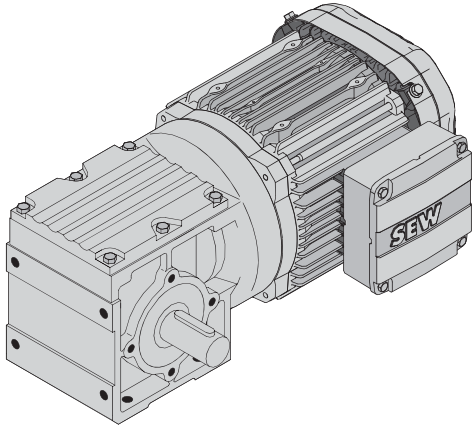
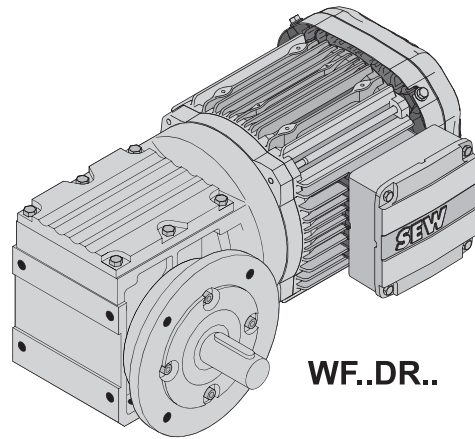


12 SPIROPLAN® gearmotors

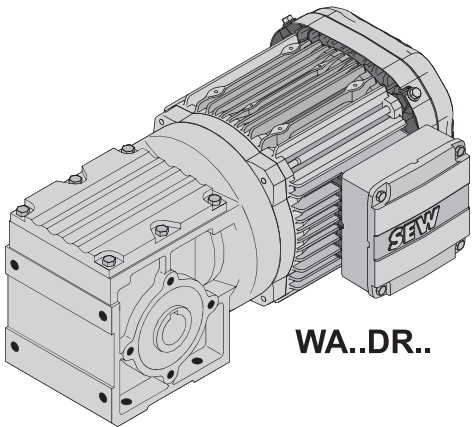
12.1 W..DRN.. designs



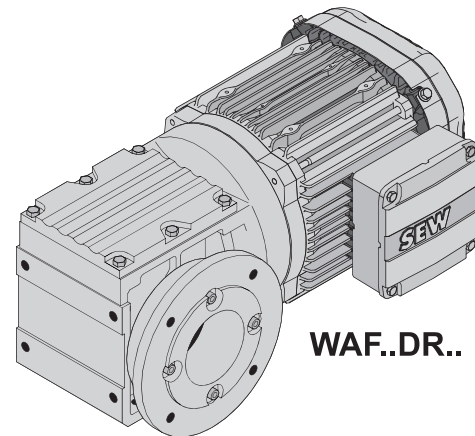
W..DR..



WF..DR..



WA..DR..

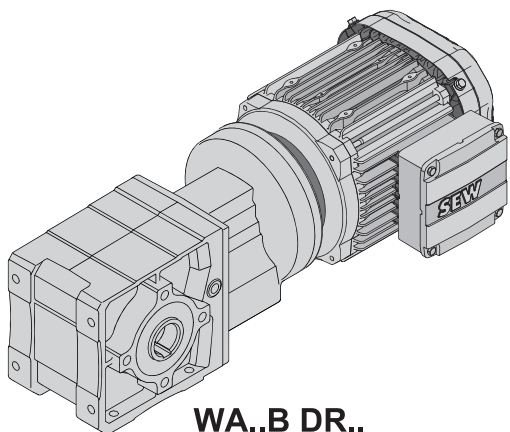


WAF..DR..

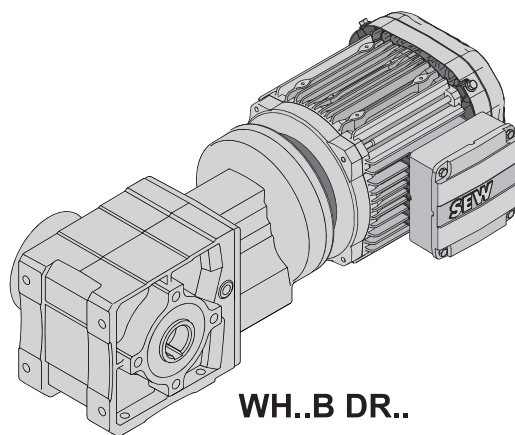
8665099019

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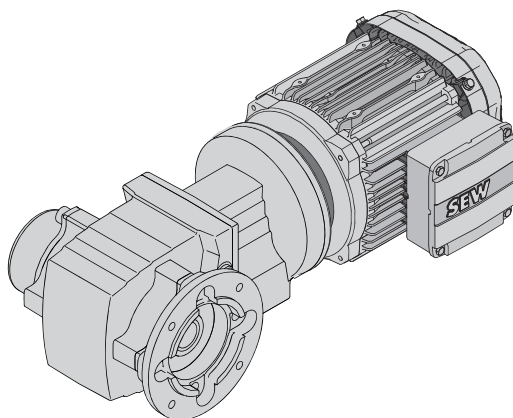
12



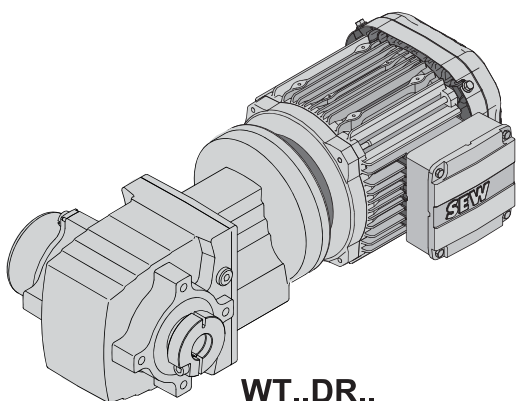
WA..B DR..



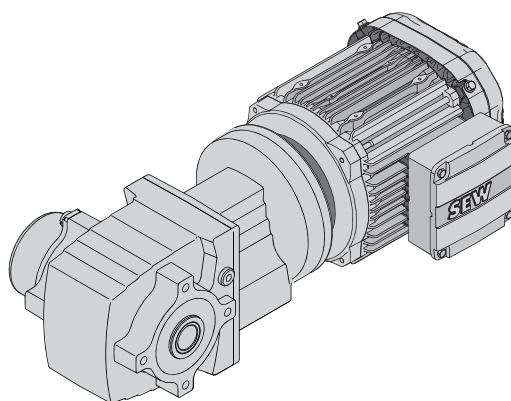
WH..B DR..



WHF..DR..



WT..DR..





WH..DR..


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12.2 Possible geometrical combinations of W..DRN..

W10, $n_e=1400 \text{ min}^{-1}$					25 Nm	
n_a min^{-1}	M_{amax} Nm	F_{Ra} N	$\varphi_{(R)}$ '	i	DR2S 56M	DRN 63MS 63M 71MS 71M
 1						
19	25	1800	-	75.00*		
23	25	1800	-	60.00*		
29	25	1800	-	48.00*		
36	25	1800	-	39.00*		
43	25	1800	-	32.50*		
51	24	1800	-	27.50*		
57	25	1800	-	24.50*		
72	25	1800	-	19.50*		
85	20	1800	-	16.50*		
98	22	1800	-	14.33		
137	13	1800	-	10.25*		
171	12	1800	-	8.20*		
213	12	1740	-	6.57		

W20, $n_e=1400 \text{ min}^{-1}$					40 Nm	
n_a min^{-1}	M_{amax} Nm	F_{Ra} N	$\varphi_{(R)}$ '	i	DRN 63MS 63M 71MS 71M	DRN 80MK
 1						
19	40	2200	-	75.00*		
23	40	2200	-	60.00*		
29	40	2200	-	48.00*		
36	40	2200	-	39.00*		
43	40	2200	-	32.50*		
51	40	2200	-	27.50*		
57	40	2200	-	24.50*		
72	35	2200	-	19.50*		
85	30	2200	-	16.50*		
98	30	2110	-	14.33		
137	25	1920	-	10.25*		
171	20	1830	-	8.20*		
213	20	1740	-	6.57		

W30, $n_e=1400 \text{ min}^{-1}$					70 Nm	
n_a min^{-1}	M_{amax} Nm	F_{Ra} N	$\varphi_{(R)}$ '	i	DRN 63MS 63M 71MS 71M	DRN 80M 80MK
 1						
19	70	3000	-	75.00*		
23	70	3000	-	60.00*		
29	70	3000	-	48.00*		
36	70	3000	-	39.00*		
43	70	3000	-	32.50*		

W30, $n_e=1400 \text{ min}^{-1}$					70 Nm	
n_a min^{-1}	M_{amax} Nm	F_{Ra} N	$\varphi_{(R)}$ '	i	DRN 63MS 63M 71MS 71M	DRN 80M 80MK
51	70	3000	-	27.50*		
57	70	3000	-	24.50*		
72	70	3000	-	19.50*		
86	60	3000	-	16.33		
98	60	3000	-	14.33		
137	50	2970	-	10.25*		
171	40	2810	-	8.20*		
213	40	2640	-	6.57		

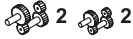
W37, $n_e=1400 \text{ min}^{-1}$					110 Nm		
n_a min^{-1}	M_{amax} Nm	F_{Ra} N	$\varphi_{(R)}$ '	i	DRN 63MS 63M 71MS 71M 80MK	DRN 80M 90S	DRN 90L




20	110	3320	-	69.05			
22	110	3320	-	63.33			
26	110	3320	-	53.92			
30	110	3320	-	46.49			
37	110	3320	-	37.88			
41	90	3610	-	34.52			
44	90	3610	-	31.67			
45	110	3320	-	31.33			
50	110	3320	-	27.78			
52	90	3610	-	26.96			
60	90	3610	-	23.25			
66	110	3320	-	21.33			
74	90	3610	-	18.94			
89	90	3430	-	15.67			
101	90	3250	-	13.89			
110	70	3800	-	12.70			
120	70	3680	-	11.65			
131	90	2880	-	10.67			
141	70	3460	-	9.92			
164	70	3270	-	8.55			
201	70	3020	-	6.97			
243	70	2810	-	5.77			
274	70	2680	-	5.11			
356	70	2410	-	3.93			
438	70	2220	-	3.20*			



W37R17, $n_e=1400 \text{ min}^{-1}$					110 Nm		
n_a min^{-1}	M_{amax} Nm	F_{Ra} N	$\varphi_{(R)}$ '	i	DR2S 56M	DRN 63MS 63M 71MS 71M 80MK	




W37R17, n _e =1400 min ⁻¹					110 Nm	
n _a min ⁻¹	M _{amax} Nm	F _{Ra} N	φ _(/R) '	i	DR2S	DRN
					56M	63MS 63M 71MS 71M 80MK
0.32	110	3320	-	4402		
0.37	110	3320	-	3795		
0.43	110	3320	-	3272		
0.48	110	3320	-	2899		
0.55	110	3320	-	2558		
0.59	110	3320	-	2382		
0.64	110	3320	-	2172		
0.72	110	3320	-	1952		
0.78	110	3320	-	1795		
0.88	110	3320	-	1593		
0.96	110	3320	-	1463		
1.1	110	3320	-	1298		
1.9	110	3320	-	754		
2.1	110	3320	-	669		
						
1.2	110	3320	-	1173		
1.3	110	3320	-	1063		
1.5	110	3320	-	956		
1.6	110	3320	-	854		
2.3	110	3320	-	600		
2.6	110	3320	-	532		
3.0	110	3320	-	472		
3.2	110	3320	-	434		
3.6	110	3320	-	384		
3.9	110	3320	-	359		
4.3	110	3320	-	327		
4.9	110	3320	-	286		
5.2	110	3320	-	267		
6.0	110	3320	-	233		
6.8	110	3320	-	207		
7.6	110	3320	-	184		
8.8	110	3320	-	160		
9.9	110	3320	-	141		
11	110	3320	-	125		
13	110	3320	-	109		
15	110	3320	-	96		
17	110	3320	-	82		
19	90	3610	-	73		
22	90	3610	-	63		
26	90	3610	-	53		
29	90	3610	-	48		

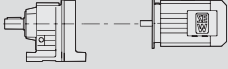

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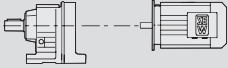

W47, $n_e=1400 \text{ min}^{-1}$					180 Nm				
n_a min^{-1}	M_{amax} Nm	F_{Ra} N	$\varphi_{(R)}$ °	i	DRN	DRN	DRN	DRN	DRN
					63MS 63M 71MS 71M 80MK	80M 90S	90L	100LS 100L	112M
 2									
19	180	6400	-	74.98					
20	180	6400	-	68.93					
24	180	6400	-	58.98					
27	180	6230	-	51.12					
29	180	6040	-	47.78					
34	180	5650	-	41.30					
40	180	5230	-	35.09					
44	160	5560	-	31.62					
45	180	4950	-	31.33					
51	160	5220	-	27.41					
52	180	4580	-	26.76					
55	160	5070	-	25.62					
56	180	4430	-	25.07					
63	160	4750	-	22.15					
74	160	4410	-	18.82					
83	160	4180	-	16.80					
98	160	3880	-	14.35					
104	160	3760	-	13.44					
114	110	4550	-	12.30					
124	160	3460	-	11.32					
131	110	4300	-	10.66					
141	110	4190	-	9.96					
163	110	3960	-	8.61					
191	110	3710	-	7.32					
214	110	3540	-	6.53					
251	110	3320	-	5.58					
268	110	3240	-	5.23					
318	110	3020	-	4.40					
360	110	2860	-	3.89					
428	110	2660	-	3.27					

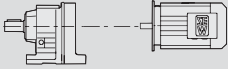

W47R17, $n_e=1400 \text{ min}^{-1}$					180 Nm				
n_a min^{-1}	M_{amax} Nm	F_{Ra} N	$\varphi_{(R)}$ °	i	DR2S	DRN	DRN	DRN	DRN
					56M	63MS 63M 71MS 71M 80MK	80M		
 2  3									
0.29	180	6400	-	4815					
0.34	180	6400	-	4173					
0.36	180	6400	-	3870					
0.39	180	6400	-	3598					
0.42	180	6400	-	3354					
0.44	180	6400	-	3171					
0.51	180	6400	-	2748					
0.58	180	6400	-	2425					
0.62	180	6400	-	2258					

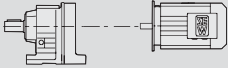

W47R17, n _e =1400 min ⁻¹					180 Nm		
n _a min ⁻¹	M _{amax} Nm	F _{Ra} N	φ _(/R) '	i	DR2S	DRN	DRN
					56M	63MS 63M 71MS 71M 80MK	80M
0.66	180	6400	-	2111			
0.71	180	6400	-	1959			
0.78	180	6400	-	1797			
0.88	180	6400	-	1595			
0.94	180	6400	-	1486			
0.97	180	6400	-	1448			
1.2	180	6400	-	1170			
1.9	180	6400	-	754			
							
1.1	180	6400	-	1290			
1.2	180	6400	-	1183			
1.3	180	6400	-	1042			
1.5	180	6400	-	956			
1.6	180	6400	-	869			
2.1	180	6400	-	661			
2.3	180	6400	-	596			
2.6	180	6400	-	536			
3.0	180	6400	-	473			
3.2	180	6400	-	434			
3.6	180	6400	-	386			
3.9	180	6400	-	359			
4.4	180	6400	-	318			
4.8	180	6400	-	291			
5.2	180	6400	-	270			
5.3	180	6400	-	265			
5.9	180	6400	-	237			
6.7	180	6400	-	210			
7.7	180	6400	-	183			
8.8	180	6400	-	159			
9.9	180	6400	-	141			
11	160	6650	-	124			
12	180	6400	-	120			
13	160	6650	-	105			
15	160	6650	-	95			
16	160	6650	-	85			
18	160	6650	-	77			
19	160	6650	-	72			

12.3 W..DRN.. selection tables in kW

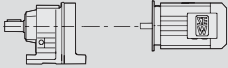

P_m = 0.09 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
18	19	75.00*	1800	1.30						
23	17	60.00*	1800	1.50						
29	15	48.00*	1800	1.65						
35	14	39.00*	1800	1.80						
42	13	32.50*	1800	2.0						
50	11	27.50*	1800	2.2	W	10	DR2S	56MR4	5.3	846
56	10	24.50*	1800	2.4	WF	10	DR2S	56MR4	5.5	847
71	8.9	19.50*	1800	2.8	WA	10	DR2S	56MR4	5.3	849
84	8.0	16.50*	1800	2.5	WAF	10	DR2S	56MR4	5.5	848
96	7.1	14.33	1800	3.1						
135	5.5	10.25*	1800	2.4						
168	4.5	8.20*	1800	2.7						
210	3.7	6.57	1800	3.2						

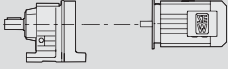

P_m = 0.12 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
3.9	135	359	-	0.80						
4.2	128	327	1780	0.85						
4.8	112	286	3280	1.00						
5.2	107	267	3370	1.05						
5.9	94	233	3560	1.15						
6.7	81	207	3720	1.35						
7.5	73	184	3800	1.50						
8.6	68	160	3850	1.60	W	37R17	DRN	63MS4	13	867
9.8	60	141	3910	1.80	WF	37R17	DRN	63MS4	13	867
11	54	125	3960	2.0	WA	37R17	DRN	63MS4	13	867
13	48	109	4000	2.3	WAF	37R17	DRN	63MS4	13	867
14	43	96	4030	2.5						
17	37	82	4060	3.0						
19	38	73	4050	2.3						
22	34	63	4070	2.6						
26	29	53	4090	3.1						
29	27	48	4100	3.3						
20	39	69.05	4050	2.9						
22	36	63.33	4060	3.1						
26	31	53.92	4080	3.5	W	37	DRN	63MS4	10	858
30	27	46.49	4100	4.0	WF	37	DRN	63MS4	10	859
36	23	37.88	4110	4.8	WA	37	DRN	63MS4	10	861
40	24	34.52	4110	3.8	WAF	37	DRN	63MS4	10	859
44	22	31.67	4110	4.1						
12	42	75.00*	3000	1.70	W	30	DRN	63M6	10.0	854
14	39	60.00*	3000	1.80	WF	30	DRN	63M6	10	855
27	26	32.50*	3000	2.7	WA	30	DRN	63M6	9.7	857
32	24	27.50*	3000	2.9	WAF	30	DRN	63M6	10.0	856
18	28	75.00*	3000	2.5						
23	26	60.00*	3000	2.7	W	30	DRN	63MS4	9.1	854
29	23	48.00*	3000	3.1	WF	30	DRN	63MS4	9.5	855
35	20	39.00*	3000	3.4	WA	30	DRN	63MS4	8.8	857
42	17	32.50*	3000	4.1	WAF	30	DRN	63MS4	9.2	856
12	37	75.00*	2200	1.10	W	20	DRN	63M6	7.5	850
14	33	60.00*	2200	1.25	WF	20	DRN	63M6	7.7	851
27	28	32.50*	2200	1.45	WA	20	DRN	63M6	7.2	853
32	23	27.50*	2200	1.75	WAF	20	DRN	63M6	7.2	852



P_m = 0.12 kW										
n_a min ⁻¹	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
18	25	75.00*	2200	1.60						
23	22	60.00*	2200	1.80						
29	20	48.00*	2200	1.95						
35	19	39.00*	2200	2.2						
42	18	32.50*	2200	2.2						
50	15	27.50*	2200	2.6	W	20	DRN	63MS4	6.7	850
56	14	24.50*	2200	2.9	WF	20	DRN	63MS4	6.8	851
71	12	19.50*	2200	3.0	WA	20	DRN	63MS4	6.4	853
84	10	16.50*	2200	2.9	WAF	20	DRN	63MS4	6.4	852
96	9.6	14.33	2200	3.1						
135	7.2	10.25*	2160	3.5						
168	5.9	8.20*	2020	3.4						
210	4.9	6.57	1890	4.0						
18	25	75.00*	1800	1.00						
23	22	60.00*	1800	1.15						
29	20	48.00*	1800	1.25						
35	19	39.00*	1800	1.35						
42	17	32.50*	1800	1.50						
50	15	27.50*	1800	1.60	W	10	DRN	63MS4	6.0	846
56	14	24.50*	1800	1.80	WF	10	DRN	63MS4	6.2	847
71	12	19.50*	1800	2.1	WA	10	DRN	63MS4	6.0	849
84	11	16.50*	1800	1.90	WAF	10	DRN	63MS4	6.2	848
96	9.5	14.33	1800	2.3						
135	7.3	10.25*	1800	1.80						
168	6.0	8.20*	1800	2.0						
210	5.0	6.57	1800	2.4						

P_m = 0.18 kW										
n_a min ⁻¹	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
4.3	215	318	6140	0.85						
5.1	185	270	6360	1.00						
5.8	171	237	6460	1.05						
6.5	150	210	6590	1.20						
7.5	130	183	6710	1.40						
8.6	117	159	6790	1.55	W	47R17	DRN	63M4	20	867
9.7	104	141	6860	1.75	WF	47R17	DRN	63M4	20	867
11	109	124	6920	1.45	WA	47R17	DRN	63M4	18	867
11	89	120	6950	2.0	WAF	47R17	DRN	63M4	19	867
13	92	105	7000	1.75						
15	86	95	7030	1.85						
16	76	85	7080	2.1						
18	71	77	7100	2.3						
19	64	72	7130	2.5						
6.7	128	207	1770	0.85						
7.5	116	184	3030	0.95						
8.6	106	160	3380	1.05						
9.7	95	141	3550	1.15						
11	85	125	3670	1.30	W	37R17	DRN	63M4	14	867
13	76	109	3770	1.45	WF	37R17	DRN	63M4	14	867
14	68	96	3850	1.60	WA	37R17	DRN	63M4	14	867
17	59	82	3930	1.90	WAF	37R17	DRN	63M4	14	867
19	61	73	3910	1.45						
22	54	63	3960	1.65						
26	46	53	4010	1.95						
29	43	48	4030	2.1						
18	67	74.98	7070	2.7						
20	62	68.93	7090	2.9	W	47	DRN	63M4	17	863
23	54	58.98	7140	3.3	WF	47	DRN	63M4	17	864
27	48	51.12	7170	3.8	WA	47	DRN	63M4	15	865
29	45	47.78	7180	4.0	WAF	47	DRN	63M4	16	864
33	39	41.30	7210	4.6						
43	34	31.62	6930	4.8						

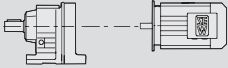

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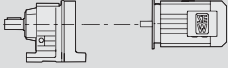

P_m = 0.18 kW										
n_a min⁻¹	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
20	58	69.05	3930	1.90						
22	54	63.33	3960	2.0						
26	47	53.92	4010	2.4						
30	41	46.49	4040	2.7						
36	34	37.88	4070	3.2	W	37	DRN	63M4	11	858
40	36	34.52	4070	2.5	WF	37	DRN	63M4	11	859
43	33	31.67	4080	2.8	WA	37	DRN	63M4	11	861
50	26	27.78	4100	4.2	WAF	37	DRN	63M4	11	859
51	28	26.96	4090	3.2						
59	25	23.25	4110	3.7						
64	20	21.33	4120	5.4						
73	20	18.94	4120	4.4						
12	60	75.00*	3000	1.15	W	30	DRN	71MS6	11	854
15	55	60.00*	3000	1.25	WF	30	DRN	71MS6	11	855
28	37	32.50*	3000	1.90	WA	30	DRN	71MS6	10	857
33	35	27.50*	3000	2.0	WAF	30	DRN	71MS6	11	856
18	42	75.00*	3000	1.65						
23	39	60.00*	3000	1.80						
29	34	48.00*	3000	2.1						
35	31	39.00*	3000	2.3						
42	26	32.50*	3000	2.7	W	30	DRN	63M4	10.0	854
50	24	27.50*	3000	2.9	WF	30	DRN	63M4	10	855
56	22	24.50*	3000	3.1	WA	30	DRN	63M4	9.7	857
71	19	19.50*	3000	3.7	WAF	30	DRN	63M4	10.0	856
84	16	16.33	3000	3.7						
96	15	14.33	3000	4.0						
134	11	10.25*	3000	4.5						
168	9.1	8.20*	3000	4.4						
209	7.7	6.57	2940	5.2						
111	12	24.50*	3000	6.0						
140	9.9	19.50*	3000	7.1	W	30	DRN	63MS2	9.1	854
167	8.5	16.33	3000	7.1	WF	30	DRN	63MS2	9.5	855
190	7.7	14.33	3000	7.8	WA	30	DRN	63MS2	8.8	857
266	5.7	10.25*	2720	8.7	WAF	30	DRN	63MS2	9.2	856
332	4.7	8.20*	2540	8.6						
15	47	60.00*	2200	0.85	W	20	DRN	71MS6	8.1	850
33	33	27.50*	2200	1.20	WF	20	DRN	71MS6	8.2	851
47	26	19.50*	2200	1.35	WA	20	DRN	71MS6	7.8	853
					WAF	20	DRN	71MS6	7.8	852
18	38	75.00*	2200	1.05						
23	33	60.00*	2200	1.20						
29	31	48.00*	2200	1.30						
35	28	39.00*	2200	1.45						
42	27	32.50*	2200	1.45	W	20	DRN	63M4	7.5	850
50	23	27.50*	2200	1.75	WF	20	DRN	63M4	7.7	851
56	21	24.50*	2200	1.90	WA	20	DRN	63M4	7.2	853
71	18	19.50*	2200	1.95	WAF	20	DRN	63M4	7.2	852
83	16	16.50*	2200	1.90						
96	14	14.33	2200	2.1						
134	11	10.25*	2110	2.3						
168	8.9	8.20*	1980	2.3						
209	7.4	6.57	1870	2.7						
111	11	24.50*	2200	3.6						
140	9.4	19.50*	2090	3.7	W	20	DRN	63MS2	6.7	850
165	8.2	16.50*	1980	3.7	WF	20	DRN	63MS2	6.8	851
190	7.5	14.33	1900	4.0	WA	20	DRN	63MS2	6.4	853
266	5.6	10.25*	1720	4.5	WAF	20	DRN	63MS2	6.4	852
332	4.6	8.20*	1610	4.4						

P_m = 0.18 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
42	25	32.50*	1800	1.00						
50	22	27.50*	1800	1.05						
56	21	24.50*	1800	1.20						
71	18	19.50*	1800	1.40	W	10	DRN	63M4	6.8	846
83	16	16.50*	1800	1.25	WF	10	DRN	63M4	7.0	847
96	14	14.33	1800	1.55	WA	10	DRN	63M4	6.8	849
134	11	10.25*	1800	1.20	WAF	10	DRN	63M4	7.0	848
168	9.0	8.20*	1800	1.35						
209	7.5	6.57	1790	1.60						
190	7.5	14.33	1800	2.9	W	10	DRN	63MS2	6.0	846
266	5.7	10.25*	1650	2.3	WF	10	DRN	63MS2	6.2	847
332	4.7	8.20*	1540	2.6	WA	10	DRN	63MS2	6.0	849
415	3.9	6.57	1450	3.1	WAF	10	DRN	63MS2	6.2	848

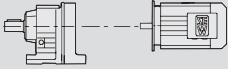

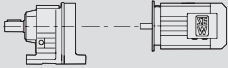

P_m = 0.25 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
7.7	182	183	6380	1.00						
8.8	163	159	6510	1.10						
9.9	145	141	6620	1.25						
11	152	124	6690	1.05	W	47R17	DRN	71MS4	20	867
12	125	120	6740	1.45	WF	47R17	DRN	71MS4	21	867
13	129	105	6820	1.25	WA	47R17	DRN	71MS4	19	867
15	120	95	6860	1.35	WAF	47R17	DRN	71MS4	20	867
17	106	85	6940	1.50						
18	98	77	6970	1.65						
19	90	72	7010	1.80						
11	119	125	2820	0.95						
13	106	109	3390	1.05						
15	95	96	3550	1.15	W	37R17	DRN	71MS4	15	867
17	82	82	3710	1.35	WF	37R17	DRN	71MS4	15	867
19	86	73	3670	1.05	WA	37R17	DRN	71MS4	15	867
22	75	63	3780	1.20	WAF	37R17	DRN	71MS4	15	867
26	65	53	3880	1.40						
29	59	48	3920	1.50						
12	134	74.98	6680	1.35	W	47	DRN	71M6	18	863
13	124	68.93	6740	1.45	WF	47	DRN	71M6	19	864
					WA	47	DRN	71M6	17	865
					WAF	47	DRN	71M6	18	864
19	92	74.98	6930	1.95	W	47	DRN	71MS4	17	863
20	85	68.93	6970	2.1	WF	47	DRN	71MS4	18	864
24	74	58.98	7030	2.4	WA	47	DRN	71MS4	16	865
27	65	51.12	7080	2.8	WAF	47	DRN	71MS4	16	864
29	61	47.78	7100	2.9						
20	79	69.05	3740	1.40						
22	73	63.33	3800	1.50						
26	64	53.92	3890	1.70						
30	56	46.49	3950	1.95						
37	47	37.88	4010	2.4						
41	48	34.52	4000	1.85						
44	45	31.67	4020	2.0						
51	35	27.78	4070	3.1	W	37	DRN	71MS4	12	858
52	38	26.96	4050	2.3	WF	37	DRN	71MS4	12	859
60	33	23.25	4070	2.7	WA	37	DRN	71MS4	12	861
66	28	21.33	4100	3.9	WAF	37	DRN	71MS4	12	859
74	28	18.94	4100	3.3						
90	23	15.67	4110	3.9						
101	21	13.89	4120	4.4						
111	20	12.70	4120	3.5						
121	18	11.65	4020	3.8						
132	16	10.67	3820	5.6						
142	16	9.92	3820	4.4						

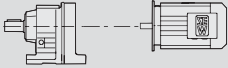

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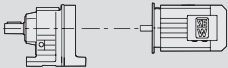

P_m = 0.25 kW										
n_a min⁻¹	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
12	83	75.00*	3000	0.85	W	30	DRN	71M6	12	854
15	77	60.00*	3000	0.90	WF	30	DRN	71M6	12	855
28	52	32.50*	3000	1.35	WA	30	DRN	71M6	11	857
37	45	24.50*	3000	1.55	WAF	30	DRN	71M6	12	856
47	39	19.50*	3000	1.80						
19	57	75.00*	3000	1.20						
23	53	60.00*	3000	1.30						
29	46	48.00*	3000	1.50						
36	42	39.00*	3000	1.65						
43	35	32.50*	3000	2.0	W	30	DRN	71MS4	11	854
51	33	27.50*	3000	2.1	WF	30	DRN	71MS4	11	855
57	30	24.50*	3000	2.3	WA	30	DRN	71MS4	10	857
72	26	19.50*	3000	2.7	WAF	30	DRN	71MS4	11	856
86	22	16.33	3000	2.7						
98	20	14.33	3000	3.0						
137	15	10.25*	3000	3.3						
171	12	8.20*	3000	3.2						
214	10	6.57	2900	3.8						
112	16	24.50*	3000	4.3	W	30	DRN	63M2	10.0	854
141	14	19.50*	3000	5.2	WF	30	DRN	63M2	10	855
169	12	16.33	3000	5.2	WA	30	DRN	63M2	9.7	857
192	11	14.33	2980	5.7	WAF	30	DRN	63M2	10.0	856
269	7.9	10.25*	2690	6.4						
336	6.4	8.20*	2510	6.2						
33	46	27.50*	2200	0.85	W	20	DRN	71M6	9.3	850
37	42	24.50*	2200	0.95	WF	20	DRN	71M6	9.5	851
47	36	19.50*	2200	0.95	WA	20	DRN	71M6	9.1	853
64	29	14.33	2200	1.05	WAF	20	DRN	71M6	9.1	852
89	22	10.25*	2200	1.15						
112	18	8.20*	2180	1.10						
139	15	6.57	2080	1.30						
23	45	60.00*	2200	0.90						
29	42	48.00*	2200	0.95						
36	38	39.00*	2200	1.05						
43	37	32.50*	2200	1.10						
51	31	27.50*	2200	1.30	W	20	DRN	71MS4	8.1	850
57	28	24.50*	2200	1.40	WF	20	DRN	71MS4	8.2	851
72	24	19.50*	2200	1.45	WA	20	DRN	71MS4	7.8	853
85	21	16.50*	2200	1.40	WAF	20	DRN	71MS4	7.8	852
98	20	14.33	2200	1.55						
137	15	10.25*	2050	1.70						
171	12	8.20*	1930	1.65						
214	10	6.57	1830	2.0						
85	20	32.50*	2200	2.0						
100	17	27.50*	2200	2.4	W	20	DRN	63M2	7.5	850
112	15	24.50*	2170	2.6	WF	20	DRN	63M2	7.7	851
141	13	19.50*	2030	2.7	WA	20	DRN	63M2	7.2	853
167	11	16.50*	1930	2.7	WAF	20	DRN	63M2	7.2	852
192	10	14.33	1860	2.9						
269	7.7	10.25*	1690	3.3						
336	6.3	8.20*	1580	3.2						
98	20	14.33	1800	1.15	W	10	DRN	71MS4	7.4	846
137	15	10.25*	1800	0.85	WF	10	DRN	71MS4	7.6	847
171	12	8.20*	1800	1.00	WA	10	DRN	71MS4	7.4	849
214	10	6.57	1750	1.20	WAF	10	DRN	71MS4	7.6	848
192	10	14.33	1780	2.1	W	10	DRN	63M2	6.8	846
269	7.8	10.25*	1620	1.65	WF	10	DRN	63M2	7.0	847
336	6.4	8.20*	1520	1.85	WA	10	DRN	63M2	6.8	849
419	5.3	6.57	1430	2.3	WAF	10	DRN	63M2	7.0	848

P_m = 0.37 kW										
n_a min⁻¹	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
10	215	141	6130	0.85						
12	188	120	6340	0.95						
13	193	105	6450	0.85	W	47R17	DRN	71M4	22	867
15	178	95	6540	0.90	WF	47R17	DRN	71M4	22	867
17	159	85	6660	1.00	WA	47R17	DRN	71M4	20	867
18	146	77	6720	1.10	WAF	47R17	DRN	71M4	21	867
20	135	72	6780	1.20						
17	124	82	2360	0.90	W	37R17	DRN	71M4	16	867
27	97	53	3520	0.95	WF	37R17	DRN	71M4	16	867
29	89	48	3630	1.00	WA	37R17	DRN	71M4	16	867
					WAF	37R17	DRN	71M4	16	867
12	194	74.98	6300	0.95						
14	180	68.93	6390	1.00	W	47	DRN	80MK6	21	863
16	157	58.98	6540	1.15	WF	47	DRN	80MK6	21	864
18	138	51.12	6660	1.30	WA	47	DRN	80MK6	19	865
20	130	47.78	6710	1.40	WAF	47	DRN	80MK6	20	864
19	135	74.98	6680	1.35						
21	125	68.93	6740	1.45						
24	109	58.98	6830	1.65						
28	96	51.12	6910	1.90						
30	90	47.78	6940	2.0						
34	79	41.30	6880	2.3						
40	68	35.09	6610	2.6						
45	67	31.62	6510	2.4						
45	62	31.33	6410	2.9	W	47	DRN	71M4	18	863
52	59	27.41	6260	2.7	WF	47	DRN	71M4	19	864
53	53	26.76	6150	3.4	WA	47	DRN	71M4	17	865
55	55	25.62	6150	2.9	WAF	47	DRN	71M4	18	864
56	50	25.07	6040	3.6						
64	48	22.15	5900	3.3						
75	41	18.82	5640	3.9						
84	37	16.80	5460	4.3						
99	32	14.35	5210	5.0						
115	29	12.30	5070	3.8						
133	25	10.66	4850	4.4						
142	24	9.96	4750	4.7						
22	108	63.33	3360	1.00						
26	94	53.92	3560	1.15						
30	82	46.49	3700	1.35						
37	69	37.88	3840	1.60						
41	71	34.52	3820	1.25						
45	66	31.67	3870	1.35						
51	52	27.78	3970	2.1						
52	56	26.96	3940	1.60	W	37	DRN	71M4	13	858
61	49	23.25	3990	1.85	WF	37	DRN	71M4	13	859
66	41	21.33	4040	2.7	WA	37	DRN	71M4	13	861
75	41	18.94	4040	2.2	WAF	37	DRN	71M4	13	859
90	34	15.67	4070	2.6						
102	30	13.89	4000	3.0						
111	30	12.70	4060	2.4						
121	27	11.65	3950	2.6						
133	24	10.67	3720	3.8						
143	23	9.92	3760	3.0						
165	20	8.55	3600	3.5						
19	85	75.00*	3000	0.85						
24	78	60.00*	3000	0.90						
29	68	48.00*	3000	1.05						
36	62	39.00*	3000	1.15						
44	52	32.50*	3000	1.35						
51	48	27.50*	3000	1.45	W	30	DRN	71M4	12	854
58	45	24.50*	3000	1.55	WF	30	DRN	71M4	12	855
73	38	19.50*	3000	1.85	WA	30	DRN	71M4	11	857
87	33	16.33	3000	1.85	WAF	30	DRN	71M4	12	856
99	30	14.33	3000	2.0						
138	22	10.25*	3000	2.2						
173	18	8.20*	3000	2.2						
215	15	6.57	2850	2.6						

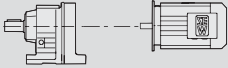

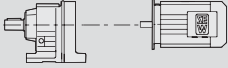

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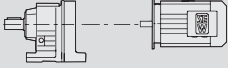

P_m = 0.37 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
115	23	24.50*	3000	3.0						
144	20	19.50*	3000	3.5	W	30	DRN	71MS2	11	854
172	17	16.33	3000	3.5	WF	30	DRN	71MS2	11	855
196	15	14.33	2910	3.9	WA	30	DRN	71MS2	10	857
274	11	10.25*	2640	4.4	WAF	30	DRN	71MS2	11	856
343	9.3	8.20*	2460	4.3						
51	46	27.50*	2200	0.85						
58	42	24.50*	2200	0.95						
73	36	19.50*	2200	1.00	W	20	DRN	71M4	9.3	850
86	31	16.50*	2170	0.95	WF	20	DRN	71M4	9.5	851
99	29	14.33	2120	1.05	WA	20	DRN	71M4	9.1	853
138	22	10.25*	1960	1.15	WAF	20	DRN	71M4	9.1	852
173	18	8.20*	1860	1.15						
215	15	6.57	1780	1.35						
115	22	24.50*	2060	1.80						
144	19	19.50*	1940	1.85	W	20	DRN	71MS2	8.1	850
170	16	16.50*	1850	1.85	WF	20	DRN	71MS2	8.2	851
196	15	14.33	1790	2.0	WA	20	DRN	71MS2	7.8	853
274	11	10.25*	1630	2.2	WAF	20	DRN	71MS2	7.8	852
343	9.1	8.20*	1540	2.2						
P_m = 0.55 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
19	200	51.12	6260	0.90						
20	188	47.78	6340	0.95						
23	165	41.30	6490	1.10	W	47	DRN	90SR6	29	863
28	143	35.09	6630	1.25	WF	47	DRN	90SR6	29	864
31	143	31.62	6680	1.10	WA	47	DRN	90SR6	27	865
31	129	31.33	6530	1.40	WAF	47	DRN	90SR6	28	864
35	125	27.41	6490	1.30						
38	117	25.62	6400	1.35						
19	198	74.98	6280	0.90						
21	184	68.93	6370	1.00						
24	160	58.98	6520	1.15						
28	141	51.12	6640	1.30	W	47	DRN	80MK4	21	863
30	132	47.78	6560	1.35	WF	47	DRN	80MK4	21	864
35	116	41.30	6380	1.55	WA	47	DRN	80MK4	19	865
41	100	35.09	6160	1.80	WAF	47	DRN	80MK4	20	864
45	98	31.62	6140	1.65						
46	90	31.33	6010	2.0						
52	86	27.41	5940	1.85						
56	81	25.62	5840	2.0						
38	101	37.88	3460	1.10						
45	96	31.67	3530	0.95						
52	76	27.78	3770	1.45						
53	83	26.96	3700	1.10						
62	72	23.25	3810	1.25						
67	60	21.33	3920	1.85						
76	60	18.94	3920	1.50						
92	50	15.67	3910	1.80	W	37	DRN	80MK4	15	858
103	44	13.89	3800	2.0	WF	37	DRN	80MK4	15	859
113	43	12.70	3940	1.60	WA	37	DRN	80MK4	15	861
123	40	11.65	3850	1.75	WAF	37	DRN	80MK4	15	859
135	35	10.67	3560	2.6						
145	34	9.92	3670	2.1						
168	29	8.55	3520	2.4						
206	24	6.97	3310	2.9						
249	20	5.77	3120	3.5						
281	18	5.11	3010	4.0						
366	14	3.93	2770	5.2						

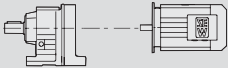

P_m = 0.55 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
44	76	32.50*	3000	0.90						
52	71	27.50*	3000	1.00						
59	66	24.50*	3000	1.05						
74	56	19.50*	3000	1.25	W	30	DRN	80MK4	14	854
88	48	16.33	3000	1.25	WF	30	DRN	80MK4	14	855
100	43	14.33	3000	1.40	WA	30	DRN	80MK4	14	857
140	33	10.25*	3000	1.55	WAF	30	DRN	80MK4	14	856
175	27	8.20*	2940	1.50						
218	22	6.57	2770	1.80						
115	35	24.50*	3000	2.0						
145	29	19.50*	3000	2.4	W	30	DRN	71M2	12	854
173	25	16.33	2930	2.4	WF	30	DRN	71M2	12	855
197	23	14.33	2830	2.6	WA	30	DRN	71M2	11	857
276	17	10.25*	2580	3.0	WAF	30	DRN	71M2	12	856
345	14	8.20*	2420	2.9						
115	33	24.50*	1900	1.25						
145	28	19.50*	1810	1.25	W	20	DRN	71M2	9.3	850
171	24	16.50*	1740	1.25	WF	20	DRN	71M2	9.5	851
197	22	14.33	1690	1.35	WA	20	DRN	71M2	9.1	853
276	16	10.25*	1560	1.50	WAF	20	DRN	71M2	9.1	852
345	13	8.20*	1480	1.50						
430	11	6.57	1420	1.75						

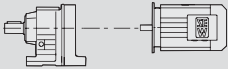

P_m = 0.75 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
24	215	58.98	6090	0.85						
28	191	51.12	6010	0.95						
30	180	47.78	5960	1.00						
35	158	41.30	5850	1.15						
41	136	35.09	5710	1.30						
46	134	31.62	5770	1.20	W	47	DRN	80M4	24	863
46	123	31.33	5600	1.45	WF	47	DRN	80M4	25	864
53	117	27.41	5610	1.35	WA	47	DRN	80M4	23	865
54	106	26.76	5450	1.70	WAF	47	DRN	80M4	24	864
56	110	25.62	5540	1.45						
57	100	25.07	5380	1.80						
65	95	22.15	5370	1.70						
77	82	18.82	5180	1.95						
117	58	12.30	4850	1.90						
46	116	31.33	3050	0.95						
52	104	27.78	3420	1.05						
62	98	23.25	3510	0.90						
68	82	21.33	3710	1.35						
76	81	18.94	3720	1.10						
92	68	15.67	3670	1.35						
104	60	13.89	3590	1.50	W	37	DRN	80M4	18	858
135	47	10.67	3390	1.90	WF	37	DRN	80M4	18	859
145	45	9.92	3590	1.55	WA	37	DRN	80M4	18	861
168	39	8.55	3440	1.80	WAF	37	DRN	80M4	18	859
207	32	6.97	3250	2.2						
250	27	5.77	3070	2.6						
282	24	5.11	2960	3.0						
367	18	3.93	2740	3.8						
450	15	3.20*	2570	4.7						
117	47	24.50*	3000	1.50	W	30	DRN	80MS2	17	854
175	34	16.33	2830	1.80	WF	30	DRN	80MS2	18	855
199	31	14.33	2740	1.95	WA	30	DRN	80MS2	17	857
279	23	10.25*	2520	2.2	WAF	30	DRN	80MS2	17	856
348	19	8.20*	2370	2.1						
88	65	16.33	3000	0.90	W	30	DRN	80M4	17	854
100	59	14.33	3000	1.00	WF	30	DRN	80M4	18	855
140	44	10.25*	3000	1.15	WA	30	DRN	80M4	17	857
176	36	8.20*	2850	1.10	WAF	30	DRN	80M4	17	856
219	31	6.57	2700	1.30						

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P_m = 1.1 kW										
n_a min ⁻¹	M_a Nm	i	$F_{Ra}^{1)}$ N	SEW f_B					m kg	
41	198	35.09	4910	0.90						
46	194	31.62	5110	0.80						
46	178	31.33	4880	1.00						
53	170	27.41	5030	0.95						
54	154	26.76	4820	1.15						
57	159	25.62	4990	1.00						
58	145	25.07	4780	1.25	W	47	DRN	90S4	30	863
66	139	22.15	4890	1.15	WF	47	DRN	90S4	31	864
77	119	18.82	4760	1.35	WA	47	DRN	90S4	29	865
87	107	16.80	4670	1.50	WAF	47	DRN	90S4	30	864
101	92	14.35	4530	1.75						
108	86	13.44	4470	1.85						
118	84	12.30	4660	1.30						
136	73	10.66	4490	1.50						
146	68	9.96	4410	1.60						
169	59	8.61	4240	1.85						
93	98	15.67	3260	0.90						
105	88	13.89	3220	1.05						
136	68	10.67	3110	1.30						
147	66	9.92	3440	1.05	W	37	DRN	90S4	24	858
170	57	8.55	3310	1.25	WF	37	DRN	90S4	24	859
209	47	6.97	3140	1.50	WA	37	DRN	90S4	24	861
252	39	5.77	2980	1.80	WAF	37	DRN	90S4	24	859
285	34	5.11	2880	2.0						
371	26	3.93	2670	2.6						
455	22	3.20*	2520	3.2						
175	49	16.33	2660	1.20	W	30	DRN	80M2	17	854
200	45	14.33	2590	1.35	WF	30	DRN	80M2	18	855
279	33	10.25*	2410	1.50	WA	30	DRN	80M2	17	857
349	27	8.20*	2280	1.45	WAF	30	DRN	80M2	17	856
P_m = 1.5 kW										
n_a min ⁻¹	M_a Nm	i	$F_{Ra}^{1)}$ N	SEW f_B					m kg	
55	205	26.76	4110	0.85						
58	198	25.07	4120	0.90						
66	188	22.15	4360	0.85						
78	161	18.82	4310	1.00						
87	145	16.80	4260	1.10						
102	125	14.35	4180	1.30	W	47	DRN	90L4	34	863
109	117	13.44	4140	1.35	WF	47	DRN	90L4	34	864
129	99	11.32	4020	1.60	WA	47	DRN	90L4	32	865
137	99	10.66	4310	1.10	WAF	47	DRN	90L4	33	864
147	93	9.96	4240	1.20						
170	80	8.61	4090	1.35						
200	68	7.32	3920	1.60						
224	61	6.53	3810	1.80						
137	93	10.67	2790	0.95						
171	78	8.55	3170	0.90	W	37	DRN	90L4	27	858
210	63	6.97	3020	1.10	WF	37	DRN	90L4	27	859
253	53	5.77	2880	1.35	WA	37	DRN	90L4	27	861
286	47	5.11	2790	1.50	WAF	37	DRN	90L4	27	859
372	36	3.93	2600	1.95						
457	29	3.20*	2460	2.4						

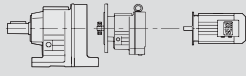

P_m = 2.2 kW										
n_a min ⁻¹	M_a Nm	i	$F_{Ra}^{1)}$ N	SEW f_B					m kg	
101	184	14.35	3560	0.85						
108	173	13.44	3560	0.90						
128	147	11.32	3540	1.10						
168	119	8.61	3840	0.95						
198	101	7.32	3720	1.10	W	47	DRN	100LS4	38	863
222	91	6.53	3620	1.20	WF	47	DRN	100LS4	38	864
260	78	5.58	3500	1.40	WA	47	DRN	100LS4	36	865
277	73	5.23	3440	1.50	WAF	47	DRN	100LS4	37	864
329	61	4.40	3300	1.80						
373	54	3.89	3200	2.0						
444	46	3.27	3050	2.4						

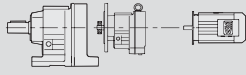

P_m = 3.0 kW										
n_a min ⁻¹	M_a Nm	i	$F_{Ra}^{1)}$ N	SEW f_B					m kg	
223	123	6.53	3400	0.90						
261	105	5.58	3300	1.05	W	47	DRN	100L4	45	863
279	99	5.23	3260	1.10	WF	47	DRN	100L4	45	864
331	83	4.40	3150	1.30	WA	47	DRN	100L4	43	865
374	74	3.89	3060	1.50	WAF	47	DRN	100L4	44	864
446	62	3.27	2940	1.75						

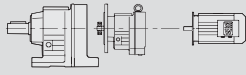

P_m = 4.0 kW										
n_a min ⁻¹	M_a Nm	i	$F_{Ra}^{1)}$ N	SEW f_B					m kg	
280	131	5.23	3040	0.85	W	47	DRN	112M4	54	863
333	111	4.40	2960	1.00	WF	47	DRN	112M4	55	864
376	98	3.89	2890	1.10	WA	47	DRN	112M4	53	865
448	82	3.27	2800	1.35	WAF	47	DRN	112M4	53	864

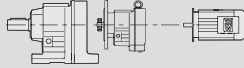

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12.4 W..R..DRN.. selection tables for low output speeds in Nm

M_{a max} = 90 Nm								
n_a min ⁻¹	i	$F_{Ra}^{(1)}$ N					m kg	
19	73	3610	W	37R17	DRN	71M4	16	867
23	63	3610	WF	37R17	DRN	71M4	16	867
27	53	3610	WA	37R17	DRN	71M4	16	867
			WAF	37R17	DRN	71M4	16	867

M_{a max} = 110 Nm								
n_a min ⁻¹	i	$F_{Ra}^{(1)}$ N					m kg	
0.31	4402	3320						
0.36	3795	3320						
0.42	3272	3320						
0.48	2899	3320						
0.54	2558	3320						
0.58	2382	3320	W	37R17	DRN	63MS4	14	867
0.64	2172	3320	WF	37R17	DRN	63MS4	14	867
0.71	1952	3320	WA	37R17	DRN	63MS4	14	867
0.77	1795	3320	WAF	37R17	DRN	63MS4	14	867
0.87	1593	3320						
0.94	1463	3320						
1.1	1298	3320						
1.8	754	3320						
2.1	669	3320						
1.2	1173	3320						
1.3	1063	3320						
1.4	956	3320						
1.6	854	3320						
2.3	600	3320	W	37R17	DRN	63MS4	13	867
2.6	532	3320	WF	37R17	DRN	63MS4	13	867
2.9	472	3320	WA	37R17	DRN	63MS4	13	867
3.2	434	3320	WAF	37R17	DRN	63MS4	13	867
3.6	384	3320						
3.9	359	3320						
4.2	327	3320						
4.8	286	3320						
5.2	267	3320	W	37R17	DRN	63M4	14	867
5.9	233	3320	WF	37R17	DRN	63M4	14	867
6.7	207	3320	WA	37R17	DRN	63M4	14	867
7.5	184	3320	WAF	37R17	DRN	63M4	14	867
8.8	160	3320	W	37R17	DRN	71MS4	15	867
9.9	141	3320	WF	37R17	DRN	71MS4	15	867
11	125	3320	WA	37R17	DRN	71MS4	15	867
			WAF	37R17	DRN	71MS4	15	867
13	109	3320	W	37R17	DRN	71M4	16	867
15	96	3320	WF	37R17	DRN	71M4	16	867
17	82	3320	WA	37R17	DRN	71M4	16	867
			WAF	37R17	DRN	71M4	16	867

M_{a max} = 160 Nm								
n_a min ⁻¹	i	$F_{Ra}^{(1)}$ N					m kg	
11	124	6650	W	47R17	DRN	71M4	22	867
13	105	6650	WF	47R17	DRN	71M4	22	867
15	95	6650	WA	47R17	DRN	71M4	20	867
			WAF	47R17	DRN	71M4	21	867
17	85	6650	W	47R17	DRN	80M4	27	867
19	77	6650	WF	47R17	DRN	80M4	27	867
20	72	6650	WA	47R17	DRN	80M4	25	867
			WAF	47R17	DRN	80M4	26	867

M_{a max} = 180 Nm								
n_a min⁻¹	i	F_{Ra}¹⁾ N					m kg	
0.29	4815	6390						
0.33	4173	6390						
0.36	3870	6390						
0.38	3598	6390						
0.41	3354	6390						
0.44	3171	6390						
0.50	2748	6390						
0.57	2425	6390	W	47R17	DRN	63MS4	19	867
0.61	2258	6390	WF	47R17	DRN	63MS4	20	867
0.65	2111	6390	WA	47R17	DRN	63MS4	18	867
0.70	1959	6390	WAF	47R17	DRN	63MS4	19	867
0.77	1797	6390						
0.87	1595	6390						
0.93	1486	6390						
0.95	1448	6390						
1.2	1170	6390						
1.8	754	6390						
1.1	1290	6390						
1.2	1183	6390						
1.3	1042	6390						
1.4	956	6390	W	47R17	DRN	63MS4	19	867
1.6	869	6390	WF	47R17	DRN	63MS4	19	867
2.1	661	6390	WA	47R17	DRN	63MS4	17	867
2.3	596	6390	WAF	47R17	DRN	63MS4	18	867
2.6	536	6390						
2.9	473	6390						
3.2	434	6390						
3.6	386	6390						
3.8	359	6390	W	47R17	DRN	63M4	20	867
4.3	318	6390	WF	47R17	DRN	63M4	20	867
4.7	291	6390	WA	47R17	DRN	63M4	18	867
5.1	270	6390	WAF	47R17	DRN	63M4	19	867
5.2	265	6390						
5.9	237	6390	W	47R17	DRN	71MS4	20	867
6.7	210	6390	WF	47R17	DRN	71MS4	21	867
7.7	183	6390	WA	47R17	DRN	71MS4	19	867
			WAF	47R17	DRN	71MS4	20	867
8.9	159	6390	W	47R17	DRN	71M4	22	867
10	141	6390	WF	47R17	DRN	71M4	22	867
12	120	6390	WA	47R17	DRN	71M4	20	867
			WAF	47R17	DRN	71M4	21	867

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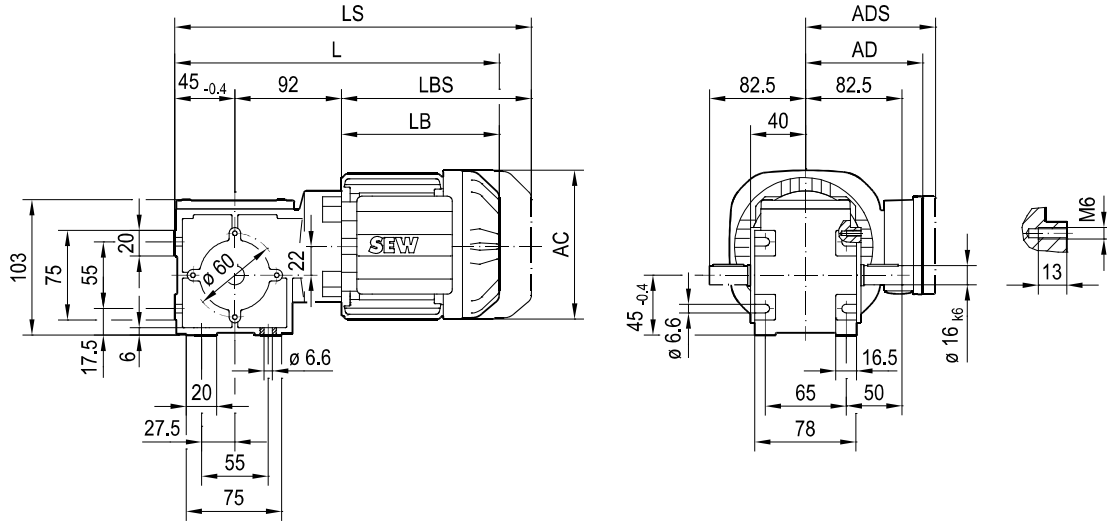
1 Revision

W10..DRN.. dimension sheets in mm

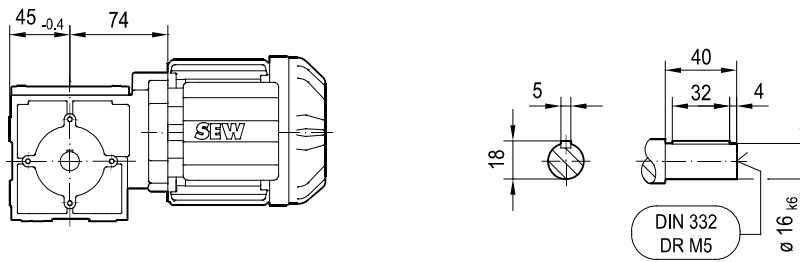
1.1 W10..DRN.. dimension sheets in mm

20 001 03 14

W10..



DR2S56..

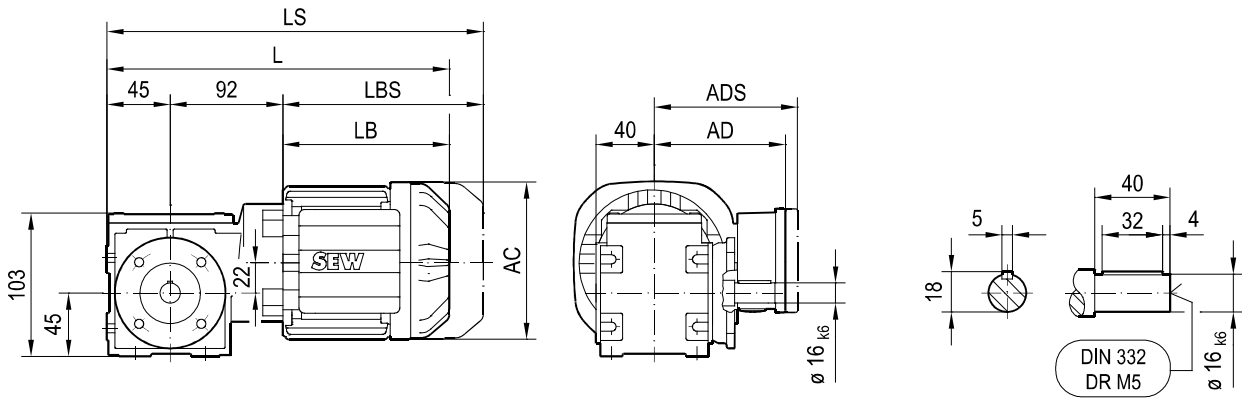


(\rightarrow 7.3)	DR2S		DRN					
	56..	63MS	63M	71MS				
AC	109	115	115	139				
AD	87	98	98	118				
ADS	87	98	98	129				
L	255	285	299	301				
LS	291	341	355	368				
LB	136	148	162	164				
LBS	172	204	218	231				

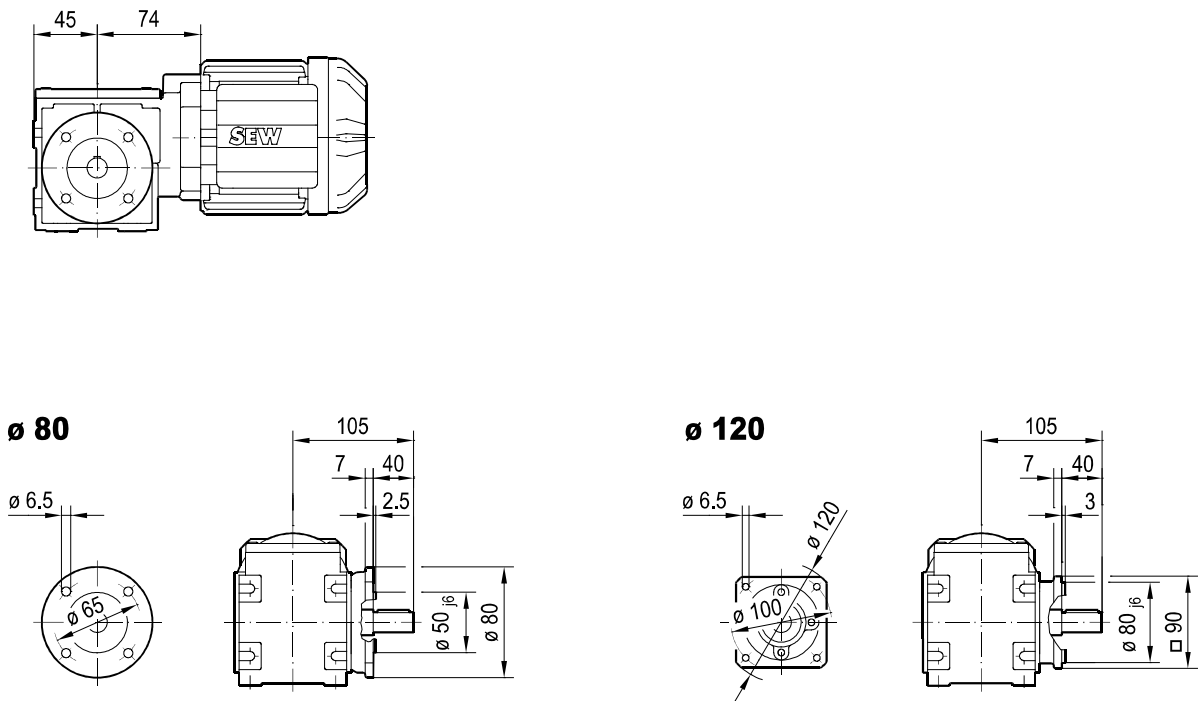
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WF10..

20 002 03 14



DR2S56..



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(\rightarrow 7.3)	DR2S		DRN					
	56..	63MS	63M	71MS				
AC	109	115	115	139				
AD	87	98	98	118				
ADS	87	98	98	129				
L	255	285	299	301				
LS	291	341	355	368				
LB	136	148	162	164				
LBS	172	204	218	231				

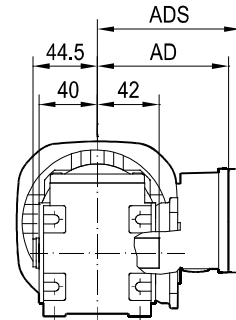
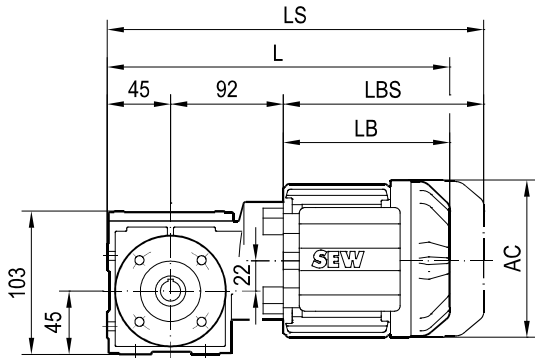
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1 Revision

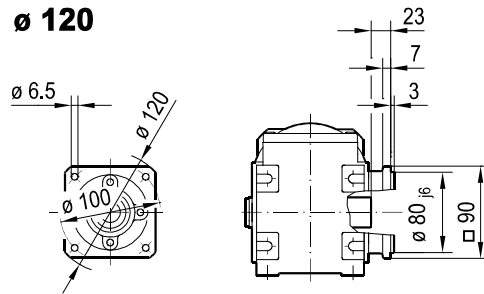
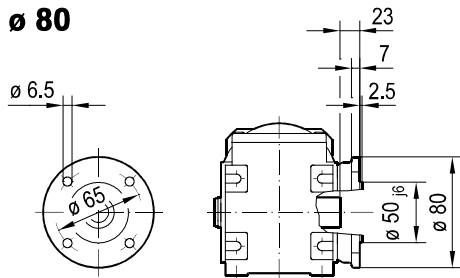
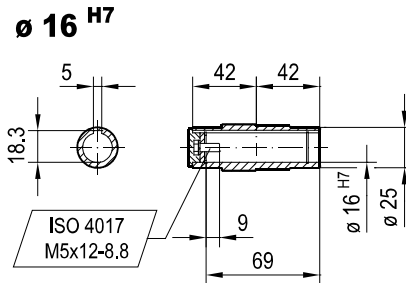
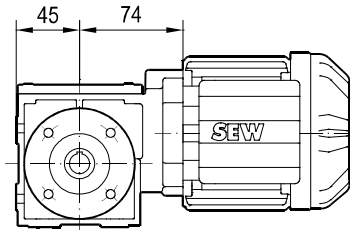
W10..DRN.. dimension sheets in mm

WAF10..

20 058 01 17



DR2S56..

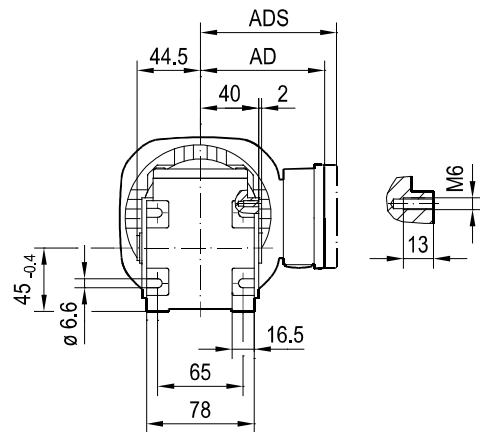
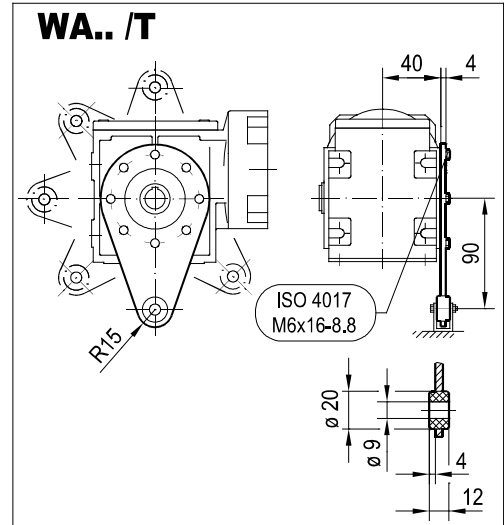
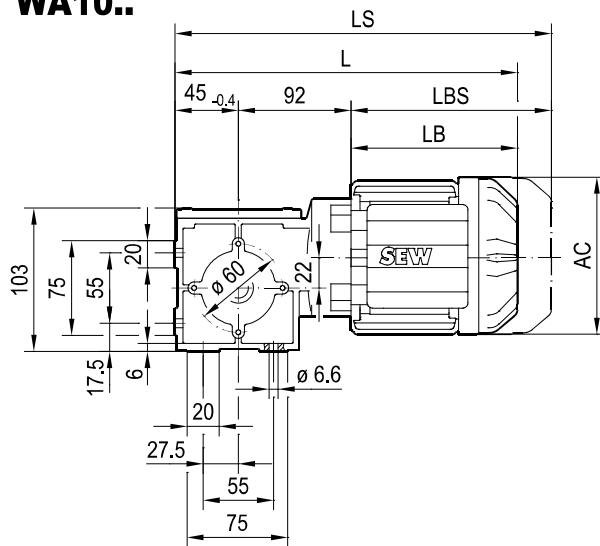


(-> 7.3)	DR2S	DRN						
	56..	63MS	63M	71MS				
AC	109	115	115	139				
AD	87	98	98	118				
ADS	87	98	98	129				
L	255	285	299	301				
LS	291	341	355	368				
LB	136	148	162	164				
LBS	172	204	218	231				

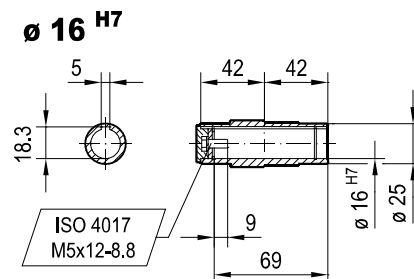
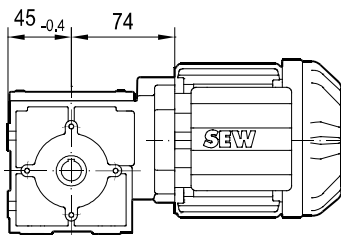
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20 003 03 14

WA10..



DR2S56..



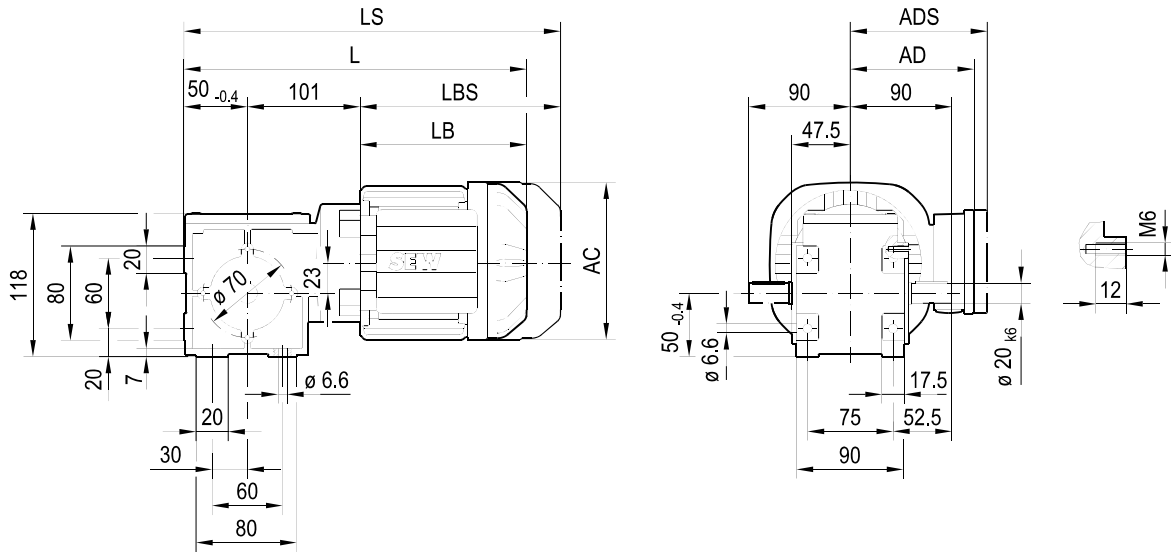
25960679/EN – 02/2019

(\rightarrow 7.3)	DR2S		DRN		
	56..	63MS	63M	71MS	
AC	109	115	115	139	
AD	87	98	98	118	
ADS	87	98	98	129	
L	255	285	299	301	
LS	291	341	355	368	
LB	136	148	162	164	
LBS	172	204	218	231	

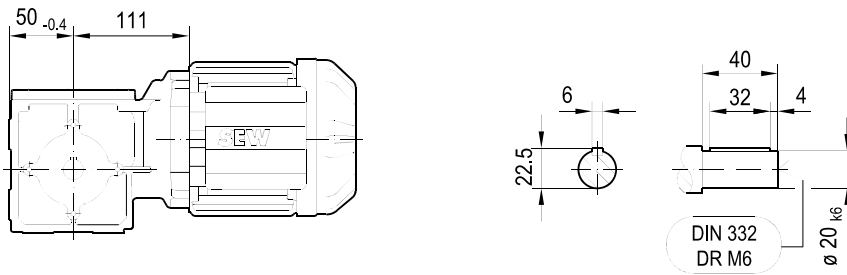
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W20..



DRN80..

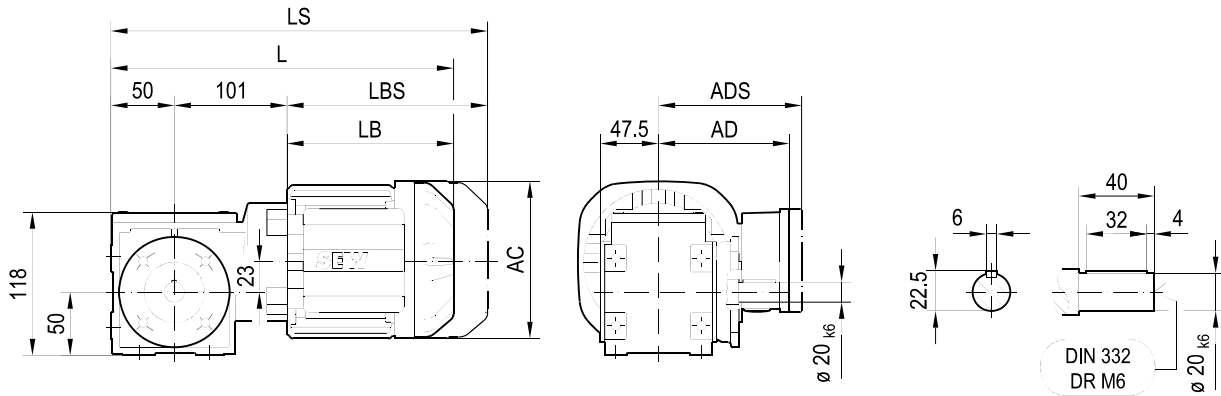


(-> 7.3)	DRN							
	63MS	63M	71MS	71M				
AC	115	115	139	139				
AD	98	98	118	118				
ADS	98	98	129	129				
L	299	313	315	335				
LS	355	369	382	402				
LB	148	162	164	184				
LBS	204	218	231	251				

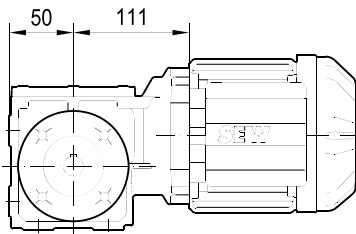
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WF20..

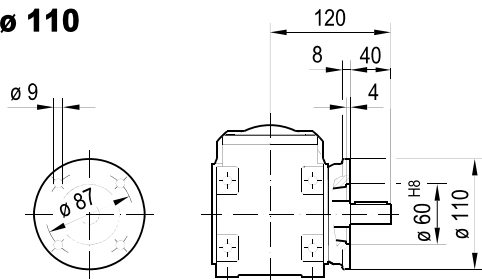
20 005 02 14



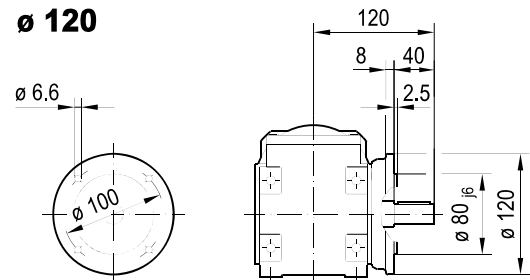
DRN80..



ø 110



ø 120

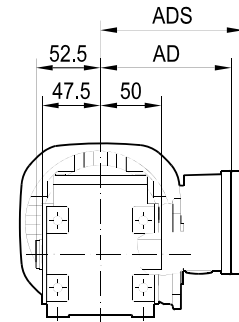
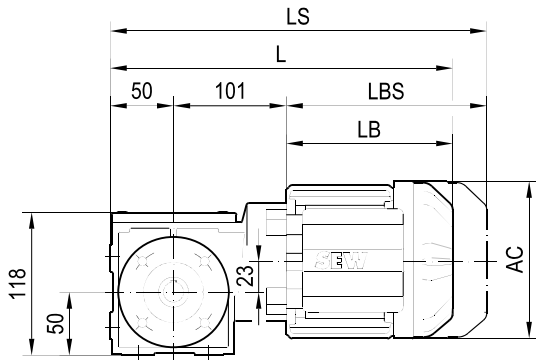


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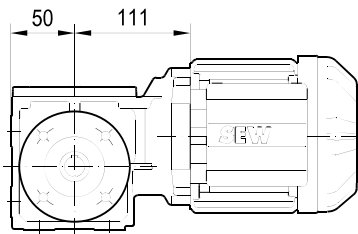
(-> 7.3)	DRN							
	63MS	63M	71MS	71M				
AC	115	115	139	139				
AD	98	98	118	118				
ADS	98	98	129	129				
L	299	313	315	335				
LS	355	369	382	402				
LB	148	162	164	184				
LBS	204	218	231	251				

WAF20..

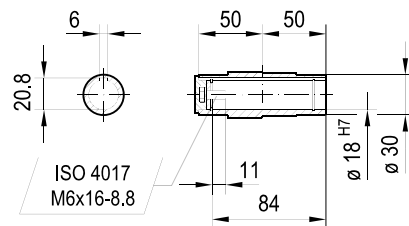
20 059 00 17



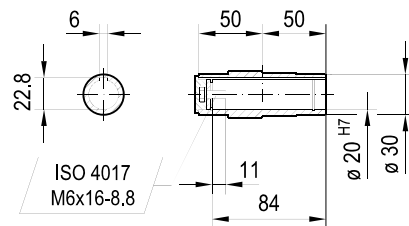
DRN80..



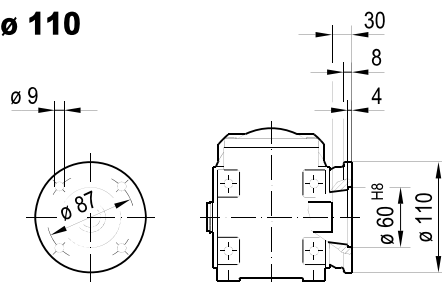
∅ 18 H7



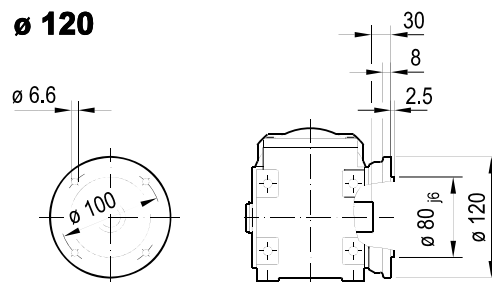
∅ 20 H7



∅ 110



∅ 120

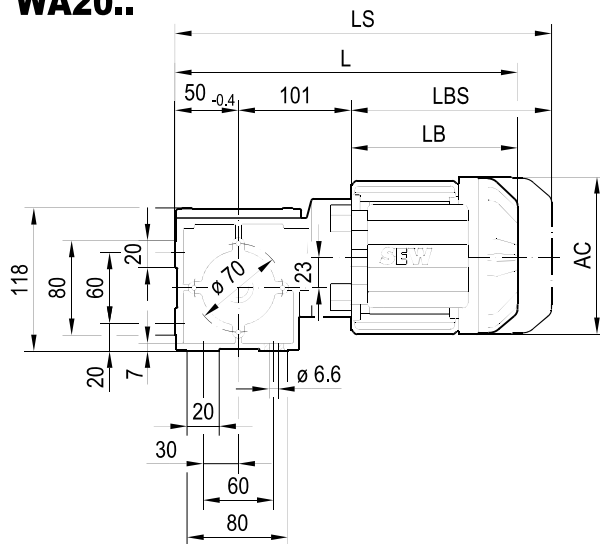


(-> 7.3)	DRN							
	63MS	63M	71MS	71M				
AC	115	115	139	139				
AD	98	98	118	118				
ADS	98	98	129	129				
L	299	313	315	335				
LS	355	369	382	402				
LB	148	162	164	184				
LBS	204	218	231	251				

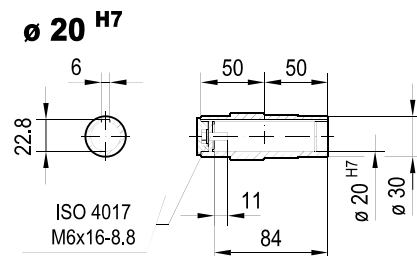
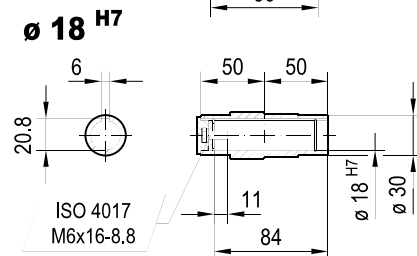
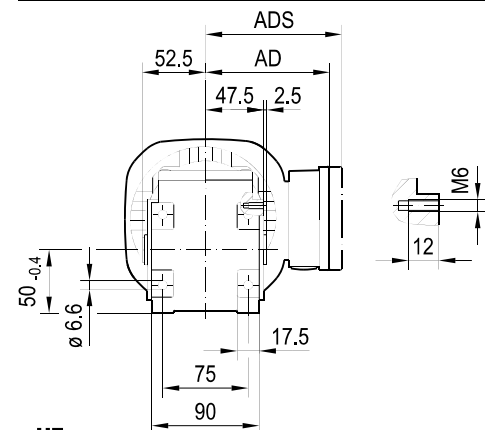
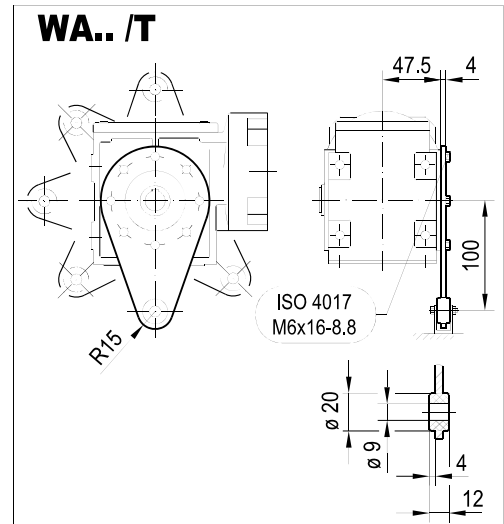
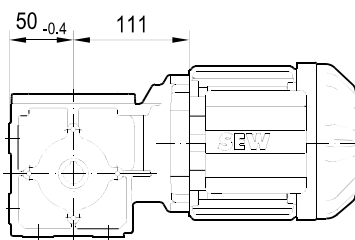
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20 006 01 14

WA20..



DRN80..

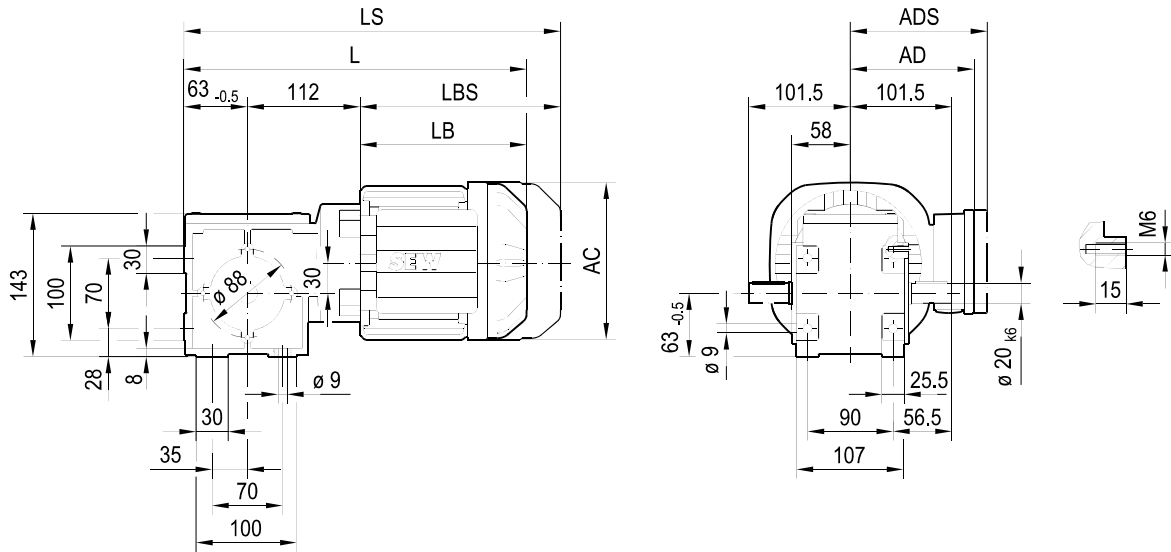


→ 7.3)	DRN							
	63MS	63M	71MS	71M				
AC	115	115	139	139				
AD	98	98	118	118				
ADS	98	98	129	129				
L	299	313	315	335				
LS	355	369	382	402				
LB	148	162	164	184				
LBS	204	218	231	251				

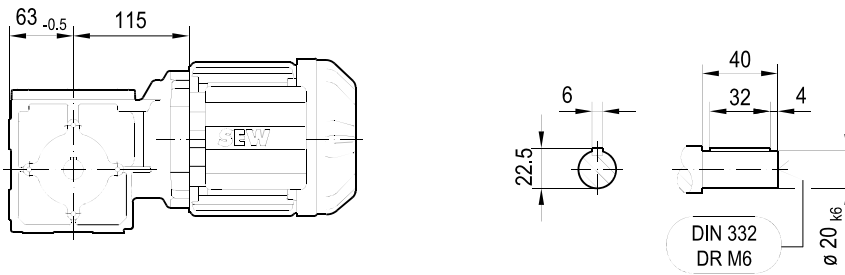
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20 007 00 14

W30..



DRN80..

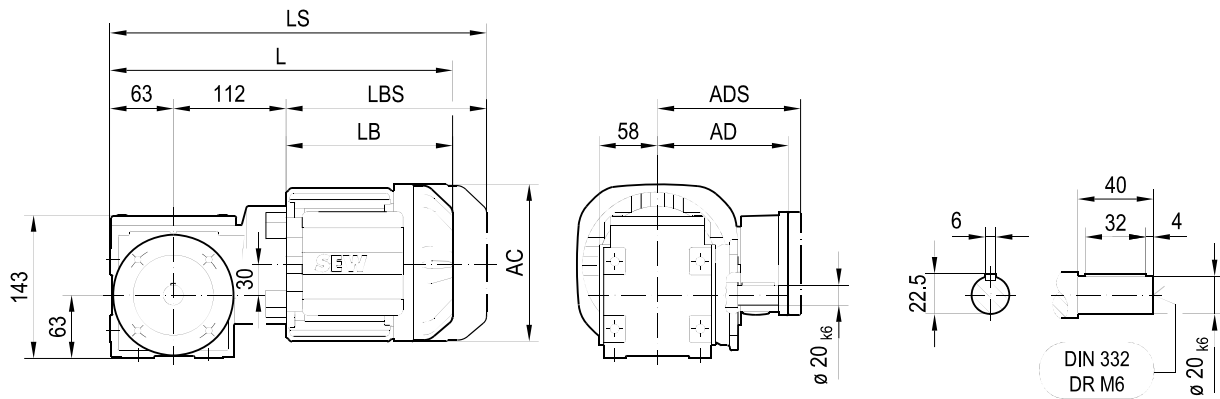


(-> 7.3)	DRN							
	63MS	63M	71MS	71M	80MK	80MS	80M	
AC	115	115	139	139	156	156	156	
AD	98	98	118	118	128	128	128	
ADS	98	98	129	129	139	139	139	
L	323	337	339	359	364	382	410	
LS	379	393	406	426	445	463	491	
LB	148	162	164	184	189	207	235	
LBS	204	218	231	251	270	288	316	

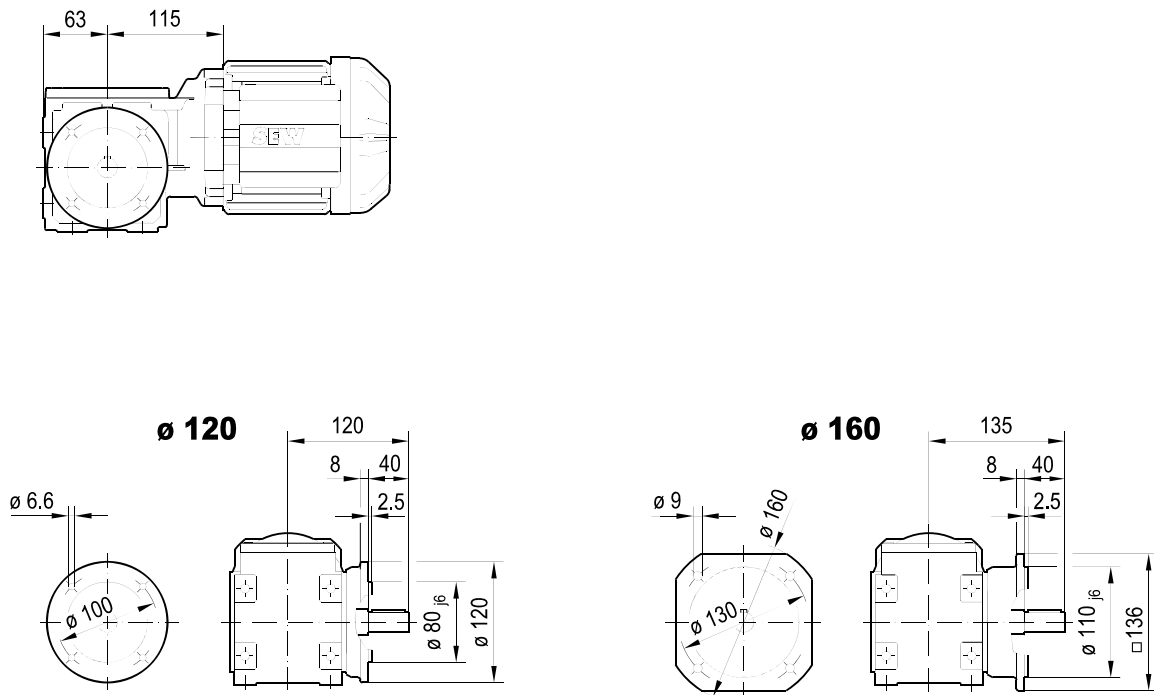
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WF30..

20 008 01 14



DRN80..

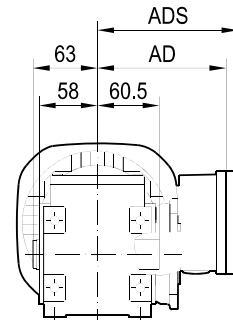
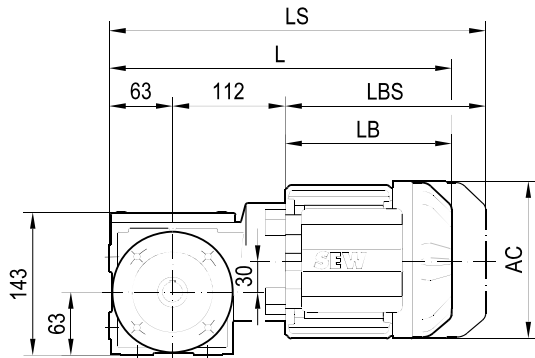


(-> 7.3)	DRN							
	63MS	63M	71MS	71M	80MK	80MS	80M	
AC	115	115	139	139	156	156	156	
AD	98	98	118	118	128	128	128	
ADS	98	98	129	129	139	139	139	
L	323	337	339	359	364	382	410	
LS	379	393	406	426	445	463	491	
LB	148	162	164	184	189	207	235	
LBS	204	218	231	251	270	288	316	

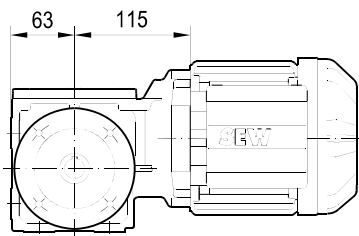
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WAF30..

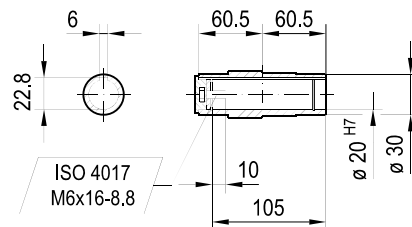
20 009 01 14



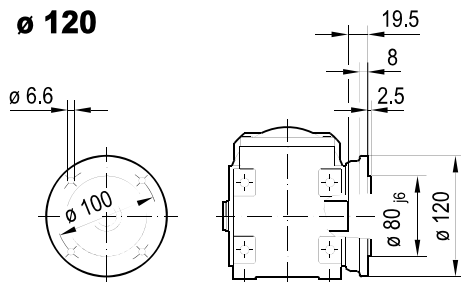
DRN80..



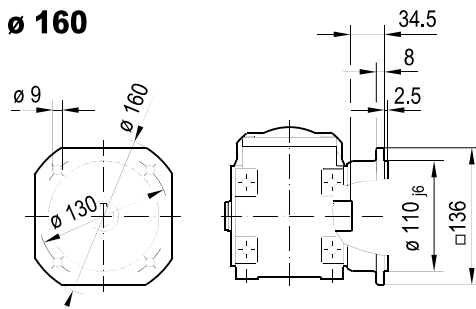
Ø 20 H7



Ø 120



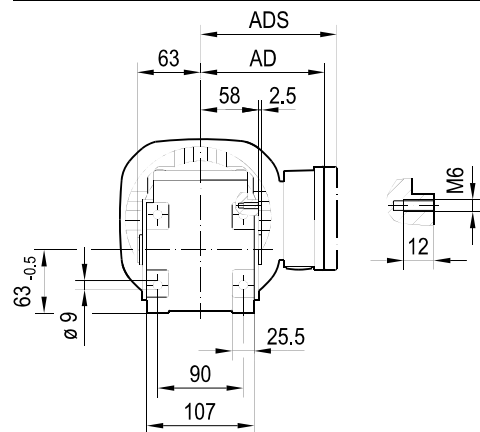
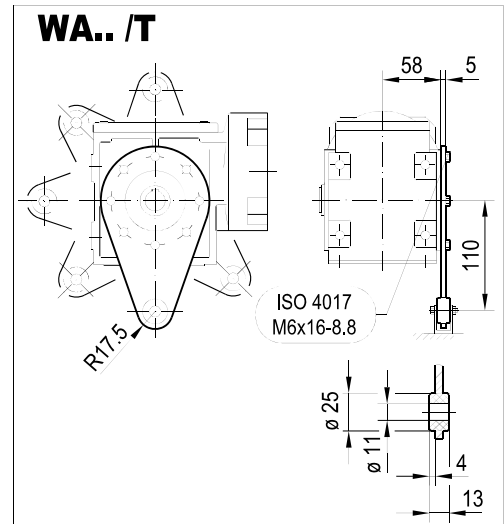
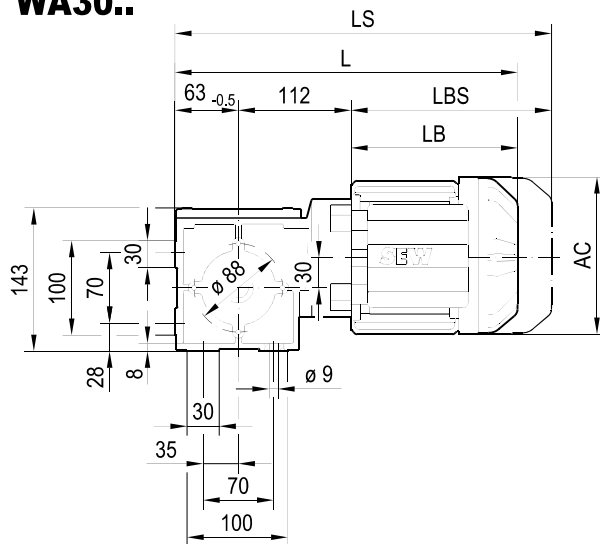
Ø 160



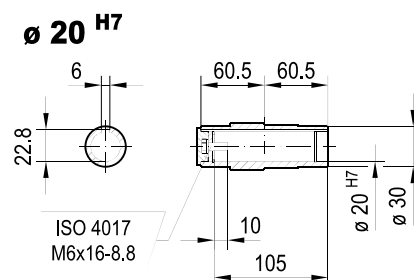
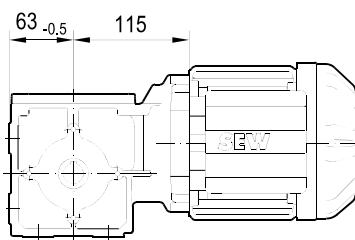
(-> 7.3)	DRN							
	63MS	63M	71MS	71M	80MK	80MS	80M	
AC	115	115	139	139	156	156	156	
AD	98	98	118	118	128	128	128	
ADS	98	98	129	129	139	139	139	
L	323	337	339	359	364	382	410	
LS	379	393	406	426	445	463	491	
LB	148	162	164	184	189	207	235	
LBS	204	218	231	251	270	288	316	

20 010 01 14

WA30..



DRN80..

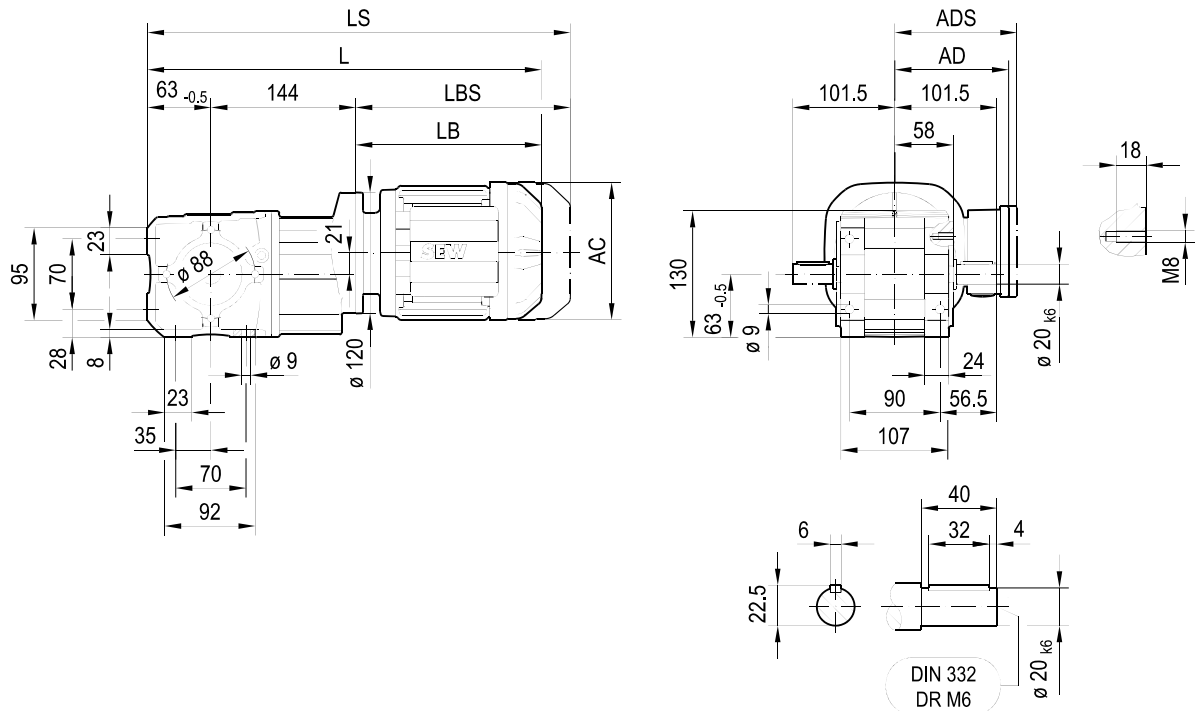


(-> 7.3)	DRN							
	63MS	63M	71MS	71M	80MK	80MS	80M	
AC	115	115	139	139	156	156	156	
AD	98	98	118	118	128	128	128	
ADS	98	98	129	129	139	139	139	
L	323	337	339	359	364	382	410	
LS	379	393	406	426	445	463	491	
LB	148	162	164	184	189	207	235	
LBS	204	218	231	251	270	288	316	

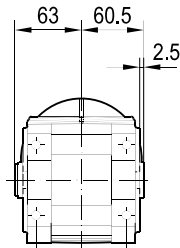
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20 011 01 14

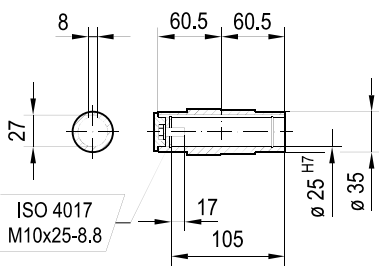
W37..



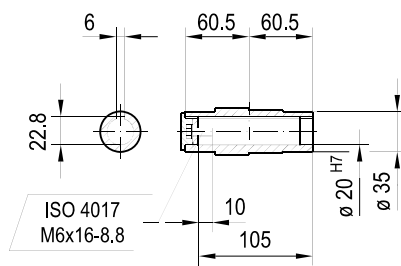
WA37B..



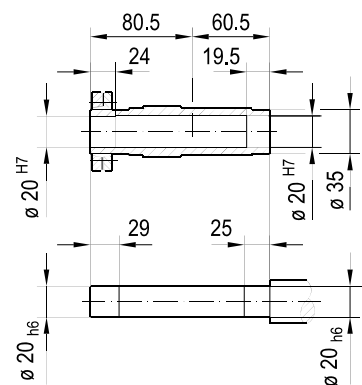
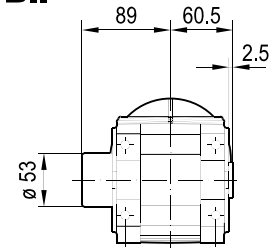
ø 25 H7
DIN 6885-3



ø 20 H7



WH37B..

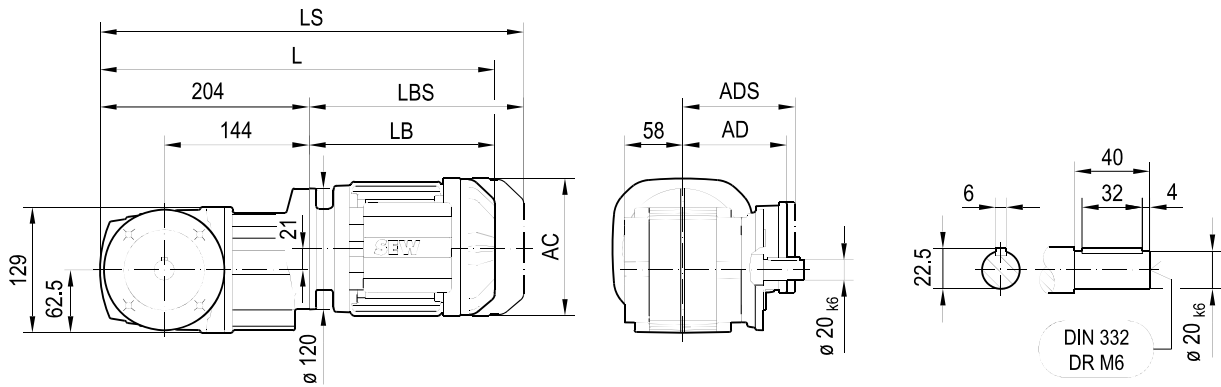


(- □ 7.3)	DRN							
	63MS	63M	71MS	71M	80MK	80M	90S	90L
AC	115	115	139	139	156	156	179	179
AD	98	98	118	118	128	128	140	140
ADS	98	98	129	129	139	139	150	150
L	397	411	413	433	444	489	490	522
LS	453	467	480	500	525	570	584	616
LB	190	204	206	226	237	282	283	315
LBS	246	260	273	293	318	363	377	409

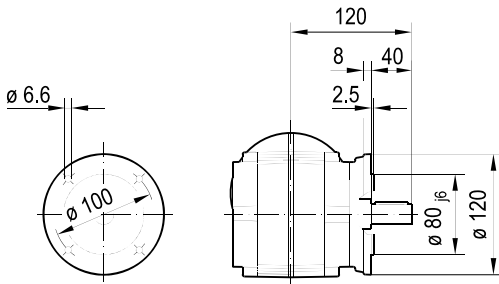
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20 012 01 14

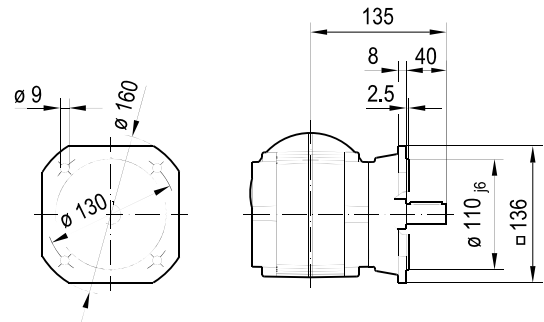
WF37..



∅ 120
max. DR71..

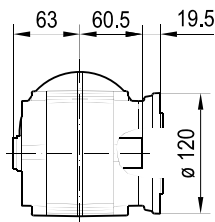


∅ 160

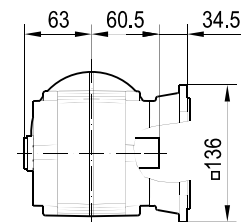


WAF37..

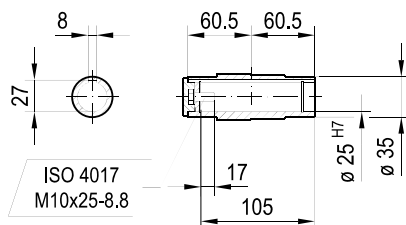
∅ 120
max. DR71..



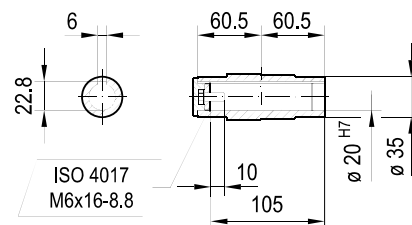
∅ 160



∅ 25^{H7}
DIN 6885-3



∅ 20^{H7}

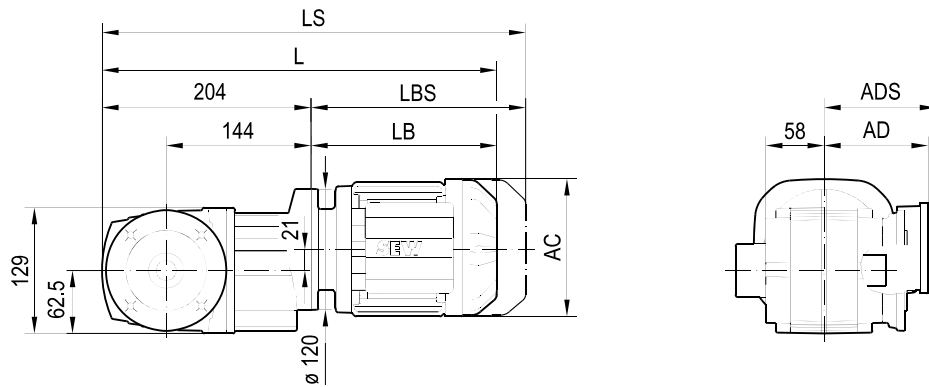


↳ (7.3)	DRN							
	63MS	63M	71MS	71M	80MK	80M	90S	90L
AC	115	115	139	139	156	156	179	179
AD	98	98	118	118	128	128	140	140
ADS	98	98	129	129	139	139	150	150
L	394	408	410	430	441	486	487	519
LS	450	464	477	497	522	567	581	613
LB	190	204	206	226	237	282	283	315
LBS	246	260	273	293	318	363	377	409

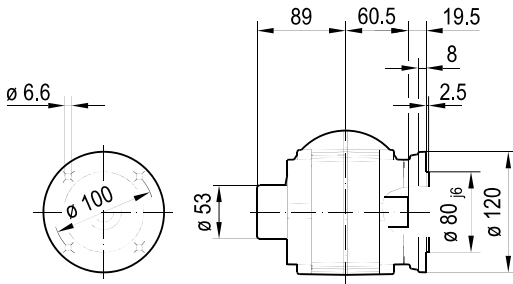
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20 013 01 14

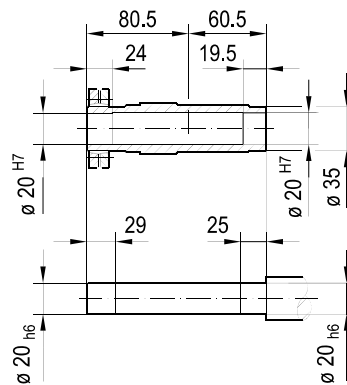
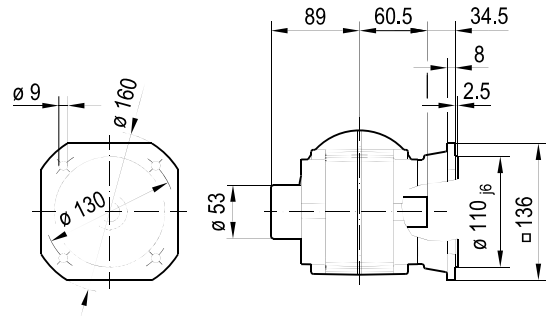
WHF37..



∅ 120
max. DR71..



∅ 160

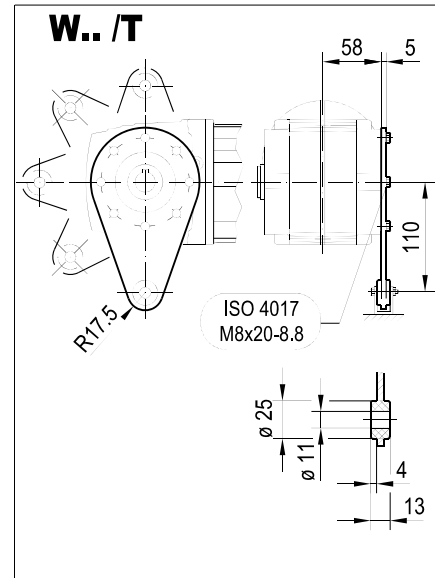
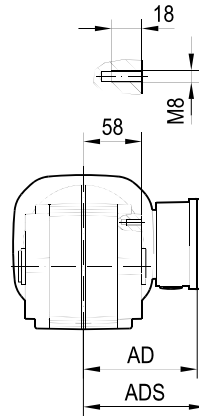
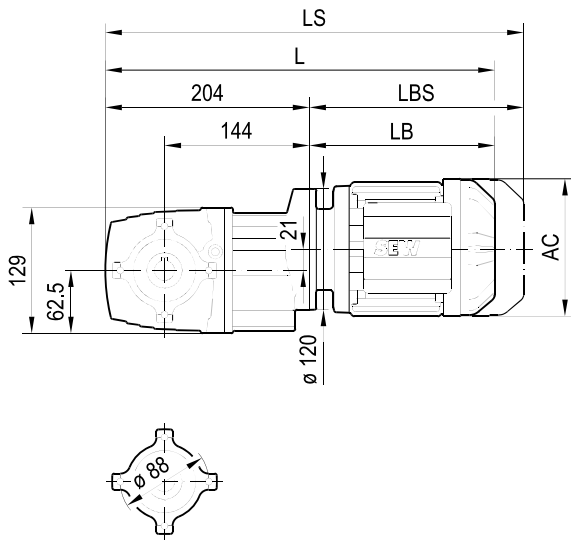


(-> 7.3)	DRN							
	63MS	63M	71MS	71M	80MK	80M	90S	90L
AC	115	115	139	139	156	156	179	179
AD	98	98	118	118	128	128	140	140
ADS	98	98	129	129	139	139	150	150
L	394	408	410	430	441	486	487	519
LS	450	464	477	497	522	567	581	613
LB	190	204	206	226	237	282	283	315
LBS	246	260	273	293	318	363	377	409

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WA37..

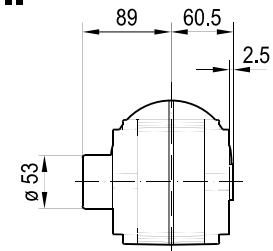
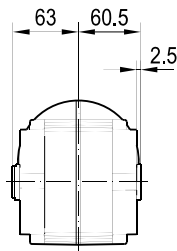
20 014 01 14



12

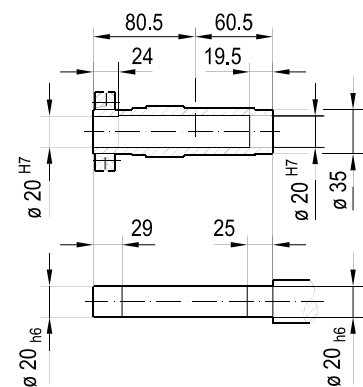
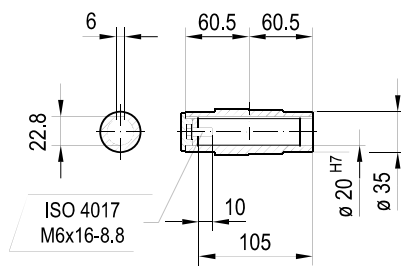
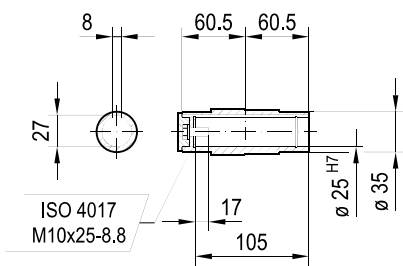
WA37..

WH37..



ø 25 H7
DIN 6885-3

ø 20 H7

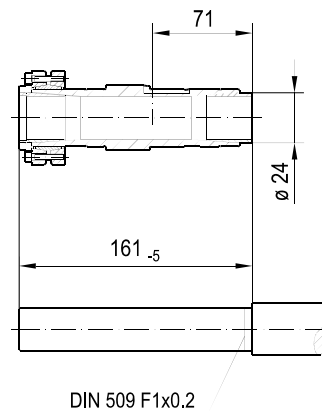
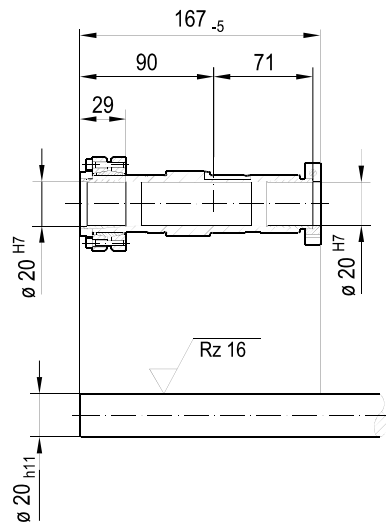
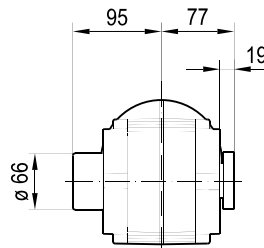
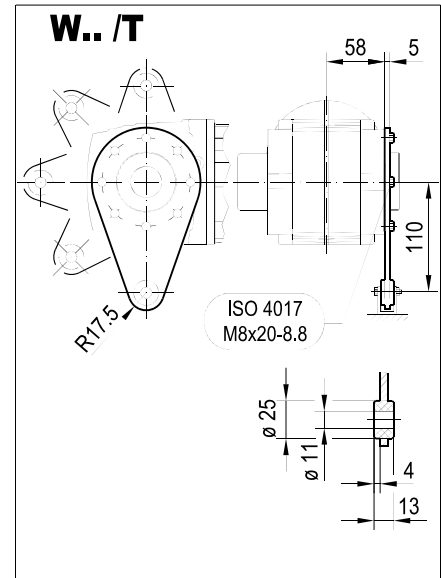
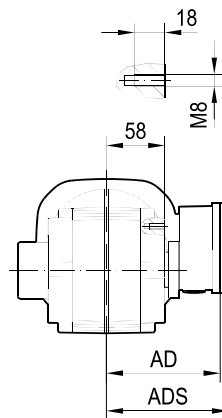
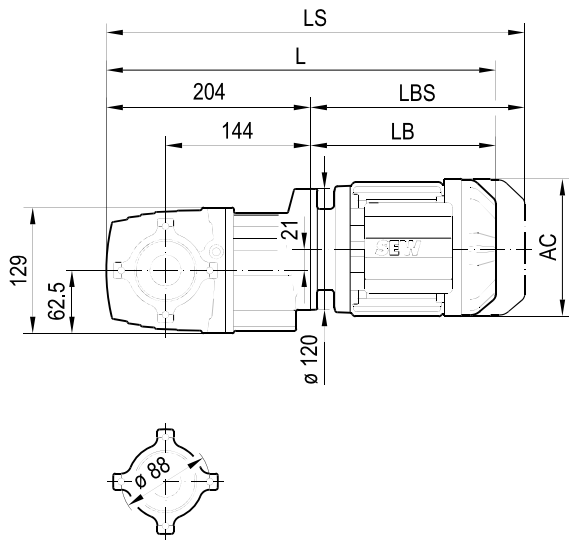


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↳ 7.3	DRN							
	63MS	63M	71MS	71M	80MK	80M	90S	90L
AC	115	115	139	139	156	156	179	179
AD	98	98	118	118	128	128	140	140
ADS	98	98	129	129	139	139	150	150
L	394	408	410	430	441	486	487	519
LS	450	464	477	497	522	567	581	613
LB	190	204	206	226	237	282	283	315
LBS	246	260	273	293	318	363	377	409

WT37..

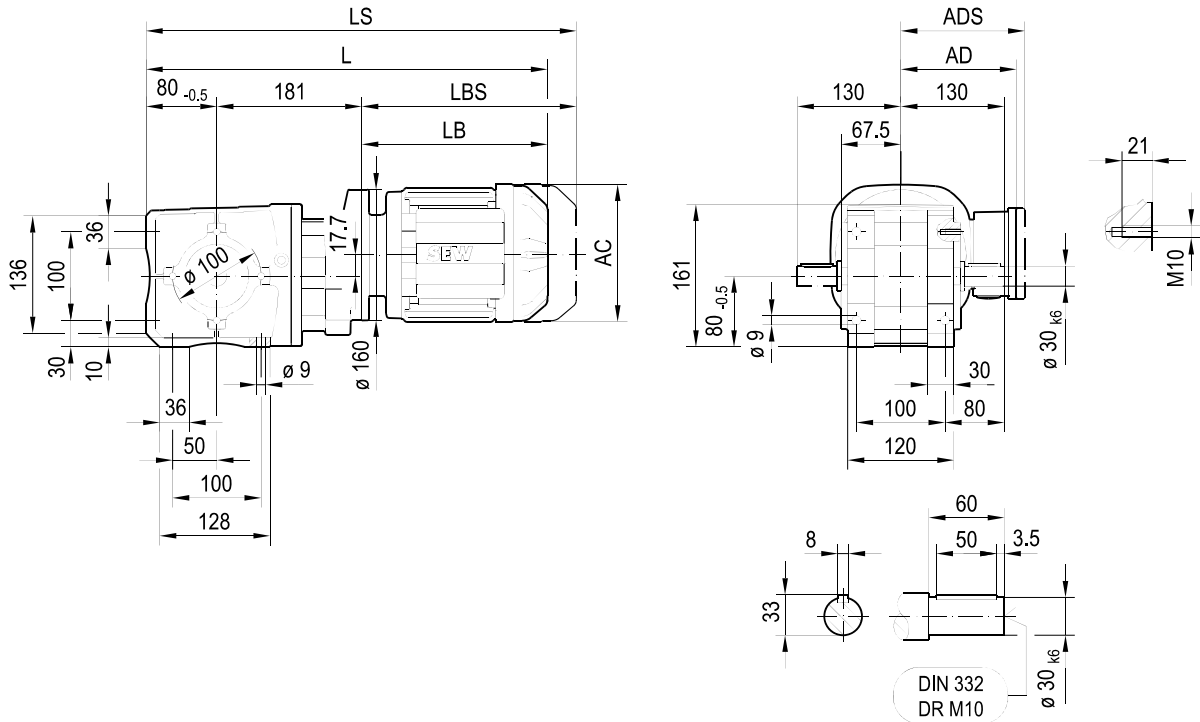
20 015 01 14



(-> 7.3)	DRN							
	63MS	63M	71MS	71M	80MK	80M	90S	90L
AC	115	115	139	139	156	156	179	179
AD	98	98	118	118	128	128	140	140
ADS	98	98	129	129	139	139	150	150
L	394	408	410	430	441	486	487	519
LS	450	464	477	497	522	567	581	613
LB	190	204	206	226	237	282	283	315
LBS	246	260	273	293	318	363	377	409

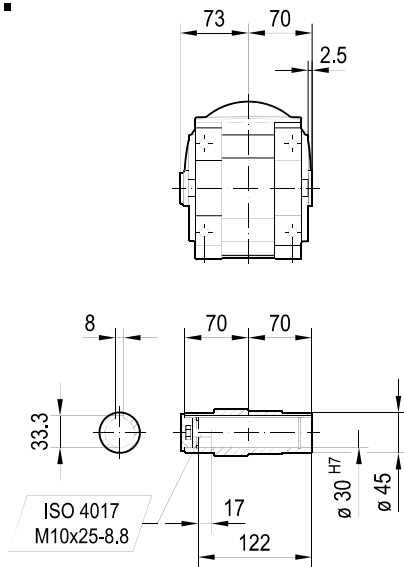
20 016 01 14

W47..

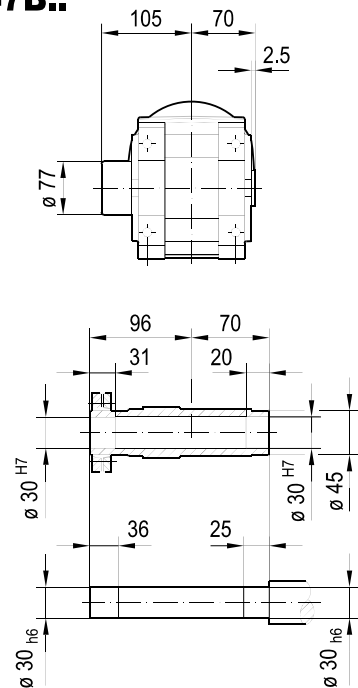


12

WA47B..



WH47B..

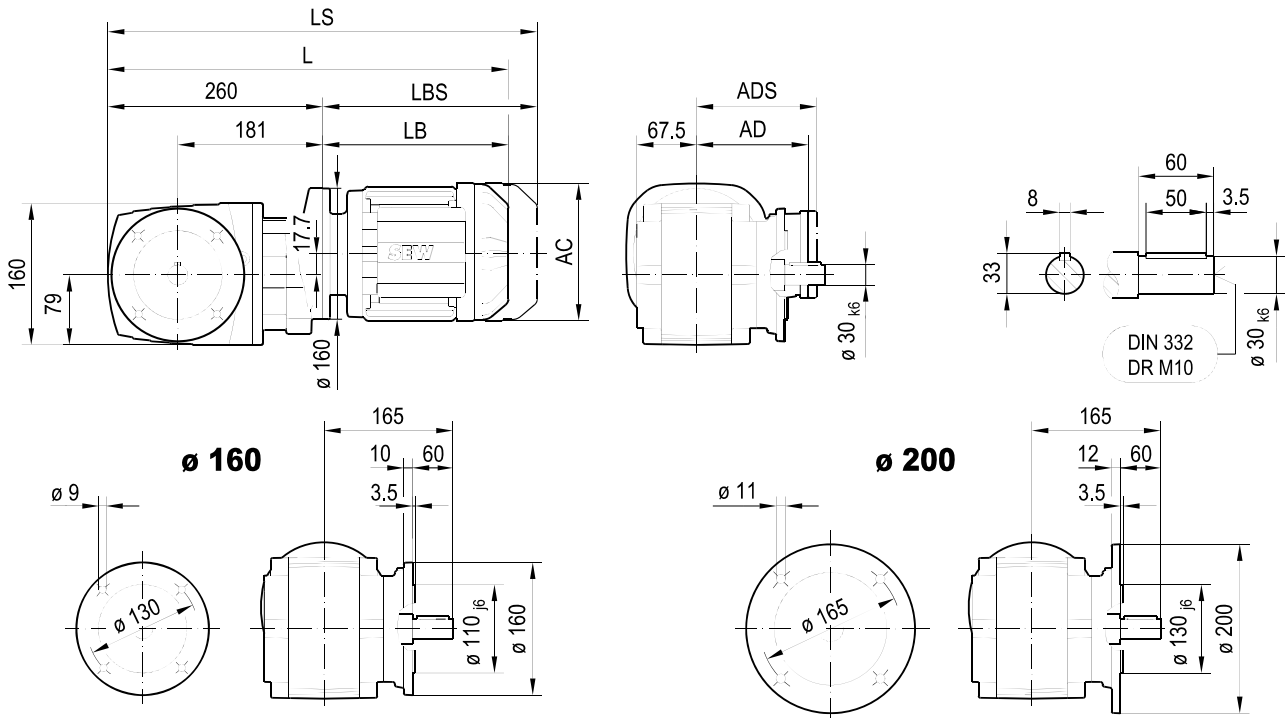


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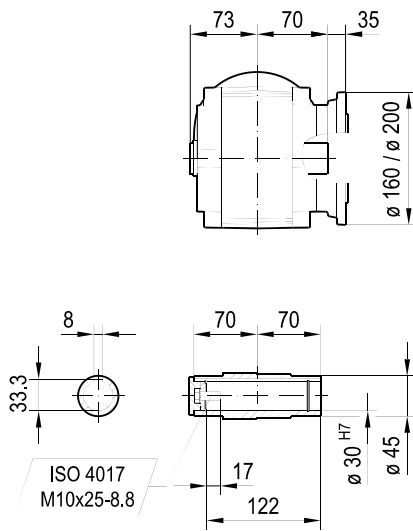
↳ 7.3	DRN									
	63M	71MS	71M	80MK	80M	90S	90L	100LS	100L/LM	112M
AC	115	139	139	156	156	179	179	197	197	221
AD	98	118	118	128	128	140	140	157	157	170
ADS	98	129	129	139	139	150	150	158	158	172
L	459	460	480	491	536	538	570	566	616	647
LS	515	528	548	572	617	631	663	660	710	759
LB	198	199	219	230	275	277	309	305	355	386
LBS	254	267	287	311	356	370	402	399	449	498

20 017 02 14

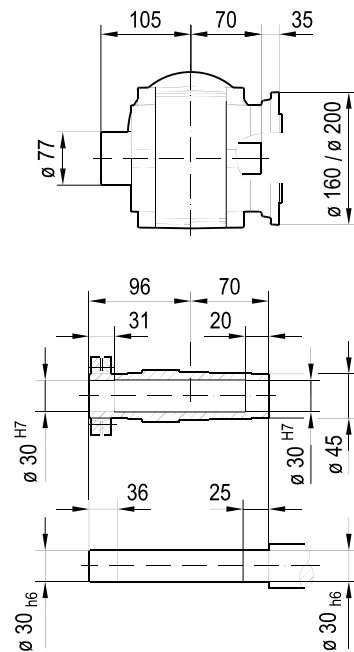
WF47..



WAF47..



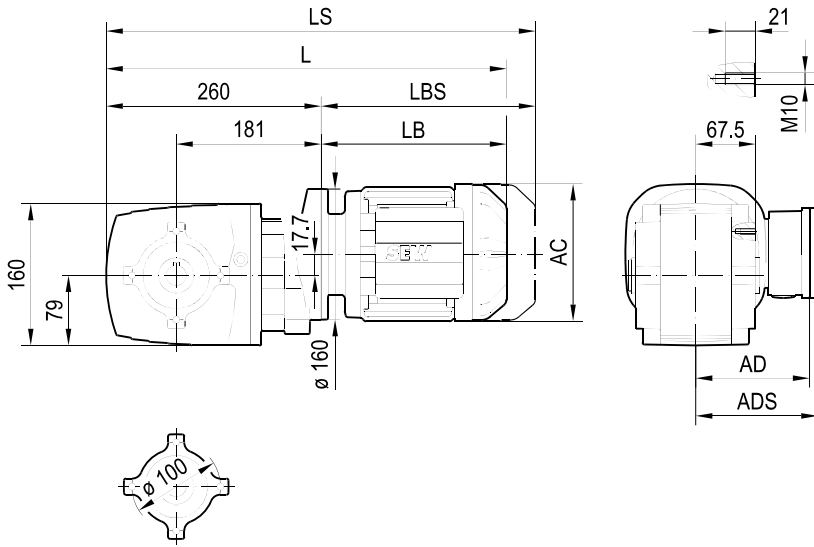
WHF47..



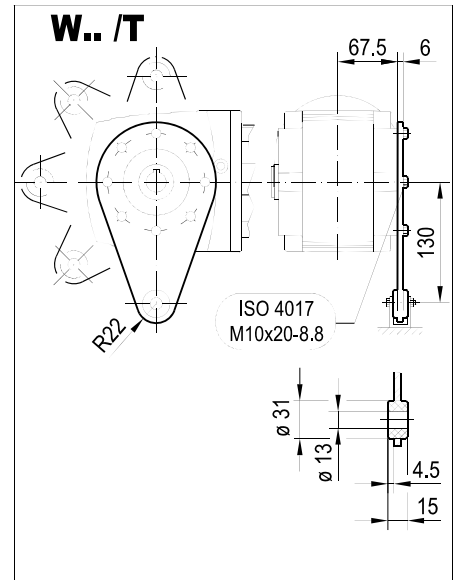
(-> 7.3)	DRN									
	63M	71MS	71M	80MK	80M	90S	90L	100LS	100L/LM	112M
AC	115	139	139	156	156	179	179	197	197	221
AD	98	118	118	128	128	140	140	157	157	170
ADS	98	129	129	139	139	150	150	158	158	172
L	458	459	479	490	535	537	569	565	615	646
LS	514	527	547	571	616	630	662	659	709	758
LB	198	199	219	230	275	277	309	305	355	386
LBS	254	267	287	311	356	370	402	399	449	498

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WA47..

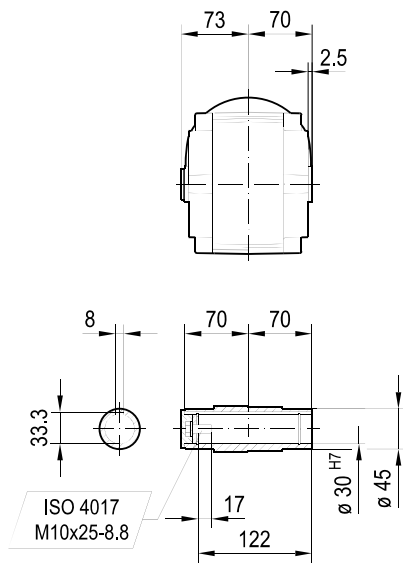


20 018 01 14

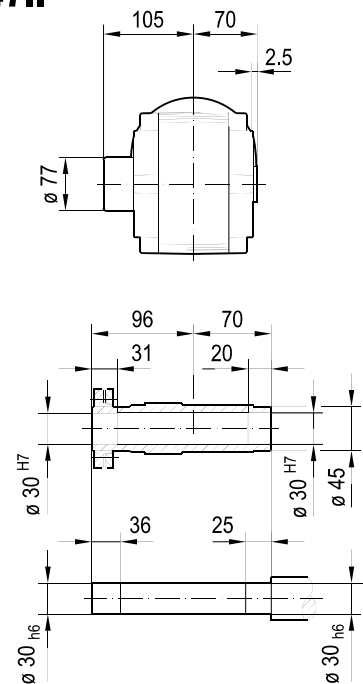


12

WA47..



WH47..

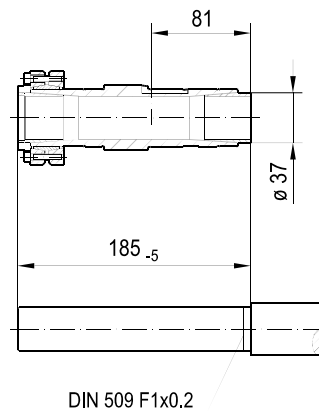
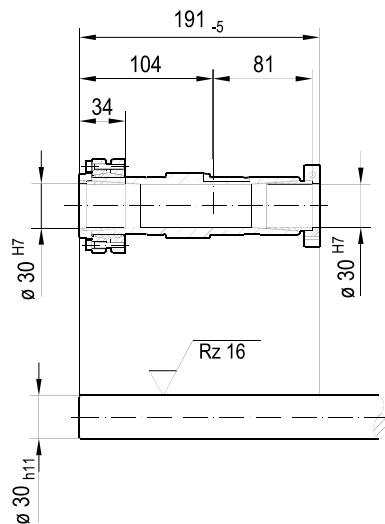
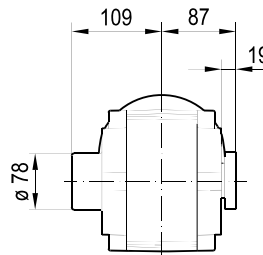
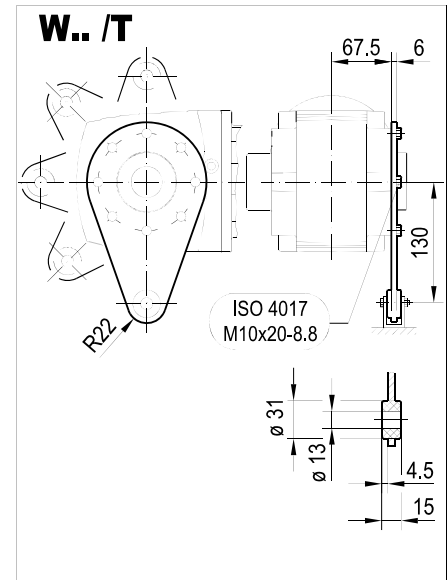
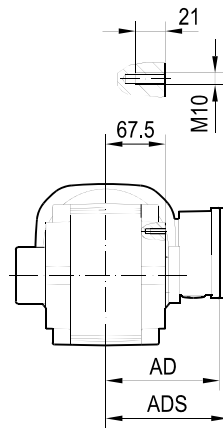
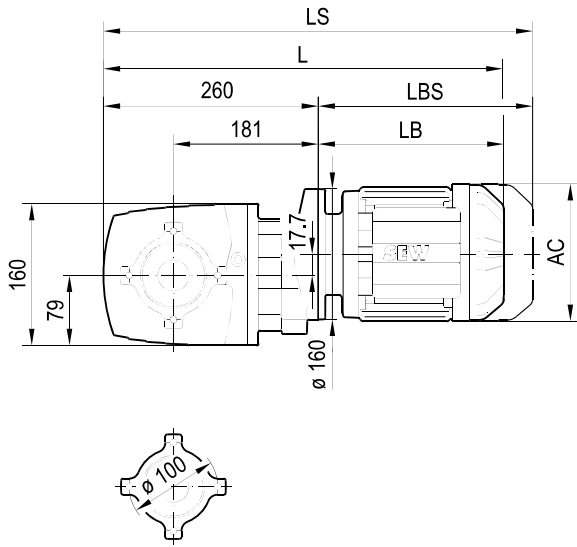


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(-> 7.3)	DRN									
	63M	71MS	71M	80MK	80M	90S	90L	100LS	100L/LM	112M
AC	115	139	139	156	156	179	179	197	197	221
AD	98	118	118	128	128	140	140	157	157	170
ADS	98	129	129	139	139	150	150	158	158	172
L	458	459	479	490	535	537	569	565	615	646
LS	514	527	547	571	616	630	662	659	709	758
LB	198	199	219	230	275	277	309	305	355	386
LBS	254	267	287	311	356	370	402	399	449	498

20 019 01 14

WT47..

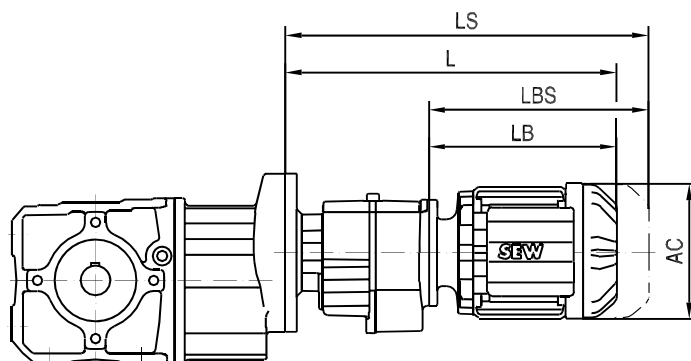


(-> 7.3)	DRN									
	63M	71MS	71M	80MK	80M	90S	90L	100LS	100L/LM	112M
AC	115	139	139	156	156	179	179	197	197	221
AD	98	118	118	128	128	140	140	157	157	170
ADS	98	129	129	139	139	150	150	158	158	172
L	458	459	479	490	535	537	569	565	615	646
LS	514	527	547	571	616	630	662	659	709	758
LB	198	199	219	230	275	277	309	305	355	386
LBS	254	267	287	311	356	370	402	399	449	498

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12.6 W..R..DRN.. dimension sheets in mm

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(→ 181)		AC	L	LS	LB	LBS
W..37RF17	DRN63MS	115	365	421	190	246
	DRN63M	115	379	435	204	260
	DRN71MS	139	381	448	206	273
	DRN71M	139	401	468	226	293
W..47RF17	DRN63MS	115	365	421	190	246
	DRN63M	115	379	435	204	260
	DRN71MS	139	381	448	206	273
	DRN71M	139	401	468	226	293
	DRN80M	156	452	533	277	358