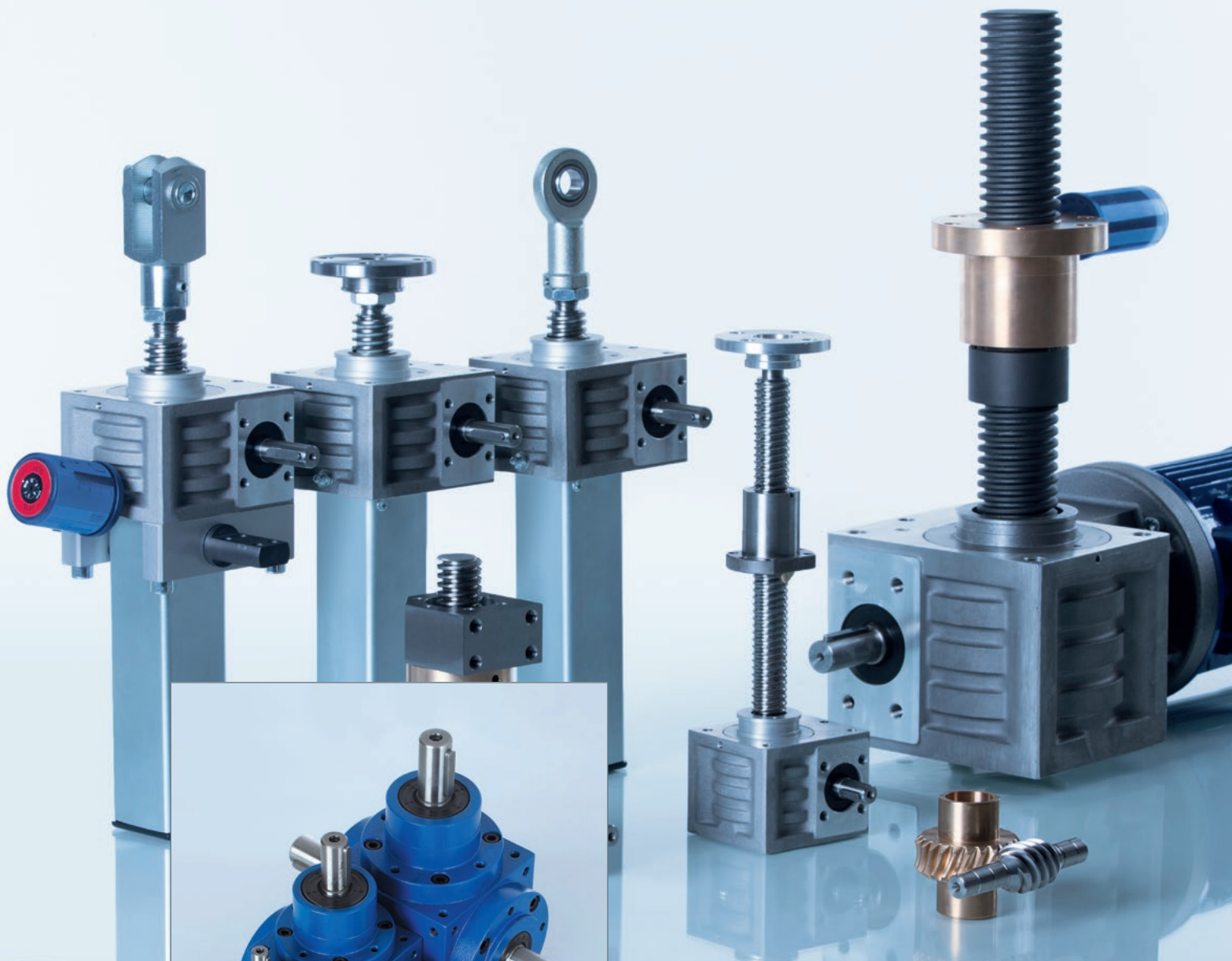




Bevel gearboxes RM
Summary – Drive components

4.6 Bevel gearboxes RM

Drive components

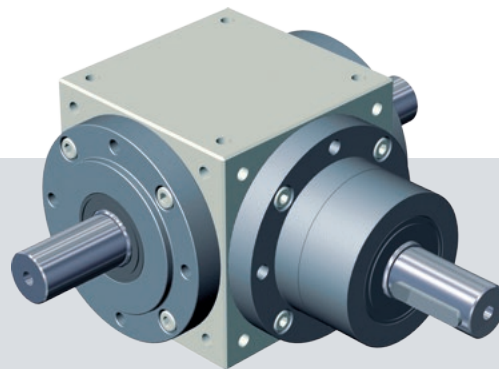
The RM gearboxes are made for higher demands, RM gearboxes have ratios up to 1:5 and transmit torques from 19 up to 430 Nm. Thanks to their consistent modular design, they allow a wide range of assembly and combination possibilities, for example in association with screw jacks of Nozag.

Quality features

- Quiet operation
- Maintenance-free, with minimum backlash
- High torques
- High operating period i.e. continuous operation
- High precision components
- Suited for high performance

Production characteristics

- GLEASON spiral toothed, hardened and lapped
- radial sealing generally with dust lip
- Lubrication: oil or low-viscosity grease
- Housing made of cast iron, low distortion and torsion proof
- Standard ratios 1:1 up to 1:5, others on demand
- Motor flange available for IEC-standard motors



	n1	i = 1 : 1		i = 1,5 : 1		i = 2 : 1		i = 3 : 1		i = 4 : 1		i = 5 : 1	
		P1 *	M2	P1 *	M2	P1*	M2	P1*	M2	P1 *	M2	P1 *	M2
RM12	2800	3.08	10.1			1.61	10.6	0.59	5.8				
	2000	2.30	10.6			1.19	10.9	0.46	6.3				
	1500	1.88	11.5			0.94	11.5	0.38	6.9				
	1000	1.36	12.5			0.68	12.5	0.27	7.5				
	800	1.17	13.4			0.59	13.4	0.23	8.1				
	600	0.94	14.4			0.47	14.4	0.19	8.6				
	400	0.67	15.4			0.34	15.4	0.13	8.9				
	100	0.18	16.8			0.09	16.7	0.03	9.4				
	50	0.10	18.2			0.05	18.2	0.02	9.8				
	10	0.02	19.2			0.01	19.2	0.01	10.1				
RM 19	2800	16.27	53.3	7.36	36.1	6.51	42.6	2.40	23.6	2.07	27.1	1.32	21.6
	2000	11.94	54.7	5.38	37.0	4.73	43.4	1.75	24.0	1.5	27.5	0.96	21.9
	1500	9.17	56.1	4.12	37.7	3.60	44.0	1.34	24.5	1.13	27.6	0.72	22.1
	1000	6.26	57.4	2.81	38.6	2.46	45.1	0.91	24.9	0.77	28.3	0.49	22.5
	800	5.07	58.1	2.27	39.0	1.99	45.7	0.73	25.1	0.62	28.5	0.39	22.6
	600	3.85	58.8	1.73	39.6	1.51	46.1	0.55	25.4	0.47	28.8	0.30	22.8
	400	2.62	60.0	1.16	40.0	1.02	46.7	0.37	25.8	0.32	29.0	0.20	22.9
	100	0.69	62.9	0.30	41.5	0.27	48.8	0.10	26.4	0.08	29.7	0.05	23.4
	50	0.35	63.7	0.15	42.0	0.13	49.3	0.05	26.6	0.04	29.9	0.03	23.6
	10	0.07	64.6	0.03	42.5	0.03	49.7	0.01	26.8	0.01	30.2	0.01	23.8
RM 24	2800	17.88	58.6	12.17	59.8	8.15	53.4	3.52	34.6	3.90	51.1	2.67	43.7
	2000	13.38	61.3	8.88	61.1	5.99	54.9	2.58	35.4	2.84	52.0	2.01	46.1
	1500	10.37	63.4	6.79	62.2	4.55	55.7	1.96	36.0	2.16	52.8	1.53	46.8
	1000	7.19	66.0	4.65	63.9	3.09	56.6	1.33	36.6	1.47	53.8	1.04	47.5
	800	5.86	67.2	3.75	64.5	2.50	57.2	1.08	37.2	1.18	54.1	0.84	48.0
	600	4.51	68.9	2.86	65.7	1.89	57.8	0.82	37.4	0.90	54.7	0.65	49.4
	400	3.08	70.6	1.94	66.7	1.28	58.6	0.55	38.0	0.60	55.3	0.44	49.9
	100	0.82	75.3	0.50	69.1	0.32	58.9	0.14	38.9	0.15	56.1	0.11	51.4
	50	0.42	77.0	0.25	70.0	0.16	59.1	0.07	39.0	0.08	57.0	0.06	51.8
	10	0.09	79.5	0.05	71.1	0.03	59.5	0.01	39.2	0.02	57.6	0.01	52.8

* If the bevel gearboxes are used only for one direction of rotation, the performance respectively the torque can be increased by 30%.

Gearbox range of performance

	n1	i = 1 : 1		i = 1,5 : 1		i = 2 : 1		i = 3 : 1		i = 4 : 1		i = 5 : 1	
		P1 *	M2	P1 *	M2	P1*	M2	P1*	M2	P1 *	M2	P1 *	M2
RM 32	2800	40.80	133.4	23.50	115.2	15.50	101.8	7.33	72.0	5.42	71.0	3.52	57.6
	2000	30.40	139.2	17.60	121.0	11.50	105.6	5.76	79.2	4.14	75.8	2.64	60.5
	1500	23.60	144.0	13.70	125.3	8.80	107.5	4.40	80.6	3.14	76.8	2.01	61.4
	1000	16.30	149.8	9.40	129.6	6.00	109.4	2.98	82.1	2.12	77.8	1.36	62.4
	800	13.30	152.6	7.80	133.9	4.90	111.4	2.43	83.5	1.72	78.7	1.11	63.4
	600	10.20	156.5	6.00	136.8	3.70	113.3	1.85	85.5	1.30	79.7	0.85	64.8
	400	7.00	160.3	4.10	141.1	2.5	115.2	1.26	86.4	0.88	80.6	0.57	65.8
	100	1.90	170.9	1.00	144.0	0.60	119.0	0.32	89.3	0.23	84.5	0.15	67.2
	50	0.90	174.7	0.50	146.9	0.30	122.9	0.16	90.7	0.12	86.4	0.07	68.2
	10	0.20	180.5	0.10	149.8	0.10	124.8	0.03	92.2	0.02	88.3	0.02	69.1
RM 38	2800	87.2	285.6	57.7	273.5	29.90	196	15.10	148.0	12.30	161.0	9.90	162.0
	2000	64.1	294.0	41.0	282.0	22.00	201	11.00	152.0	9.00	164.0	7.20	165.5
	1500	49.4	302.0	31.4	288.0	16.90	206	8.40	154.0	6.80	167.0	5.50	168.5
	1000	33.8	310.0	21.4	293.8	11.60	212	5.76	158.0	4.60	170.0	3.70	171.0
	800	27.6	316.5	17.4	300.0	9.40	215	4.66	160.0	3.70	171.0	3.00	173.0
	600	21.1	323.0	13.3	305.0	7.10	218	3.55	162.5	2.80	173.5	2.30	175.0
	400	14.5	331.0	9.0	311.0	4.80	222	2.40	165.0	1.90	176.5	1.50	176.5
	100	3.8	349.0	2.4	325.5	1.50	231	0.62	170.5	0.50	182.0	0.40	182.0
	50	1.9	355.5	1.2	332.5	0.60	234	0.31	172.0	0.25	183.5	0.20	184.0
	10	0.4	367.0	0.2	340.0	0.13	239	0.06	175.0	0.05	186.0	0.04	186.0
RM 42	2800	102.6	334.0	62.5	307.0	35.20	230	17.80	175.0	13.70	180.0	9.90	162.0
	2000	75.4	346.0	46.0	317.0	25.80	237	13.00	178.0	10.00	183.0	7.20	166.0
	1500	58.1	355.0	35.3	324.0	19.80	243	9.90	181.0	7.60	187.0	5.50	178.5
	1000	39.8	365.0	24.3	334.0	13.60	249	6.80	186.0	5.20	191.0	3.70	171.0
	800	32.5	372.0	19.7	339.0	11.00	253	5.50	188.0	4.20	193.0	3.00	173.0
	600	24.9	380.0	15.0	344.0	8.40	257	4.20	191.0	3.20	195.0	2.30	175.0
	400	17.0	390.0	10.3	353.0	5.70	261	2.80	194.0	2.20	198.0	1.50	177.0
	100	4.5	411.0	2.7	370.0	1.50	272	0.70	201.0	0.60	204.0	0.40	182.0
	50	2.3	420.0	1.4	376.0	0.70	278	0.37	203.0	0.25	206.0	0.20	184.0
	10	0.5	432.0	0.3	383.0	0.15	281	0.07	206.0	0.05	209.0	0.04	186.0
RM 55	1500	125.0	763.0	88.7	813.0	44.40	543	20.20	370.0	19.50	478.0	15.00	458.0
	1000	86.0	787.0	60.7	835.0	30.60	561	13.90	382.0	13.30	489.0	10.20	467.0
	800	70.0	800.0	49.4	850.0	23.80	568	11.30	386.0	10.80	495.0	8.20	472.0
	600	53.0	810.0	37.7	864.0	18.80	576	8.50	391.0	8.20	501.0	6.30	478.0
	400	36.6	840.0	26.0	893.0	12.90	591	5.80	398.0	5.60	509.0	4.20	484.0
	100	9.7	896.0	6.9	950.0	3.40	618	41.50	416.0	1.40	529.0	1.10	503.0
	50	5.0	912.0	3.5	972.0	1.70	632	0.80	421.0	0.70	534.0	0.60	508.0
	10	1.0	941.0	0.7	1000.0	0.35	643	0.16	428.0	0.15	543.0	0.10	515.0

* If the bevel gearboxes are used only for one direction of rotation, the performance respectively the torque can be increased by 30%.

Basics

Life: 20000 h

Impact-free operation (F = 1)

Operating time 8 h/day

Direction of rotation: clockwise an anticlockwise

Ambient temperature ca. 20 °C

Abbreviations

n1 = drive rpm (min⁻¹)

n2 = drive rpm (min⁻¹) (smaller rpm)

P1 = drive power (kW)

M2 = driving torque (Nm)

i = ratio (n¹/n²)

For different operating characteristics, please consult the correction factor on page 107

Note: For continuous operation see page 108

Correction factors

for different operating characteristics

Operation time (correction factor H)

hrs/day	24	18	12	8	4	2	1
H	1.25	1.18	1.1	1.0	0.9	0.8	0.7

Required Life span (correction factor L)

h	60000	40000	20000	15000	10000	5000	3000
L	1.3	1.15	1	0.95	0.9	0.85	0.8

Load factor (correction factor F)

Load	Start ups / hour					
	non uniform	1	5	20	60	120
uniform	1	1	1.4	1.8	2.2	2.7
light shocks	1	1.4	1.8	2.2	2.7	3.2
large shocks	1	1.4	1.8	2.2	2.7	3.2

The corrected torque (Mk) can be determined when the appropriate factors are defined.

$$M_k = M \times (H \times L \times F)$$

at which:

M = theoretically calculated, respectively required torque

Mk = corrected torque basis for the choice of gearbox in the table

Correction factors

Temperature influence (for continuous operation)

In the following table the allowed input power (P_t) is apparent, in which continuous operation (ED 100%) and an ambient temperature of 20°C is not exceeded. A breather is recommended!

	RM 12	RM 19	RM 24	RM 32	RM 38	RM 42	RM 55
Input power P_t (kW)	1.5	3.0	6.0	10.0	15.0	20.0	35.0
n_1	2800	2800	2800	2800	2000	2000	1500

For different ambient temperatures and/or operating times, the following correction factors can be used:

Ambient temperature (correction factor T)

Temperature (°C)	- 10	0	10	20	30	40	50
T	1.3	1.25	1.15	1	0.9	0.8	0.7

Operation time (correction factor ED)

%-operating period	100	80	60	40	20
ED	1	1.2	1.4	1.6	1.8

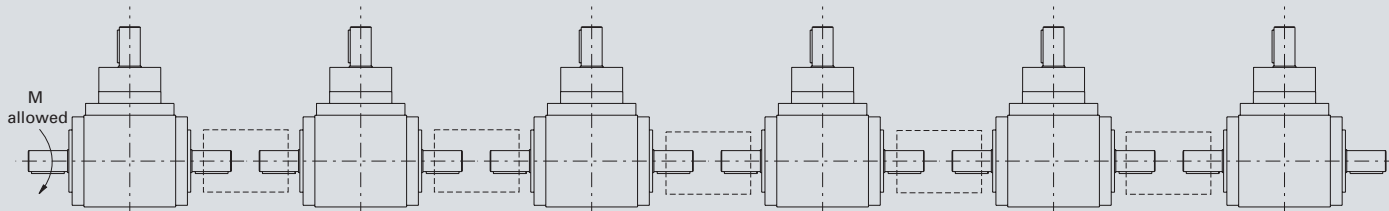
The allowed resulting input power (P_r) can now be calculated as follows:

$$P_r = P_t \times (T \times ED)$$

In case the total actual input power is higher than P_r , the gearbox has to be provided with an external cooling system. In this case, please contact Nozag engineering for advice.

Table values – Gear choice

Bevel gearboxes mounted in series



In this case, the trough torque is to be observed.

	RM 19	RM 24	RM 32	RM 38	RM 42	RM 55
M allowed (Nm)	60	120	300	500	700	1600

Note:

The allowed torque is only for the shaft and is not applicable to the bevel gearing (Toothing). Also the admissible keyed joint contact pressure (Coupling / Shaft) has to be checked.

For higher torque, bevel gearboxes with larger shaft diameter can be used
(Version AP see page 116).

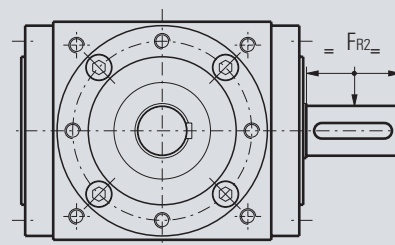
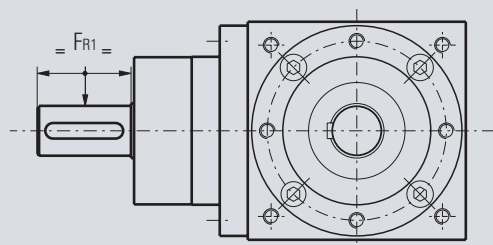
	RM 19 AP	RM 24 AP	RM 32 AP	RM 38 AP	RM 42 AP	RM 55 AP
M allowed (Nm)	120	300	500	700	1000	3000

Gearbox weight

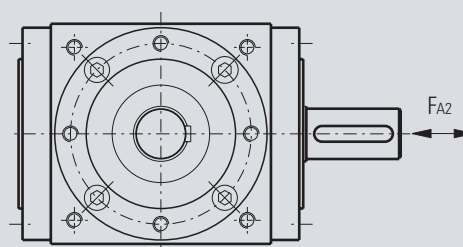
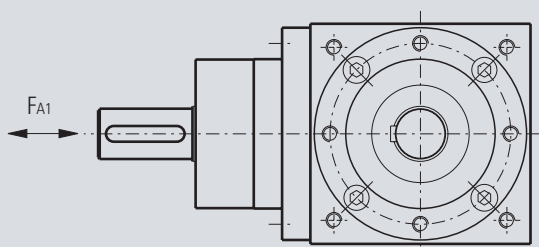
	RM 12	RM 19	RM 24	RM 32	RM 38	RM 42	RM 55
Weight (kg)	2.5	6	12	22	37	57	87

Table values – Gear choice

Permitted shaft loads



Force	Ratio	RM 12	RM 19	RM 24	RM 32	RM 38	RM 42	RM 55
FR₁ (N)	1 : 1 2 : 1 3 : 1	550	850	1400	2000	4000	6000	10000
	4 : 1 5 : 1	—	600	850	1400	2000	4000	6000
FR₂ (N)	All ratios	900	1500	2200	3500	7000	10000	15000

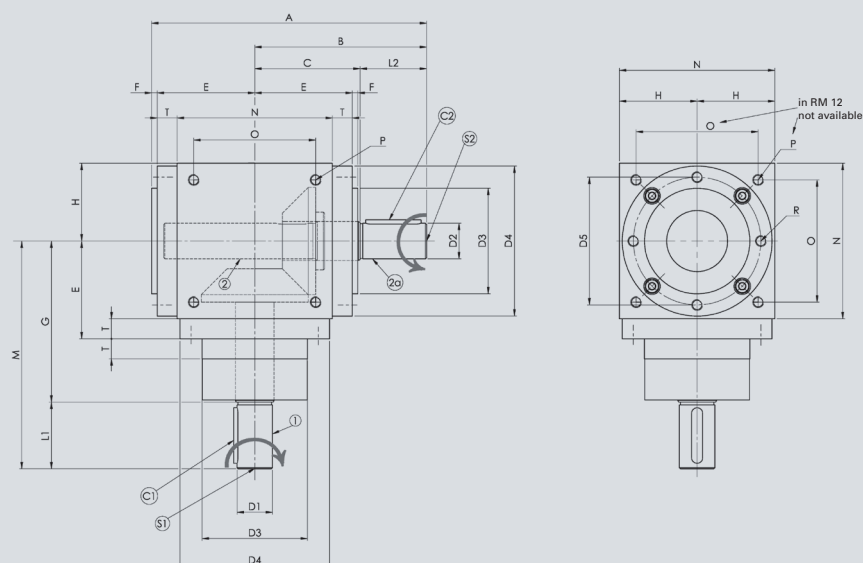
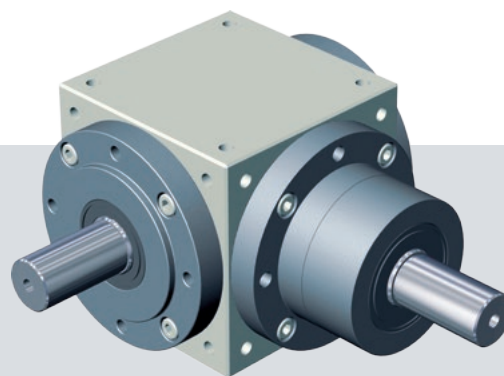


Force	Ratio	RM 12	RM 19	RM 24	RM 32	RM 38	RM 42	RM 55
FA₁ (N)	1 : 1 2 : 1 3 : 1	300	450	700	1100	1700	2700	5000
	4 : 1 5 : 1	—	400	450	700	1100	1700	2700
FA₂ (N)	All ratios	500	700	1300	1700	3400	4800	6800

Gearboxes with hollow shaft (Type H) and larger pass through shafts (Version AP see page 116) on demand!

RM, shaft on one side

Entry sense of rotation contrary to output sense of rotation



Ordering example

Type
Size
Ratio $i = 1:1$

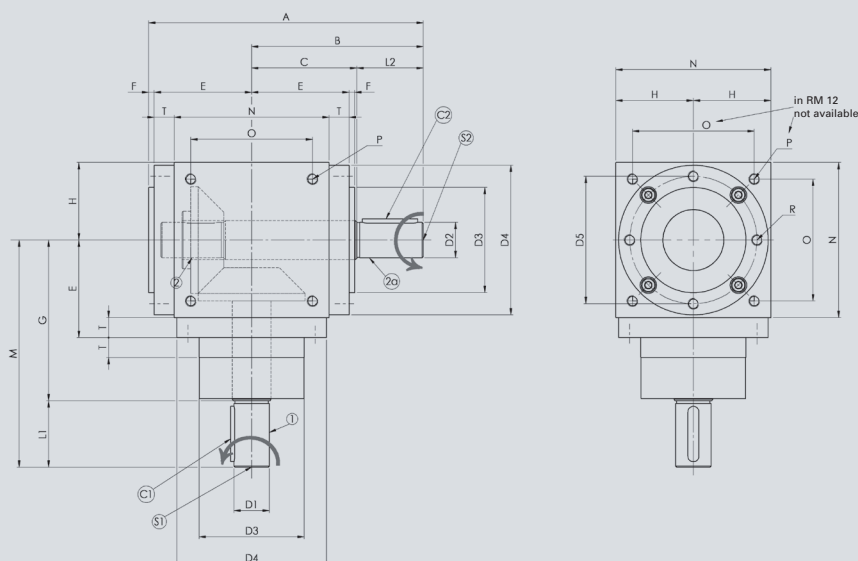
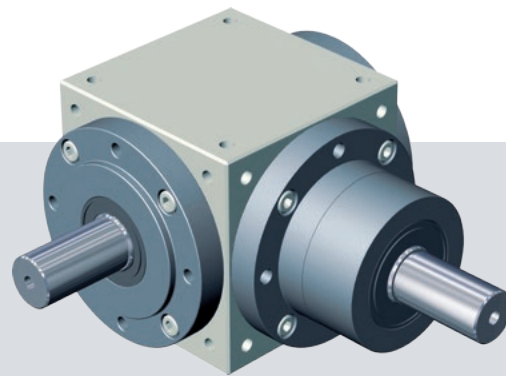
RM 24 – 1

	:1	A	B	C	D1 j6	D2 j6	D3 h7	D4 h7	D5	E	F	G	H	L1	L2
RM 12	1, 2, 3	116	72	46	12	12	44	65	54	42	2	74	32,5	26	26
RM 19	1, 2, 3, 4, 5	168	105	65	19 14	19	60	86	72	59	4	100	45,0	40 30	40
RM 24	1, 2, 3, 4, 5	208	130	80	24 19	24	70	105	88	73	5	115	55,0	50 40	50
RM 32	1, 2, 3, 4, 5	248	155	95	32 24	32	95	135	115	88	5	145	70,0	60 50	60
RM 38	1, 2, 3, 4, 5	288	180	110	38 28	38	120	165	145	103	5	170	85,0	70 60	70
RM 42	1, 2, 3, 4, 5	328	205	125	42 32	42	135	190	165	118	5	195	100	80 60	80
RM 55	1, 2, 3, 4, 5	408	260	150	55 42	55	170	230	205	143	5	245	120	110 80	110

	:1	M	N	O	P	R	S1	S2	C1	C2	T
RM 12	1, 2, 3	100	65	45	M 6	M 6	M4 x 8	M 4 x 8	20 x 4 x 4	20 x 4 x 4	9,5
RM 19	1, 2, 3, 4, 5	140 130	90	70	M 6	M 6	M 6 x 12 M 5 x 10	M 6 x 12	35 x 6 x 6 25 x 5 x 5	35 x 6 x 6 35 x 6 x 6	14
RM 24	1, 2, 3, 4, 5	165 155	110	88	M 8	M 8	M 8 x 16 M 6 x 12	M 8 x 16	40 x 8 x 7 35 x 6 x 6	40 x 8 x 7 40 x 8 x 7	18
RM 32	1, 2, 3, 4, 5	205 195	140	110	M 10	M 10	M 10 x 20 M 8 x 16	M 10 x 20	50 x 10 x 8 40 x 8 x 7	50 x 10 x 8 50 x 10 x 8	18
RM 38	1, 2, 3, 4, 5	240 230	170	136	M 12	M 12	M 12 x 24 M 10 x 20	M 12 x 24	60 x 10 x 8 50 x 8 x 7	60 x 10 x 8 60 x 10 x 8	18
RM 42	1, 2, 3, 4, 5	275 255	200	155	M 12	M 12	M 12 x 24 M 10 x 20	M 12 x 24	70 x 12 x 8 50 x 10 x 8	70 x 12 x 8 70 x 12 x 8	18
RM 55	1, 2, 3, 4, 5	355 325	240	190	M 14	M 14	M 14 x 28 M 12 x 24	M 14 x 28	100 x 16 x 10 70 x 12 x 8	100 x 16 x 10 100 x 16 x 10	23

RM, shaft on one side

Entry sense of rotation same as output sense of rotation



Ordering example

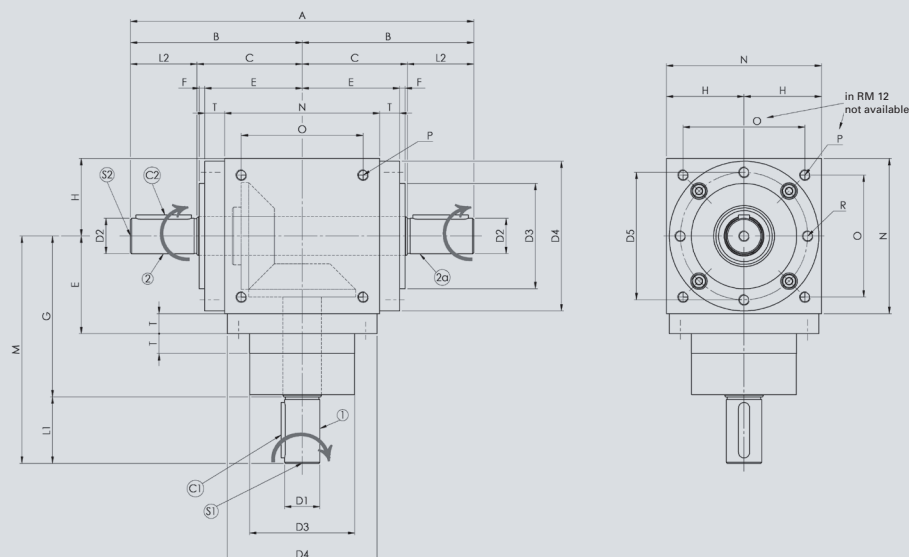
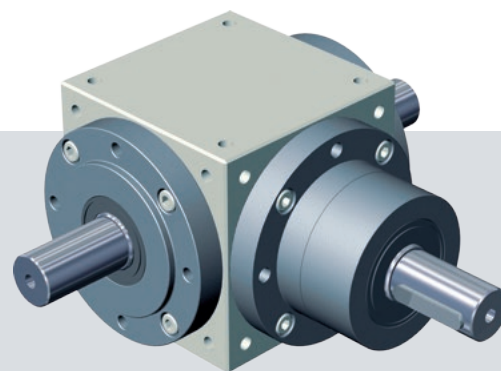
Type
Size
Ratio $i = 1:1$
Direction of rotation

RM 19 - 1 R

	:1	A	B	C	D1 j6	D2 j6	D3 h7	D4 h7	D5	E	F	G	H	L1	L2
RM 12	1, 2, 3	116	72	46	12	12	44	65	54	42	2	74	32,5	26	26
RM 19	1, 2, 3,	168	105	65	19	19	60	86	72	59	4	100	45,0	40	40
	4, 5				14									30	
RM 24	1, 2, 3,	208	130	80	24	24	70	105	88	73	5	115	55,0	50	50
	4, 5				19									40	
RM 32	1, 2, 3,	248	155	95	32	32	95	135	115	88	5	145	70,0	60	60
	4, 5				24									50	
RM 38	1, 2, 3,	288	180	110	38	38	120	165	145	103	5	170	85,0	70	70
	4, 5				28									60	
RM 42	1, 2, 3,	328	205	125	42	42	135	190	165	118	5	195	100	80	80
	4, 5				32									60	
RM 55	1, 2, 3,	408	260	150	55	55	170	230	205	143	5	245	120	110	110
	4, 5				42									80	

	:1	M	N	O	P	R	S1	S2	C1	C2	T	G	H	L1	L2
RM 12	1, 2, 3	100	65	45	M 6	M 6	M 4 x 8	M 4 x 8	20 x 4 x 4	20 x 4 x 4	9,5	74	32,5	26	26
RM 19	1, 2, 3,	140	90	70	M 6	M 6	M 6 x 12	M 6 x 12	35 x 6 x 6	35 x 6 x 6	14	100	45,0	40	40
	4, 5	130					M 5 x 10		25 x 5 x 5	35 x 6 x 6				30	
RM 24	1, 2, 3,	165	110	88	M 8	M 8	M 8 x 16	M 8 x 16	40 x 8 x 7	40 x 8 x 7	18	115	55,0	50	50
	4, 5	155					M 6 x 12		35 x 6 x 6					40	
RM 32	1, 2, 3,	205	140	110	M 10	M 10	M 10 x 20	M 10 x 20	50 x 10 x 8	50 x 10 x 8	18	145	70,0	60	60
	4, 5	195					M 8 x 16		40 x 8 x 7					50	
RM 38	1, 2, 3,	240	170	136	M 12	M 12	M 12 x 24	M 12 x 24	60 x 10 x 8	60 x 10 x 8	18	170	85,0	70	70
	4, 5	230					M 10 x 20		50 x 8 x 7	60 x 10 x 8				60	
RM 42	1, 2, 3,	275	200	155	M 12	M 12	M 12 x 24	M 12 x 24	70 x 12 x 8	70 x 12 x 8	18	195	100	80	80
	4, 5	255					M 10 x 20		50 x 10 x 8					60	
RM 55	1, 2, 3,	355	240	190	M 14	M 14	M 14 x 28	M 14 x 28	100 x 16 x 10	100 x 16 x 10	23	245	120	110	110
	4, 5	325					M 12 x 24		70 x 12 x 8					80	

RM, through shaft



Ordering example

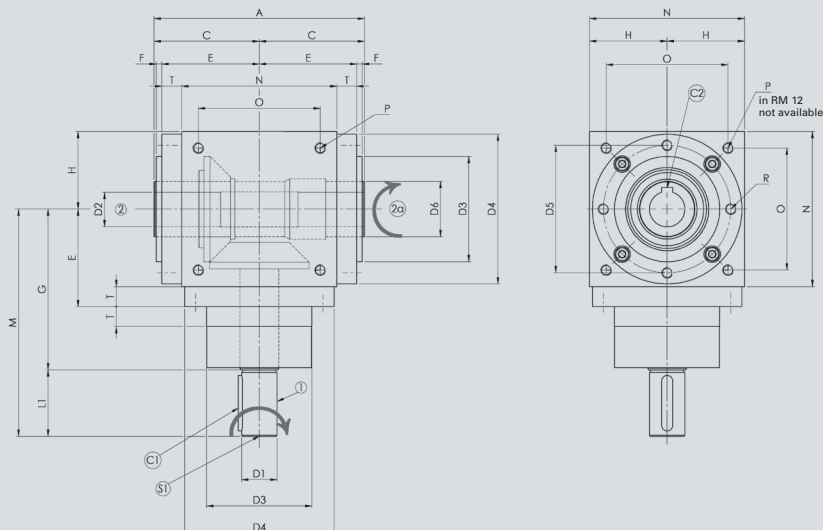
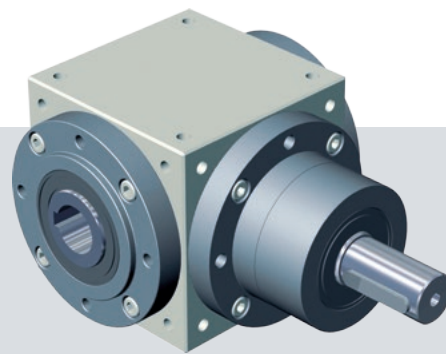
Type
Size
Ratio $i = 2:1$
through shaft

RM 12 – 2 D

	:1	A	B	C	D1 j6	D2 J6	D3 h7	D4 h7	D5	E	F	G	H	L1	L2
RM 12	1, 2, 3	144	72	46	12	12	44	65	54	42	2	74	32,5	26	26
RM 19	1, 2, 3, 4, 5	210	105	65	19 14	19	60	86	72	59	4	100	45,0	40 30	40
RM 24	1, 2, 3, 4, 5	260	130	80	24 19	24	70	105	88	73	5	115	55,0	50 40	50
RM 32	1, 2, 3, 4, 5	310	155	95	32 24	32	95	135	115	88	5	145	70,0	60 50	60
RM 38	1, 2, 3, 4, 5	360	180	110	38 28	38	120	165	145	103	5	170	85,0	70 60	70
RM 42	1, 2, 3, 4, 5	410	205	125	42 32	42	135	190	165	118	5	195	100	80 60	80
RM 55	1, 2, 3, 4, 5	520	260	150	55 42	55	170	230	205	143	5	245	120	110 80	110

	:1	M	N	O	P	R	S1	S2	C1	C2	T	G	H	L1	L2
RM 12	1, 2, 3	100	65	45	M 6	M 6	M 4 x 8	M 4 x 8	20 x 4 x 4	20 x 4 x 4	9,5	74	32,5	26	26
RM 19	1, 2, 3, 4, 5	140 130	90	70	M 6	M 6	M 6 x 12 M 5 x 10	M 6 x 12	35 x 6 x 6 25 x 5 x 5	35 x 6 x 6	14	100	45,0	40 30	40
RM 24	1, 2, 3, 4, 5	165 155	110	88	M 8	M 8	M 8 x 16 M 6 x 12	M 8 x 16	40 x 8 x 7 35 x 6 x 6	40 x 8 x 7	18	115	55,0	50 40	50
RM 32	1, 2, 3, 4, 5	205 195	140	110	M 10	M 10	M 10 x 20 M 8 x 16	M 10 x 20	50 x 10 x 8 40 x 8 x 7	50 x 10 x 8	18	145	70,0	60 50	60
RM 38	1, 2, 3, 4, 5	240 230	170	136	M 12	M 12	M 12 x 24 M 10 x 20	M 12 x 24	60 x 10 x 8 50 x 8 x 7	60 x 10 x 8	18	170	85,0	70 60	70
RM 42	1, 2, 3, 4, 5	275 255	200	155	M 12	M 12	M 12 x 24 M 10 x 20	M 12 x 24	70 x 12 x 8 50 x 10 x 8	70 x 12 x 8	18	195	100	80 60	80
RM 55	1, 2, 3, 4, 5	355 325	240	190	M 14	M 14	M 14 x 28 M 12 x 24	M 14 x 28	100 x 16 x 10 70 x 12 x 8	100 x 16 x 10	23	245	120	110 80	110

RM, hollow shaft



Ordering example

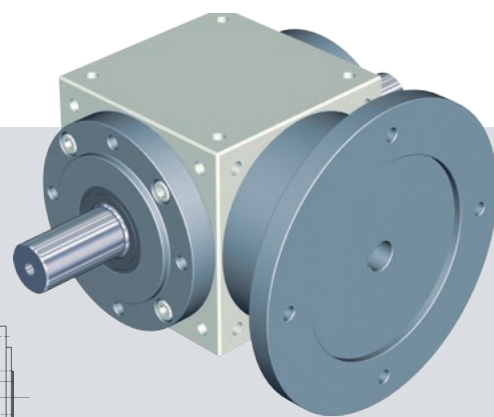
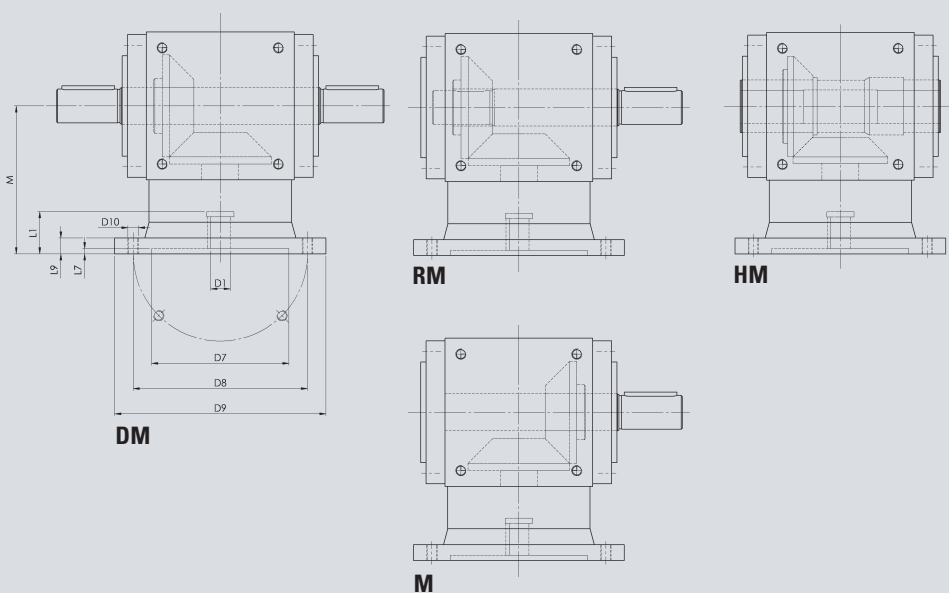
Type
Size
Ratio $i = 2:1$
Hollow shaft

RM 19 - 2 H

	:1	A	C	D1 j6	D2 j6	D3 h7	D4 h7	D5	D6	E	G	H	L1	L1	L2
RM 12	1	92	46	12	12	44	65	54	-	42	74	32,5	26	26	26
RM 19	1, 2, 3, 4, 5	130	65	19 14	19	60	86	72	30	59	100	45,0	40 30	40 30	40
RM 24	1, 2, 3, 4, 5	160	80	24 19	24	70	105	88	35	73	115	55,0	50 40	50 40	50
RM 32	1, 2, 3, 4, 5	190	95	32 24	32	95	135	115	50	88	145	70,0	60 50	60 50	60
RM 38	1, 2, 3, 4, 5	220	110	38 28	38	120	165	145	60	103	170	85,0	70 60	70 60	70
RM 42	1, 2, 3, 4, 5	250	125	42 32	42	135	190	165	60	118	195	100	80 60	80 60	80
RM 55	1, 2, 3, 4, 5	300	150	55 42	55	170	230	205	75	143	245	120	110 80	110 80	110

	:1	M	N	O	P	R	S1	S2	C1	C2	T	G	H	L1	L2
RM 12	1, 2, 3	100	65	45	M 6	M 6	M 4 x 8	M 4 x 8	20 x 4 x 4	20 x 4 x 4	9,5	74	32,5	26	26
RM 19	1, 2, 3, 4, 5	140 130	90	70	M 6	M 6	M 6 x 12 M 5 x 10	M 6 x 12	35 x 6 x 6 25 x 5 x 5	35 x 6 x 6 35 x 6 x 6	14	100	45,0	40 30	40
RM 24	1, 2, 3, 4, 5	165 155	110	88	M 8	M 8	M 8 x 16 M 6 x 12	M 8 x 16	40 x 8 x 7 35 x 6 x 6	40 x 8 x 7	18	115	55,0	50 40	50
RM 32	1, 2, 3, 4, 5	205 195	140	110	M 10	M 10	M 10 x 20 M 8 x 16	M 10 x 20	50 x 10 x 8 40 x 8 x 7	50 x 10 x 8	18	145	70,0	60 50	60
RM 38	1, 2, 3, 4, 5	240 230	170	136	M 12	M 12	M 12 x 24 M 10 x 20	M 12 x 24	60 x 10 x 8 50 x 8 x 7	60 x 10 x 8 60 x 10 x 8	18	170	85,0	70 60	70
RM 42	1, 2, 3, 4, 5	275 255	200	155	M 12	M 12	M 12 x 24 M 10 x 20	M 12 x 24	70 x 12 x 8 50 x 10 x 8	70 x 12 x 8	18	195	100	80 60	80
RM 55	1, 2, 3, 4, 5	355 325	240	190	M 14	M 14	M 14 x 28 M 12 x 24	M 14 x 28	100 x 16 x 10 70 x 12 x 8	100 x 16 x 10	23	245	120	110 80	110

RM, motor flange

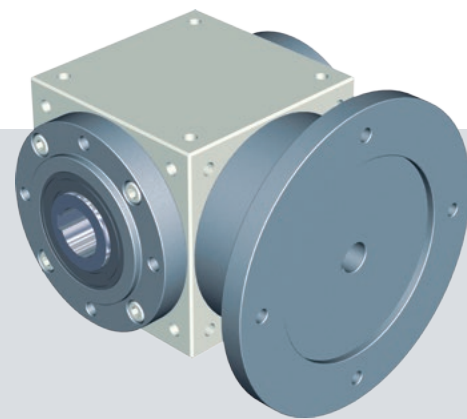


Ordering example

Type
Size
Ratio $i = 1:1$
Hollow shaft
Motor flange
IEC - Standard motor

RM 32 - 1 H M 090

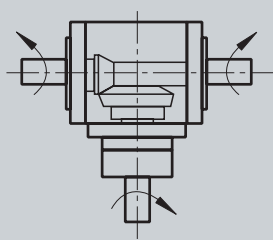
	:1	IEC-motor flange design B5	D1	D7	D8	D9	D10	L1	L7	L9	M
RM 12	1, 2, 3	63	11	95	115	140	Ø 9	26	4	10	90
	1, 2, 3	71-B14	14	70	85	105	Ø 9	35	4	10	90
RM 19	1, 2, 3,	63	11	95	115	140	M 8	23	4	12	90
	4, 5	71	14	110	130	160	M 8	30	4	12	90
RM 24	1, 2, 3	71	14	110	130	160	M 8	30	4	12	120
	1, 2, 3	80	19	130	165	200	M 10	40	5	12	120
	1, 2, 3	90	24	130	165	200	M 10	50	5	12	120
	4, 5	71	14	110	130	160	M 8	30	4	12	120
	4, 5	80	19	130	165	200	M 10	40	5	12	120
RM 32	1, 2, 3	80	19	130	165	200	M 10	40	5	15	140
	1, 2, 3	90	24	130	165	200	M 10	50	5	15	140
	1, 2, 3	112	28	180	215	250	M 12	60	5	15	140
	4, 5	80	19	130	165	200	M 10	40	5	15	140
	4, 5	90	24	130	165	200	M 10	50	5	15	140
RM 38	1, 2, 3	90	24	130	165	200	M 10	50	5	15	155
	1, 2, 3	112	28	180	215	250	M 12	60	5	15	155
	1, 2, 3	132	38	230	265	300	M 12	80	5	15	155
	4, 5	90	24	130	165	200	M 10	50	5	15	155
	4, 5	112	28	180	215	250	M 12	60	5	15	155
RM 42	1, 2	112	28	180	215	250	M 12	60	5	20	200
	1, 2	132	38	230	265	300	M 12	80	5	20	200
	1, 2	160	42	250	300	350	M 16	110	6	20	200
	3	112	28	180	215	250	M 12	60	5	20	200
	3	132	38	230	265	300	M 12	80	5	20	200
	4, 5	112	28	180	215	250	M 12	60	5	20	200
RM 55	1, 2, 3	112	28	180	215	250	M 12	60	5	20	220
	1, 2, 3	132	38	230	265	300	M 12	80	5	20	220
	1, 2, 3	160	42	250	300	350	M 16	110	6	20	220
	4, 5	112	28	180	215	250	M 12	60	5	20	220
	4, 5	132	38	230	265	300	M 12	80	5	20	220



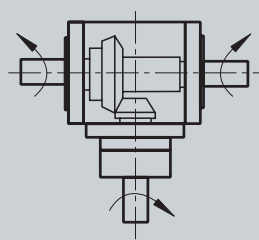
RM Special design

Gearbox setup (Geometry) modelled on the standard program

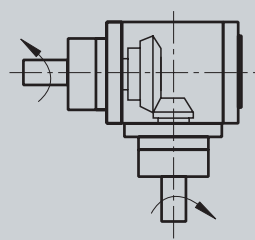
Torque: 10 ... 2077 Nm
 Power: max 125 kW
 Shaft diameter: 12 ... 55 mm (types IO, DO and IC: 32 ... 55 mm)
 All types available with mounting flange for IEC Standard motors.



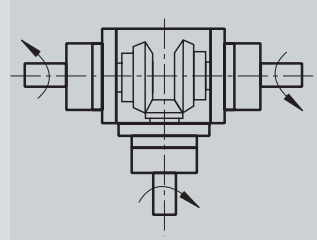
Design AX
1:1, 5, 1:2



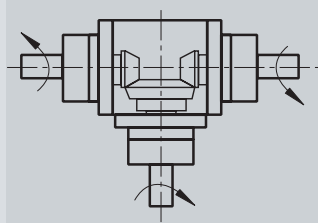
Design AP
1:1, 2:1, 3:1, 4:1, 5:1
larger shaft



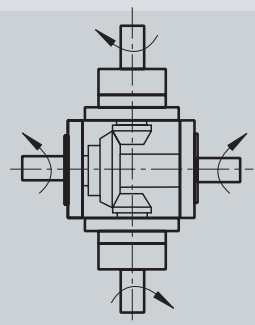
Design C
1:1, 2:1, 3:1, 4:1, 5:1



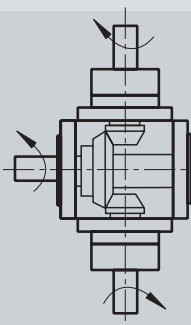
Design DR
1:1, 2:1, 3:1, 4:1, 5:1



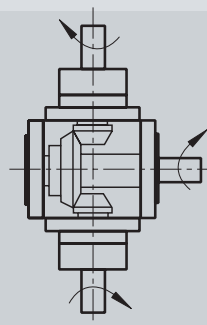
Design DX
1:1, 1:2, 1:3, 1:4, 1:5



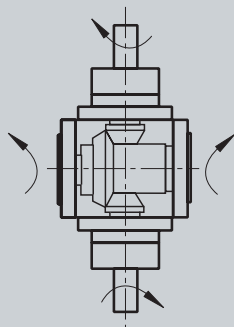
Design B
1:1, 2:1, 3:1, 4:1, 5:1



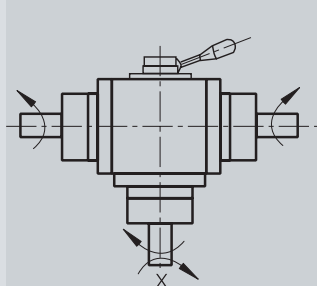
Design BD
1:1, 2:1, 3:1, 4:1, 5:1



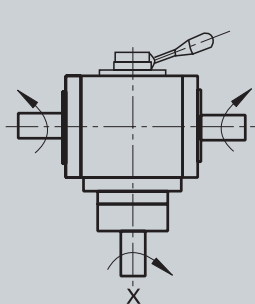
Design BS
1:1, 2:1, 3:1, 4:1, 5:1



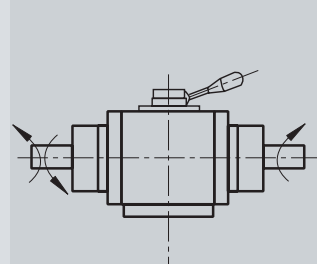
Design BH
1:1, 2:1, 3:1, 4:1, 5:1
Hollow shaft



Design IO
1:1, 2:1
Reversible, shaft «X»
changes sense of rotation



Design DO
1:1, 2:1, 3:1
Shiftable, shaft «X» can be
uncoupled



Design IC
1:1
Reversible, on request
with 90° – output shaft

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