

# Bevel Gearbox - R

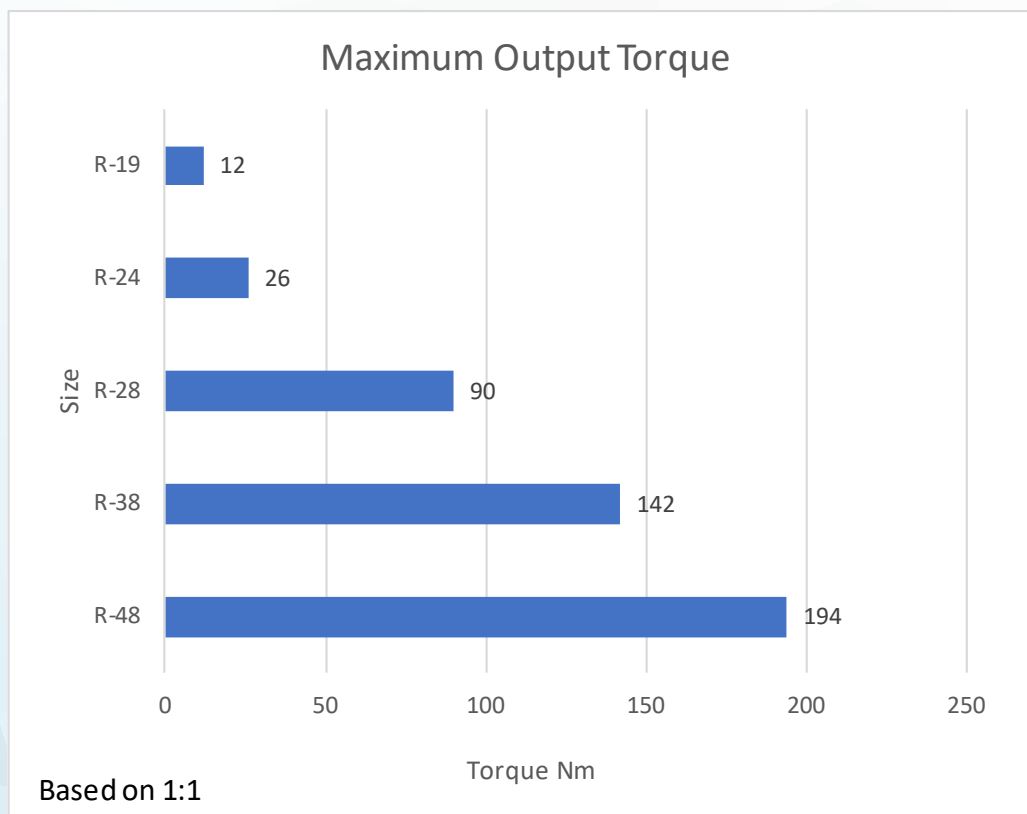
## R BEVEL GEARBOX

Built in five sizes with three types of output shaft : hollow, projecting or double-extended.

Moreover, an additional output shaft can be installed opposite the input shaft.

Gear unit body in engineering cast iron, EN GJL 200 UNI EN 1561 ribbed internally and externally to guarantee rigidity and machined on all surfaces for easy positioning. The single lubrication chamber guarantees improved heat dissipation and better lubrication of all the internal components.

The mechanism of these gearboxes consists of two GLEASON spiral bevel gears with precision ground profile,.



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R	n <sub>1</sub> = 1400			RC - RF			RA	
	in	ir	n <sub>2</sub> rpm	T <sub>2</sub> Nm	P1 kW	FS'	T <sub>2M</sub> Nm	P kW
19	1	1	1400	12	1.8	3	35	5.5
	2.5	2.56	546	30	1.8	1.6	50	3
	5	4.90	285	48	1.5	1	48	1.5
	10	9.85	142	48	0.75	1	48	0.75
24	1	1	1400	26	4	2.7	73	11
	2.5	2.56	546	68	4	1.4	93	5.5
	5	4.90	285	97	3	1	97	3
	10	9.85	142	98	1.5	1	98	1.5
28	1	1	1400	61	9.2	2.4	146	22
	2.5	2.56	546	156	9.2	1.2	187	11
	5	4.90	285	179	5.5	1	179	5.5
	10	9.85	142	196	3	1	196	3

R	n <sub>1</sub> = 1400			RC - RF			RA	
	in	ir	n <sub>2</sub> rpm	T <sub>2</sub> Nm	P1 kW	FS'	T <sub>2M</sub> Nm	P kW
38	1	1	1400	146	22	2	291	45
	2.5	2.56	546	373	22	1	365	22
	5	4.90	285	357	11	1	350	11
	10	9.85	142	359	5.5	1	350	5.5
48	1	1	1400	199	30	3	506	90
	2.5	2.56	546	509	30	1.5	763	45
	5	4.90	285	715	22	1	715	22
	10	9.85	142	717	11	1	717	11

Verifica termica necessaria / Thermal rating needed /  
Thermische - Prüfung erforderlich

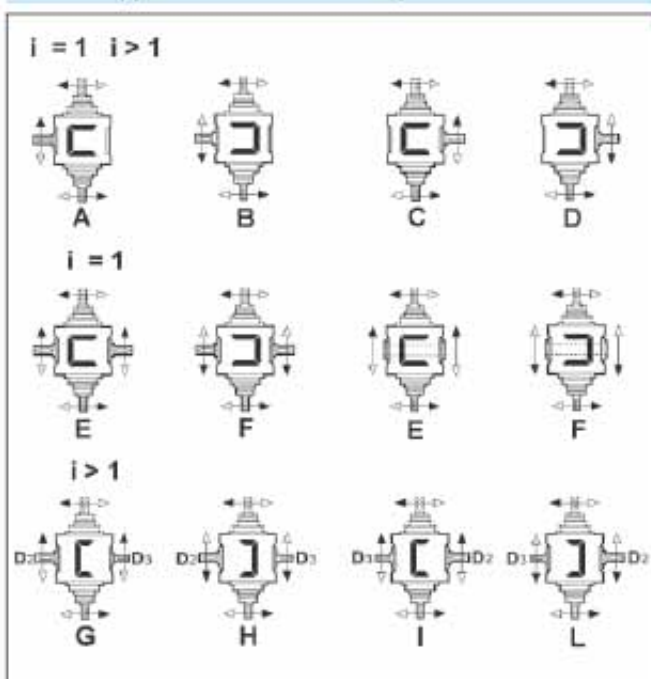
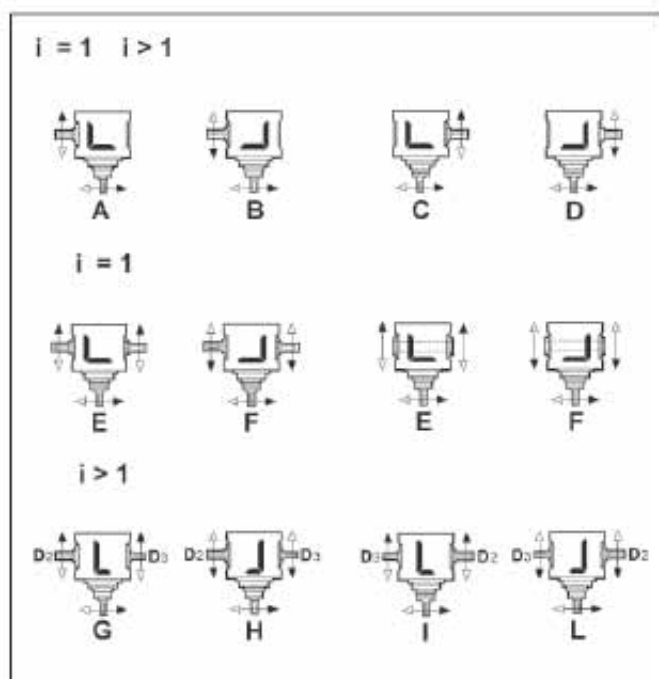
R	i	IEC									
		63	71	80	90	100	112	132	160	180	200
19	1	RF		RC - RF							
	2.5-5-10	RC - RF									
24	1		RF		RC - RF						
	2.5-5-10	RC - RF									
28	1			RF		RC - RF					
	2.5-5-10	RC - RF									
38	1				RF			RC - RF			
	2.5-5-10				RC - RF						
48	1					RC - RF					
	2.5-5-10					RC - RF					

6.8 Senso di rotazione alberi

6.8 Shaft Rotation Direction

6.8 Wellendrehrichtungen

s.e. =  
Entrata supplementare / Additional input / Zusatzantrieb



# Bevel Gearbox - R

		RA...- RC...- RF...				
		19	24	28	38	48
A	i = 1	112	142	180	224	280
a		80	100	130	160	190
B		128	146	175	204	230
b		110	125	145	175	200
C2		130	150	180	210	240
D2 <sub>h6</sub>		19	24	28	38	48
d2		M8	M8	M8	M10	M12
M2		21.5	27	31	41	51.5
N2		6	8	8	10	14
F		7	9	11	13	15
H	i > 1	56	71	90	112	140
L2		40	50	60	80	110
Z		7	9	10	13	15
D3 <sub>h6</sub>		19	24	28	38	48
d3		M8	M8	M8	M10	M12
L3		40	50	60	80	110
M3		21.5	27	31	41	51.5
N3		6	8	8	10	14
D4 <sub>H7</sub>		20	25	30	40	50
M4		22.8	28.3	33.3	43.3	53.8
N4		6	8	8	12	14
D3 <sub>h6</sub>	i > 1	14	19	24	28	38
d3		M8	M8	M8	M10	M10
L3		30	40	50	60	80
M3		16	21.5	27	31	41
N3		5	6	8	8	10

		RA				
		19	24	28	38	48
h	i = 1	101	120	147	170	207.5
D1 <sub>h6</sub>		19	24	28	38	48
d1		M8	M8	M8	M10	M12
M1		21.5	27	31	41	51.5
N1		6	8	8	10	14
h	i > 1	110	130	160	190	237.5
D1 <sub>h6</sub>		14	19	24	28	38
d1		M8	M8	M8	M8	M10
M1		16	21.5	27	31	41
N1		5	6	8	8	10
L1	i = 1	30	40	50	60	80
X	i > 1	90	110	130	150	175
kg		8.5	14	23	38	62
		RC...- RF...				
kg		11.5	19	33	55	82



		RC...							
		19				24			
IEC		63 B5	71 B5	80/90 B5	80 B14	71 B5	80 B5	90 B5	90* B14
Q		—	—	—	—	—	—	—	120
Y		140	160	200	120	160	200	200	146
P	i = 1	—	—	131	131	—	—	148	148
P	i > 1	113	120	140	140	138	158	158	158



		RC...											
		28			38				48				
IEC		80/90	100/112	132	80/90	100/112	132	160/180	100/112	132	160	180	200
Y		200	250	300	200	250	300	350	250	300	350	350	400
P	i = 1	—	181	203	—	—	216	246	220	270	270	270	270
P	i > 1	184	194	216	204	214	236	266	250 (i=2.5 - 5) 260 (i=10)	300 (i=2.5 - 5)		310 (i=10)	

\* Flange quadrata / Square flanges / Viereckige Flansche

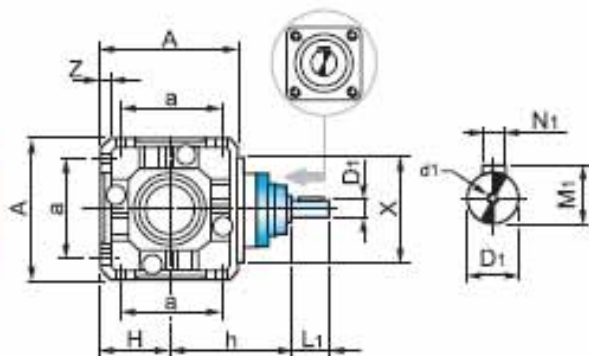


		RF...																	
		19			24			28			38				48				
IEC		63	71	80/90	71	80/90	100/112	80/90	100/112	132	80	90	100/112	132	160/180	100/112	132	160/180	200
Y		140	160	200	160	200	250	200	250	300	200	200	250	300	350	250	300	350	400
P	i = 1	158	165	186	194	215	225	252	262	283	—	285	295	316	346	354	373	405	405
P	i > 1	167	174	195	204	225	235	265	275	296	305	305	315	336	366	384	403	435	435

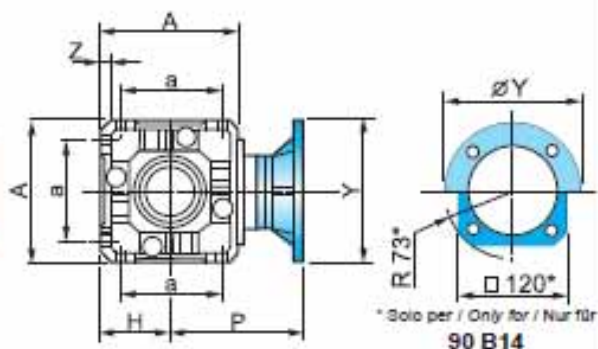


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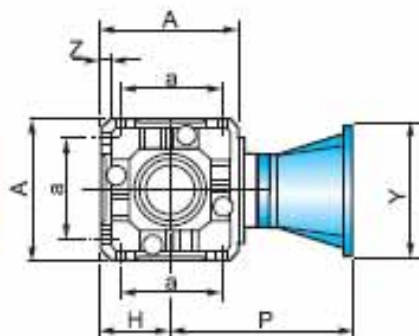
**RA**



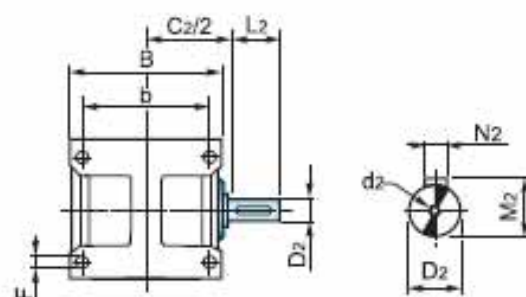
**RC**



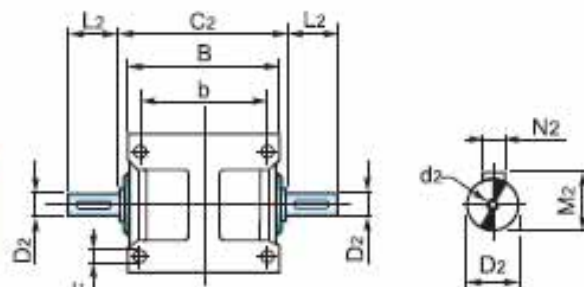
**RF**



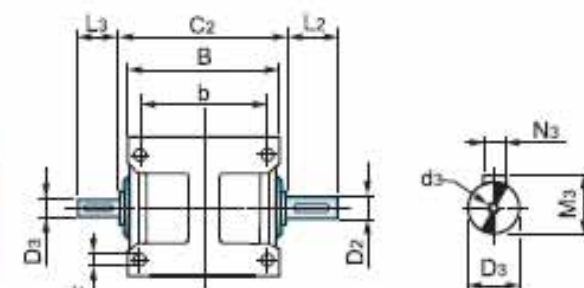
**S**



**B**  
 $i = 1$



**B**  
 $i > 1$



**C**  
 $i = 1$

