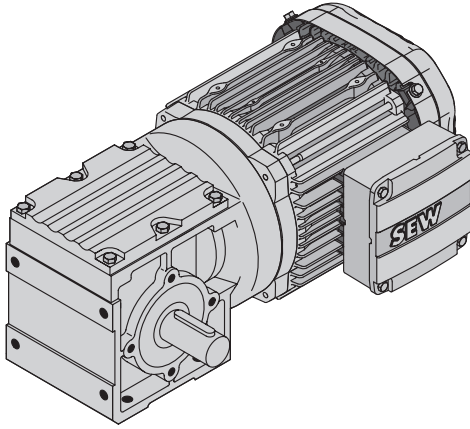
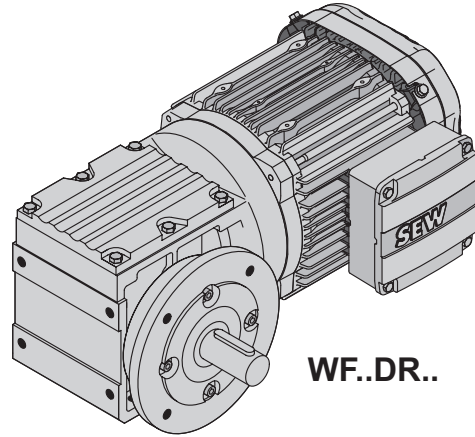


12 SPIROPLAN® gearmotors

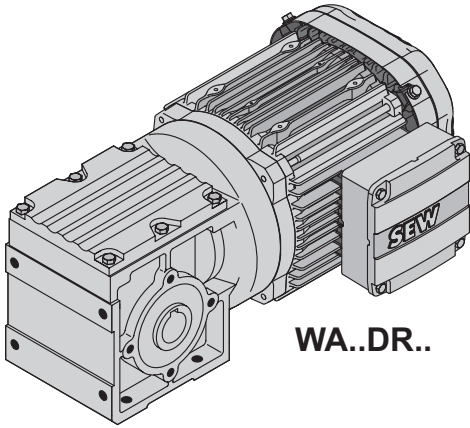
12.1 W..DRN.. designs



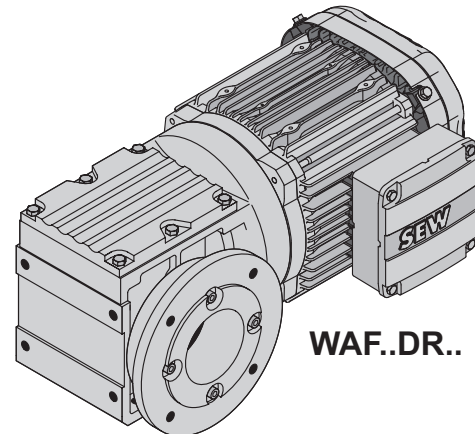
W..DR..



WF..DR..



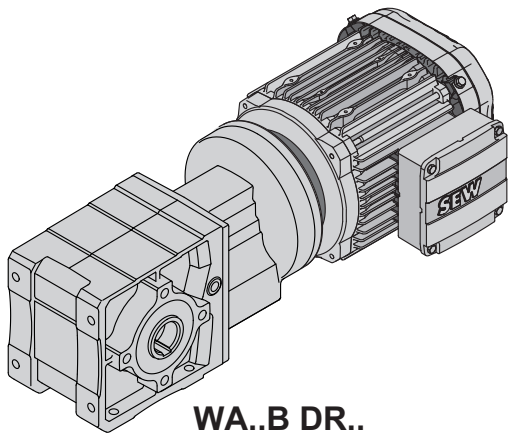
WA..DR..



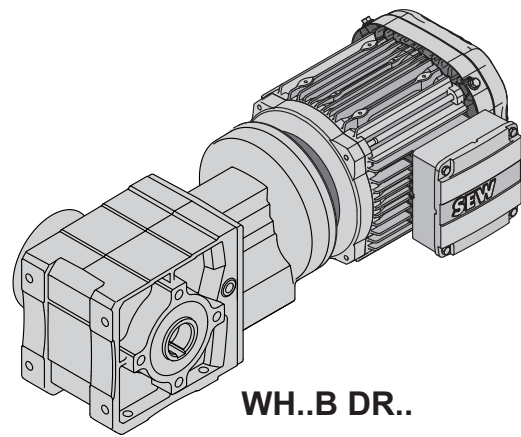
WAF..DR..

8665099019

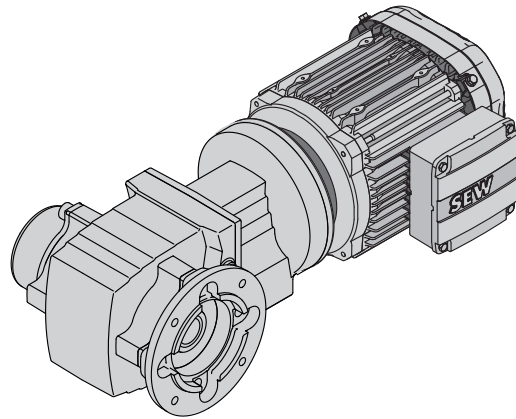
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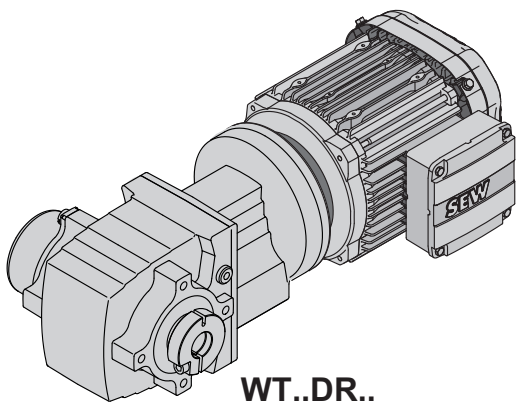
WA..B DR..



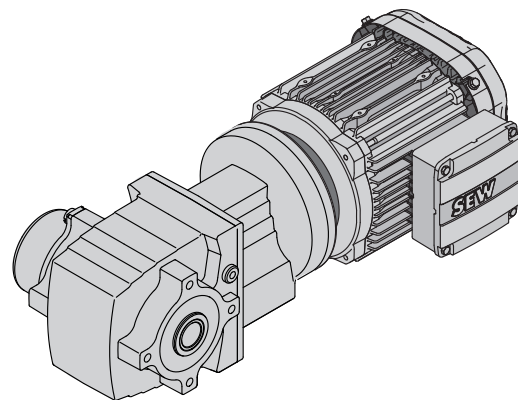
WH..B DR..



WHF..DR..



WT..DR..





WH..DR..


8665100939

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12.2 Possible geometrical combinations of W..DRN..



W10, $n_e=1400$ 1/min					25 Nm
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\varphi_{(R)}$ '	i	DT56M DT56L
 1					
19	25	1960	-	75.00*	
23	25	1960	-	60.00*	
29	25	1960	-	48.00*	
36	25	1960	-	39.00*	
43	25	1960	-	32.50*	
51	24	1970	-	27.50*	
57	25	1960	-	24.50*	
72	25	1960	-	19.50*	
85	20	1990	-	16.50*	
98	22	1980	-	14.33	
137	13	1990	-	10.25*	
171	12	1850	-	8.20*	
213	12	1740	-	6.57	

W20, $n_e=1400$ 1/min					40 Nm
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\varphi_{(R)}$ '	i	DR63S DR63M DR63L DRS71S DRS71M
 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, $n_e=1400$ 1/min					70 Nm
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\varphi_{(R)}$ '	i	DR63S DR63M DR63L DRS71S DRS71M DRN80M
 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*	
51	70	3000	-	27.50*	
57	70	3000	-	24.50*	


W30, n _e =1400 1/min					70 Nm	
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(R) °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M
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 1/min					110 Nm		
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(R) °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L
 2							
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 1/min					110 Nm		
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(R) °	i	DR63S DR63M DR63L DRS71S DRS71M		
 2  3							
0.32	110	3320	-	4402			
0.37	110	3320	-	3795			
0.43	110	3320	-	3272			

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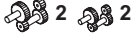
W37R17, $n_e=1400$ 1/min					110 Nm
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ '	i	DR63S DR63M DR63L DRS71S DRS71M
0.48	110	3320	-	2899	
0.55	110	3320	-	2558	
0.59	110	3320	-	2382	
0.64	110	3320	-	2172	
0.72	110	3320	-	1952	
0.78	110	3320	-	1795	
0.88	110	3320	-	1593	
0.96	110	3320	-	1463	
1.1	110	3320	-	1298	
1.9	110	3320	-	754	
2.1	110	3320	-	669	
 2  2					
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	

W47, $n_e=1400$ 1/min					180 Nm				
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ '	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L	DRN112M
 2									
19	180	6400	-	74.98					
20	180	6400	-	68.93					
24	180	6400	-	58.98					
27	180	6230	-	51.12					

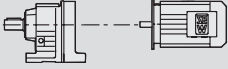

W47, n _e =1400 1/min					180 Nm				
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(/R) '	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L	DRN112M
29	180	6040	-	47.78					
34	180	5650	-	41.30					
40	180	5230	-	35.09					
44	160	5560	-	31.62					
45	180	4950	-	31.33					
51	160	5220	-	27.41					
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					

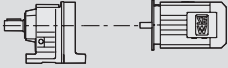

W47R17, n _e =1400 1/min					180 Nm					
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(/R) '	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M				
 2  3										
0.29	180	6400	-	4815						
0.34	180	6400	-	4173						
0.36	180	6400	-	3870						
0.39	180	6400	-	3598						
0.42	180	6400	-	3354						
0.44	180	6400	-	3171						
0.51	180	6400	-	2748						
0.58	180	6400	-	2425						
0.62	180	6400	-	2258						
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						

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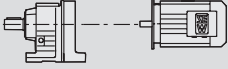

W47R17, $n_e=1400$ 1/min					180 Nm	
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ '	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M
1.9	180	6400	-	754		
						
1.1	180	6400	-	1290		
1.2	180	6400	-	1183		
1.3	180	6400	-	1042		
1.5	180	6400	-	956		
1.6	180	6400	-	869		
2.1	180	6400	-	661		
2.3	180	6400	-	596		
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		

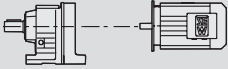

12.3 W..DRN.. selection tables in kW

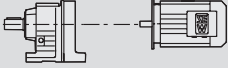

P_m = 0.09 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
17	20	75.00*	1800	1.25						
22	17	60.00*	1800	1.45						
27	16	48.00*	1800	1.55						
33	15	39.00*	1800	1.70						
40	13	32.50*	1800	1.90						
47	12	27.50*	1800	2.0	W	10	DT	56M4	5.3	757
53	11	24.50*	1800	2.3	WF	10	DT	56M4	5.5	758
67	9.4	19.50*	1800	2.6	WA	10	DT	56M4	5.3	759
79	8.4	16.50*	1800	2.4	WAF	10	DT	56M4	5.5	758
91	7.6	14.33	1800	2.9						
127	5.8	10.25*	1800	2.2						
159	4.8	8.20*	1800	2.5						
198	4.0	6.57	1800	3.0						

P_m = 0.12 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
3.8	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	DR	63S4	13	777
9.8	60	141	3910	1.80	WF	37R17	DR	63S4	13	777
11	54	125	3960	2.0	WA	37R17	DR	63S4	13	777
13	48	109	4000	2.3	WAF	37R17	DR	63S4	13	777
14	43	96	4030	2.6						
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	2.8						
22	36	63.33	4060	3.1	W	37	DR	63S4	10	767
26	31	53.92	4080	3.5	WF	37	DR	63S4	10	768
30	27	46.49	4100	4.0	WA	37	DR	63S4	10	770
36	23	37.88	4110	4.8	WAF	37	DR	63S4	10	768
40	24	34.52	4110	3.8						
44	22	31.67	4120	4.1						
12	40	75.00*	3000	1.75	W	30	DR	63M6	9.0	763
15	38	60.00*	3000	1.85	WF	30	DR	63M6	9.4	764
28	25	32.50*	3000	2.8	WA	30	DR	63M6	8.8	766
33	24	27.50*	3000	3.0	WAF	30	DR	63M6	9.1	765
18	28	75.00*	3000	2.5	W	30	DR	63S4	9.0	763
23	26	60.00*	3000	2.7	WF	30	DR	63S4	9.4	764
29	23	48.00*	3000	3.1	WA	30	DR	63S4	8.8	766
35	20	39.00*	3000	3.4	WAF	30	DR	63S4	9.1	765
42	17	32.50*	3000	4.1						
12	36	75.00*	2200	1.10	W	20	DR	63M6	6.6	760
15	32	60.00*	2200	1.25	WF	20	DR	63M6	6.8	761
28	27	32.50*	2200	1.50	WA	20	DR	63M6	6.3	762
33	22	27.50*	2200	1.80	WAF	20	DR	63M6	6.3	761

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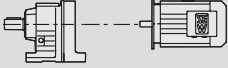

P_m = 0.12 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
18	25	75.00*	2200	1.60						
23	22	60.00*	2200	1.80						
29	20	48.00*	2200	1.95						
35	19	39.00*	2200	2.2						
42	18	32.50*	2200	2.2						
50	15	27.50*	2200	2.6	W	20	DR	63S4	6.6	760
56	14	24.50*	2200	2.9	WF	20	DR	63S4	6.8	761
71	12	19.50*	2200	3.0	WA	20	DR	63S4	6.3	762
84	10	16.50*	2200	2.9	WAF	20	DR	63S4	6.3	761
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						
17	27	75.00*	1800	0.95						
22	23	60.00*	1800	1.05						
27	21	48.00*	1800	1.15						
33	20	39.00*	1800	1.30						
40	18	32.50*	1800	1.40						
47	16	27.50*	1800	1.55	W	10	DT	56L4	5.3	757
53	15	24.50*	1800	1.70	WF	10	DT	56L4	5.5	758
67	13	19.50*	1800	2.00	WA	10	DT	56L4	5.3	759
79	11	16.50*	1800	1.80	WAF	10	DT	56L4	5.5	758
91	10	14.33	1800	2.2						
127	7.7	10.25*	1800	1.70						
159	6.3	8.20*	1800	1.90						
198	5.3	6.57	1800	2.3						

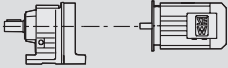

P_m = 0.18 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
4.2	225	318	6080	0.80						
4.9	193	270	6320	0.95						
5.6	178	237	6420	1.00						
6.3	156	210	6560	1.15						
7.2	135	183	6680	1.35						
8.3	122	159	6760	1.50	W	47R17	DR	63M4	18	777
9.3	108	141	6840	1.65	WF	47R17	DR	63M4	19	777
11	114	124	6900	1.40	WA	47R17	DR	63M4	17	777
11	93	120	6930	1.95	WAF	47R17	DR	63M4	18	777
13	96	105	6990	1.65						
14	90	95	7020	1.75						
16	79	85	7070	2.0						
17	74	77	7090	2.2						
18	67	72	7120	2.4						
6.4	134	207	580	0.80						
7.2	121	184	2620	0.90						
8.2	110	160	3320	1.00						
9.3	99	141	3500	1.10						
11	88	125	3630	1.25	W	37R17	DR	63M4	13	777
12	79	109	3740	1.40	WF	37R17	DR	63M4	13	777
14	71	96	3820	1.55	WA	37R17	DR	63M4	13	777
16	61	82	3910	1.80	WAF	37R17	DR	63M4	13	777
18	64	73	3890	1.40						
21	56	63	3940	1.60						
25	48	53	4000	1.85						
27	44	48	4020	2.0						
18	70	74.98	7060	2.6						
19	65	68.93	7080	2.8						
22	56	58.98	7130	3.2	W	47	DR	63M4	16	772
26	50	51.12	7160	3.6	WF	47	DR	63M4	16	773
28	47	47.78	7180	3.8	WA	47	DR	63M4	14	775
32	41	41.30	7210	4.4	WAF	47	DR	63M4	15	773
42	35	31.62	7020	4.6						

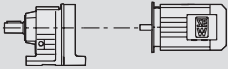

P_m = 0.18 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
19	60	69.05	3920	1.85						
21	56	63.33	3950	1.95						
24	48	53.92	4000	2.3						
28	43	46.49	4030	2.6						
35	36	37.88	4070	3.1	W	37	DR	63M4	10	767
38	37	34.52	4060	2.4	WF	37	DR	63M4	10	768
42	34	31.67	4070	2.6	WA	37	DR	63M4	10	770
48	27	27.78	4100	4.1	WAF	37	DR	63M4	10	768
49	29	26.96	4090	3.1						
57	26	23.25	4100	3.5						
62	21	21.33	4120	5.2						
70	21	18.94	4120	4.3						
12	62	75.00*	3000	1.10	W	30	DR	63L6	9.8	763
14	58	60.00*	3000	1.20	WF	30	DR	63L6	10	764
27	39	32.50*	3000	1.80	WA	30	DR	63L6	9.5	766
32	37	27.50*	3000	1.90	WAF	30	DR	63L6	9.8	765
18	44	75.00*	3000	1.60						
22	40	60.00*	3000	1.75						
28	35	48.00*	3000	2.00						
34	32	39.00*	3000	2.2						
41	27	32.50*	3000	2.6	W	30	DR	63M4	9.0	763
48	25	27.50*	3000	2.8	WF	30	DR	63M4	9.4	764
54	23	24.50*	3000	3.0	WA	30	DR	63M4	8.8	766
68	20	19.50*	3000	3.6	WAF	30	DR	63M4	9.1	765
81	17	16.33	3000	3.5						
92	15	14.33	3000	3.9						
129	12	10.25*	3000	4.3						
161	9.5	8.20*	3000	4.2						
201	8.0	6.57	2980	5.0						
111	12	24.50*	3000	6.0	W	30	DR	63S2	9.0	763
139	9.9	19.50*	3000	7.1	WF	30	DR	63S2	9.4	764
167	8.5	16.33	3000	7.1	WA	30	DR	63S2	8.8	766
190	7.7	14.33	3000	7.8	WAF	30	DR	63S2	9.1	765
265	5.7	10.25*	2720	8.7						
332	4.7	8.20*	2540	8.6						
14	49	60.00*	2200	0.80	W	20	DR	63L6	7.3	760
32	35	27.50*	2200	1.15	WF	20	DR	63L6	7.4	761
45	27	19.50*	2200	1.30	WA	20	DR	63L6	7.0	762
					WAF	20	DR	63L6	7.0	761
18	39	75.00*	2200	1.00						
22	34	60.00*	2200	1.15						
28	32	48.00*	2200	1.25						
34	29	39.00*	2200	1.40						
41	28	32.50*	2200	1.40	W	20	DR	63M4	6.6	760
48	24	27.50*	2200	1.70	WF	20	DR	63M4	6.8	761
54	22	24.50*	2200	1.85	WA	20	DR	63M4	6.3	762
68	19	19.50*	2200	1.90	WAF	20	DR	63M4	6.3	761
80	16	16.50*	2200	1.85						
92	15	14.33	2200	2.0						
129	11	10.25*	2140	2.2						
161	9.2	8.20*	2010	2.2						
201	7.7	6.57	1890	2.6						
111	11	24.50*	2200	3.6	W	20	DR	63S2	6.6	760
139	9.4	19.50*	2090	3.7	WF	20	DR	63S2	6.8	761
165	8.2	16.50*	1980	3.7	WA	20	DR	63S2	6.3	762
190	7.5	14.33	1910	4.0	WAF	20	DR	63S2	6.3	761
265	5.6	10.25*	1720	4.5						
332	4.6	8.20*	1610	4.4						

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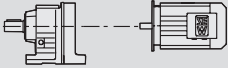

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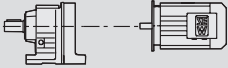

P_m = 0.25 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
7.1	196	183	6300	0.90						
8.2	175	159	6430	1.05						
9.2	157	141	6550	1.15						
11	164	124	6630	0.95	W	47R17	DR	63L4	19	777
11	134	120	6690	1.35	WF	47R17	DR	63L4	20	777
12	139	105	6760	1.15	WA	47R17	DR	63L4	18	777
14	129	95	6820	1.25	WAF	47R17	DR	63L4	18	777
15	114	85	6900	1.40						
17	106	77	6940	1.50						
18	97	72	6980	1.65						
10	128	125	1880	0.85						
12	114	109	3220	0.95						
14	102	96	3450	1.10	W	37R17	DR	63L4	14	777
16	88	82	3640	1.25	WF	37R17	DR	63L4	14	777
18	92	73	3580	0.95	WA	37R17	DR	63L4	14	777
21	82	63	3720	1.10	WAF	37R17	DR	63L4	14	777
24	70	53	3840	1.30						
27	64	48	3880	1.40						
12	136	74.98	6680	1.30	W	47	DRS	71S6	18	772
13	127	68.93	6730	1.40	WF	47	DRS	71S6	19	773
					WA	47	DRS	71S6	17	775
					WAF	47	DRS	71S6	17	773
17	98	74.98	6900	1.85	W	47	DR	63L4	16	772
19	91	68.93	6940	2.00	WF	47	DR	63L4	17	773
22	79	58.98	7000	2.3	WA	47	DR	63L4	15	775
25	70	51.12	7060	2.6	WAF	47	DR	63L4	16	773
27	66	47.78	7080	2.7						
19	85	69.05	3680	1.30						
21	78	63.33	3750	1.40						
24	68	53.92	3850	1.60						
28	60	46.49	3920	1.85						
34	50	37.88	3990	2.2						
38	52	34.52	3980	1.75						
41	48	31.67	4000	1.90						
47	38	27.78	4060	2.9	W	37	DR	63L4	11	767
48	41	26.96	4040	2.2	WF	37	DR	63L4	11	768
56	36	23.25	4060	2.5	WA	37	DR	63L4	11	770
61	30	21.33	4090	3.7	WAF	37	DR	63L4	11	768
69	30	18.94	4090	3.0						
83	25	15.67	4110	3.6						
94	22	13.89	4110	4.0						
102	21	12.70	4120	3.3						
112	20	11.65	4120	3.6						
122	17	10.67	3910	5.2						
131	17	9.92	3920	4.2						
12	85	75.00*	3000	0.85	W	30	DRS	71S6	12	763
15	79	60.00*	3000	0.90	WF	30	DRS	71S6	12	764
28	53	32.50*	3000	1.35	WA	30	DRS	71S6	11	766
37	46	24.50*	3000	1.50	WAF	30	DRS	71S6	12	765
46	39	19.50*	3000	1.80						
17	61	75.00*	3000	1.15						
22	57	60.00*	3000	1.25						
27	50	48.00*	3000	1.40						
33	45	39.00*	3000	1.55						
40	38	32.50*	3000	1.85						
47	35	27.50*	3000	2.00	W	30	DR	63L4	9.8	763
53	33	24.50*	3000	2.1	WF	30	DR	63L4	10	764
67	28	19.50*	3000	2.5	WA	30	DR	63L4	9.5	766
80	24	16.33	3000	2.5	WAF	30	DR	63L4	9.8	765
91	22	14.33	3000	2.8						
127	16	10.25*	3000	3.1						
159	13	8.20*	3000	3.0						
198	11	6.57	2970	3.6						

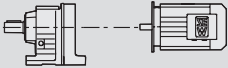

P_m = 0.25 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
109	17	24.50*	3000	4.2						
136	14	19.50*	3000	5.0	W	30	DR	63M2	9.0	763
163	12	16.33	3000	5.0	WF	30	DR	63M2	9.4	764
186	11	14.33	3000	5.5	WA	30	DR	63M2	8.8	766
260	8.1	10.25*	2720	6.2	WAF	30	DR	63M2	9.1	765
324	6.6	8.20*	2540	6.0						
33	47	27.50*	2200	0.85						
37	43	24.50*	2200	0.95	W	20	DRS	71S6	9.1	760
46	37	19.50*	2200	0.95	WF	20	DRS	71S6	9.2	761
62	30	14.33	2200	1.00	WA	20	DRS	71S6	8.8	762
87	22	10.25*	2200	1.10	WAF	20	DRS	71S6	8.8	761
109	19	8.20*	2190	1.10						
136	16	6.57	2090	1.30						
22	48	60.00*	2200	0.85						
27	45	48.00*	2200	0.90						
33	41	39.00*	2200	1.00						
40	40	32.50*	2200	1.00						
47	34	27.50*	2200	1.20	W	20	DR	63L4	7.3	760
53	30	24.50*	2200	1.30	WF	20	DR	63L4	7.4	761
67	26	19.50*	2200	1.35	WA	20	DR	63L4	7.0	762
79	23	16.50*	2200	1.30	WAF	20	DR	63L4	7.0	761
91	21	14.33	2200	1.45						
127	16	10.25*	2100	1.60						
159	13	8.20*	1970	1.55						
198	11	6.57	1870	1.85						
82	21	32.50*	2200	1.95						
97	17	27.50*	2200	2.3	W	20	DR	63M2	6.6	760
109	16	24.50*	2190	2.6	WF	20	DR	63M2	6.8	761
136	13	19.50*	2050	2.6	WA	20	DR	63M2	6.3	762
161	12	16.50*	1950	2.6	WAF	20	DR	63M2	6.3	761
186	11	14.33	1880	2.8						
260	7.9	10.25*	1710	3.2						
324	6.5	8.20*	1600	3.1						

P_m = 0.37 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
9.8	220	141	6110	0.80						
11	192	120	6320	0.95	W	47R17	DRS	71S4	21	777
13	198	105	6430	0.80	WF	47R17	DRS	71S4	21	777
15	183	95	6520	0.90	WA	47R17	DRS	71S4	19	777
16	163	85	6640	1.00	WAF	47R17	DRS	71S4	20	777
18	150	77	6710	1.05						
19	138	72	6770	1.15						
17	126	82	2020	0.85	W	37R17	DRS	71S4	15	777
26	100	53	3480	0.90	WF	37R17	DRS	71S4	15	777
29	91	48	3600	1.00	WA	37R17	DRS	71S4	15	777
					WAF	37R17	DRS	71S4	15	777
12	200	74.98	6270	0.90	W	47	DRS	71M6	19	772
13	186	68.93	6360	0.95	WF	47	DRS	71M6	20	773
15	162	58.98	6520	1.10	WA	47	DRS	71M6	18	775
18	143	51.12	6640	1.25	WAF	47	DRS	71M6	19	773
19	134	47.78	6690	1.35						

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P_m = 0.37 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
18	138	74.98	6670	1.30						
20	128	68.93	6730	1.40						
23	111	58.98	6820	1.60						
27	98	51.12	6900	1.85						
29	92	47.78	6930	1.95						
33	81	41.30	6940	2.2						
39	70	35.09	6660	2.6						
44	69	31.62	6560	2.3						
44	63	31.33	6460	2.9	W	47	DRS	71S4	18	772
50	60	27.41	6310	2.7	WF	47	DRS	71S4	19	773
52	54	26.76	6200	3.3	WA	47	DRS	71S4	17	775
54	56	25.62	6200	2.8	WAF	47	DRS	71S4	17	773
55	51	25.07	6090	3.5						
62	49	22.15	5950	3.3						
73	42	18.82	5680	3.8						
82	38	16.80	5500	4.2						
96	32	14.35	5250	4.9						
112	30	12.30	5120	3.7						
129	26	10.66	4890	4.3						
139	24	9.96	4790	4.6						
22	110	63.33	3320	1.00						
26	96	53.92	3540	1.15						
30	84	46.49	3680	1.30						
36	70	37.88	3830	1.55						
40	73	34.52	3810	1.25						
44	67	31.67	3860	1.35						
50	53	27.78	3970	2.1						
51	58	26.96	3930	1.55	W	37	DRS	71S4	13	767
59	50	23.25	3990	1.80	WF	37	DRS	71S4	13	768
65	42	21.33	4030	2.6	WA	37	DRS	71S4	13	770
73	42	18.94	4040	2.2	WAF	37	DRS	71S4	13	768
88	35	15.67	4070	2.6						
99	31	13.89	4030	2.9						
109	30	12.70	4090	2.3						
118	27	11.65	3990	2.6						
129	24	10.67	3740	3.7						
139	23	9.92	3800	3.0						
161	20	8.55	3630	3.5						
18	86	75.00*	3000	0.80						
23	80	60.00*	3000	0.90						
29	69	48.00*	3000	1.00						
35	63	39.00*	3000	1.10						
42	53	32.50*	3000	1.30						
50	49	27.50*	3000	1.40	W	30	DRS	71S4	12	763
56	46	24.50*	3000	1.55	WF	30	DRS	71S4	12	764
71	39	19.50*	3000	1.80	WA	30	DRS	71S4	11	766
84	33	16.33	3000	1.80	WAF	30	DRS	71S4	12	765
96	30	14.33	3000	2.00						
135	23	10.25*	3000	2.2						
168	19	8.20*	3000	2.1						
210	16	6.57	2870	2.6						
108	25	24.50*	3000	2.8						
136	21	19.50*	3000	3.4	W	30	DR	63L2	9.8	763
162	18	16.33	3000	3.4	WF	30	DR	63L2	10	764
185	16	14.33	2960	3.7	WA	30	DR	63L2	9.5	766
259	12	10.25*	2690	4.1	WAF	30	DR	63L2	9.8	765
323	9.9	8.20*	2510	4.0						
50	47	27.50*	2200	0.85						
56	43	24.50*	2200	0.95						
71	37	19.50*	2200	0.95	W	20	DRS	71S4	9.1	760
84	32	16.50*	2180	0.95	WF	20	DRS	71S4	9.2	761
96	29	14.33	2130	1.00	WA	20	DRS	71S4	8.8	762
135	22	10.25*	1970	1.15	WAF	20	DRS	71S4	8.8	761
168	18	8.20*	1870	1.10						
210	15	6.57	1800	1.30						

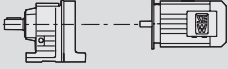

P_m = 0.37 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
108	23	24.50*	2080	1.70						
136	20	19.50*	1970	1.75	W	20	DR	63L2	7.3	760
161	17	16.50*	1880	1.75	WF	20	DR	63L2	7.4	761
185	16	14.33	1820	1.90	WA	20	DR	63L2	7.0	762
259	12	10.25*	1660	2.1	WAF	20	DR	63L2	7.0	761
323	9.6	8.20*	1560	2.1						

P_m = 0.55 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
18	205	51.12	6200	0.85						
19	198	47.78	6280	0.90						
22	174	41.30	6440	1.05	W	47	DRS	80S6	22	772
26	150	35.09	6590	1.20	WF	47	DRS	80S6	22	773
29	151	31.62	6700	1.05	WA	47	DRS	80S6	20	775
29	136	31.33	6610	1.35	WAF	47	DRS	80S6	21	773
33	132	27.41	6570	1.20						
36	124	25.62	6480	1.30						
18	205	74.98	6220	0.85						
20	192	68.93	6320	0.95						
23	168	58.98	6480	1.05						
27	147	51.12	6610	1.20						
28	139	47.78	6640	1.30	W	47	DRS	71M4	19	772
33	122	41.30	6460	1.50	WF	47	DRS	71M4	20	773
39	105	35.09	6250	1.70	WA	47	DRS	71M4	18	775
43	104	31.62	6220	1.55	WAF	47	DRS	71M4	19	773
43	95	31.33	6100	1.90						
50	90	27.41	6020	1.75						
53	85	25.62	5930	1.90						
36	106	37.88	3390	1.05						
43	101	31.67	3460	0.90						
49	80	27.78	3730	1.35						
50	87	26.96	3650	1.05						
59	76	23.25	3780	1.20						
64	63	21.33	3890	1.75						
72	63	18.94	3900	1.45						
87	52	15.67	3960	1.70	W	37	DRS	71M4	14	767
98	47	13.89	3850	1.95	WF	37	DRS	71M4	14	768
107	45	12.70	4010	1.55	WA	37	DRS	71M4	14	770
117	41	11.65	3910	1.70	WAF	37	DRS	71M4	14	768
128	36	10.67	3610	2.5						
137	35	9.92	3730	2.00						
159	30	8.55	3580	2.3						
195	25	6.97	3360	2.8						
236	21	5.77	3180	3.4						
266	18	5.11	3060	3.8						
346	14	3.93	2820	4.9						
42	80	32.50*	3000	0.90						
49	74	27.50*	3000	0.95						
56	69	24.50*	3000	1.00	W	30	DRS	71M4	13	763
83	50	16.33	3000	1.20	WF	30	DRS	71M4	13	764
95	46	14.33	3000	1.30	WA	30	DRS	71M4	13	766
133	34	10.25*	3000	1.45	WAF	30	DRS	71M4	13	765
166	28	8.20*	2990	1.40						
207	24	6.57	2810	1.70						
115	35	24.50*	3000	2.0						
144	29	19.50*	3000	2.4	W	30	DRS	71M2	13	763
172	25	16.33	2940	2.4	WF	30	DRS	71M2	13	764
196	23	14.33	2840	2.6	WA	30	DRS	71M2	13	766
274	17	10.25*	2590	3.0	WAF	30	DRS	71M2	13	765
343	14	8.20*	2420	2.9						

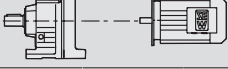

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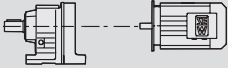

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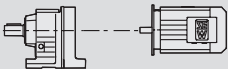

P_m = 0.55 kW

n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
115	33	24.50*	1900	1.20						
144	28	19.50*	1810	1.25						
170	24	16.50*	1740	1.25	W	20	DRS	71M2	10	760
196	22	14.33	1700	1.35	WF	20	DRS	71M2	11	761
274	17	10.25*	1570	1.50	WA	20	DRS	71M2	10	762
343	14	8.20*	1480	1.50	WAF	20	DRS	71M2	10	761
428	11	6.57	1420	1.75						

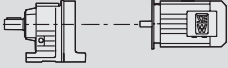

P_m = 0.75 kW

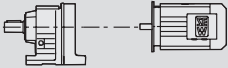

n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
24	215	58.98	6090	0.85						
28	191	51.12	6010	0.95						
30	180	47.78	5960	1.00						
35	158	41.30	5850	1.15						
41	136	35.09	5710	1.30						
46	134	31.62	5770	1.20	W	47	DRN	80M4	24	772
46	123	31.33	5600	1.45	WF	47	DRN	80M4	25	773
53	117	27.41	5610	1.35	WA	47	DRN	80M4	23	775
54	106	26.76	5450	1.70	WAF	47	DRN	80M4	24	773
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	W	37	DRN	80M4	18	767
104	60	13.89	3590	1.50	WF	37	DRN	80M4	18	768
135	47	10.67	3390	1.90	WA	37	DRN	80M4	18	770
145	45	9.92	3590	1.55	WAF	37	DRN	80M4	18	768
168	39	8.55	3440	1.80						
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						
88	65	16.33	3000	0.90	W	30	DRN	80M4	17	763
100	59	14.33	3000	1.00	WF	30	DRN	80M4	18	764
140	44	10.25*	3000	1.15	WA	30	DRN	80M4	17	766
176	36	8.20*	2850	1.10	WAF	30	DRN	80M4	17	765
219	31	6.57	2700	1.30						

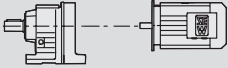

P_m = 1.1 kW											
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B						m kg	
41	198	35.09	4910	0.90							
46	194	31.62	5110	0.80							
46	178	31.33	4880	1.00							
53	170	27.41	5030	0.95							
54	154	26.76	4820	1.15							
57	159	25.62	4990	1.00							
58	145	25.07	4780	1.25	W	47	DRN	90S4	30	772	
66	139	22.15	4890	1.15	WF	47	DRN	90S4	31	773	
77	119	18.82	4760	1.35	WA	47	DRN	90S4	29	775	
87	107	16.80	4670	1.50	WAF	47	DRN	90S4	30	773	
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	767	
170	57	8.55	3310	1.25	WF	37	DRN	90S4	24	768	
209	47	6.97	3140	1.50	WA	37	DRN	90S4	24	770	
252	39	5.77	2980	1.80	WAF	37	DRN	90S4	24	768	
285	34	5.11	2880	2.0							
371	26	3.93	2670	2.6							
455	22	3.20*	2520	3.2							

P_m = 1.5 kW											
n _a 1/min	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	772	
109	117	13.44	4140	1.35	WF	47	DRN	90L4	34	773	
129	99	11.32	4020	1.60	WA	47	DRN	90L4	32	775	
137	99	10.66	4310	1.10	WAF	47	DRN	90L4	33	773	
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	767	
210	63	6.97	3020	1.10	WF	37	DRN	90L4	27	768	
253	53	5.77	2880	1.35	WA	37	DRN	90L4	27	770	
286	47	5.11	2790	1.50	WAF	37	DRN	90L4	27	768	
372	36	3.93	2600	1.95							
457	29	3.20*	2460	2.4							

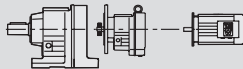

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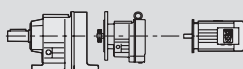

P_m = 2.2 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
101	184	14.35	3560	0.85						
108	173	13.44	3560	0.90						
128	147	11.32	3540	1.10						
168	119	8.61	3840	0.95						
198	101	7.32	3720	1.10	W	47	DRN	100LS4	38	772
222	91	6.53	3620	1.20	WF	47	DRN	100LS4	38	773
260	78	5.58	3500	1.40	WA	47	DRN	100LS4	36	775
277	73	5.23	3440	1.50	WAF	47	DRN	100LS4	37	773
329	61	4.40	3300	1.80						
373	54	3.89	3200	2.0						
444	46	3.27	3050	2.4						

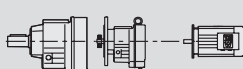

P_m = 3.0 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
223	123	6.53	3400	0.90						
261	105	5.58	3300	1.05	W	47	DRN	100L4	45	772
279	99	5.23	3260	1.10	WF	47	DRN	100L4	45	773
331	83	4.40	3150	1.30	WA	47	DRN	100L4	43	775
374	74	3.89	3060	1.50	WAF	47	DRN	100L4	44	773
446	62	3.27	2940	1.75						

P_m = 4.0 kW										
n _a 1/min	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	772
333	111	4.40	2960	1.00	WF	47	DRN	112M4	55	773
376	98	3.89	2890	1.10	WA	47	DRN	112M4	53	775
448	82	3.27	2800	1.35	WAF	47	DRN	112M4	53	773

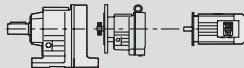

12.4 W..R..DRN.. selection tables for low output speeds in Nm

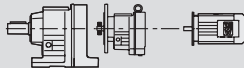

M_{a max} = 90 Nm								
n_a 1/min	i	F_{Ra}¹⁾ N					m kg	
18	73	3610	W	37R17	DR	63L4	14	777
			WF	37R17	DR	63L4	14	777
			WA	37R17	DR	63L4	14	777
			WAF	37R17	DR	63L4	14	777
22	63	3610	W	37R17	DRS	71S4	15	777
			WF	37R17	DRS	71S4	15	777
			WA	37R17	DRS	71S4	15	777
			WAF	37R17	DRS	71S4	15	777
26	53	3610	W	37R17	DRS	71S4	15	777
			WF	37R17	DRS	71S4	15	777
29	48	3610	W	37R17	DRS	71S4	15	777
			WF	37R17	DRS	71S4	15	777

M_{a max} = 110 Nm								
n_a 1/min	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	DR	63S4	13	777
0.64	2172	3320	WF	37R17	DR	63S4	13	777
0.71	1952	3320	WA	37R17	DR	63S4	13	777
0.77	1795	3320	WAF	37R17	DR	63S4	13	777
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	DR	63S4	13	777
2.6	532	3320	WF	37R17	DR	63S4	13	777
2.9	472	3320	WA	37R17	DR	63S4	13	777
3.2	434	3320	WAF	37R17	DR	63S4	13	777
3.6	384	3320						
3.8	359	3320						
4.2	327	3320						
4.8	286	3320						
5.0	267	3320	W	37R17	DR	63M4	13	777
5.7	233	3320	WF	37R17	DR	63M4	13	777
6.4	207	3320	WA	37R17	DR	63M4	13	777
7.2	184	3320	WAF	37R17	DR	63M4	13	777
8.2	160	3320						
9.2	141	3320	W	37R17	DR	63L4	14	777
10	125	3320	WF	37R17	DR	63L4	14	777
12	109	3320	WA	37R17	DR	63L4	14	777
			WAF	37R17	DR	63L4	14	777
14	96	3320	W	37R17	DRS	71S4	15	777
17	82	3320	WF	37R17	DRS	71S4	15	777
			WA	37R17	DRS	71S4	15	777
			WAF	37R17	DRS	71S4	15	777

M_{a max} = 160 Nm								
n_a 1/min	i	F_{Ra}¹⁾ N					m kg	
11	124	6650	W	47R17	DR	63L4	19	777
			WF	47R17	DR	63L4	20	777
			WA	47R17	DR	63L4	18	777
			WAF	47R17	DR	63L4	18	777

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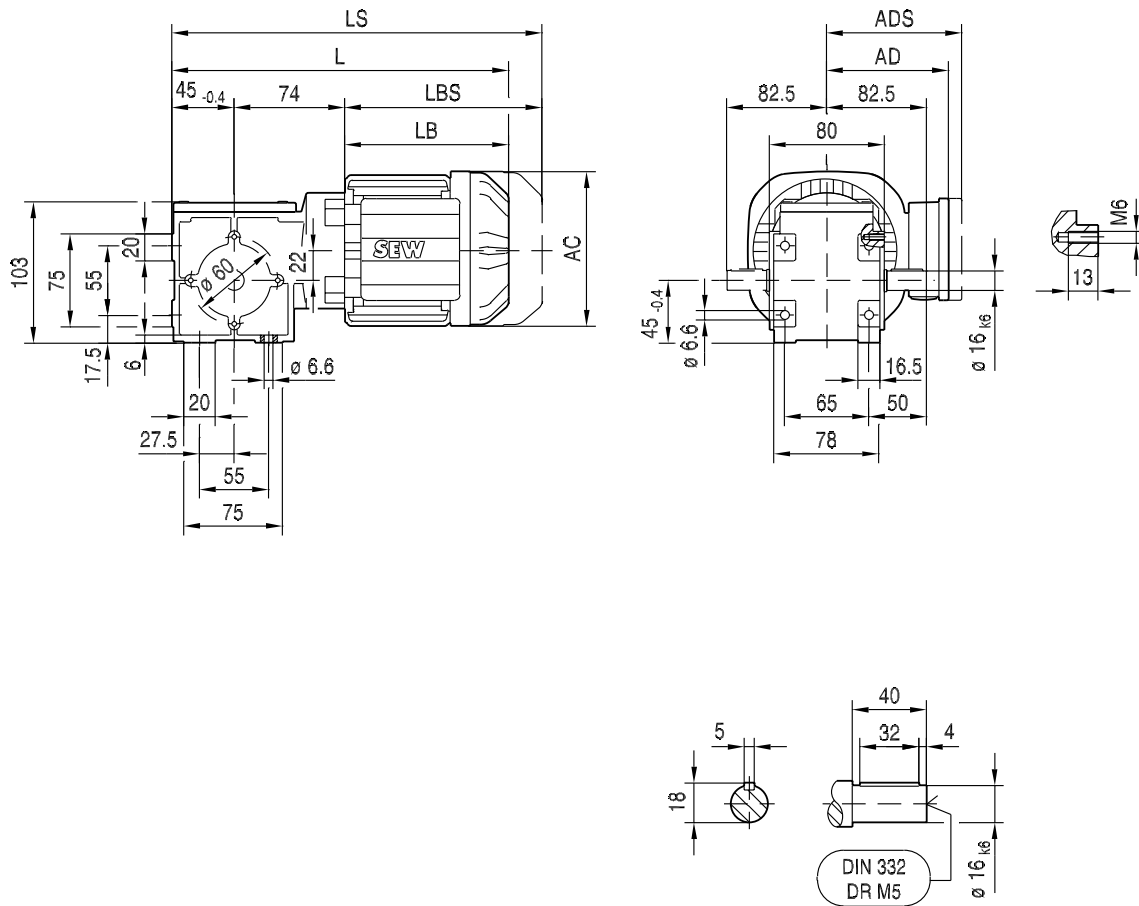
M_{a max} = 160 Nm								
n_a 1/min	i	$F_{Ra}^{(1)}$ N					m kg	
13	105	6650	W	47R17	DRS	71S4	21	777
15	95	6650	WF	47R17	DRS	71S4	21	777
16	85	6650	WA	47R17	DRS	71S4	19	777
			WAF	47R17	DRS	71S4	20	777
18	77	6650	W	47R17	DRS	71M4	22	777
19	72	6650	WF	47R17	DRS	71M4	23	777
			WA	47R17	DRS	71M4	21	777
			WAF	47R17	DRS	71M4	22	777

M_{a max} = 180 Nm								
n_a 1/min	i	$F_{Ra}^{(1)}$ N					m kg	
0.29	4815	6400						
0.33	4173	6400						
0.36	3870	6400						
0.38	3598	6400						
0.41	3354	6400						
0.44	3171	6400						
0.50	2748	6400						
0.57	2425	6400	W	47R17	DR	63S4	19	777
0.61	2258	6400	WF	47R17	DR	63S4	19	777
0.65	2111	6400	WA	47R17	DR	63S4	17	777
0.70	1959	6400	WAF	47R17	DR	63S4	18	777
0.77	1797	6400						
0.87	1595	6400						
0.93	1486	6400						
0.95	1448	6400						
1.2	1170	6400						
1.8	754	6400						
1.1	1290	6400						
1.2	1183	6400						
1.3	1042	6400						
1.4	956	6400	W	47R17	DR	63S4	18	777
1.6	869	6400	WF	47R17	DR	63S4	19	777
2.1	661	6400	WA	47R17	DR	63S4	17	777
2.3	596	6400	WAF	47R17	DR	63S4	18	777
2.6	536	6400						
2.9	473	6400						
3.2	434	6400						
3.4	386	6400						
3.7	359	6400	W	47R17	DR	63M4	18	777
4.2	318	6400	WF	47R17	DR	63M4	19	777
4.5	291	6400	WA	47R17	DR	63M4	17	777
4.9	270	6400	WAF	47R17	DR	63M4	18	777
5.0	265	6400						
5.5	237	6400	W	47R17	DR	63L4	19	777
6.2	210	6400	WF	47R17	DR	63L4	20	777
7.1	183	6400	WA	47R17	DR	63L4	18	777
			WAF	47R17	DR	63L4	18	777
8.7	159	6400	W	47R17	DRS	71S4	21	777
9.8	141	6400	WF	47R17	DRS	71S4	21	777
			WA	47R17	DRS	71S4	19	777
11	120	6400	WAF	47R17	DRS	71S4	20	777

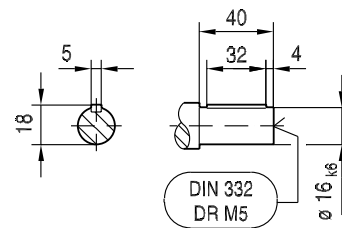
12.5 W..DRN.. dimension sheets in mm

W10..

20 001 00 14



12

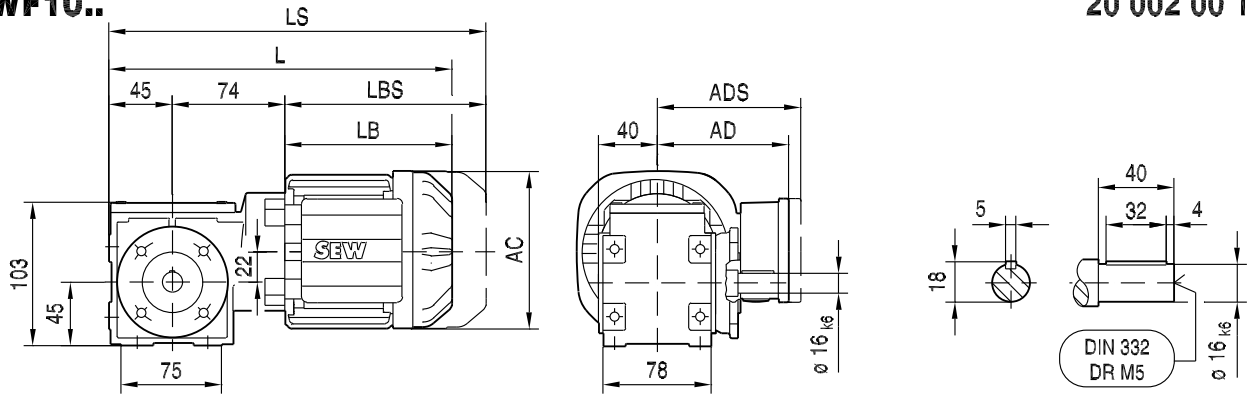


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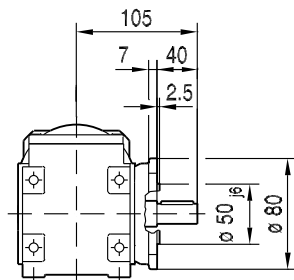
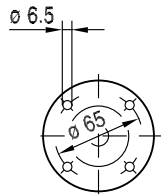
(→ 155)	DT56..							
AC	109							
AD	87							
ADS	87							
L	255							
LS	291							
LB	136							
LBS	172							

WF10..

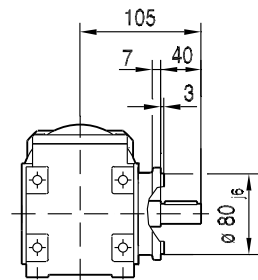
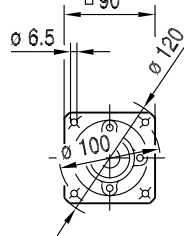
20 002 00 14



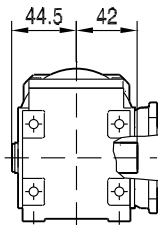
∅ 80



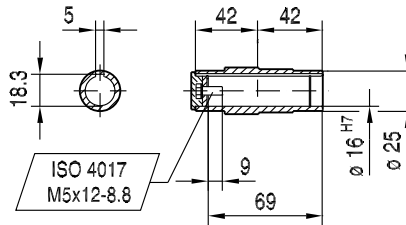
∅ 120



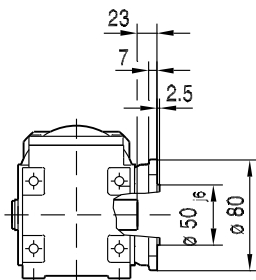
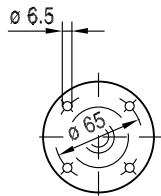
WAF10..



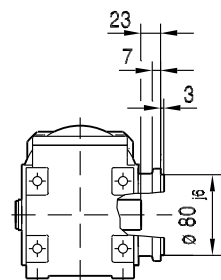
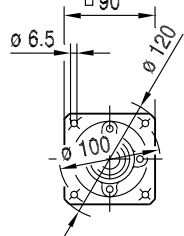
∅ 16 H7



∅ 80

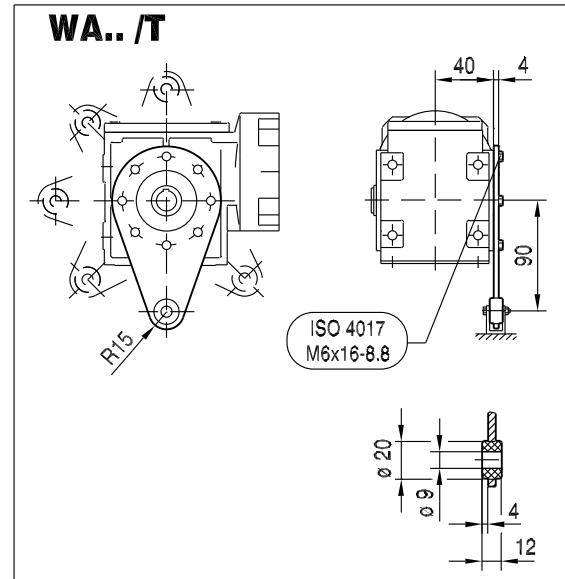


∅ 120

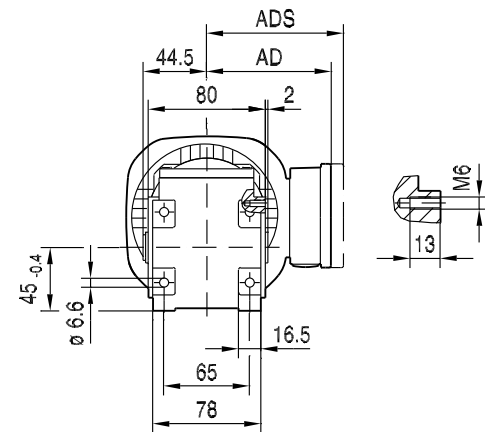
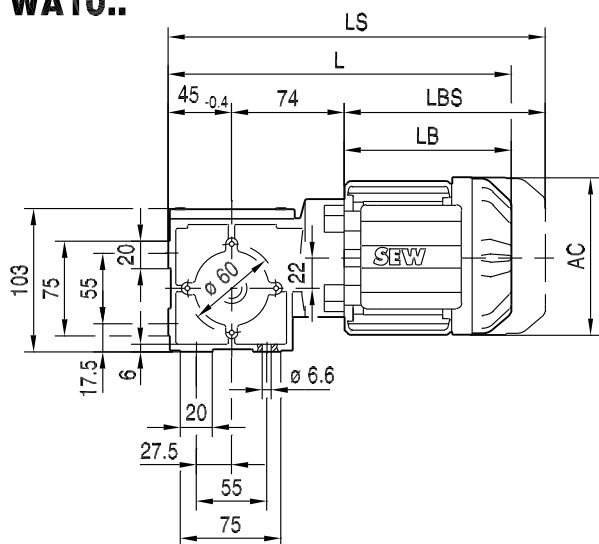


(→ 155)	DT56..						
AC	109						
AD	87						
ADS	87						
L	255						
LS	291						
LB	136						
LBS	172						

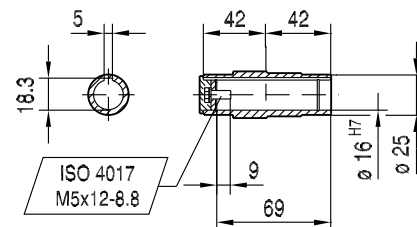
20 003 00 14



WA10..



Ø 16 H7

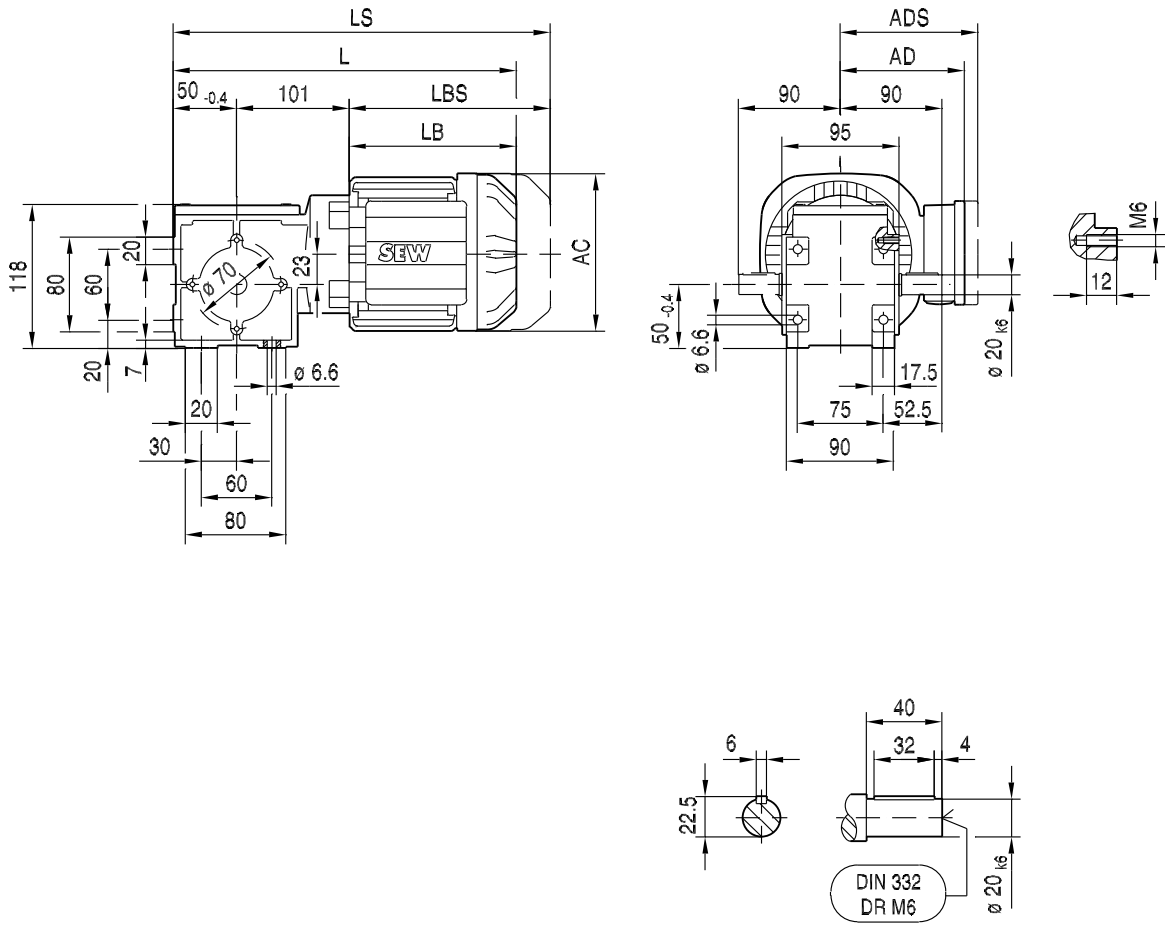


(→ 155)	DT56..							
AC	109							
AD	87							
ADS	87							
L	255							
LS	291							
LB	136							
LBS	172							

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20 004 00 14

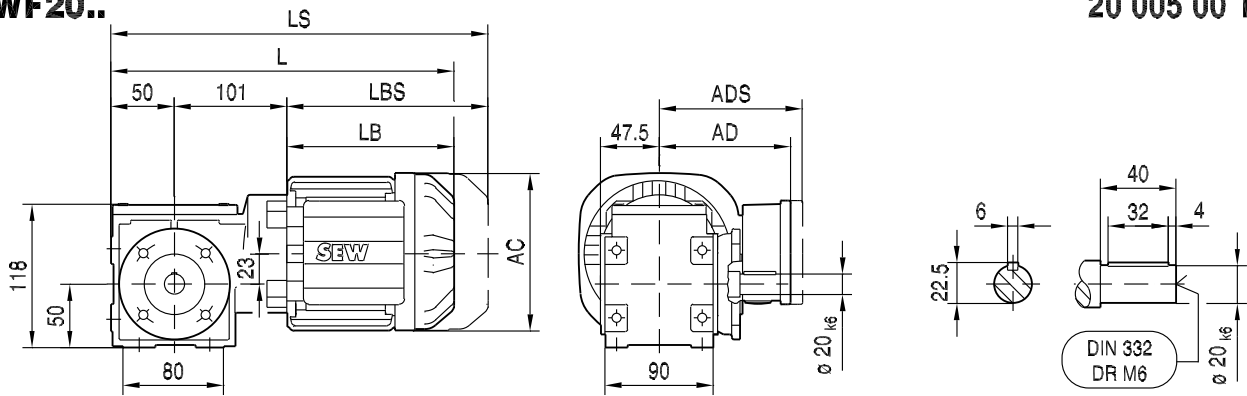
W20..



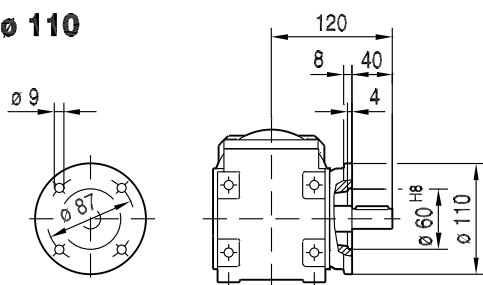
(→ 155)	DR63..	DR71S	DR71M					
AC	132	139	139					
AD	105	119	119					
ADS	105	129	129					
L	300	311	336					
LS	355	379	404					
LB	149	160	185					
LBS	204	228	253					

WF20..

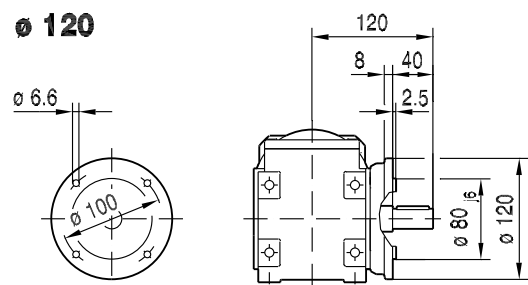
20 005 00 14



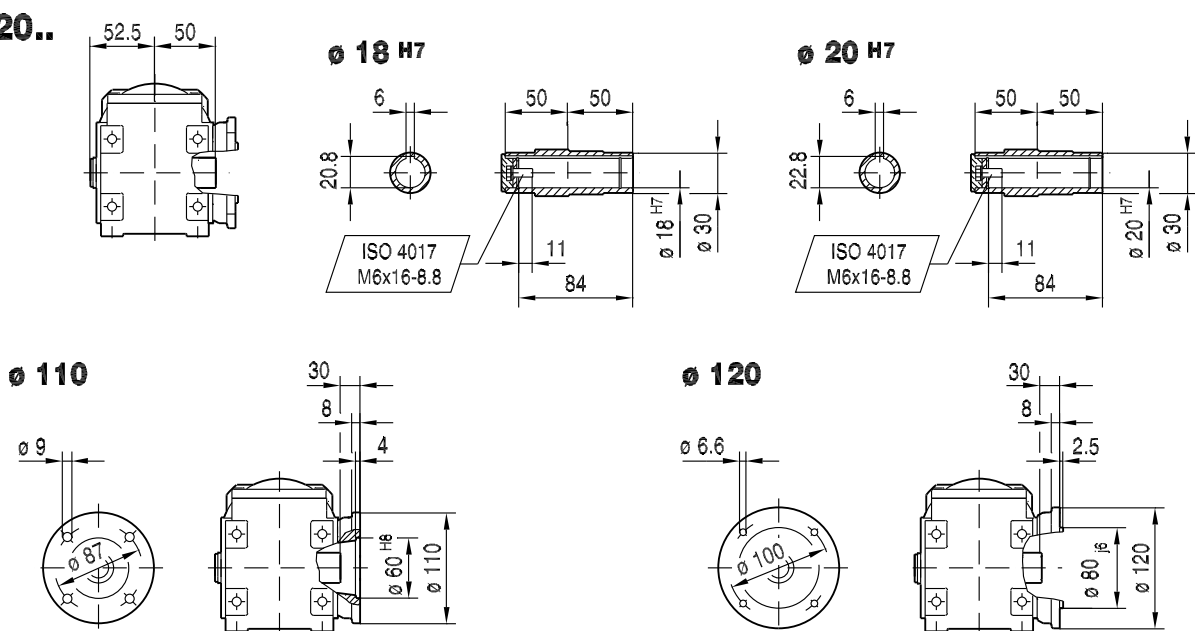
ø 110



ø 120



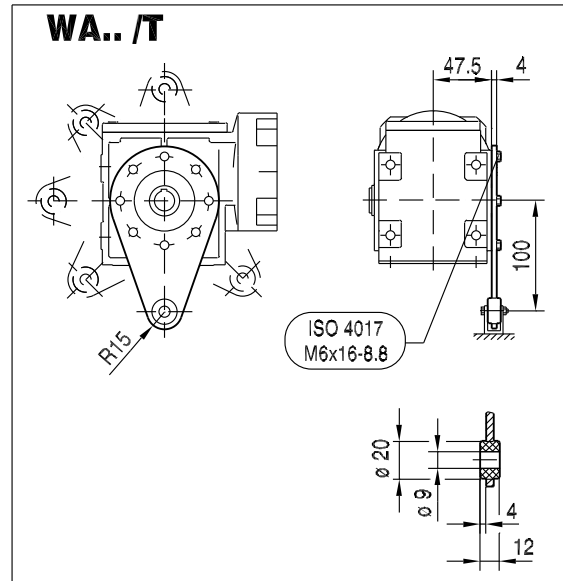
WAF20..



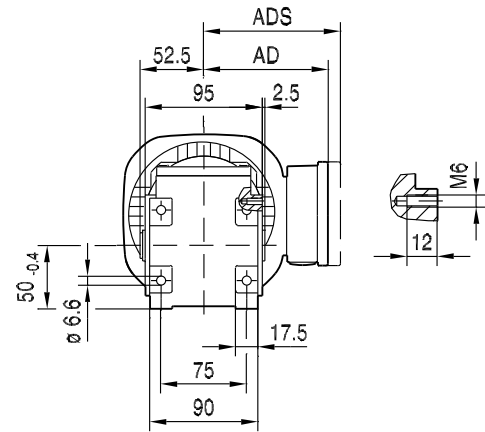
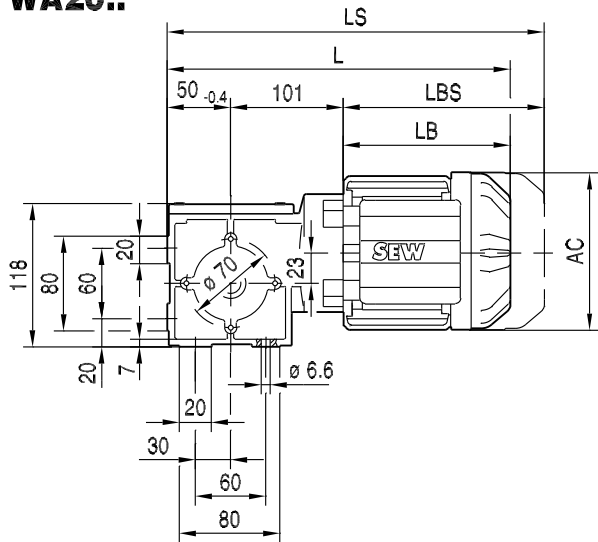
21933189/EN – 11/2015

(→ 155)	DR63..	DR71S	DR71M				
AC	132	139	139				
AD	105	119	119				
ADS	105	129	129				
L	300	311	336				
LS	355	379	404				
LB	149	160	185				
LBS	204	228	253				

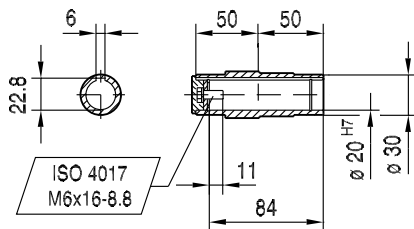
20 006 00 14



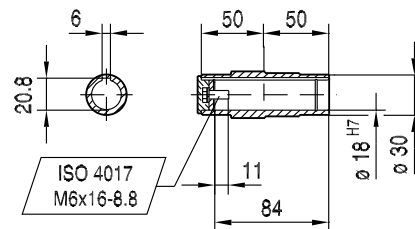
WA20..



∅ 20 H7



∅ 18 H7

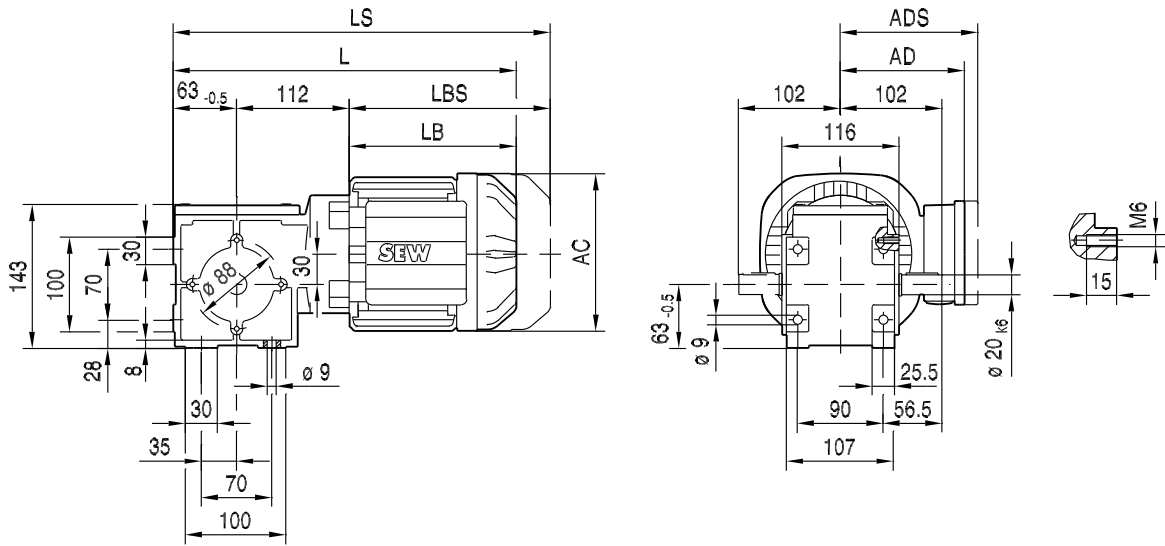


(→ 155)	DR63..	DR71S	DR71M				
AC	132	139	139				
AD	105	119	119				
ADS	105	129	129				
L	300	311	336				
LS	355	379	404				
LB	149	160	185				
LBS	204	228	253				

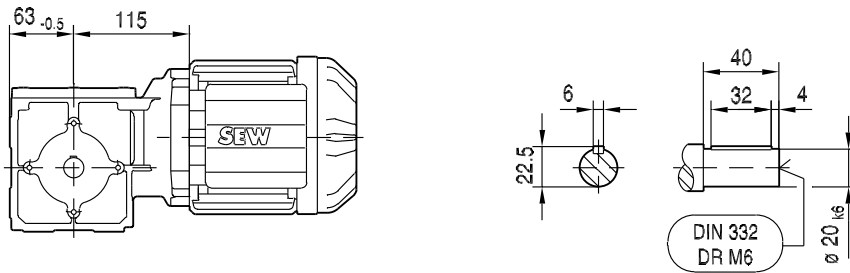
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20 007 00 14

W30..



DR80..

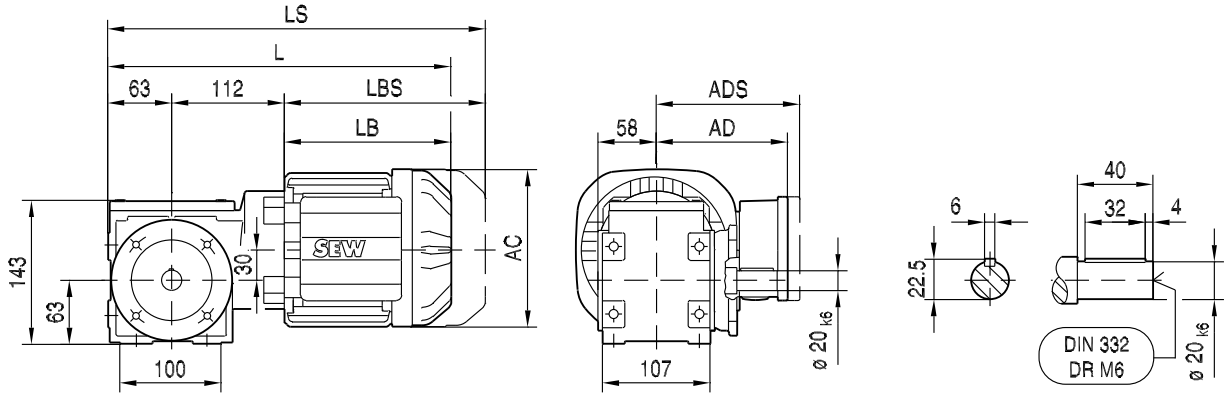


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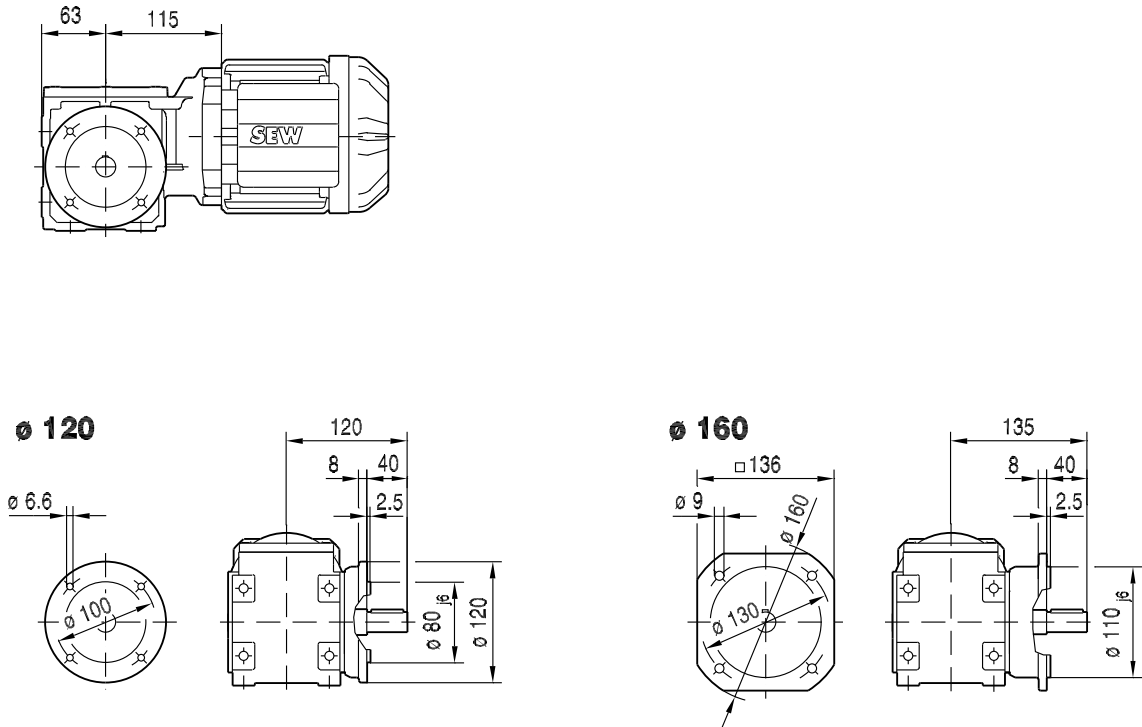
(→ 155)	DR63..	DR71S	DR71M	DRN80M				
AC	132	139	139	156				
AD	105	119	119	128				
ADS	105	129	129	139				
L	324	335	360	410				
LS	379	403	428	491				
LB	149	160	185	235				
LBS	204	228	253	316				

WF30..

20 008 00 14



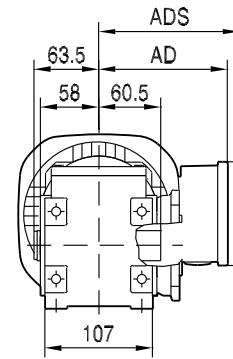
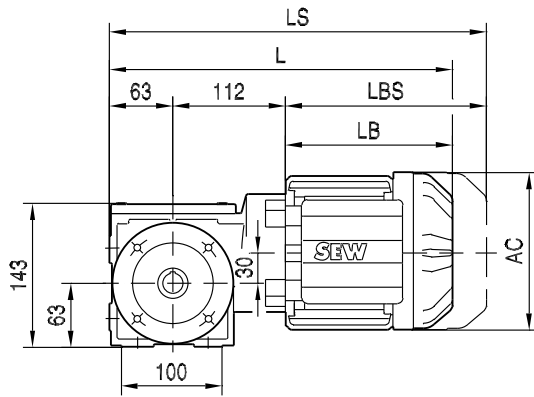
DR80..



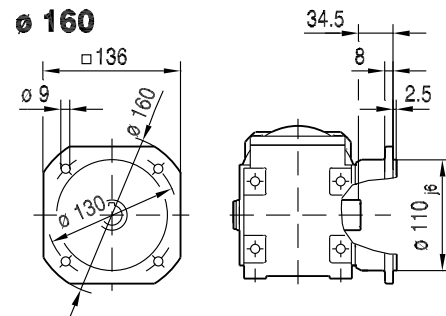
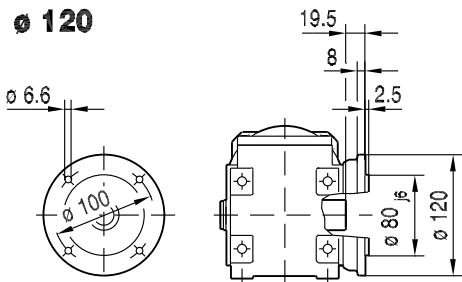
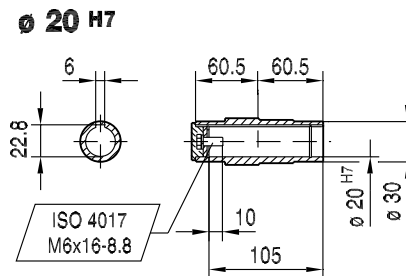
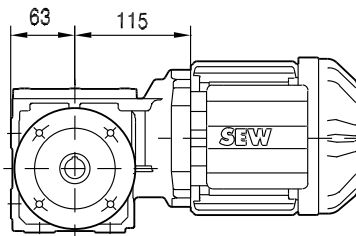
(→ 155)	DR63..	DR71S	DR71M	DRN80M				
AC	132	139	139	156				
AD	105	119	119	128				
ADS	105	129	129	139				
L	324	335	360	410				
LS	379	403	428	491				
LB	149	160	185	235				
LBS	204	228	253	316				

WAF30..

20 009 00 14



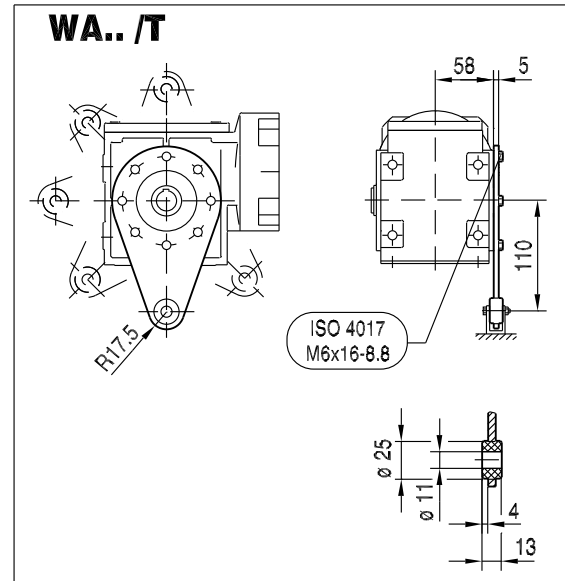
DR80..



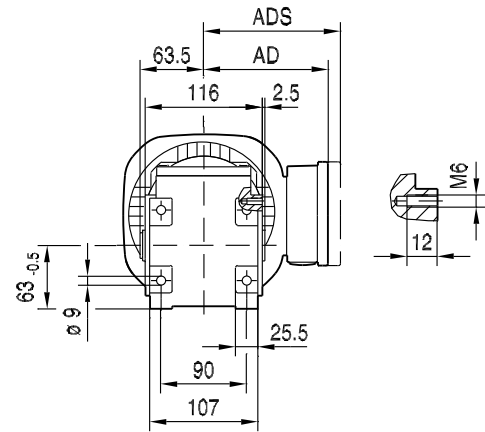
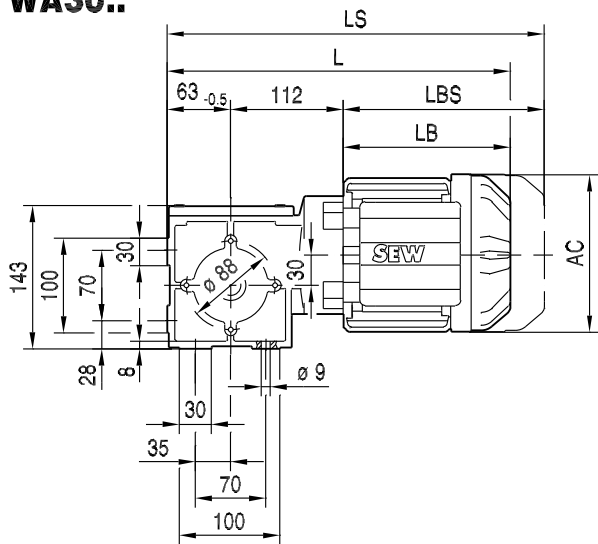
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(→ 155)	DR63..	DR71S	DR71M	DRN80M				
AC	132	139	139	156				
AD	105	119	119	128				
ADS	105	129	129	139				
L	324	335	360	410				
LS	379	403	428	491				
LB	149	160	185	235				
LBS	204	228	253	316				

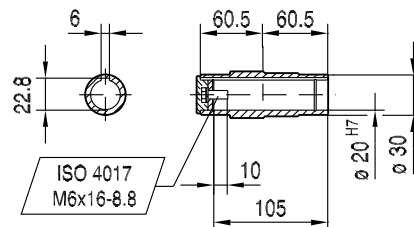
20 010 00 14



WA30..



∅ 20 H7

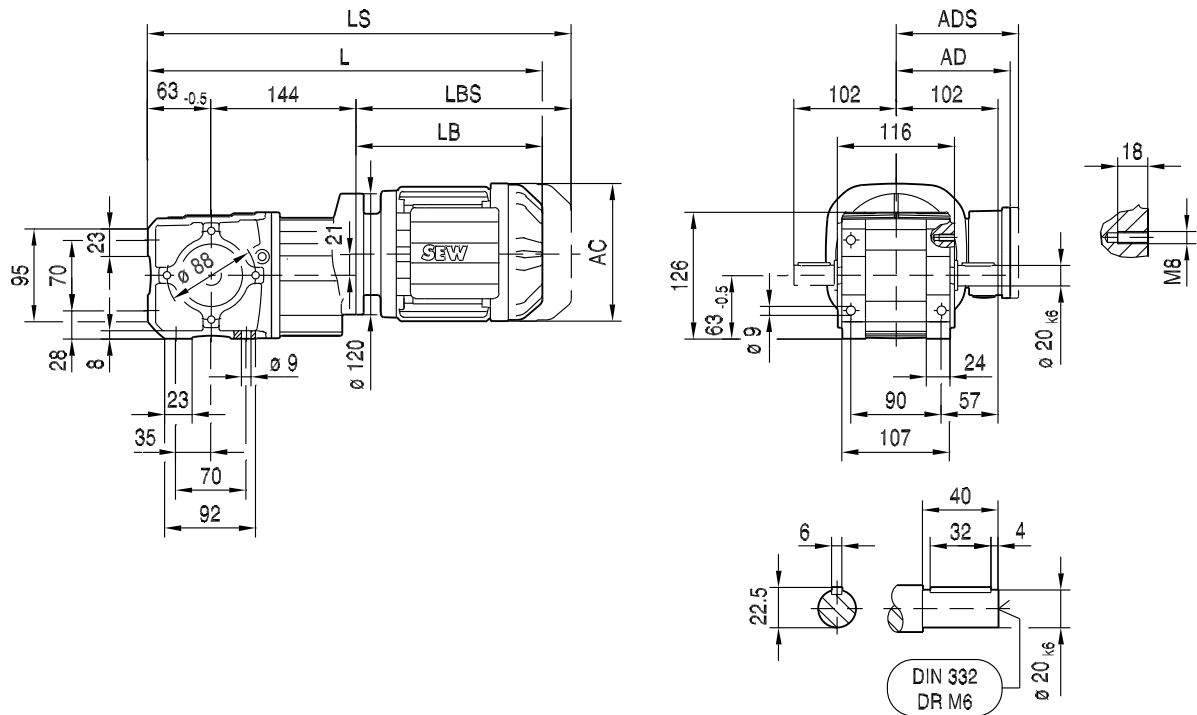


(→ 155)	DR63..	DR71S	DR71M	DRN80M				
AC	132	139	139	156				
AD	105	119	119	128				
ADS	105	129	129	139				
L	324	335	360	410				
LS	379	403	428	491				
LB	149	160	185	235				
LBS	204	228	253	316				

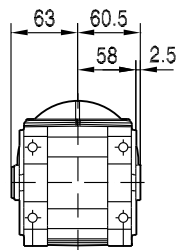
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20 011 00 14

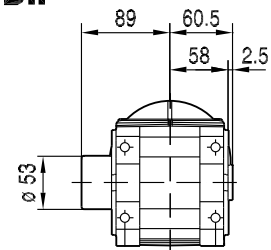
W37..



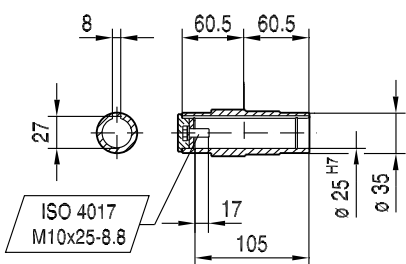
WA37B..



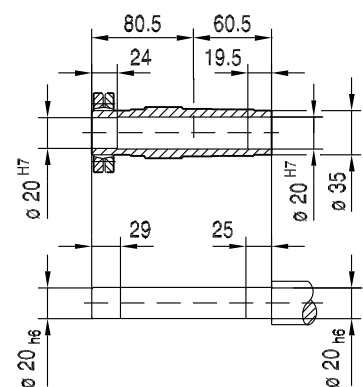
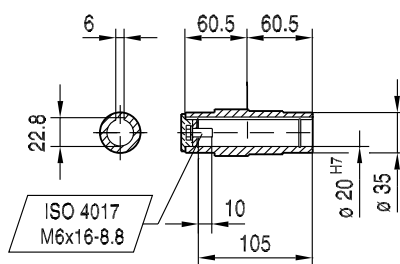
WH37B..



Ø 25 H7
DIN 6885-3



Ø 20 H7

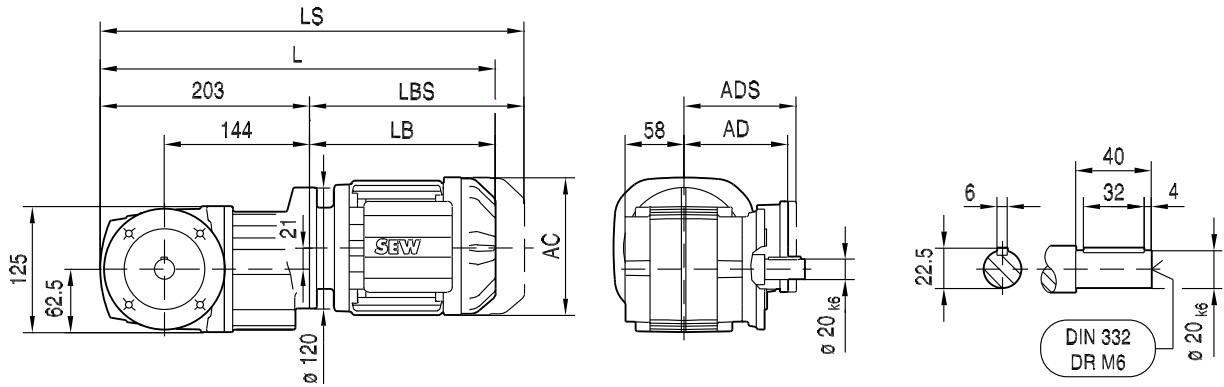


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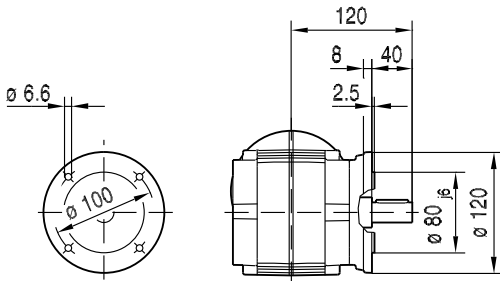
(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L		
AC	132	139	139	156	179	179		
AD	105	119	119	128	140	140		
ADS	105	129	129	139	150	150		
L	398	409	434	489	490	522		
LS	453	477	502	570	584	616		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

20 012 00 14

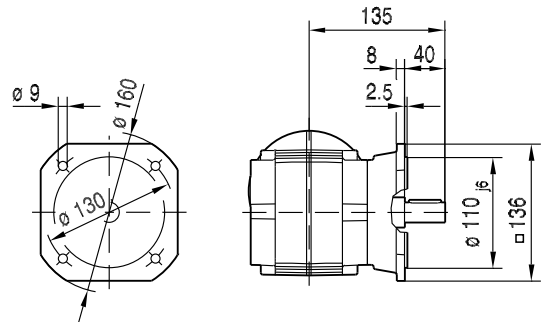
WF37..



$\varnothing 120$
max. DR71..

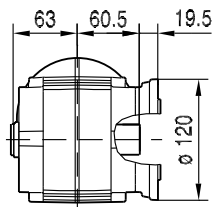


$\varnothing 160$

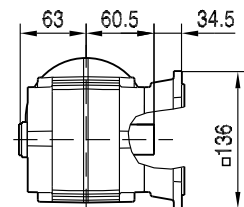


WAF37..

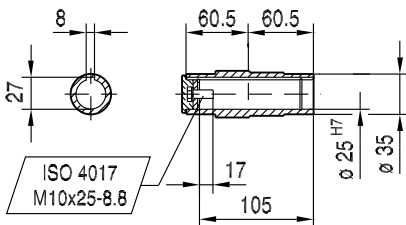
$\varnothing 120$
max. DR71..



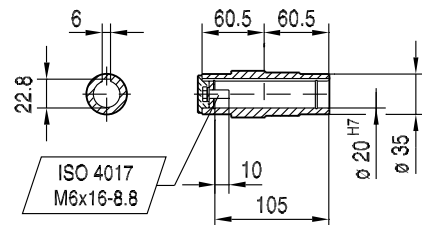
$\varnothing 160$



$\varnothing 25$ H7
DIN 6885-3



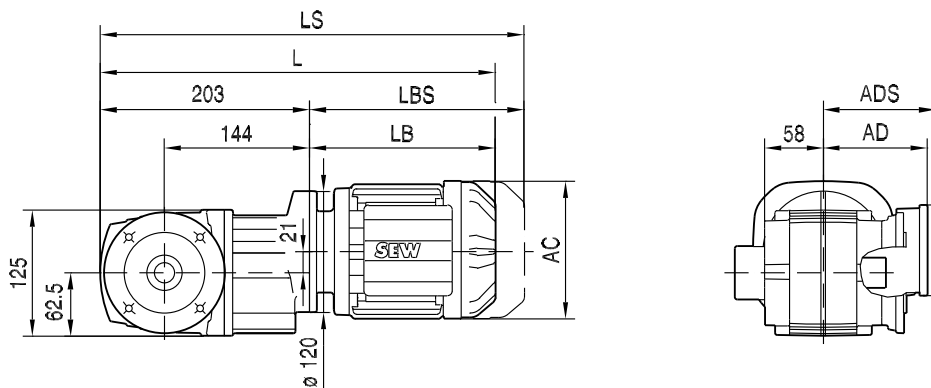
$\varnothing 20$ H7



(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L		
AC	132	139	139	156	179	179		
AD	105	119	119	128	140	140		
ADS	105	129	129	139	150	150		
L	394	405	430	485	486	518		
LS	449	473	498	566	580	612		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

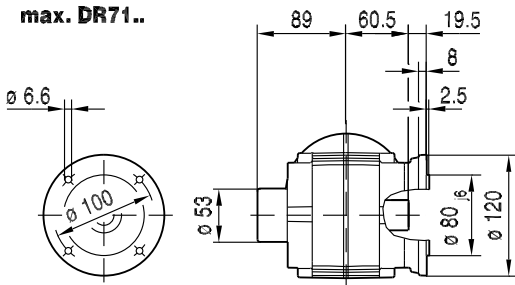
20 013 00 14

WHF37..

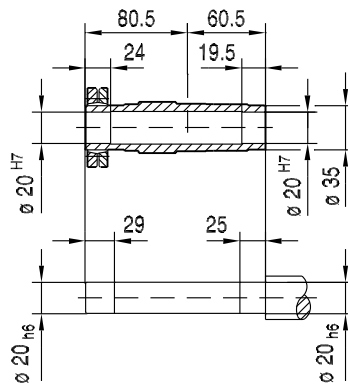
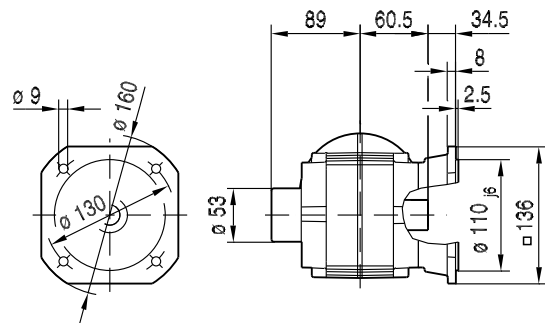


12

∅ 120
max. DR71..



∅ 160

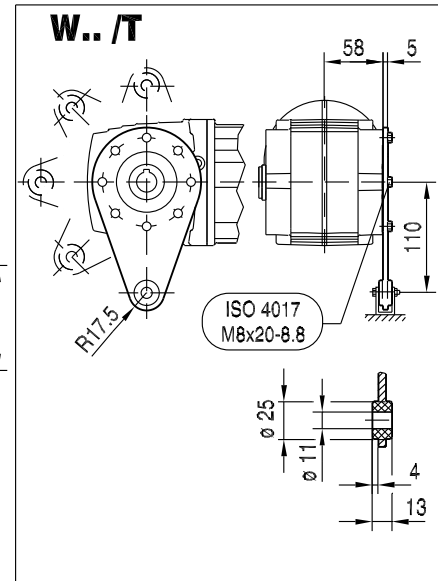
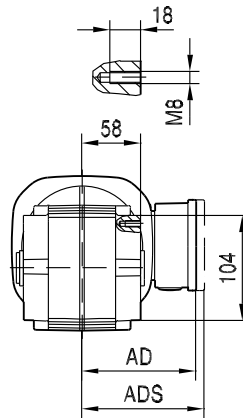
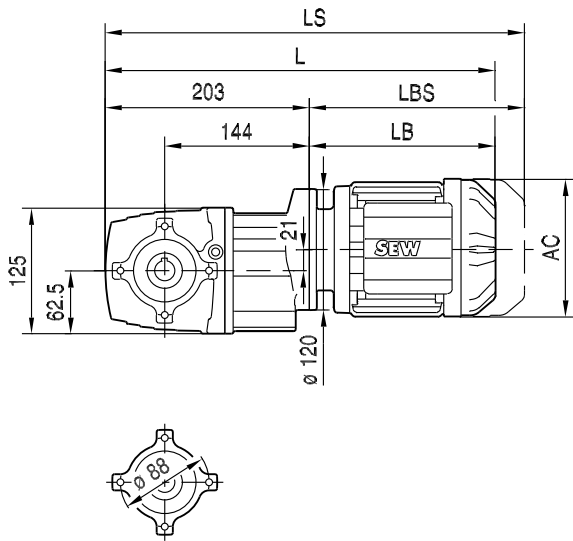


(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L		
AC	132	139	139	156	179	179		
AD	105	119	119	128	140	140		
ADS	105	129	129	139	150	150		
L	394	405	430	485	486	518		
LS	449	473	498	566	580	612		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

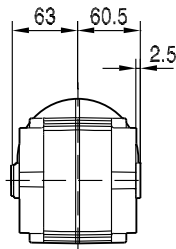
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20 014 00 14

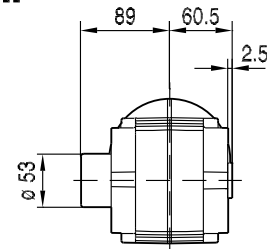
WA37..



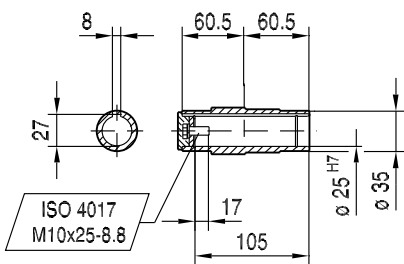
WA37..



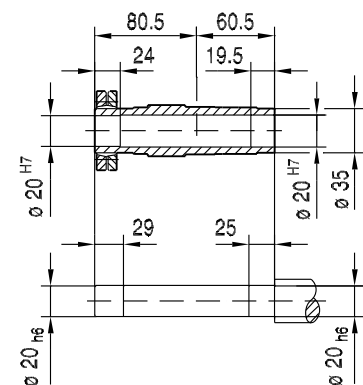
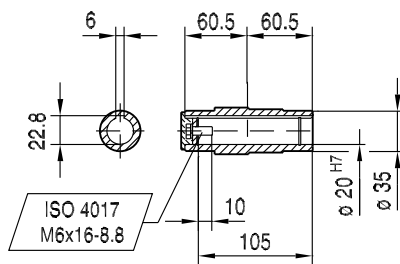
WH37..



Ø 25 H7
DIN 6885-3



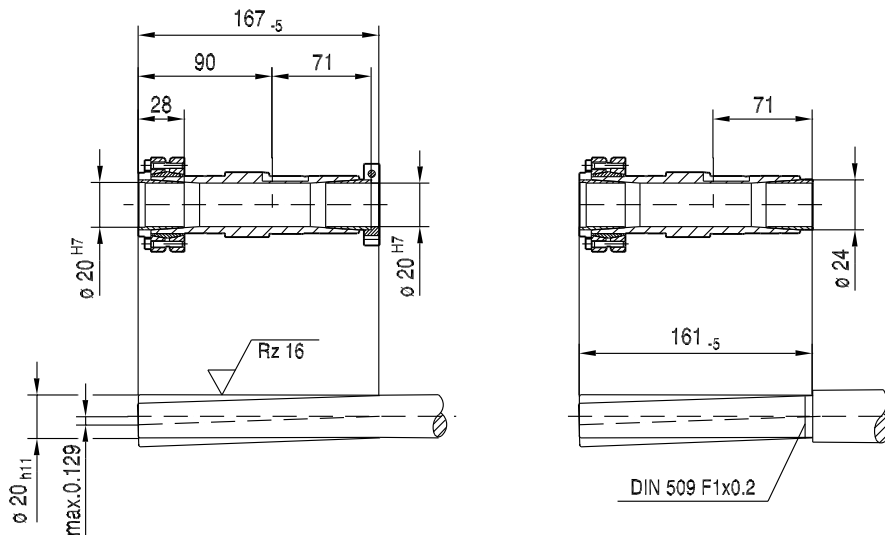
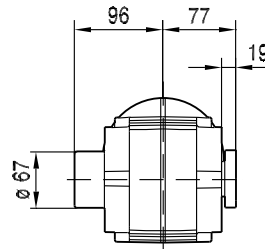
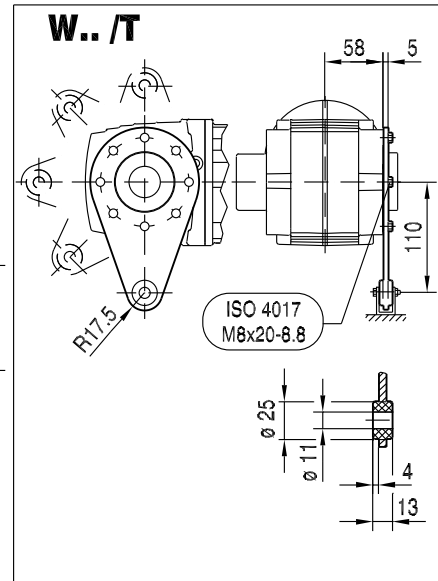
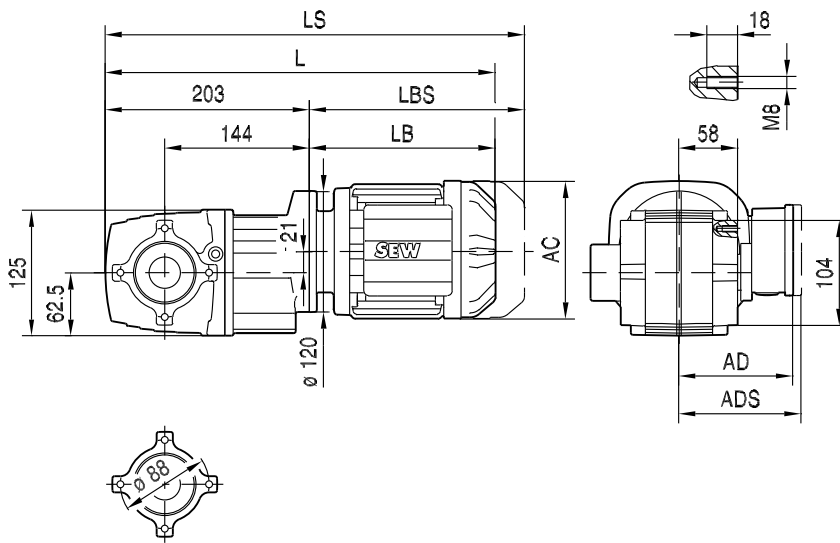
Ø 20 H7



(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L		
AC	132	139	139	156	179	179		
AD	105	119	119	128	140	140		
ADS	105	129	129	139	150	150		
L	394	405	430	485	486	518		
LS	449	473	498	566	580	612		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

WT37..

20 015 00 14



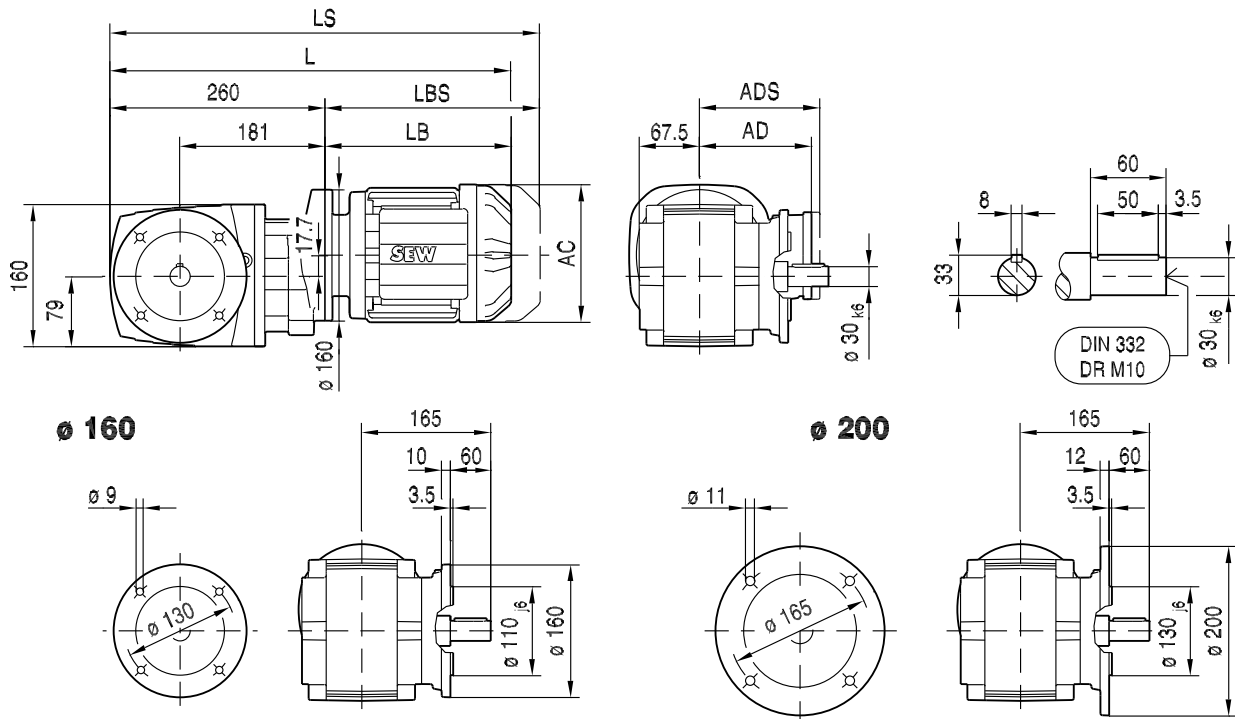
12

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(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L		
AC	132	139	139	156	179	179		
AD	105	119	119	128	140	140		
ADS	105	129	129	139	150	150		
L	394	405	430	485	486	518		
LS	449	473	498	566	580	612		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

20 017 01 14

WF47..

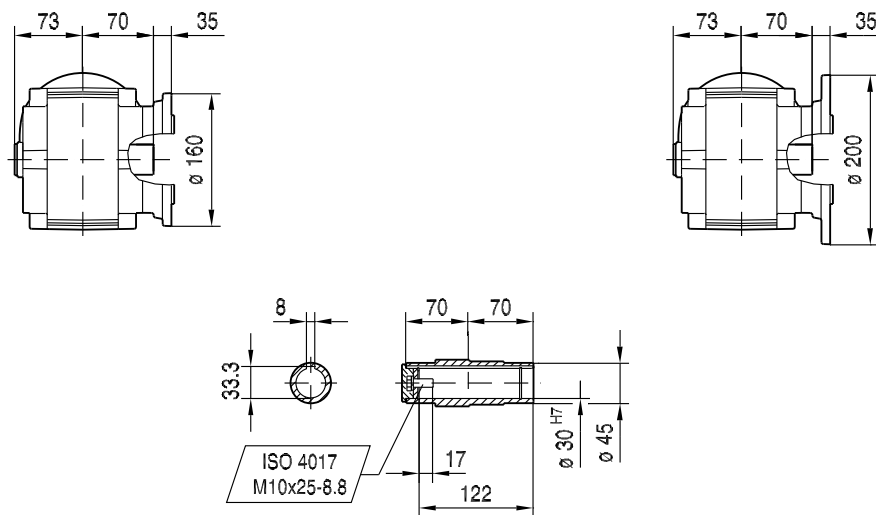


12

WAF47..

$\phi 160$

$\phi 200$

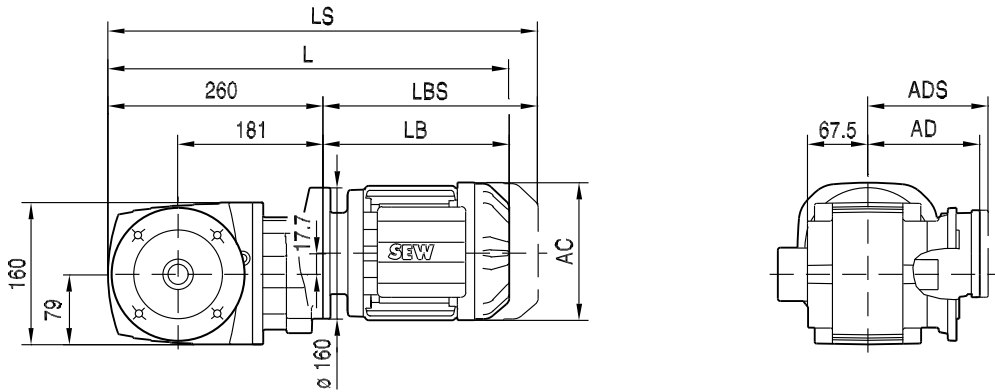


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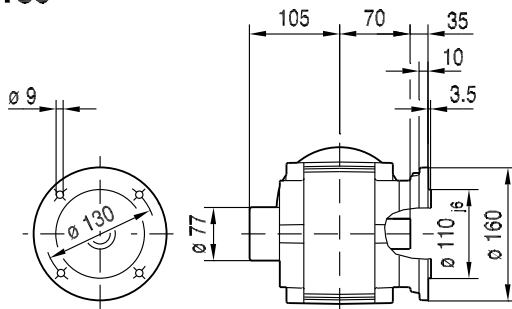
(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M
AC	132	139	139	156	179	179	197	197	221
AD	105	119	119	128	140	140	157	157	170
ADS	105	129	129	139	150	150	158	158	172
L	445	456	481	535	537	569	565	615	646
LS	500	524	549	616	630	662	659	709	758
LB	185	196	221	275	277	309	305	355	386
LBS	240	264	289	356	370	402	399	449	498

20 054 00 15

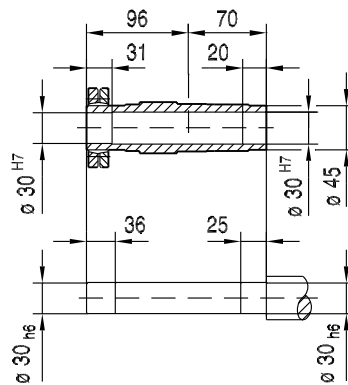
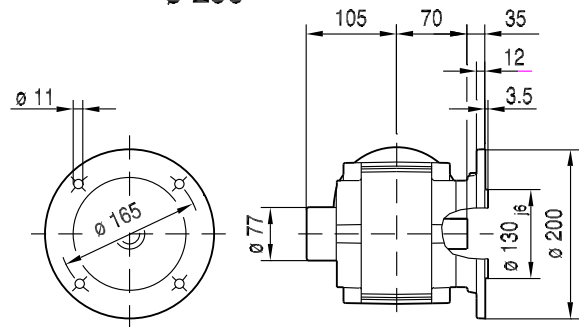
WHF47..



ø 160



ø 200

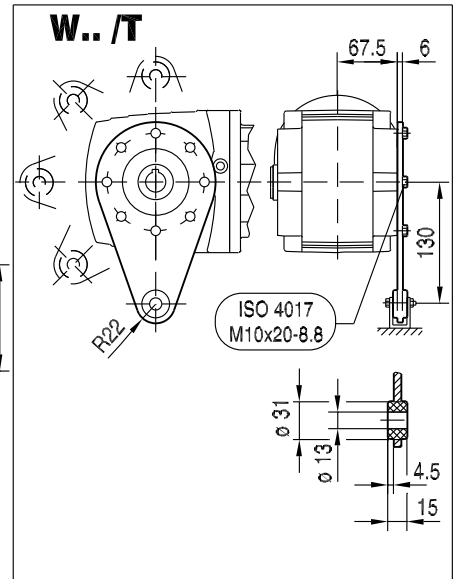
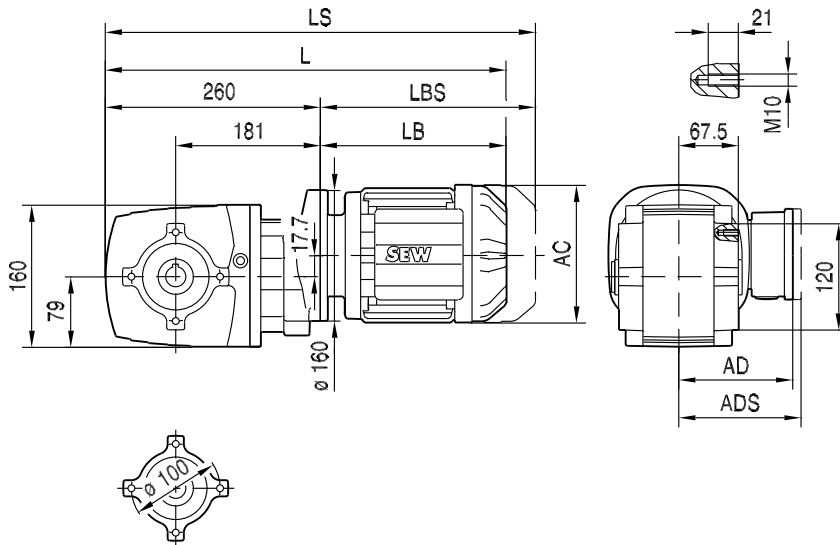


(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M
AC	132	139	139	156	179	179	197	197	221
AD	105	119	119	128	140	140	157	157	170
ADS	105	129	129	139	150	150	158	158	172
L	445	456	481	535	537	569	565	615	646
LS	500	524	549	616	630	662	659	709	758
LB	185	196	221	275	277	309	305	355	386
LBS	240	264	289	356	370	402	399	449	498

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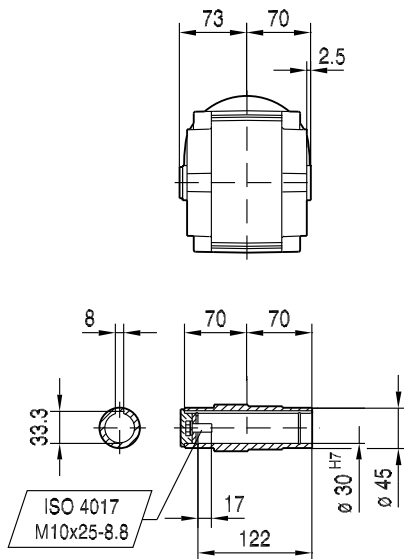
20 018 00 14

WA47..

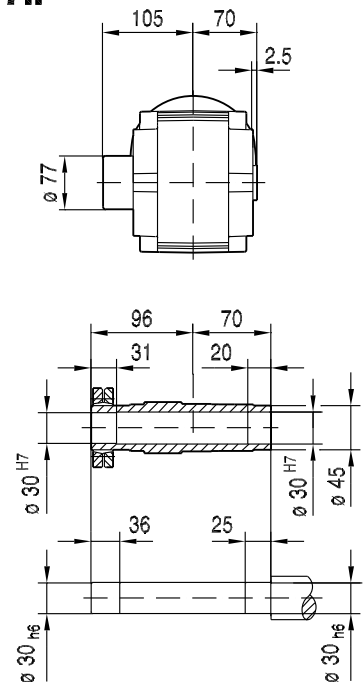


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WA47..



WH47..

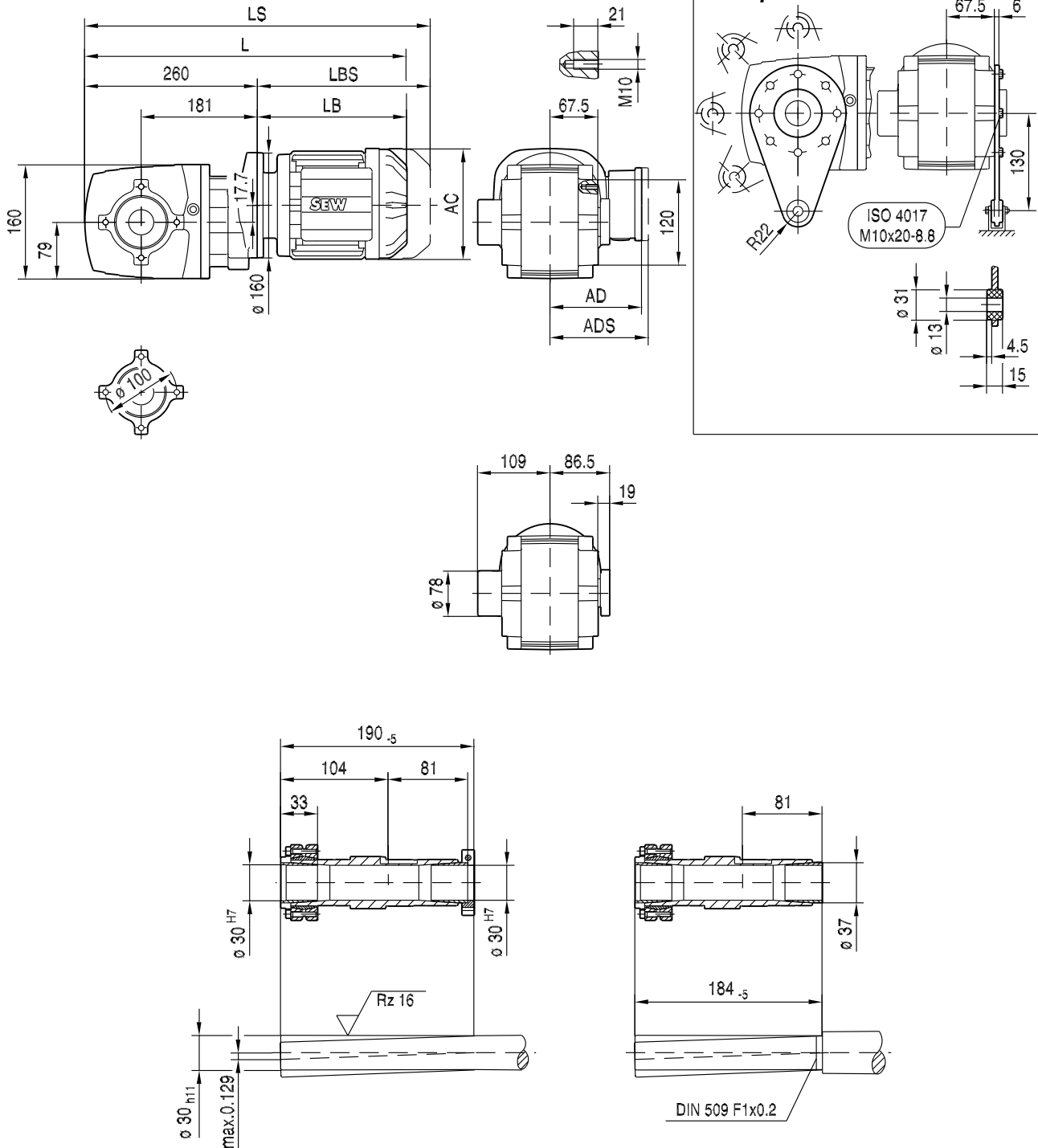


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(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M
AC	132	139	139	156	179	179	197	197	221
AD	105	119	119	128	140	140	157	157	170
ADS	105	129	129	139	150	150	158	158	172
L	445	456	481	535	537	569	565	615	646
LS	500	524	549	616	630	662	659	709	758
LB	185	196	221	275	277	309	305	355	386
LBS	240	264	289	356	370	402	399	449	498

20 019 00 14

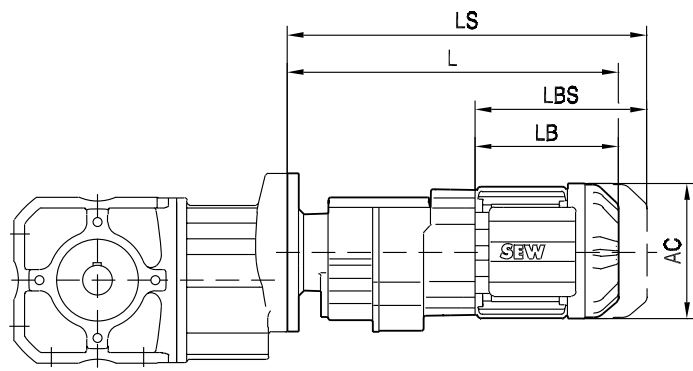
WT47..



(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M
AC	132	139	139	156	179	179	197	197	221
AD	105	119	119	128	140	140	157	157	170
ADS	105	129	129	139	150	150	158	158	172
L	445	456	481	535	537	569	565	615	646
LS	500	524	549	616	630	662	659	709	758
LB	185	196	221	275	277	309	305	355	386
LBS	240	264	289	356	370	402	399	449	498

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20 018 00 09



(→ 155)		AC	L	LS	LB	LBS
W..37R17	DR63..	132	324	379	149	204
	DR71S..	139	335	403	160	228
W..47R17	DR63..	132	324	379	149	204
	DR71S..	139	335	403	160	228
	DR71M..	139	360	428	185	253

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