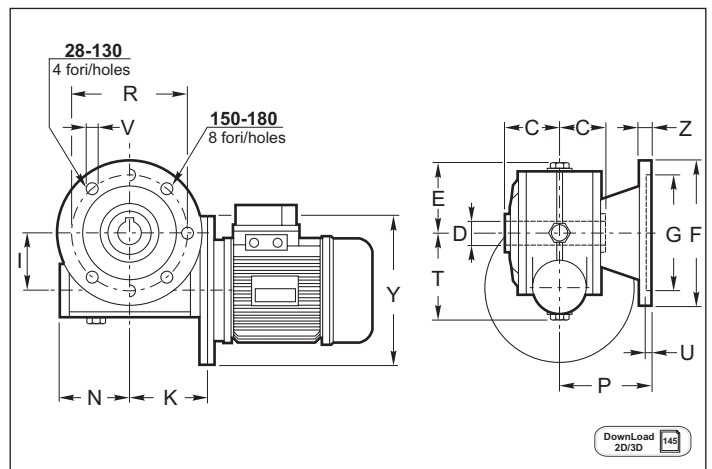
2.8 Dimensions

2.8 Abmessungen

RI FL



RMI FL

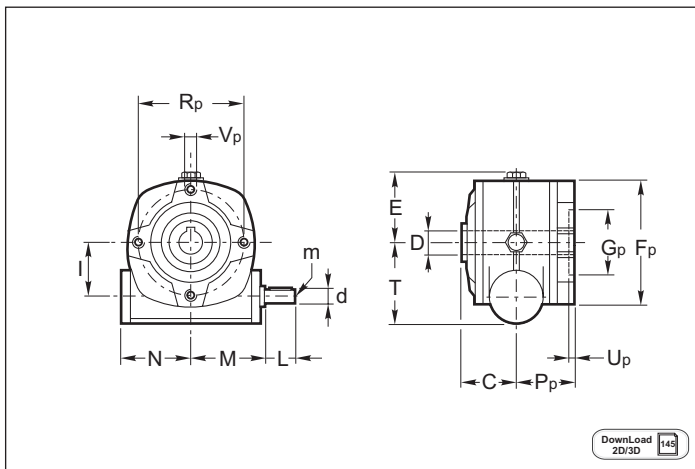


N.B.
Nelle grandezze 40, 50, 63, 70 la versione FL viene ottenuta applicando una flangia modulare sulla flangia pendolare della versione PP.

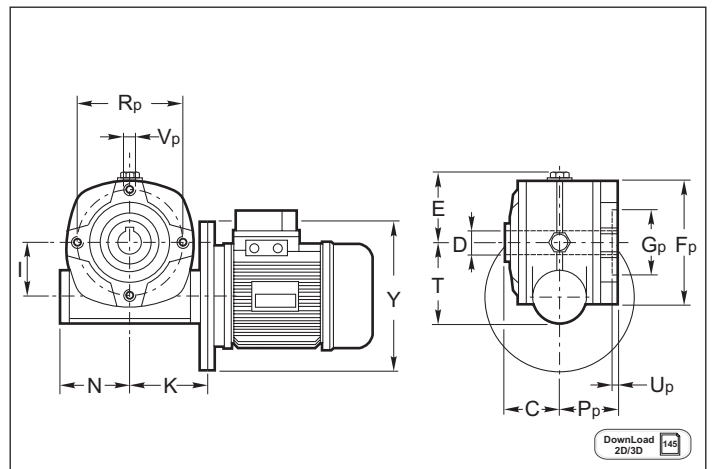
NOTE.
In sizes 40, 50, 63, 70, the FL version is obtained by applying a modular flange onto the shaft-mounted flange of the PP version.

HINWEIS.
Bei den Größen 40, 50, 63 und 70 erhält man die FL-Version, indem ein Modulflansch an den Flansch mit Drehmomentstütze der PP-Version befestigt wird.

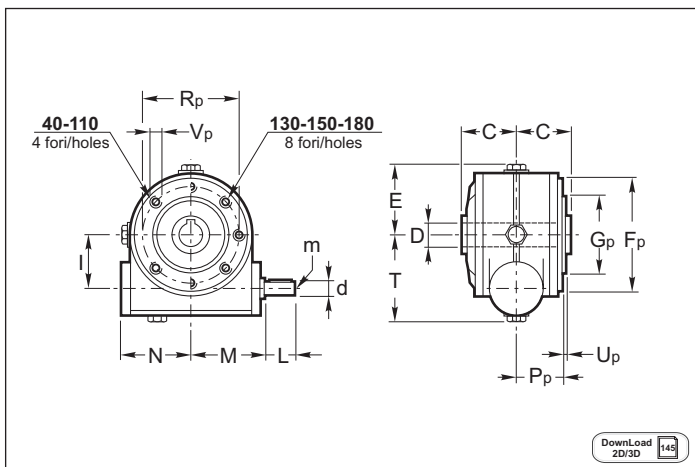
RI 28P



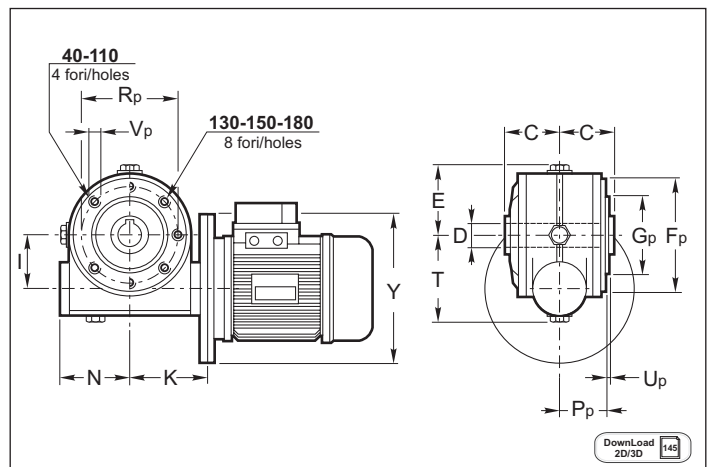
RMI 28P



RI 40PP - 70PP, 85P - 180P



RMI 40PP - 70PP, 85P - 180P





2.8 Dimensioni

2.8 Dimensions

2.8 Abmessungen

RI RMI	C	D H7	d j6	E	I	L	M	m	N	T
28	30	14	9	40	28	20	47	M4	44.5 (46)*	49
40	41	19 (18)	11	59	40	22	64	M5	61.5	66
50	49	24 (25)	14	69	50	30	74	M6	72.5	80
63	60	25	18	81	63	45	96	M6	84	99
70	60	28	19	87	70	40	97	M8	92	108
85	61	32 (35)	24	105	85	50	115	M8	111	135
110	77.5	42	28	135	110	60	146	M8	142	170
130	90	48	38	150	130	80	166	M10	159	200
150	105	55	42	178	150	100	195	M12	189	224
180	120	65	48	210	180	110	235	M14	232	265

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

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

N.B.

La versione FL contrassegnata con il simbolo (°) è ottenuta applicando una flangia modulare sulla flangia pendolare della versione PP.

NOTE.

FL version that is marked with (°) is obtained by applying a modular flange onto the shaft-mounted flange of the PP version.

HINWEIS.

Die mit (°) gekennzeichneten Version FL erhält man, indem ein Modulflansch an den Flansch mit Drehmomentstütze der PP-Version befestigt wird.

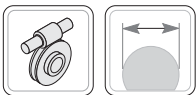
RMI	28		40		50		63		70		85		110		130		150		180	
	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K
B5	120	49	120	63.5	140	77	160	95	160	100	160	116	200	145	250	163	250	190	—	—
	—	—	140	63.5	160	77	200	95	200	100	200	116	250	145	300	163	300	190	300	234
	—	—	160	71	200	81	—	—	—	—	250	118	300	145.5	—	—	350	197	350	234
B14	80•	49	80•	63.5	90•	77	105•	95	105	100	120	116	160	145	—	—	—	—	—	—
	90	51	90	63.5	105	77	120	95	120	100	140	116	—	—	—	—	—	—	—	—
	—	—	105	71	120	81	140	95	140	100	160	118	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	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•		70.5		90•		80.5		105•		94.5	
	105				105•				120			
	—				120				140			

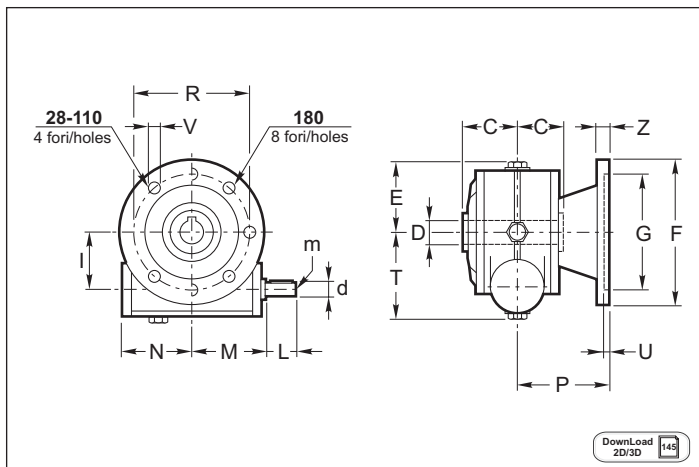
(•) Vedi nota in fondo a tabella 2.13

(•) See note at the bottom of table 2.13

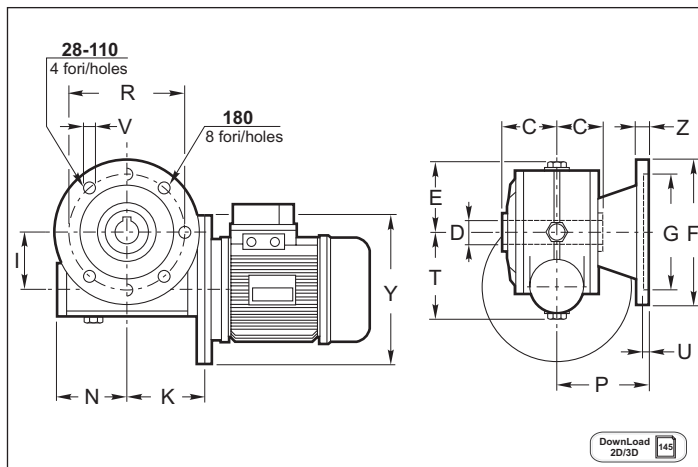
(•) Siehe Bemerkungen Tabelle 2.13 unten



RI F1 - F2 - F3 - F4



RMI F1 - F2 - F3 - F4



N.B.
Le versioni F1, F2, F3 contrassegnate con il simbolo (°) sono ottenute applicando una flangia modulare sulla flangia pendolare della versione PP.

NOTE.
F1, F2 and F3 versions that are marked with (°) are obtained by applying a modular flange onto the shaft-mounted flange of the PP version.

HINWEIS.
Die mit (°) gekennzeichneten Versionen F1, F2 und F3 erhält man, indem ein Modulflansch an den Flansch mit Drehmomentstütze der PP-Version befestigt wird.

RI RMI	F	G H8	P	R	U	V	Z	C	D H7	d j6	E	I	L	M	m	N	T	
28	F1	80	50	53	62 ⁺⁰ ₀	4	6	7	30	14	9	40	28	20	47	M4	44.5(46)*	49
	F2	95	70	72	85	4	6.5	8										
40	F1	106	60	69	87	5	8.5	9	41	19 (18)	11	59	40	22	64	M5	61.5	66
	F2	120	80	62	100	5	9	9										
50	F1	125	70	93	90 ⁺⁰ ₀	5	10.5	10	49	24 (25)	14	69	50	30	74	M6	72.5	80
	F2	125	70	73	100	4	9	9										
	F3	140	95	75	115	4	9	9										
	F4	125	70	85	90 ⁺⁰ _{4.5}	5	10.5	11										
63	F1°	175	115	86	150	5	11	11	60	25	18	81	63	45	96	M6	81	99
	F2°	200	130	102	165	5	13	11										
	F3°	160	110	82	130	5	10	11										
70	F1°	175	115	116	150	5	11	10	60	28	19	87	70	40	97	M8	92	108
	F2°	175	115	85	150	5	11	10										
	F3	160	110	101	130	6	11	11										
85	F1	200	130	141	165	6	13	12	61	32 (35)	24	105	85	50	115	M8	111	135
	F2	210	152	120	176	5	13	14										
	F3	160	110	91	130	5	11.5	10										
110	F1	200	130	115	165	5	13	12	77.5	42	28	135	110	60	146	M8	142	170
	F2	270	170	132	230	10	13.5	18										
	F3	270	170	178	230	10	13.5	18										
180	F2	400	300	150	350	6.5	22	22	120	65	48	210	180	110	235	M14	232	265

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

RMI	28		40		50		63		70		85		110		130		150		180	
	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K	Y	K
B5	120	49	120	63.5	140	77	160	95	160	100	160	116	200	145	250	163	250	190	—	—
	—	—	140	63.5	160	77	200	95	200	100	200	116	250	145	300	163	300	190	300	234
	—	—	160	71	200	81	—	—	—	—	—	250	118	300	145.5	—	—	350	197	350
B14	80•	49	80•	63.5	90•	77	105•	95	105	100	120	116	160	145	—	—	—	—	—	—
	90	51	90	63.5	105	77	120	95	120	100	140	116	—	—	—	—	—	—	—	
	—	—	105	71	120	81	140	95	140	100	160	118	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	160	100	—	—	—	—	—	—	—	—	—	

(•) Vedi nota in fondo a tabella 2.13

(•) See note at the bottom of table 2.13

(•) Siehe Bemerkungen Tabelle 2.13 unten

(* *) Non disponibile in versione F2

(* *) Version F2 not available.

(* *) Nicht erhältlich in Ausuerung F2



2.8 Dimensioni

2.8 Dimensions

2.8 Abmessungen

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

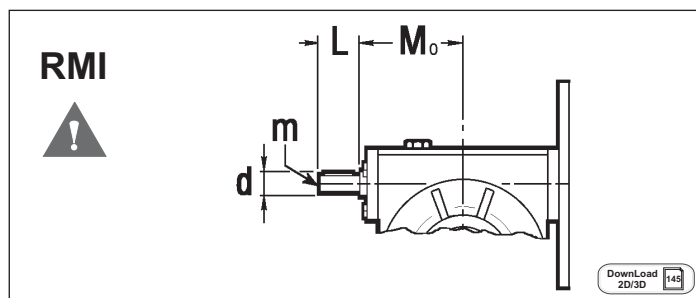
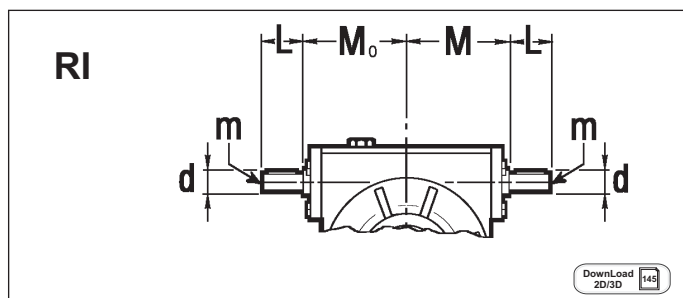
(•) See note at the bottom of table 2.13

(•) Siehe Bemerkungen Tabelle 2.13 unten

Esecuzione con vite bisporgente

Double extended input shaft

Ausführung mit beidseitiger Antriebswelle



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

⚠ Per i riduttori RMI con vite bisporgente vedi nota tab. 2.12.

⚠ The RMI worm gearbox with double extended input shaft see table 2.12.

⚠ Bei der Ausführung mit beidseitiger Antriebswelle bitte die Bemerkung auf Tab. 2.12

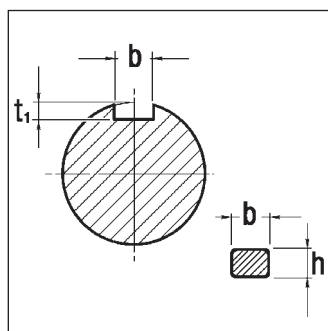
Linguette

Keys

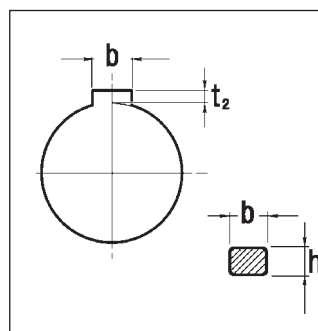
Federn

Albero entrata
Input shaft
Antriebswelle

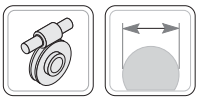
Albero uscita
Output shaft
Abtriebswelle



d	b x h	t ₁	
9	3 x 3	1.8	+0.1 0
11	4 x 4	2.5	
14	5 x 5	3.0	
18	6 x 6	3.5	
19	6 x 6	3.5	
24	8 x 7	4.0	+0.2 0
28	8 x 7	4.0	
38	10 x 8	5.0	
42	12 x 8	5.0	
48	14 x 9	5.5	



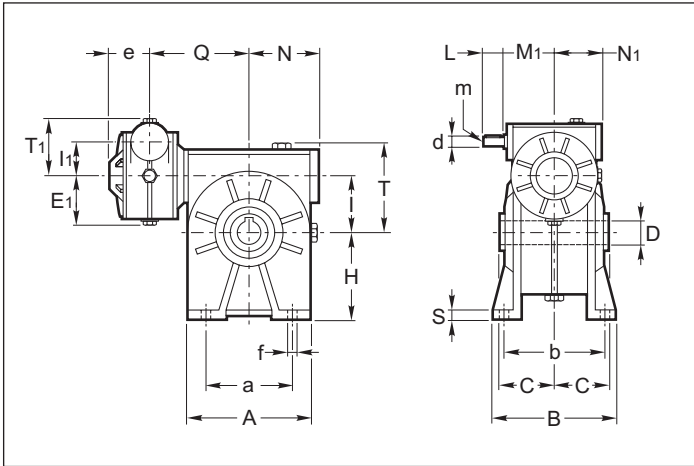
D	b x h	t ₂	
14	5 x 5	2.3	+0.1 0
18	6 x 6	2.8	
19	6 x 6	2.8	
24	8 x 7	3.3	+0.2 0
25	8 x 7	3.3	
28	8 x 7	3.3	
32	10 x 8	3.3	
35	10 x 8	3.3	
42	12 x 8	3.3	+0.2 0
48	14 x 9	3.8	
55	16 x 10	4.3	
65	18 x 11	4.4	



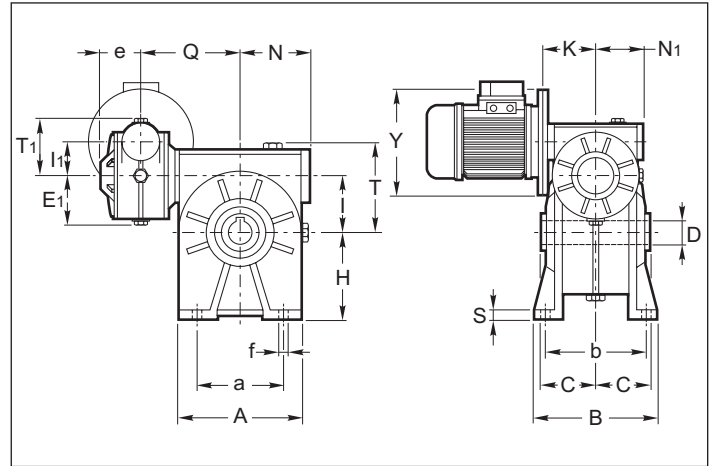
Dimensioni riduttori
Gearboxes dimensions
Abmessungen Getriebes

CRI - CRMI

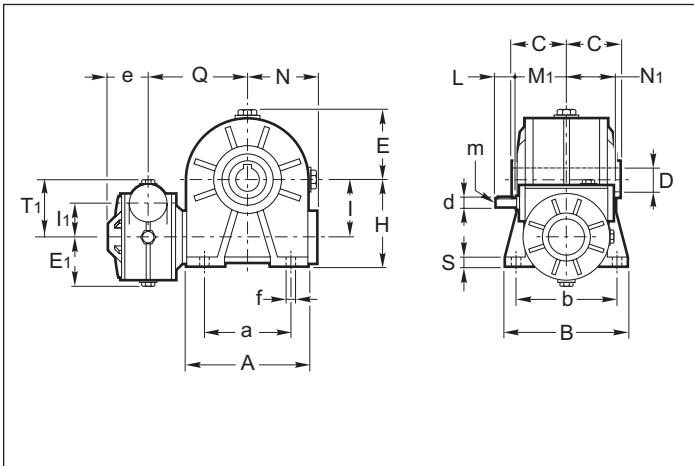
CRI S



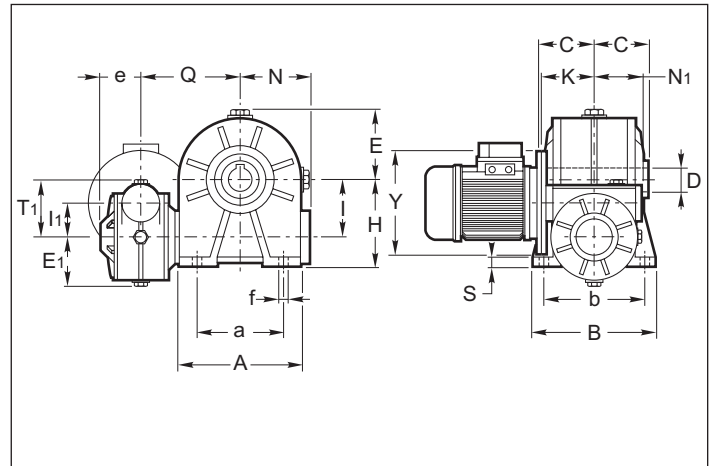
CRMI S



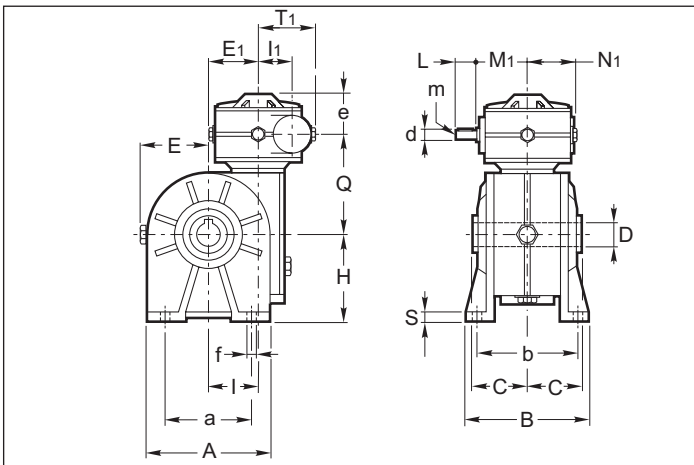
CRI I



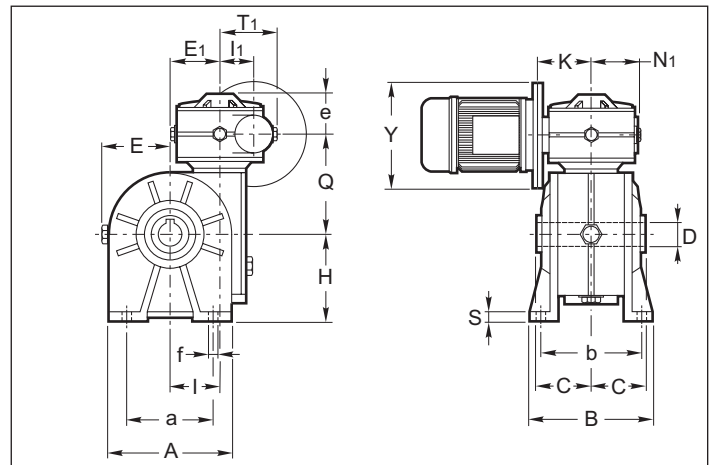
CRMI I



CRI D



CRMI D





2.8 Dimensioni

2.8 Dimensions

2.8 Abmessungen

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 ₋₃	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 ₋₃	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 ₋₃	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 ₋₃	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 ₋₃	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	150	81	69	15	265	200	130	63	45	M6	96	159	81	19	200	99
70/130	286	235	230	190	90	48	19	150	87	68	15	214	200	130	70	40	M8	97	159	92	19	200	108
85/130	286	235	230	190	90	48	24	150	105	71	15	213	200	130	85	50	M8	115	159	111	19	200	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	116	200	145	—	—
	—	—	140	63.5		160	77	200	200			100	200	116	250	145	250	163	
	—	—	160	71		200	81	—	—			—	—	250	118	300	145.5	300	163
B14	80•	49	80	63.5•	—	90	77•	80.5•	105•	95	94.5	105	100	120	116	160	145	—	—
	90	51	90	63.5	70.5•	105	77	120	120			120	116	—	—	—	—		
	—	—	105	71	70.5	120	81	80.5	140			140	118	—	—	—	—		
	—	—	—	—	—	—	—	—	—			—	—	160	100	—	—	—	—

(•) Vedi nota in fondo a tabella 2.13

(•) See note at the bottom of table 2.13

(•) Siehe Bemerkungen Tabelle 2.13 unten

(**) Riduttori con accoppiamento eseguito con kit di montaggio, vedi pag.69.

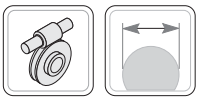
N.B. Le dimensioni delle linguette sono riportate di seguito.

(**) Gearboxes assembled with combination kit, see also page 69.

NOTE. Sizes of feathers are shown below.

(**) Getriebe angebaut mit kombinationskit, siehe auch Seite 69.

HINWEIS. Die Abmessungen der Federn sind auf angegeben.

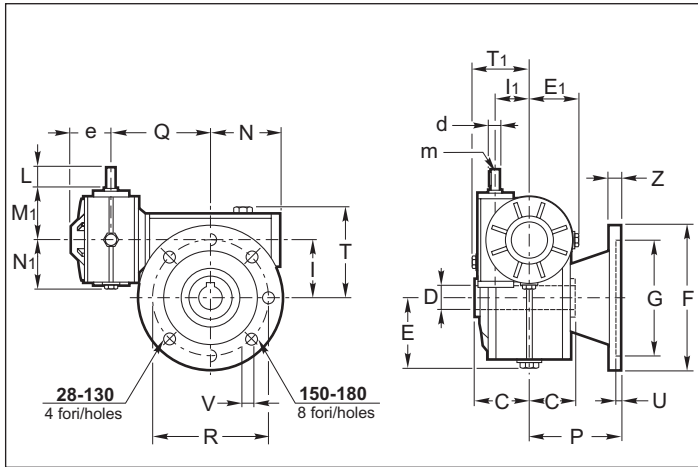


2.8 Dimensioni

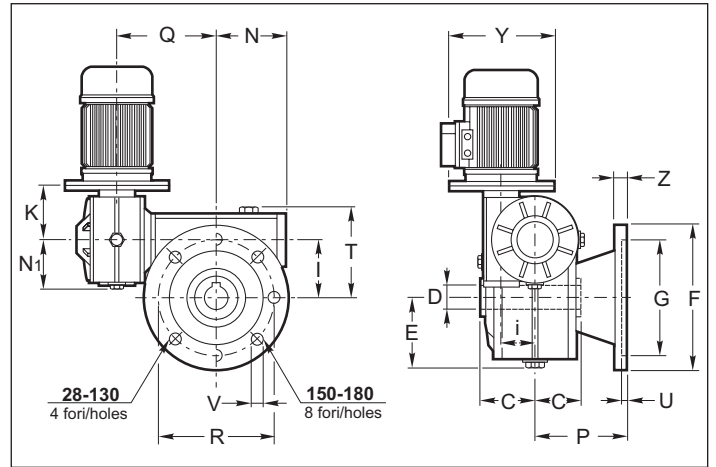
2.8 Dimensions

2.8 Abmessungen

CRI A(FL)



CRMI A(FL)

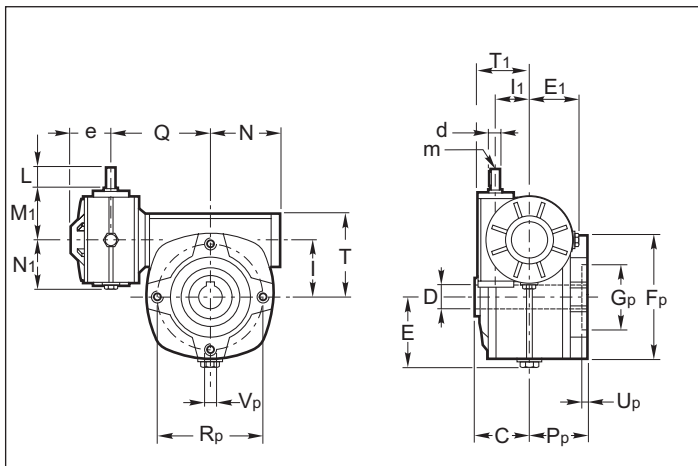


N.B.
 (*) Nelle grandezze .../40, .../50, .../63, .../70 la versione A(FL) viene ottenuta applicando una flangia modulare sulla flangia pendolare della versione A(PP).

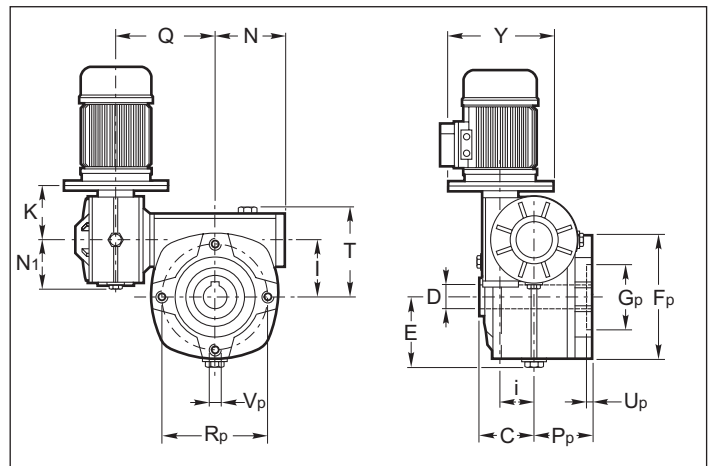
NOTE.
 (*) In sizes .../40, .../50, .../63, .../70 the FL version is obtained by applying a modular flange onto the shaft-mounted flange of the A(PP) version.

HINWEIS.
 (*) Bei den Größen .../40, .../50, .../63, .../70 erhält man die FL-Version, indem ein Modulflansch an den Flansch mit Drehmomentstütze der A(PP)-Version

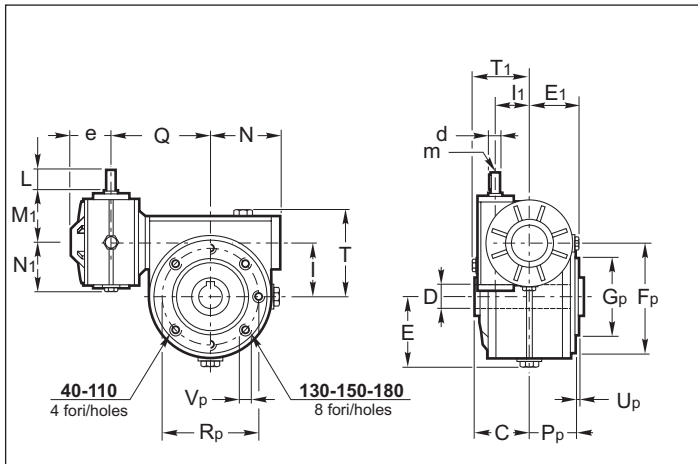
CRI .../28A(P)



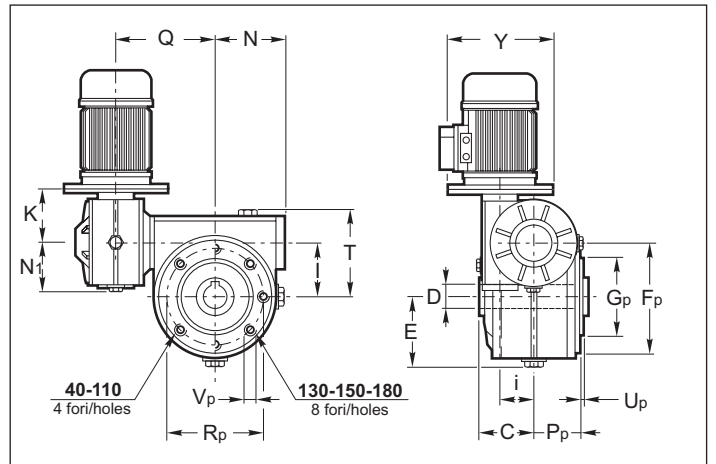
CRMI .../28A(P)

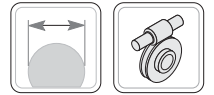


**CRI .../40A(PP) - .../70A(PP)
 CRI .../85A(P) - .../180A(P)**



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





2.8 Dimensioni

2.8 Dimensions

2.8 Abmessungen

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	150	81	69	265	130	63	45	M6	96	159	81	200	99
70/130	90	48	19	150	87	68	214	130	70	40	M8	97	159	92	200	108
85/130	90	48	24	150	105	71	213	130	85	50	M8	115	159	111	200	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 **	160°	110	91.5	130	5	10	10	105	70	49	85	2.5	M8
28/50	180°	115	116	150	5	11	11	105	70	57.5	85	3.5	M8
40/50													
28/63													
40/63													
28/70													
40/70	200°	130	111	165	5	13	11	120	80	57	100	5	M8
50/70													
63/70 **													
40/85 **													
50/85	200	130	100	165 ⁰ ₊₁₁	5	13	12	144	110	56.5	130	3.5	M10
63/85 **													
70/85													
50/110 **													
63/110 **	250	180	150	215	5	15	16	200	130	74	165	3	M12
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	350	250	160	300	6	19	18	250	180	102	215	5	M14
110/150													
85/180	400	300	180	350	6.5	22	22	300	230	117	265	5	M16
110/180													
130/180													

	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																		
B5	120	49	120	63.5		140	77		160			160	100	160	116	200	145	—	—
	—	—	140	63.5	70.5	160	77	80.5	200	95	94.5	200	100	200	116	250	145	250	163
	—	—	160	71		200	81		—	—	—	—	—	250	118	300	145.5	300	163
B14	80•	49	80	63.5•	—	90	77•	—	105•	—	—	105	100	120	116	160	145	—	—
	90	51	90	63.5	70.5•	105	77	80.5•	120	95	94.5	120	100	140	116	—	—	—	—
	—	—	105	71	70.5	120	81	80.5	140	—	—	140	100	160	118	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	160	100	—	—	—	—	—	—

(•) Vedi nota in fondo a tabella 2.13

(•) See note at the bottom of table 2.13

(•) Siehe Bemerkungen Tabelle 2.13 unten

(**) Riduttori con accoppiamento eseguito con kit di montaggio, vedi pag.69.

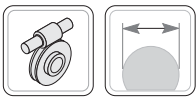
(**) Gearboxes assembled with combination kit, see also page 69.

(**) Getriebe angebaut mit kombinationskit, siehe auch Seite 69.

N.B. Le dimensioni delle linguette sono riportate di seguito.

NOTE. Sizes of feathers are shown below.

HINWEIS. Die Abmessungen der Federn sind angegeben.



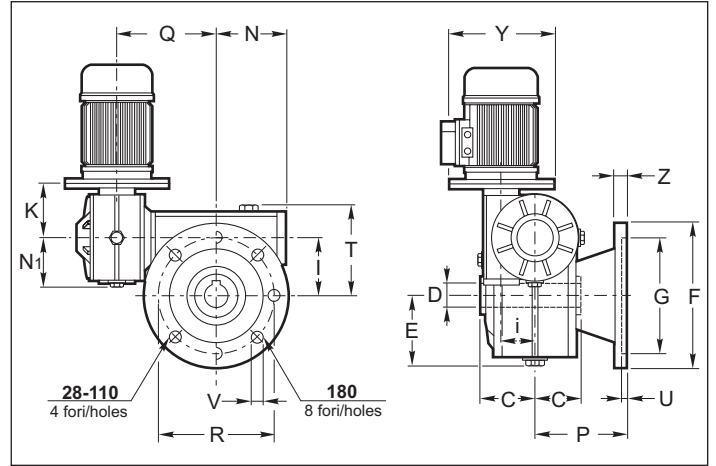
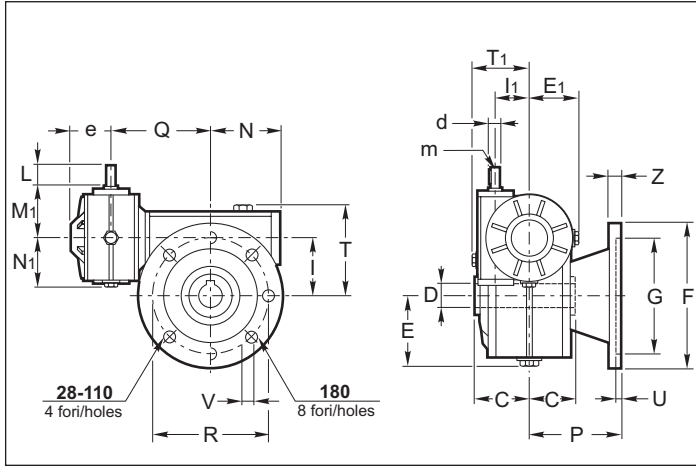
2.8 Dimensioni

2.8 Dimensions

2.8 Abmessungen

CRI A(F1 - F2 - F3 - F4)

CRMI A(F1 - F2 - F3 - F4)



	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			85/180 110/180 130/180
	F1	F2	F1	F2	F1	F2	F3	F4	F1°	F2°	F3°	F1°	F2°	F3	F1	F2	F3	F1	F2	F3	F2
F	80	95	106	120	125	125	140	125	175	200	160	175	175	160	200	210	160	200	270	270	400
G (H8)	50	70	60	80	70	70	95	70	115	130	110	115	115	110	130	152	110	130	170	170	300
P	53	72	69	62	93	73	75	85	86	102	82	116	85	101	141	120	91	115	132	178	150
R	62 + ⁰ / ₉	85	87	100	90 + ⁰ / ₉	100	115	90 + ⁰ / ₅	150	165	130	150	150	130	165	176	130	165	230	230	350
U	4	4	5	5	5	4	4	5	5	5	5	5	5	6	6	5	5	5	10	10	6.5
V	6	6.5	8.5	9	10.5	9	9	10.5	11	13	10	11	11	11	13	13	11.5	13	13.5	13.5	22
Z	7	8	9	9	10	9	9	11	11	11	11	10	10	11	12	14	10	12	18	18	22

Le versioni F1, F2, F3 contrassegnate con il simbolo (°) sono ottenute applicando una flangia modulare sulla flangia pendolare della versione PP.

F1, F2 and F3 versions that are marked with (°) are obtained by applying a modular flange onto the shaft-mounted flange of the PP version.

Die mit (°) gekennzeichneten Versionen F1, F2 und F3 erhält man, indem ein Modulflansch an den Flansch mit Drehmomentstütze der PP-Version befestigt wird.

CRI CRMI	C	D H7	d j6	E	E ₁	e	Q	l	l 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	81	44.5*	99	49
40/63	60	25	11	81	59	49	146	63	40	22	M5	64	81	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
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

(**) Riduttori con accoppiamento eseguito con kit di montaggio, vedi pag.69.
N.B. Le dimensioni delle linguette sono riportate di seguito.

(°) Gearboxes assembled with combination kit, see also page 69.
NOTE. Sizes of feathers are shown below.

(°) Getriebe angebaut mit kombinationskit, siehe auch Seite 69.
HINWEIS. Die Abmessungen der Federn sind auf angegeben.



2.8 Dimensioni

2.8 Dimensions

2.8 Abmessungen

	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	116	200	145	—	—	
	—	—	140	63.5		160	77		200	95	200	100	200	116	250	145	250	163	—	—
	—	—	160	71		200	81		—	—	—	—	250	118	300	145.5	300	163	—	—
B14	80•	49	80	63.5•	—	90	77•	80.5•	105•	95	94.5	105	100	120	116	160	145	—	—	
	90	51	90	63.5	70.5•	105	77	120	120			100	140	116	—	—	—	—	—	—
	—	—	105	71	70.5	120	81	80.5	140			140	100	160	118	—	—	—	—	—
	—	—	—	—	—	—	—	—	—			—	—	—	—	—	—	—	—	—

(•) Vedi nota in fondo a tabella 2.13

(•) See note at the bottom of table 2.13

(•) Siehe Bemerkungen Tabelle 2.13 unten

(**) Riduttori con accoppiamento eseguito con kit di montaggio, vedi pag.69.
N.B. Le dimensioni delle linguette sono riportate di seguito.

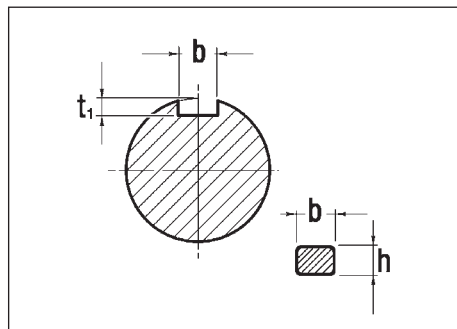
(**) Gearboxes assembled with combination kit, see also page 69.
NOTE: Sizes of feathers are shown below.

(**) Getriebe angebaut mit kombinationskit, siehe auch Seite 69.
HINWEIS: Die Abmessungen der Federn sind angegeben.

Linguette

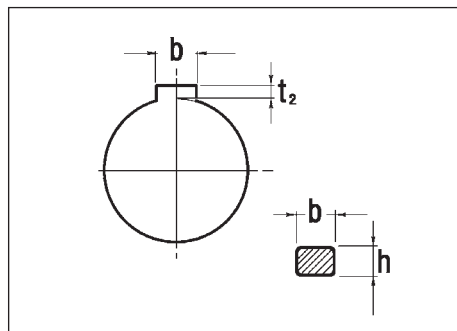
Keys

Federn



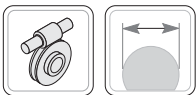
Albero entrata
Input shaft
Antriebswelle

d	b x h	t ₁
9	3 x 3	1.8
11	4 x 4	2.5
14	5 x 5	3.0
18	6 x 6	3.5
19	6 x 6	3.5
24	8 x 7	4.0
28	8 x 7	4.0
38	10 x 8	5.0
42	12 x 8	5.0
48	14 x 9	5.5



Albero uscita
Output shaft
Abtriebswelle

D	b x h	t ₂
14	5 x 5	2.3
18	6 x 6	2.8
19	6 x 6	2.8
24	8 x 7	3.3
25	8 x 7	3.3
28	8 x 7	3.3
32	10 x 8	3.3
35	10 x 8	3.3
42	12 x 8	3.3
48	14 x 9	3.8
55	16 x 10	4.3
65	18 x 11	4.4



Esecuzione con vite bisorgente

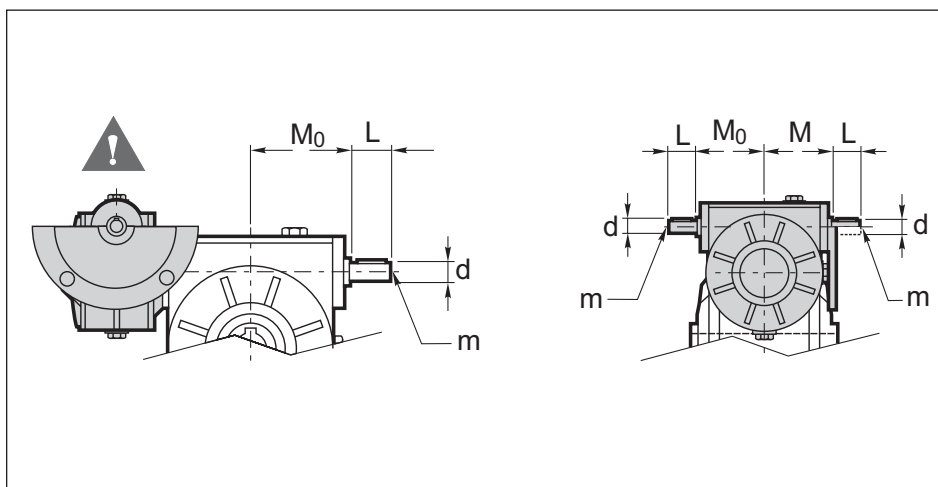
Double extended input shaft

Ausführung mit Wellenzapfen auf beiden Seiten

Nei riduttori combinati è necessario specificare se questa configurazione è riferita al primo riduttore (in entrata) o al secondo riduttore (in uscita).

In combined gearboxes, it is necessary to specify if such configuration refers to the first gearbox (input gearbox) or to the second one (output gearbox).

Bei den Kombinationsgetrieben muß angegeben werden, ob sich die Konfiguration auf das erste Getriebe (Eingang) oder auf das zweite (Ausgang) bezieht.



Grandezza Size Größe	d	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



Per i riduttori CRMI con vite bisorgente vedi nota tab. 2.12.



The CRMI worm gearbox with double extended input shaft see table 2.12.



Bei der Ausführung mit beidseitiger Antriebswelle bitte die Bemerkung auf Tab. 2.12



Accoppiamenti

E' inoltre disponibile un kit che permette di combinare modularmente i riduttori, utilizzando un riduttore in entrata in versione flangiata e il riduttore in uscita predisposto con flangia attacco motore IEC. La tabella seguente indica le possibili combinazioni.

Coupling

To make you more flexible it is also possible to supply the gearboxes seperately and to combine them with an assembling kit. For this we deliver the input gearbox in the flanged version and the output gearbox with IEC motor connecting flange. The possible combinations and the assembling kits are listed below.

Kupplung

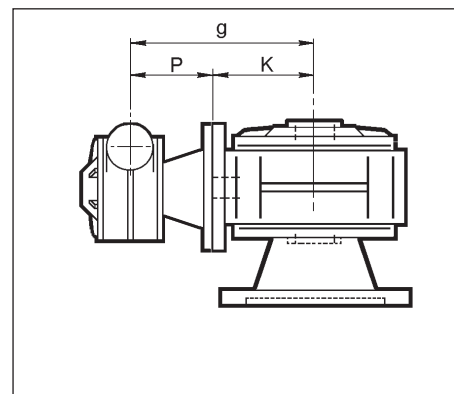
Um bei der Kombination der Getriebe vorort flexibler zu sein, bieten wir einen Montage-Kit an, mit dessen Hilfe ein Standardgetriebe mit Abtriebsflansch in der ersten Übersetzungsstufe und ein Standardgetriebe mit IEC-Eingangsfansch in der zweiten Übersetzungsstufe kombiniert werden können. Die Kombinationsmöglichkeiten sowie die zugehörigen Montage-Kits sind in der folgenden Tabelle aufgelistet.

Nei riduttori e motorvariatori combinati 28/28 e 28/40 (accoppiati con kit di montaggio) l'asse della vite del 1° riduttore è sempre inclinata di 45° rispetto all'asse orizzontale o verticale. Specificare la posizione in fase di ordine.

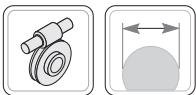
In the combined worm gearboxes and motor-variators 28/28 and 28/40 (coupled with an assembly kit) the wormshaft axis of the first gearbox has always a tilt of 45° compared to the horizontal or vertical axis.

The position has to be specified in the order.

Wird das Kombinationsgetriebe 28/28 und 28/40 mit Hilfe des Montagekits gebildet, so befindet sich die Achse des ersten Getriebes immer in 45° bezüglich zur Horizontalen bzw. Vertikalen. Bei Auftragserteilung bitte die Montageposition angeben.



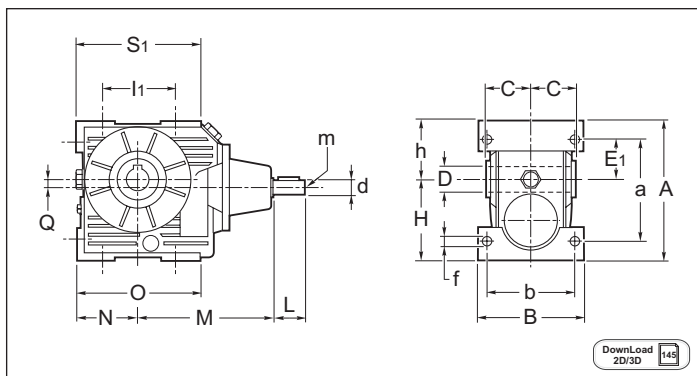
CRI CRMI	P	K	g	Riduttore in entrata Input gearbox Erstes Getriebe	Kit di montaggio Assembling kit Montage-kit	Riduttore uscita Output gearbox Zweites Getriebe
28/28	53	49	102	28 F1	KIT 28/28	28 IEC56 B14
40/40	82	63.5	145.5	40 FL	KIT 40/40	40 IEC63 B5
40/50	82	77	159	40 FL	KIT 40/50	50 IEC140/14
50/50	91.5	77	168.5	50 FL	KIT 50/50	50 IEC71 B5
40/63	82	95	177	40 FL	KIT 40/63	63 IEC140/19
50/63	91.5	95	186.5	50 FL	KIT 50/63	63 IEC160/19
63/63	82	95	177	63 F3	KIT 63/63	63 IEC160/19
40/70	82	100	182	40 FL	KIT 40/70	70 IEC140/19
50/70	91.5	100	191.5	50 FL	KIT 50/70	70 IEC160/19
63/70	82	100	182	63 F3	KIT 63/70	70 IEC160/19
70/70	111	100	211	70 FL	KIT 70/70	70 IEC80 B5
40/85	82	116	198	40 FL	KIT 40/85	85 IEC90 B14
50/85	91.5	116	207.5	50 FL	KIT 50/85	85 IEC160/24
63/85	82	116	198	63 F3	KIT 63/85	85 IEC160/24
70/85	111	116	227	70 FL	KIT 70/85	85 IEC90 B5
85/85	100	116	216	85 FL	KIT 85/85	85 IEC90 B5
50/110	91.5	145	236.5	50 FL	KIT 50/110	110 IEC100 B14
63/110	82	145	227	63 F3	KIT 63/110	110 IEC100 B14
70/110	111	145	256	70 FL	KIT 70/110	110 IEC200/28
85/110	100	145	245	85 FL	KIT 85/110	110 IEC200/28
63/130	102	163	265	63 F2	KIT 63/130	130 IEC200/28



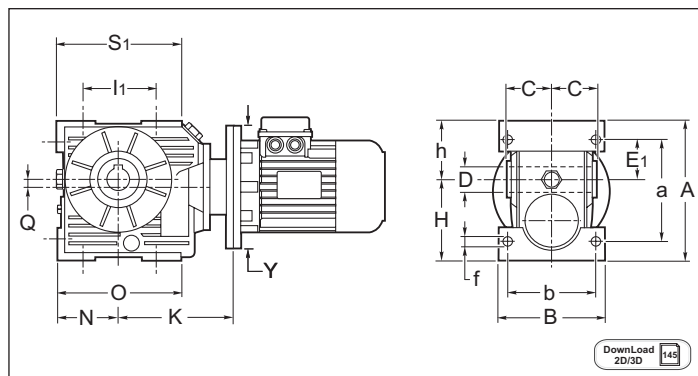
Dimensioni riduttori
Gearboxes dimensions
Abmessungen Getriebes

CR - CB

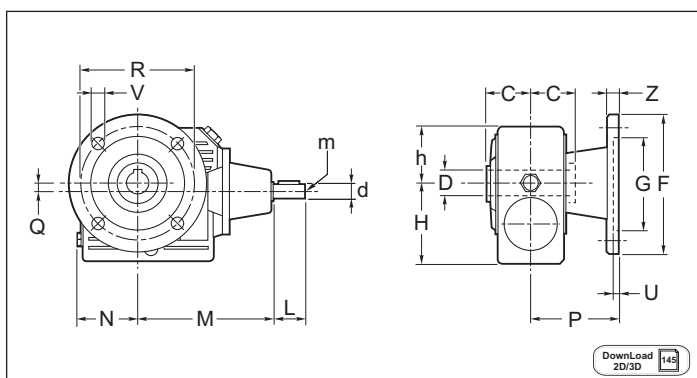
CR



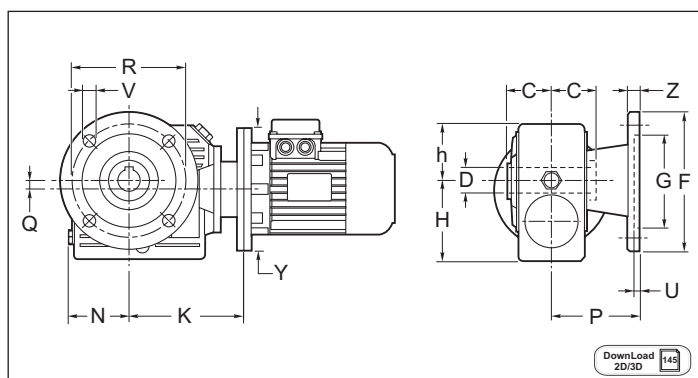
CB



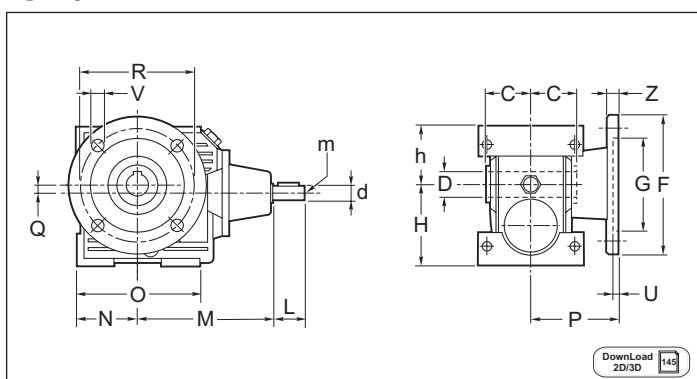
CRF



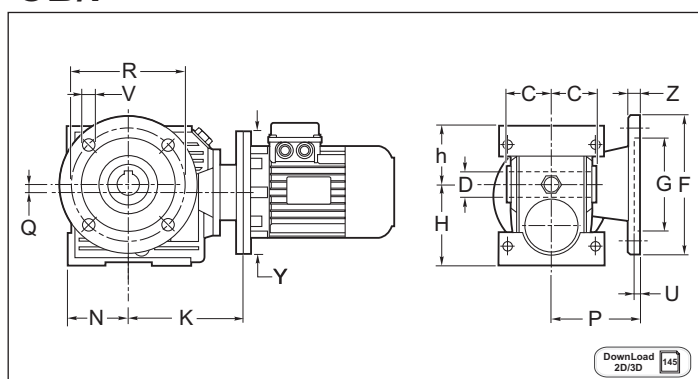
CBF



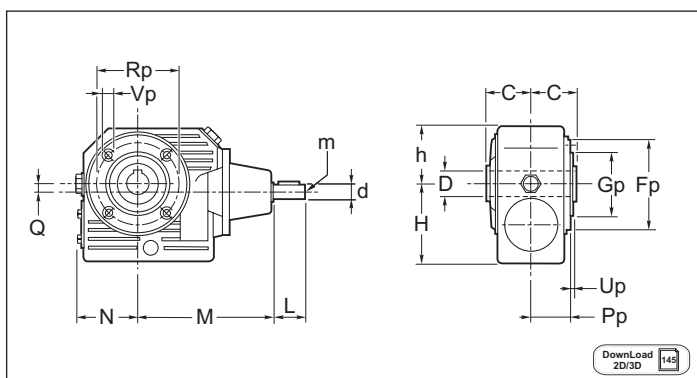
CR/F



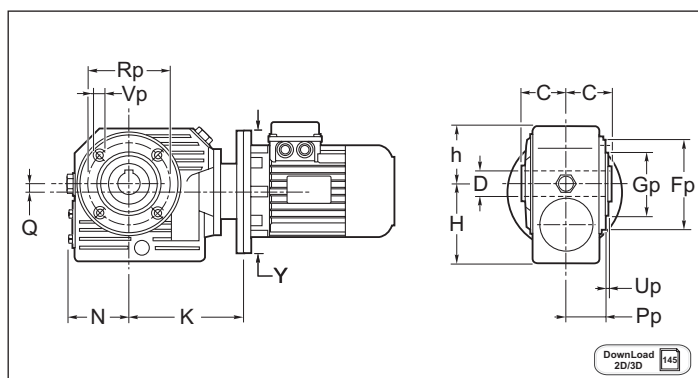
CB/F



CRP



CBP





2.8 Dimensioni

2.8 Dimensions

2.8 Abmessungen

CR CB	A	a	B	b	C	D H7	d J6	E1	f	H	h	I1	L	M	m	N	O	Q	S1
40	135	100	102	84	41	19 (18)	14	40	7	78	57	70	30	137	M6	59	117	7	117
50	166	120	120	99	49	24 (25)	19	46	9	97	69	85	40	143	M8	69	130	9	130
70	215	160	140	116	60	28	24	61	11	127	88	120	50	188	M8	93	193	17.5	186
85	252	188	170	140	61	32 (35)	28	74	13	145	107	140	60	212	M8	116	231	29	221
110	330	244	200	162	77.5	42	32	97	14	190	140	200	70	264.5	M10	142	282	43	277

CR CB	F	G H8	P	R	U	V	Z	Fp	Gp h8	Pp	Rp	Up	Vp
40	140°	95	82	115	5	8.5	9	95	60	38	83	2	M6
50	160°	110	91.5	130	5	10	10	105	70	49	85	2.5	M8
70	200°	130	111	165	5	13	11	120	80	57	100	5	M8
85	200	130	100	165 +1 ⁰	5	13	12	144	110	56.5	130	3.5	M10
110	250	180	150	215	5	15	16	200	130	74	165	3	M12

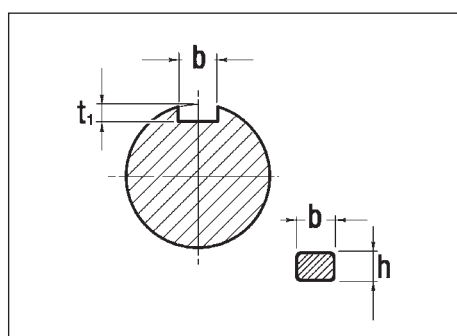
	CB									
	40		50		70		85		110	
	Y	K	Y	K	Y	K	Y	K	Y	K
B5	120	108	120	133	140	153	140	172.5	200	229
	140	108	140	133	160	153	160	172.5	250	239
	—	—	160	133	200	165	200	193	—	—
B14	80	108	80	133	—	—	—	—	—	—

N.B.
(°) Nelle grandezze 40, 50, 70 la versione FL viene ottenuta applicando una flangia modulare sulla flangia pendolare della versione PP.

NOTE.
(°) In sizes 40, 50, 70 the FL version is obtained by applying a modular flange onto the shaft mounted flange on the PP version.

HINWEIS.
(°) Bei den Größen 40, 50, 70 erhält man die FL-Version, indem ein Modulflansch an den Flansch mit Drehmomentstütze der PP-Version befestigt wird.

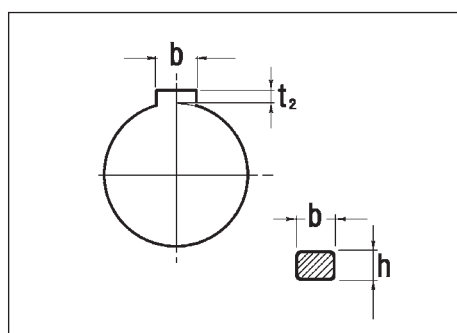
Linguette



Keys

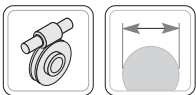
Albero entrata
Input shaft
Antriebswelle

d	b x h	t ₁
14	5 x 5	3.0 +0.1 0
19	6 x 6	3.5
24	8 x 7	4.0
28	8 x 7	4.0 +0.2 0
32	10 x 8	5.0

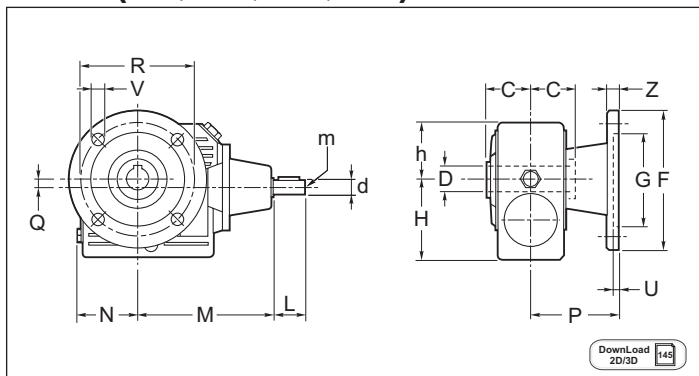


Albero uscita
Output shaft
Abtriebswelle

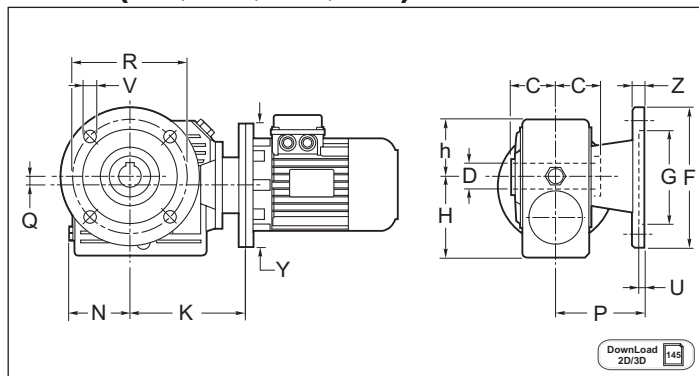
D	b x h	t ₂
19	6 x 6	2.8 +0.1 0
24	8 x 7	3.3
28	8 x 7	3.3
32	10 x 8	3.3 +0.2 0
42	12 x 8	3.3



CRF (F1, F2, F3, F4)



CBF (F1, F2, F3, F4)



	CR - CB														
	40		50				70			85			110		
	F1	F2	F1	F2	F3	F4	F1°	F2°	F3	F1	F2	F3	F1	F2	F3
F	106	120	125	125	140	125	175	175	160	200	210	160	200	270	270
G (H8)	60	80	70	70	95	70	115	115	110	130	152	110	130	170	170
P	69	62	93	73	75	85	116	85	101	141	120	91	115	132	178
R	87	100	90 ⁺⁰	100	115	90 ^{+0.45}	150	150	130	165	176	130	165	230	230
U	5	5	5	4	4	5	5	5	6	6	5	5	5	10	10
V	8.5	9	10.5	9	9	10.5	11	11	11	13	13	11.5	13	13.5	13.5
Z	9	9	10	9	9	11	10	10	11	12	14	10	12	18	18

N.B.
Le versioni F1, F2 contrassegnate con il simbolo (°) sono ottenute applicando una flangia modulare sulla flangia pendolare della versione PP.

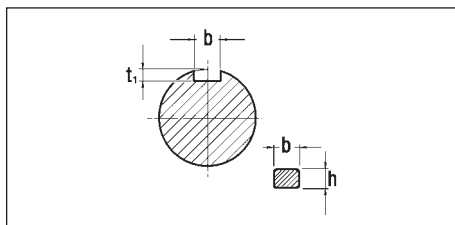
NOTE.
F1, F2 versions that are marked with (°) are obtained by applying a modular flange onto the shaft mounted flange on the PP version.

HINWEIS.
Die mit (°) gekennzeichneten Versionen F1, F2 erhält man, indem ein Modulflansch an den Flansch mit Drehmomentstütze der PP-Version befestigt wird.

CR CB	C	D H7	d J6	L	Q	H	h	M	m	N
40	41	19 (18)	14	30	7	78	57	137	M6	59
50	49	24 (25)	19	40	9	97	69	143	M8	69
70	60	28	24	50	17.5	127	88	188	M8	93
85	61	32 (35)	28	60	29	145	107	212	M8	116
110	77.5	42	32	70	43	190	140	264.5	M10	142

	CB									
	40		50		70		85		110	
	Y	K	Y	K	Y	K	Y	K	Y	K
B5	120	108	120	134	140	153	140	172.5	200	229
	140	108	140	134	160	153	160	172.5	250	239
B14	—	—	160	134	200	165	200	193	—	—
	80	108	80	134	—	—	—	—	—	—

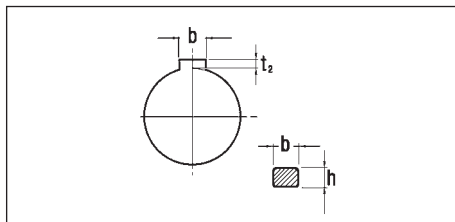
Linguette



Keys

Albero entrata
Input shaft
Antriebswelle

d	b x h	t ₁
14	5 x 5	3.0 ^{+0.1}
19	6 x 6	3.5
24	8 x 7	4.0
28	8 x 7	4.0 ^{+0.2}
32	10 x 8	5.0



Albero uscita
Output shaft
Abtriebswelle

D	b x h	t ₂
19	6 x 6	2.8 ^{+0.1}
24	8 x 7	3.3
28	8 x 7	3.3 ^{+0.2}
32	10 x 8	3.3
42	12 x 8	3.3

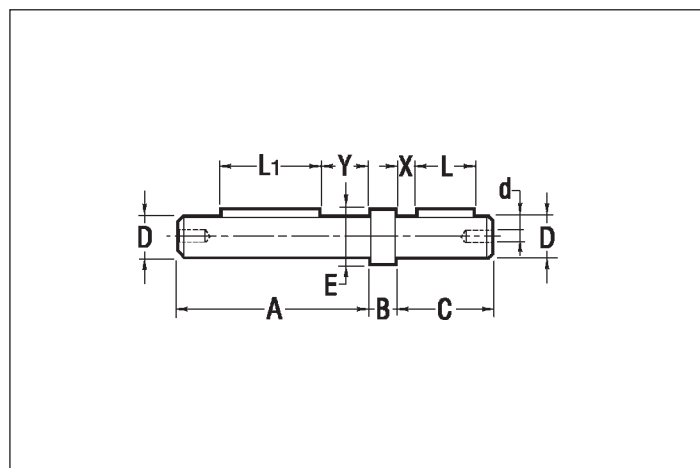
Federn



**2.9 Accessori
Alberi lenti**

Tutti i riduttori a vite senza fine sono forniti con albero lento cavo. A richiesta, possono essere forniti alberi lenti come indicato nei disegni dimensionali.
Le dimensioni delle linguette sono conformi alle norme UNI 6604-69.

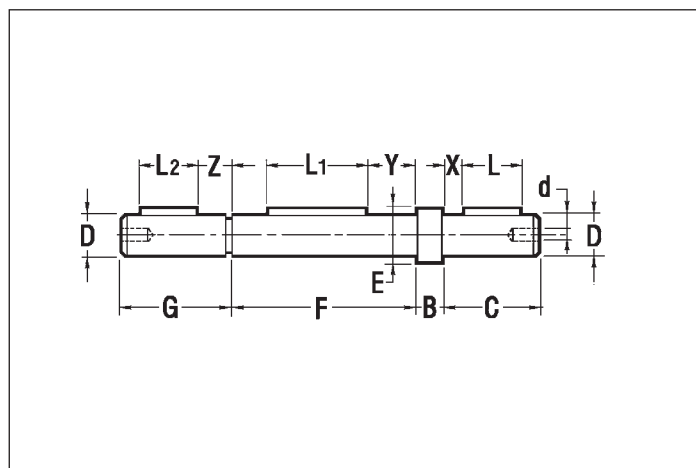
Albero lento
Single output shaft
Einseitige Abtriebswelle



**2.9 Accessories
Output shafts**

All worm gearboxes are supplied with hollow output shaft. Output shafts as shown in the size drawings can be supplied upon request.
Sizes of feathers comply with standards UNI 6604-69.

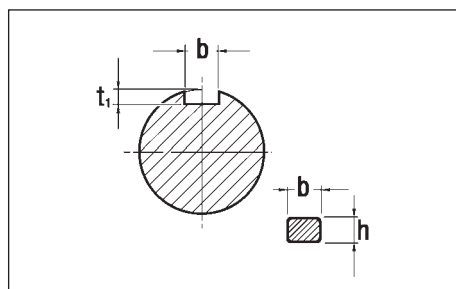
Albero lento bisporgente
Double output shaft
Beidseitige Abtriebswelle



**2.9 Zubehör
Abtriebswellen**

Alle Schneckengetriebe werden mit hohler Abtriebswelle geliefert. Auf Anfrage können Abtriebswellen gemäß den Maßzeichnungen geliefert werden.
Die Abmessungen der Federn entsprechen den Normen UNI 6604-69.

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

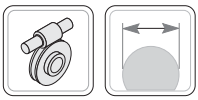


D	b x h	t ₁
14	5 x 5	3.0 +0.1
19	6 x 6	3.5 0
24	8 x 7	4.0
25	8 x 7	4.0
28	8 x 7	4.0
32	10 x 8	5.0
42	12 x 8	5.0 +0.2
48	14 x 9	5.5 0
55	16 x 10	6.0
65	18 x 11	7.0

N.B.
Tutti gli alberi lenti vengono forniti in kit di montaggio completi di linguette, rondelle, viti (e anelli elastici seeger per l'albero bisporgente).

NOTE.
All output shafts are supplied in kit complete with feathers, washers and screws (as well as snap rings for the double extended shaft).

HINWEIS.
Alle Abtriebswellen werden als Bausätze komplett mit Federn, Scheiben und Schrauben geliefert (bei der beidseitigen Abtriebswelle auch die Seegerringe).

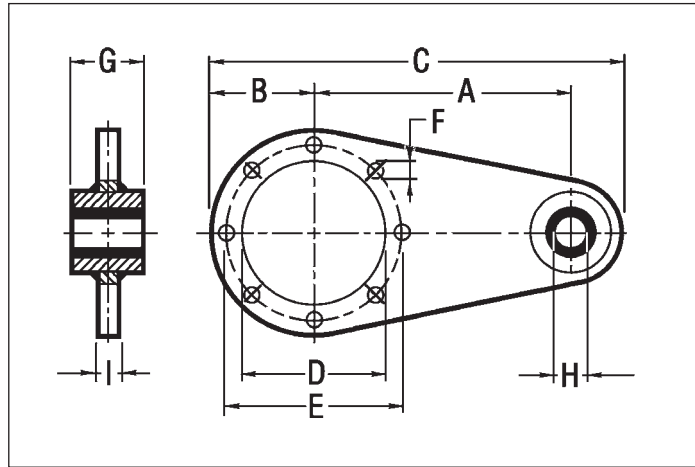


2.10 Accessori
Braccio di reazione

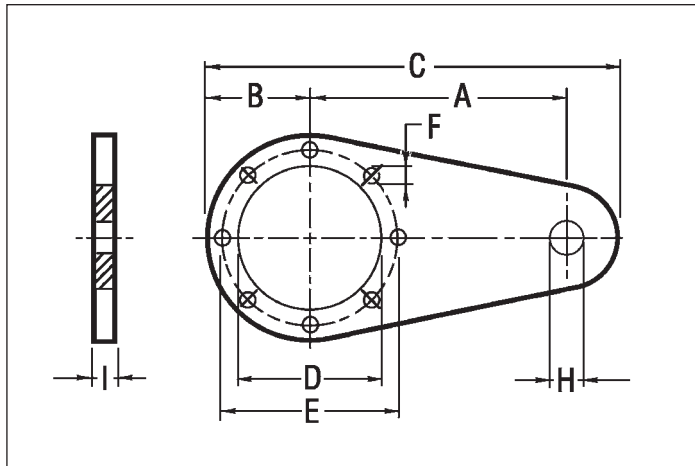
2.10 Accessories
Torque arm

2.10 Zubehör
Drehmomentstütze

Con boccola VKL
With VKL bushing
Mit VKL-Buchse



Standard



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