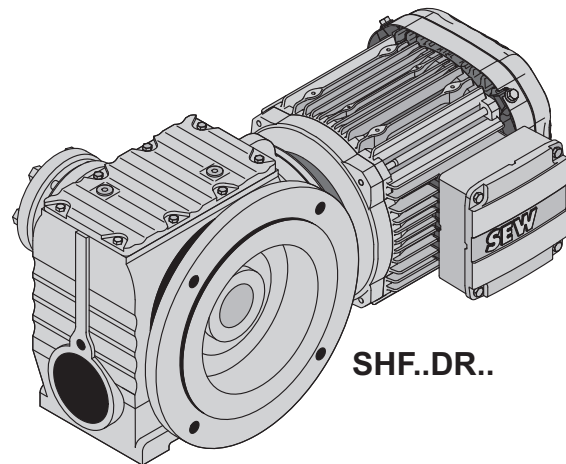
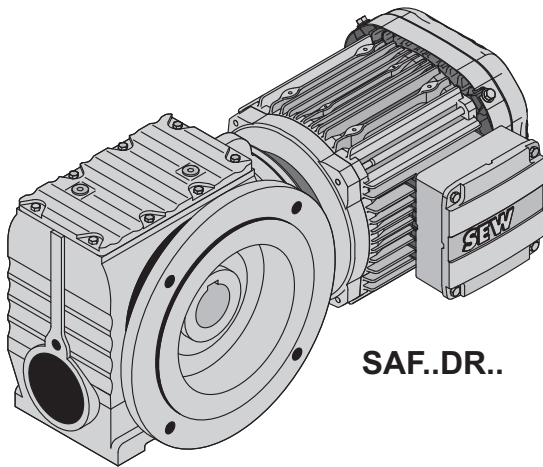
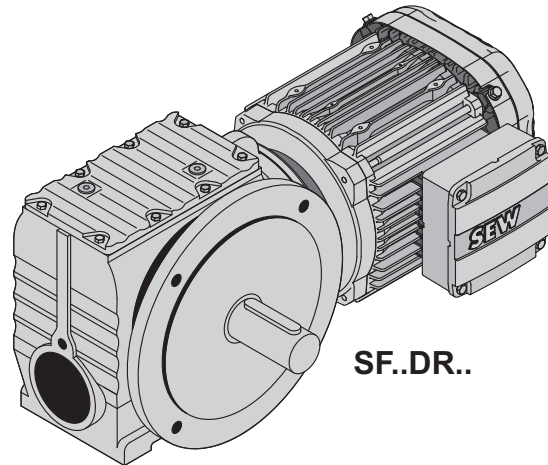
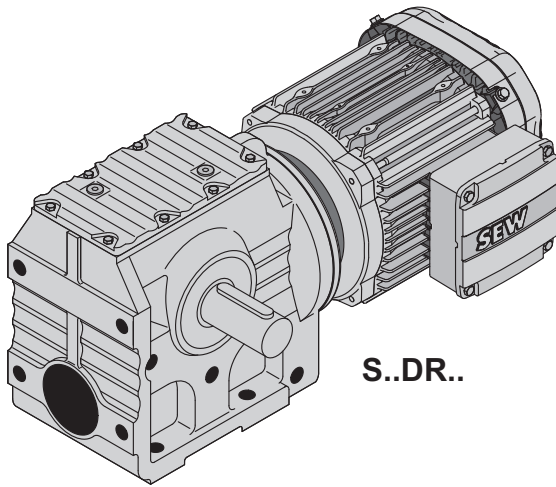


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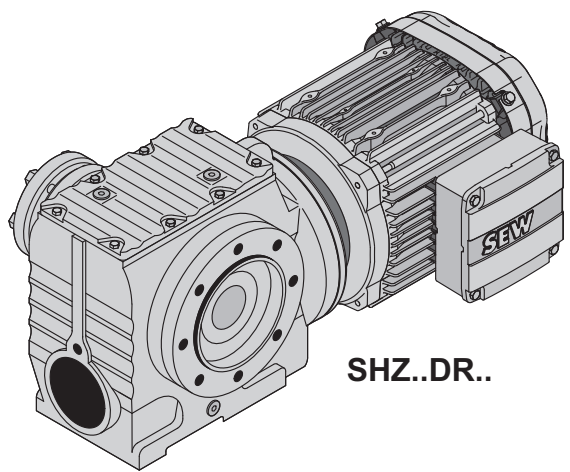
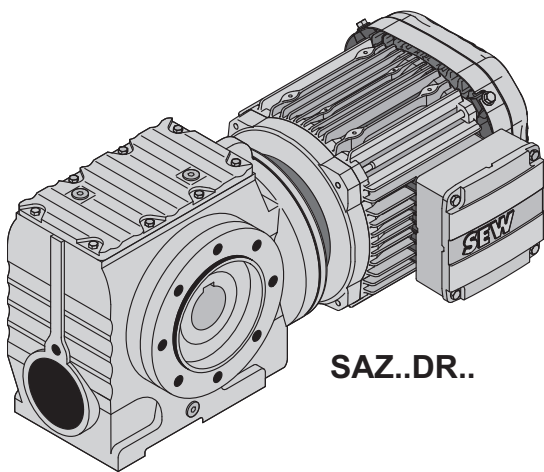
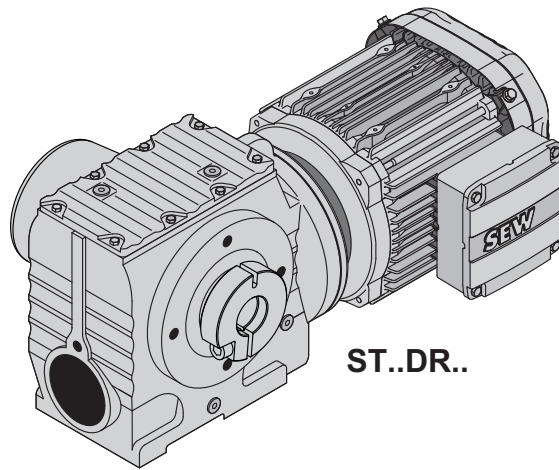
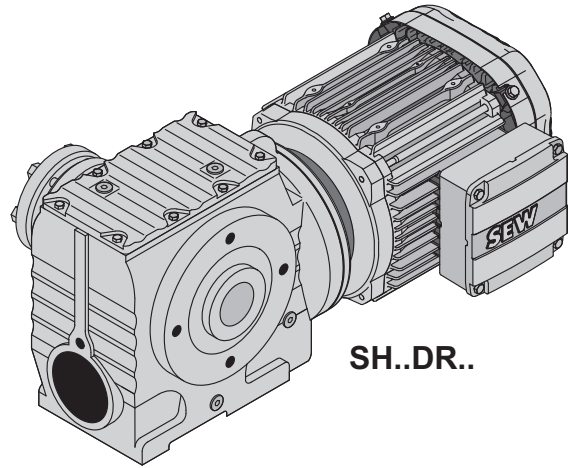
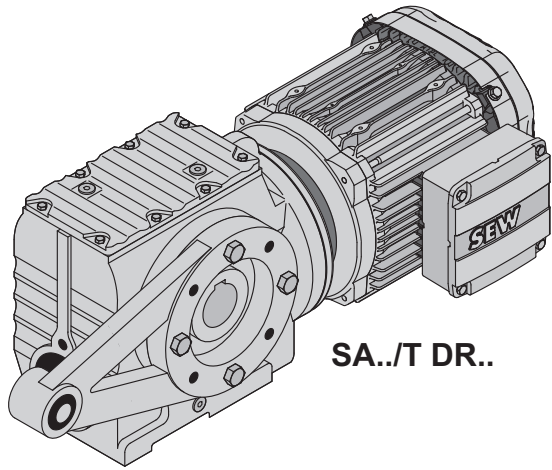
11.1 S..DRN.. designs



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11.2 Possible geometrical combinations of S..DRN..


S37, $n_e=1400$ 1/min					92 Nm		
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\varphi_{(R)}$ °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L
 2							
8.9	92	3000	-	157.43			
9.7	92	3000	-	144.40*			
11	91	3000	-	122.94			
13	88	3000	-	106.00*			
14	87	3000	-	98.80*			
16	86	3000	-	86.36			
17	85	3000	-	80.96			
20	84	3000	-	71.44*			
22	82	3000	-	63.33			
25	81	3000	-	55.93			
26	80	3000	-	53.83			
27	81	3000	-	51.30*			
32	81	3000	-	43.68			
37	79	3000	-	37.66			
40	78	3000	-	35.10*			
46	76	2860	-	30.68			
49	75	2800	-	28.76			
55	74	2660	-	25.38*			
62	73	2530	-	22.50*			
70	52	2470	-	19.89			
73	71	2380	-	19.13*			
77	52	2380	-	18.24*			
90	50	2240	-	15.53			
105	49	2110	-	13.39			
112	48	2060	-	12.48*			
128	48	1940	-	10.91			
137	47	1900	-	10.23			
155	46	1810	-	9.02*			
175	45	1730	-	8.00*			
206	43	1630	-	6.80*			
221	35	1670	-	6.33			
260	34	1570	-	5.38			
288	33	1520	-	4.86*			
353	32	1400	-	3.97			

S37R17, $n_e=1400$ 1/min					92 Nm		
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\varphi_{(R)}$ °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M	
 2  3							
0.14	92	3000	-	10037			
0.16	92	3000	-	8654			
0.17	92	3000	-	8066			
0.20	92	3000	-	7051			



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Possible geometrical combinations of S..DRN..

S37R17, n_e=1400 1/min					92 Nm	
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(R) °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M
0.23	92	3000	-	6079		
0.26	92	3000	-	5431		
0.29	92	3000	-	4747		
0.34	92	3000	-	4155		
0.39	92	3000	-	3632		
0.49	92	3000	-	2866		
0.57	92	3000	-	2471		
0.65	92	3000	-	2160		
0.74	92	3000	-	1887		
0.84	92	3000	-	1665		
0.96	92	3000	-	1456		
1.1	92	3000	-	1271		
1.2	92	3000	-	1121		
1.4	92	3000	-	994		
1.6	92	3000	-	869		
 2  2						
1.8	92	3000	-	774		
2.1	92	3000	-	666		
2.3	92	3000	-	596		
2.7	92	3000	-	521		
3.1	92	3000	-	456		
3.5	92	3000	-	398		
4.0	92	3000	-	351		
4.6	92	3000	-	303		
5.3	92	3000	-	265		
6.0	92	3000	-	232		
6.9	92	3000	-	202		
7.8	92	3000	-	179		
8.9	92	3000	-	158		
9.7	92	3000	-	144		
12	92	3000	-	118		
13	92	3000	-	110*		

S47, n_e=1400 1/min					170 Nm			
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(R) °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L
 2								
7.0	170	5340	-	201.00*				
7.6	170	5340	-	184.80*				
8.9	170	5340	-	158.12				
10	168	5350	-	137.05				
11	168	5350	-	128.10*				
13	168	5350	-	110.73				
15	168	5350	-	94.08*				
17	167	5360	-	84.00*				
20	167	5360	-	71.75*				
20	155	5370	-	69.39				



S47, n _e =1400 1/min					170 Nm			
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(R) '	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L
21	167	5360	-	67.20*				
22	155	5370	-	63.80*				
25	165	5320	-	56.61				
26	155	5150	-	54.59				
30	155	4850	-	47.32				
32	155	4710	-	44.22*				
37	155	4420	-	38.23				
43	155	4120	-	32.48*				
48	155	3920	-	29.00*				
57	155	3650	-	24.77				
60	152	3570	-	23.20*				
69	110	3370	-	20.33				
72	144	3370	-	19.54				
79	110	3160	-	17.62				
85	110	3060	-	16.47*				
98	110	2850	-	14.24				
116	109	2650	-	12.10*				
130	109	2500	-	10.80*				
152	109	2310	-	9.23*				
162	109	2230	-	8.64*				
192	103	2110	-	7.28				
205	78	2300	-	6.83				
219	76	2260	-	6.40*				
260	74	2110	-	5.39				
294	72	2010	-	4.76				
350	61	1980	-	4.00*				


S47R17, n _e =1400 1/min					185 Nm			
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(R) '	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M		
 2  3								
0.11	185	5250	-	12909				
0.13	185	5250	-	11189				
0.13	185	5250	-	10374				
0.16	185	5250	-	8992				
0.18	185	5250	-	7860				
0.20	185	5250	-	6887				
0.23	185	5250	-	6055				
0.26	185	5250	-	5292				
0.30	185	5250	-	4637				
0.34	185	5250	-	4092				
0.39	185	5200	-	3582				
0.45	185	5200	-	3131				
0.52	185	5200	-	2714				
0.58	185	5200	-	2412				
0.66	185	5200	-	2131				
0.75	185	5200	-	1863				

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Possible geometrical combinations of S..DRN..

S47R17, $n_e=1400$ 1/min					185 Nm	
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ '	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M
0.84	185	5200	-	1663		
0.98	185	5200	-	1435		
1.1	185	5200	-	1254		
1.2	185	5200	-	1120		
1.3	185	5200	-	1083		
1.5	183	5210	-	956		
 2  2						
1.5	185	5200	-	965		
1.6	185	5200	-	865		
1.9	185	5200	-	750		
2.1	185	5200	-	655		
2.4	185	5200	-	574		
2.8	185	5200	-	506		
3.2	185	5200	-	438		
3.6	185	5200	-	388		
4.2	185	5200	-	336		
4.8	185	5200	-	294		
5.4	185	5260	-	257*		
6.1	185	5200	-	229		
7.0	185	5200	-	200		
7.5	185	5200	-	187		
8.5	185	5200	-	165		
9.5	185	5200	-	148		
11	185	5200	-	131		


S57, $n_e=1400$ 1/min					295 Nm			
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ '	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L
 2								
7.0	295	7130	-	201.00*				
7.6	295	7130	-	184.80*				
8.9	295	7130	-	158.12				
10	295	7130	-	137.05				
11	295	7130	-	128.10*				
13	295	7130	-	110.73				
15	295	7130	-	94.08*				
17	295	7130	-	84.00*				
20	290	7170	-	71.75*				
20	245	7520	-	69.39				
21	285	7220	-	67.20*				
22	245	7520	-	63.80*				
25	265	7370	-	56.61				
26	245	7520	-	54.59				
30	245	7520	-	47.32				
32	245	7520	-	44.22*				
37	245	7320	-	38.23				
43	245	6840	-	32.48*				

S57, $n_e=1400$ 1/min					295 Nm			
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ '	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L
48	245	6520	-	29.00*				
57	245	6100	-	24.77				
60	245	5930	-	23.20*				
69	168	5690	-	20.33				
72	215	5720	-	19.54				
79	168	5350	-	17.62				
85	168	5200	-	16.47*				
98	169	4860	-	14.24				
116	169	4520	-	12.10*				
130	169	4290	-	10.80*				
152	169	3990	-	9.23*				
162	166	3900	-	8.64*				
192	146	3790	-	7.28				
205	100	4100	-	6.83				
219	98	4010	-	6.40*				
260	95	3760	-	5.39				
294	93	3590	-	4.76				
350	88	3380	-	4.00*				

S57R17, $n_e=1400$ 1/min					330 Nm			
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ '	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M		
 2  3								
0.11	330	6800	-	12909				
0.13	330	6800	-	11189				
0.13	330	6800	-	10374				
0.16	330	6800	-	8992				
0.18	330	6800	-	7860				
0.20	330	6800	-	6887				
0.23	330	6800	-	6055				
0.26	330	6800	-	5292				
0.30	330	6800	-	4637				
0.34	330	6800	-	4092				
0.39	330	6800	-	3628				
0.45	300	7080	-	3131				
0.52	300	7080	-	2714				
0.58	300	7080	-	2412				
0.66	300	7080	-	2131				
0.75	300	7080	-	1863				
0.84	300	7080	-	1663				
0.98	300	7080	-	1435				
1.1	300	7080	-	1254				
1.3	300	7080	-	1083				
 2  2								
1.5	300	7080	-	965				
1.6	300	7080	-	865				
1.9	300	7080	-	750				

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S57R17, n_e=1400 1/min					330 Nm	
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(R) °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M
2.1	300	7080	-	655		
2.4	300	7080	-	574		
2.8	300	7080	-	506		
3.2	300	7080	-	438		
3.6	300	7080	-	388		
4.2	300	7080	-	336		
4.8	300	7080	-	294		
5.2	300	7080	-	269		
6.1	300	7080	-	229		
6.9	300	7080	-	204		
7.5	300	7080	-	187		
8.5	300	7080	-	165		
11	300	7080	-	131		

S67, n_e=1400 1/min					520 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	DRN132S DRN132M
 2										
6.4	520	8680	-	217.41						
7.4	520	8680	-	190.11						
7.8	520	8680	-	180.60*						
8.8	520	8680	-	158.45						
10	520	8680	-	134.40*						
12	520	8680	-	121.33						
13	520	8680	-	106.75*						
14	520	8680	-	100.80*						
16	520	8680	-	85.83						
18	520	8680	-	78.00*						
19	480	9020	-	75.06						
21	520	8680	-	67.57						
21	480	9020	-	65.63						
22	480	9020	-	62.35*						
24	500	8850	-	58.80*						
26	480	8670	-	54.70						
30	480	8060	-	46.40*						
33	480	7690	-	41.89						
38	480	7250	-	36.85						
40	480	7060	-	34.80*						
47	480	6540	-	29.63						
52	480	6240	-	26.93						
57	340	6040	-	24.44						
60	480	5810	-	23.33						
60	340	5890	-	23.22*						
69	340	5520	-	20.37						
69	425	5760	-	20.30*						
81	340	5080	-	17.28*						
90	340	4820	-	15.60*						

S67, n _e =1400 1/min					520 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	DRN132S DRN132M
102	340	4510	-	13.73*						
108	340	4310	-	12.96*						
127	340	3660	-	11.03						
140	340	3290	-	10.03						
161	335	2860	-	8.69						
185	295	3220	-	7.56*						


S67R37, n _e =1400 1/min					570 Nm					
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(/R) °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L		
2 3										
0.07	570	8190	-	21362*						
0.07	570	8190	-	19594*						
0.08	570	8190	-	18120*						
0.08	570	8190	-	16682						
0.10	570	8190	-	14383						
0.11	570	8190	-	12774						
0.13	570	8190	-	11013						
0.14	570	8190	-	9694*						
0.16	570	8190	-	8529*						
0.19	570	8190	-	7455*						
0.21	570	8190	-	6531						
0.24	570	8190	-	5759						
0.28	570	8190	-	4965						
0.32	570	8190	-	4410						
0.36	570	8190	-	3880						
0.41	570	8190	-	3432						
0.48	570	8190	-	2944*						
0.53	570	8190	-	2630						
0.61	570	8190	-	2279						
0.70	570	8190	-	2014						
0.79	570	8190	-	1772						
0.90	570	8190	-	1559						
1.0	570	8190	-	1363						
1.2	570	8190	-	1194						
1.3	570	8190	-	1045						
1.5	570	8190	-	914						
2 2										
1.7	570	8190	-	809						
2.0	570	8190	-	712						
2.3	570	8190	-	615						
2.6	570	8190	-	543						
3.0	570	8190	-	469						
3.3	570	8190	-	424						
3.8	570	8190	-	365						
4.4	570	8190	-	319						
5.0	570	8190	-	281						


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Possible geometrical combinations of S..DRN..

S67R37, $n_e=1400$ 1/min					570 Nm			
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L
5.7	570	8190	-	246				
6.3	570	8190	-	221				
7.1	570	8190	-	198				
8.3	570	8190	-	168				
9.0	570	8190	-	156				

S77, $n_e=1400$ 1/min					1270 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	DRN132S DRN132M	DRN132L DRN160M DRN160L	
 2												
5.5	1270	11700	-	256.47								
6.2	1270	11700	-	225.26								
6.5	1270	11700	-	214.00*								
7.4	1270	11700	-	189.09								
8.7	1260	11800	-	161.60*								
9.4	1240	12000	-	148.15								
11	1210	12200	-	130.00*								
11	1200	12300	-	123.20*								
13	1170	12600	-	107.83								
14	1140	12800	-	97.14								
16	1100	13100	-	85.22								
19	1070	12800	-	75.20*								
19	1100	11900	-	75.09								
20	1100	11600	-	71.33								
21	1040	12300	-	66.67								
22	1100	10900	-	63.03								
25	990	11600	-	56.92								
26	1100	10100	-	53.87								
28	1100	9650	-	49.38								
32	1100	9010	-	43.33								
34	1100	8750	-	41.07								
39	1100	8140	-	35.94								
43	1090	7720	-	32.38								
49	1050	7370	-	28.41								
56	1020	7010	-	25.07								
61	705	5960	-	22.89								
63	980	6740	-	22.22								
67	705	5380	-	20.99								
74	930	6390	-	18.97								
76	705	4550	-	18.42								
80	710	4120	-	17.45								
92	710	3320	-	15.28								
102	710	2710	-	13.76								
116	720	1800	-	12.07								
131	720	1130	-	10.65								
148	725	415	-	9.44								
174	680	440	-	8.06								

S77R37, n _e =1400 1/min					1270 Nm			
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(R) °	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L
 2  3								
0.05	1270	11700	-	25493				
0.06	1270	11700	-	21787				
0.07	1270	11700	-	19907				
0.08	1270	11700	-	17013				
0.10	1270	11700	-	14668				
0.11	1270	11700	-	13110				
0.12	1270	11700	-	11569				
0.14	1270	11700	-	9887				
0.16	1270	11700	-	8817				
0.18	1270	11700	-	7735				
0.21	1270	11700	-	6735				
0.24	1270	11700	-	5943				
0.27	1270	11700	-	5214				
0.30	1270	11700	-	4618				
0.35	1270	11700	-	3992				
0.40	1270	11700	-	3540				
0.45	1270	11700	-	3098				
0.51	1240	12000	-	2753				
0.59	1240	12000	-	2374				
0.67	1240	12000	-	2083				
0.77	1240	12000	-	1813				
0.80	1240	12000	-	1745				
0.88	1240	12000	-	1600				
1.00	1240	12000	-	1404				
1.1	1240	12000	-	1245				
 2  2								
1.3	1240	12000	-	1100				
1.5	1240	12000	-	954				
1.7	1240	12000	-	837				
2.0	1240	12000	-	714				
2.2	1240	12000	-	637				
2.4	1240	12000	-	574				
2.8	1240	12000	-	499				
3.2	1240	12000	-	438				
3.6	1240	12000	-	389				
4.3	1240	12000	-	327				
4.8	1240	12000	-	289				
5.6	1240	12000	-	250				
6.4	1240	12000	-	219				



S87, n _e =1400 1/min					2280 Nm							
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(R) °	i	DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L	DRN112M	DRN132S DRN132M	DRN132L DRN160M DRN160L	DRN180M DRN180L
 2												
4.9	2280	27900	-	288.00*								
5.4	2280	27900	-	258.18								
6.3	2280	27900	-	222.40*								



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Helical-worm gearmotors

Possible geometrical combinations of S..DRN..

S87, $n_e=1400$ 1/min					2280 Nm							
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ °	i	DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L	DRN112M	DRN132S DRN132M	DRN132L DRN160M DRN160L	DRN180M DRN180L
6.9	2260	28000	-	202.96								
7.8	2210	28100	-	180.00*								
9.3	2150	28200	-	151.30								
10	2100	28300	-	139.05								
11	2060	28300	-	123.48								
13	2000	28400	-	110.40*								
14	1960	28500	-	99.26								
15	1510	29100	-	91.20*								
16	1880	28600	-	86.15								
17	1600	29000	-	81.76								
18	1820	28700	-	77.14								
20	1600	29000	-	70.43								
22	1600	29000	-	64.27								
22	1700	28900	-	64.00*								
25	1600	29000	-	57.00*								
29	1600	29000	-	47.91								
32	1600	29000	-	44.03								
36	1600	28200	-	39.10								
40	1600	27100	-	34.96*								
45	1600	26000	-	31.43								
51	1600	24700	-	27.28								
55	1240	23400	-	25.50*								
57	1600	23700	-	24.43								
65	1240	21800	-	21.43								
69	1600	22100	-	20.27								
71	1240	21100	-	19.70								
80	1240	20200	-	17.49								
90	1240	19300	-	15.64*								
100	1240	18500	-	14.06								
115	1240	17400	-	12.21								
128	1240	16400	-	10.93								
154	1140	15900	-	9.07								
178	1010	15700	-	7.88								

S87R57, $n_e=1400$ 1/min					2500 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	DRN132S DRN132M
 2  3										
0.05	2500	27500	-	25987						
0.06	2500	27500	-	23940						
0.07	2500	27500	-	20568						
0.08	2500	27500	-	18265						
0.08	2500	27500	-	16774						
0.09	2500	27500	-	14820						
0.11	2500	27500	-	13160						
0.12	2500	27500	-	11200						
0.14	2500	27500	-	9904						
0.16	2500	27500	-	8549						
0.18	2500	27500	-	7643						

S87R57, $n_e=1400$ 1/min					2500 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	DRN132S DRN132M
0.21	2500	27500	-	6706						
0.24	2500	27500	-	5875						
0.27	2500	27500	-	5187						
0.30	2500	27500	-	4606						
0.36	2500	27500	-	3872						
 2  2										
0.40	2500	27500	-	3475						
0.48	2500	27500	-	2905						
0.54	2500	27500	-	2586						
0.60	2500	27500	-	2335						
0.68	2500	27500	-	2054						
0.77	2500	27500	-	1824						
0.86	2500	27500	-	1631*						
1.1	2500	27500	-	1332						
1.2	2500	27500	-	1191						
1.4	2500	27500	-	1032*						
1.5	2500	27500	-	930						
1.7	2500	27500	-	831						
1.9	2500	27500	-	719						
2.2	2500	27500	-	624						
2.5	2500	27500	-	558						
2.9	2500	27500	-	485						
3.2	2450	27600	-	435						
3.7	2450	27600	-	378						
4.3	2400	27700	-	323						
5.0	2400	27700	-	281						
5.5	1980	28400	-	255						
6.3	1980	28400	-	222						
6.8	1980	28400	-	205						


S97, $n_e=1400$ 1/min					4000 Nm								
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ '	i	DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L	DRN112M	DRN132S DRN132M	DRN132L DRN160M DRN160L	DRN180M DRN180L	DRN200L DRN225S
 2													
4.9	4000	33200	-	286.40*									
5.3	4000	33200	-	262.22									
6.0	4000	33200	-	231.67									
7.1	4000	33200	-	196.52									
7.7	3920	33400	-	180.95									
8.7	3840	33500	-	161.74									
9.6	3730	33700	-	145.60*									
11	3650	33900	-	131.85									
12	3510	34100	-	116.92									
13	3440	34300	-	105.71									
16	3240	34600	-	89.60*									
17	3230	34600	-	80.85									
18	3080	34800	-	78.26									
20	3300	34500	-	71.43									

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Helical-worm gearmotors

Possible geometrical combinations of S..DRN..

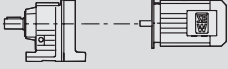

S97, $n_e=1400$ 1/min						4000 Nm							
n_a 1/ min	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ '	i	DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L	DRN112M	DRN132S DRN132M	DRN132L DRN160M DRN160L	DRN180M DRN180L	DRN200L DRN225S
21	2900	35100	-	65.45									
23	3300	34500	-	60.59									
25	3300	34500	-	55.79									
28	3300	34500	-	49.87									
31	3300	34100	-	44.89									
34	3300	32800	-	40.65									
39	3300	31300	-	36.05									
43	3200	30400	-	32.60									
51	3010	29000	-	27.63									
53	2600	26100	-	26.39									
58	2870	28000	-	24.13									
59	2600	24500	-	23.59									
66	2600	22800	-	21.23									
73	2600	21200	-	19.23									
82	2570	19700	-	17.05									
91	2470	19400	-	15.42									
107	2330	18800	-	13.07									
123	2210	18400	-	11.41									
147	2040	18200	-	9.55									
169	1770	18800	-	8.26									

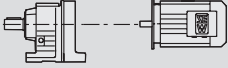

S97R57, $n_e=1400$ 1/min						4200 Nm				
n_a 1/min	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ '	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L	DRN112M	DRN132S DRN132M
										
0.04	4200	32800	-	33818						
0.04	4200	32800	-	31154						
0.05	4200	32800	-	27847						
0.06	4200	32800	-	24641						
0.07	4200	32800	-	21537						
0.07	4200	32800	-	18749*						
0.09	4200	32800	-	16233						
0.10	4200	32800	-	14576						
0.11	4200	32800	-	12752						
0.12	4200	32800	-	11267						
0.14	4200	32800	-	10078						
0.16	4200	32800	-	8608						
0.19	4200	32800	-	7554						
0.21	4200	31300	-	6640						
0.24	4200	31300	-	5780*						
0.28	4200	31300	-	4937						
0.32	4200	31300	-	4444						
0.35	4200	31300	-	4017						
0.41	4200	31300	-	3453						
0.45	4200	31300	-	3108						
0.53	4200	31300	-	2654						
0.60	4200	31300	-	2329						
0.67	4200	31300	-	2081						

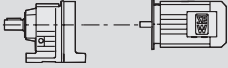

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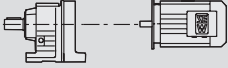

S97R57, n _e =1400 1/min					4200 Nm					
n _a 1/min	M _{amax} Nm	F _{Ra} N	φ _(/R) '	i	DR63S DR63M DR63L DRS71S DRS71M	DRN80M DRN90S	DRN90L	DRN100LS DRN100L	DRN112M	DRN132S DRN132M
0.75	4200	31300	-	1860						
0.89	4200	31300	-	1574*						
 2  2										
1.0	4200	31300	-	1394						
1.1	4200	31300	-	1223						
1.3	4200	31300	-	1070						
1.5	4200	31300	-	928						
1.7	4200	31300	-	824						
2.0	4200	32800	-	714						
2.2	4200	31300	-	626*						
2.6	4200	31300	-	538						
2.9	4200	31400	-	484*						
3.3	4200	31400	-	420						
3.7	4200	31400	-	376						
4.3	4200	31500	-	327						
4.9	4200	31500	-	287						
5.6	4200	31500	-	252						
6.4	4200	31600	-	219						
6.8	4200	31600	-	205						

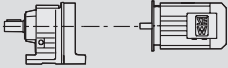

11.3 S..DRN.. selection tables in kW



P_m = 0.12 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B				m kg		
0.12	4740	11267	25100	0.90	S	97R57	DR	63S4	170	709
0.14	4330	10078	32500	0.95	SF	97R57	DR	63S4	200	709
0.16	3590	8608	34000	1.15	SA	97R57	DR	63S4	160	709
0.18	3180	7554	34700	1.30	SAF	97R57	DR	63S4	190	709
0.21	2690	6706	27100	0.95	S	87R57	DR	63S4	110	709
0.23	2400	5875	27700	1.05	SF	87R57	DR	63S4	130	709
0.27	1980	5187	28500	1.25	SA	87R57	DR	63S4	105	709
0.30	1760	4606	28800	1.40	SAF	87R57	DR	63S4	120	709
0.36	1460	3872	29200	1.70						
0.39	1370	3540	7240	0.90						
0.45	1200	3098	12300	1.05						
0.58	1320	2374	10600	0.95	S	77R37	DR	63S4	59	709
0.66	1160	2083	12600	1.05	SF	77R37	DR	63S4	68	709
0.76	980	1813	13900	1.25	SA	77R37	DR	63S4	58	709
0.79	930	1745	14200	1.30	SAF	77R37	DR	63S4	65	709
0.86	860	1600	14600	1.45						
0.98	755	1404	15100	1.65						
1.1	660	1245	15500	1.90						
1.2	585	1194	7990	0.95	S	67R37	DR	63S4	39	709
1.3	530	1045	8560	1.05	SF	67R37	DR	63S4	46	709
1.5	455	914	9180	1.25	SA	67R37	DR	63S4	40	709
					SAF	67R37	DR	63S4	45	709
1.7	415	809	9460	1.35						
1.9	365	712	9780	1.55	S	67R37	DR	63S4	39	709
2.2	305	615	10100	1.85	SF	67R37	DR	63S4	46	709
2.5	275	543	10200	2.1	SA	67R37	DR	63S4	40	709
2.9	225	469	10400	2.5	SAF	67R37	DR	63S4	45	709
3.3	200	424	10500	2.8						
3.8	187	365	10500	3.0						
2.1	325	655	6800	0.90						
2.4	285	574	7200	1.05	S	57R17	DR	63S4	20	709
2.7	250	506	7480	1.20	SF	57R17	DR	63S4	24	709
3.2	215	438	7700	1.40	SA	57R17	DR	63S4	20	709
3.6	189	388	7850	1.60	SAF	57R17	DR	63S4	23	709
4.1	169	336	7950	1.80						
4.7	145	294	8050	2.1						
5.1	139	269	8070	2.2						
3.2	215	438	5010	0.85						
3.6	189	388	5170	1.00	S	47R17	DR	63S4	17	709
4.1	168	336	5290	1.10	SF	47R17	DR	63S4	20	709
4.7	143	294	5420	1.30	SA	47R17	DR	63S4	18	709
5.4	98	257	5660	1.90	SAF	47R17	DR	63S4	19	709
6.0	118	229	5550	1.55						
6.9	102	200	5610	1.80						
7.4	96	187	5640	1.95						
6.8	103	202	3000	0.90						
7.7	91	179	3000	1.00	S	37R17	DR	63S4	14	709
8.7	82	158	3000	1.15	SF	37R17	DR	63S4	15	709
9.6	75	144	3000	1.20	SA	37R17	DR	63S4	13	709
12	61	118	3000	1.50	SAF	37R17	DR	63S4	15	709
13	57	110	3000	1.60						
4.5	143	201.00*	8050	2.1	S	57	DR	63M6	17	684
4.9	133	184.80*	8090	2.2	SF	57	DR	63M6	21	685
5.7	116	158.12	8140	2.5	SA	57	DR	63M6	17	686
6.6	103	137.05	8180	2.9	SAF	57	DR	63M6	20	685
4.5	138	201.00*	5490	1.30	S	47	DR	63M6	14	679
4.9	129	184.80*	5540	1.40	SF	47	DR	63M6	17	680
5.7	112	158.12	5610	1.55	SA	47	DR	63M6	15	681
6.6	99	137.05	5660	1.75	SAF	47	DR	63M6	16	680
7.0	93	128.10*	5680	1.85						

P_m = 0.12 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
6.9	95	201.00*	5680	1.80						
7.5	89	184.80*	5700	1.90	S	47	DR	63S4	14	679
8.7	77	158.12	5740	2.2	SF	47	DR	63S4	17	680
10	68	137.05	5770	2.5	SA	47	DR	63S4	15	681
11	64	128.10*	5790	2.6	SAF	47	DR	63S4	16	680
12	57	110.73	5810	3.0						
5.7	107	157.43	3000	0.85						
6.2	99	144.40*	3000	0.95	S	37	DR	63M6	11	675
7.3	86	122.94	3000	1.05	SF	37	DR	63M6	12	676
8.5	76	106.00*	3000	1.20	SA	37	DR	63M6	10	677
9.1	71	98.80*	3000	1.30	SAF	37	DR	63M6	12	676
10	63	86.36	3000	1.45						
8.8	74	157.43	3000	1.25						
9.6	68	144.40*	3000	1.35	S	37	DR	63S4	11	675
11	59	122.94	3000	1.55	SF	37	DR	63S4	12	676
13	52	106.00*	3000	1.70	SA	37	DR	63S4	10	677
14	49	98.80*	3000	1.75	SAF	37	DR	63S4	12	676
16	44	86.36	3000	1.95						
17	41	80.96	3000	2.1						
19	37	71.44*	3000	2.3						
22	33	63.33	3000	2.5						
25	35	55.93	3000	2.3						
27	33	51.30*	3000	2.5						
32	28	43.68	3000	2.9						
37	25	37.66	3000	3.2	S	37	DR	63S4	11	675
39	23	35.10*	3000	3.4	SF	37	DR	63S4	12	676
45	20	30.68	3000	3.8	SA	37	DR	63S4	10	677
48	19	28.76	3000	3.9	SAF	37	DR	63S4	12	676
54	17	25.38*	3000	4.4						
61	15	22.50*	3000	4.8						
69	14	19.89	3000	3.6						
76	13	18.24*	3000	4.0						
89	11	15.53	2870	4.4						

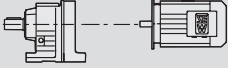

P_m = 0.18 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
0.29	3010	4606	19200	0.85	S	87R57	DR	63M4	110	709
0.34	2510	3872	27500	1.00	SF	87R57	DR	63M4	130	709
					SA	87R57	DR	63M4	105	709
					SAF	87R57	DR	63M4	120	709
0.38	2420	3475	27700	1.05						
0.45	2030	2905	28400	1.25	S	87R57	DR	63M4	105	709
0.51	1760	2586	28800	1.40	SF	87R57	DR	63M4	130	709
0.57	1570	2335	29100	1.60	SA	87R57	DR	63M4	105	709
0.64	1360	2054	29300	1.85	SAF	87R57	DR	63M4	120	709
0.72	1200	1824	29500	2.1						
0.81	1080	1631	29600	2.3						
0.94	1240	1404	11900	1.00	S	77R37	DR	63M4	59	709
1.1	1090	1245	13200	1.15	SF	77R37	DR	63M4	68	709
					SA	77R37	DR	63M4	58	709
					SAF	77R37	DR	63M4	65	709
1.2	1020	1100	13700	1.20						
1.4	870	954	14500	1.40	S	77R37	DR	63M4	58	709
1.6	770	837	15000	1.60	SF	77R37	DR	63M4	68	709
1.8	640	714	15600	1.95	SA	77R37	DR	63M4	58	709
2.1	565	637	15800	2.2	SAF	77R37	DR	63M4	65	709
2.3	515	574	16000	2.4						
1.9	600	712	7860	0.95						
2.2	505	615	8800	1.15	S	67R37	DR	63M4	39	709
2.4	450	543	9230	1.25	SF	67R37	DR	63M4	46	709
2.8	375	469	9720	1.50	SA	67R37	DR	63M4	40	709
3.1	340	424	9930	1.65	SAF	67R37	DR	63M4	45	709
3.6	305	365	10100	1.85						

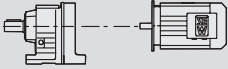

P_m = 0.18 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
3.0	355	438	6520	0.85						
3.4	310	388	6970	0.95						
3.9	275	336	7290	1.10	S	57R17	DR	63M4	20	709
4.5	235	294	7560	1.25	SF	57R17	DR	63M4	24	709
4.9	225	269	7650	1.35	SA	57R17	DR	63M4	20	709
5.8	193	229	7830	1.55	SAF	57R17	DR	63M4	23	709
6.5	174	204	7920	1.75						
7.0	159	187	7990	1.90						
4.5	235	294	4480	0.80						
5.1	162	257	5380	1.15						
5.8	190	229	5170	0.95	S	47R17	DR	63M4	17	709
6.6	167	200	5300	1.10	SF	47R17	DR	63M4	20	709
7.0	156	187	5360	1.20	SA	47R17	DR	63M4	18	709
8.0	138	165	5450	1.35	SAF	47R17	DR	63M4	19	709
9.0	124	148	5520	1.50						
10	110	131	5580	1.70						
4.0	250	217.41	10300	2.2	S	67	DR	63L6	29	689
4.6	220	190.11	10400	2.5	SF	67	DR	63L6	35	690
4.8	210	180.60*	10400	2.6	SA	67	DR	63L6	30	691
					SAF	67	DR	63L6	34	690
4.3	220	201.00*	7670	1.35	S	57	DR	63L6	18	684
4.7	205	184.80*	7760	1.45	SF	57	DR	63L6	22	685
5.5	180	158.12	7900	1.65	SA	57	DR	63L6	18	686
6.4	159	137.05	7990	1.85	SAF	57	DR	63L6	21	685
6.6	154	201.00*	8010	1.90	S	57	DR	63M4	17	684
7.1	143	184.80*	8050	2.1	SF	57	DR	63M4	21	685
8.4	125	158.12	8120	2.4	SA	57	DR	63M4	17	686
9.6	110	137.05	8160	2.7	SAF	57	DR	63M4	20	685
4.3	210	201.00*	5090	0.85	S	47	DR	63L6	14	679
4.7	199	184.80*	5180	0.90	SF	47	DR	63L6	18	680
5.5	173	158.12	5320	1.00	SA	47	DR	63L6	15	681
6.4	153	137.05	5420	1.10	SAF	47	DR	63L6	17	680
6.8	144	128.10*	5460	1.20						
6.6	149	201.00*	5440	1.15						
7.1	138	184.80*	5490	1.25						
8.4	121	158.12	5570	1.40						
9.6	107	137.05	5630	1.60	S	47	DR	63M4	14	679
10	100	128.10*	5660	1.65	SF	47	DR	63M4	17	680
12	88	110.73	5700	1.90	SA	47	DR	63M4	15	681
14	77	94.08*	5750	2.2	SAF	47	DR	63M4	16	680
16	69	84.00*	5770	2.4						
18	60	71.75*	5800	2.8						
19	69	69.39	5750	2.2						
8.4	115	157.43	3000	0.80						
9.1	107	144.40*	3000	0.85	S	37	DR	63M4	11	675
11	93	122.94	3000	1.00	SF	37	DR	63M4	12	676
12	82	106.00*	3000	1.10	SA	37	DR	63M4	10	677
13	77	98.80*	3000	1.15	SAF	37	DR	63M4	12	676
15	68	86.36	3000	1.25						
16	64	80.96	3000	1.30						

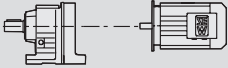

P_m = 0.18 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
18	58	71.44*	3000	1.45						
21	52	63.33	3000	1.60						
24	55	55.93	3000	1.45						
26	51	51.30*	3000	1.60						
30	44	43.68	3000	1.85						
35	38	37.66	3000	2.1						
38	36	35.10*	3000	2.2						
43	32	30.68	3000	2.4	S	37	DR	63M4	11	675
46	30	28.76	3000	2.5	SF	37	DR	63M4	12	676
52	27	25.38*	3000	2.8	SA	37	DR	63M4	10	677
59	24	22.50*	3000	3.1	SAF	37	DR	63M4	12	676
66	22	19.89	3000	2.3						
72	21	18.24*	2950	2.5						
85	18	15.53	2820	2.8						
99	15	13.39	2710	3.2						
106	14	12.48*	2660	3.4						
121	13	10.91	2560	3.8						
129	12	10.23	2510	4.0						

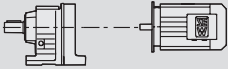

P_m = 0.25 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
0.45	2930	2905	22200	0.85						
0.50	2560	2586	27400	1.00						
0.56	2290	2335	27900	1.10	S	87R57	DR	63L4	110	709
0.63	1990	2054	28400	1.25	SF	87R57	DR	63L4	130	709
0.71	1770	1824	28800	1.40	SA	87R57	DR	63L4	105	709
0.80	1580	1631	29100	1.60	SAF	87R57	DR	63L4	120	709
1.4	930	930	29700	2.7						
1.4	1250	954	11800	1.00						
1.6	1100	837	13100	1.10	S	77R37	DR	63L4	59	709
1.8	920	714	14200	1.35	SF	77R37	DR	63L4	69	709
2.0	820	637	14800	1.50	SA	77R37	DR	63L4	59	709
2.3	745	574	15200	1.65	SAF	77R37	DR	63L4	65	709
2.6	635	499	15600	1.95						
2.4	650	543	6280	0.85						
2.8	550	469	8390	1.05	S	67R37	DR	63L4	40	709
3.1	495	424	8880	1.15	SF	67R37	DR	63L4	46	709
3.6	440	365	9320	1.30	SA	67R37	DR	63L4	41	709
4.1	380	319	9700	1.50	SAF	67R37	DR	63L4	45	709
4.6	335	281	9960	1.70						
4.4	340	294	6640	0.85						
4.8	320	269	6870	0.95						
5.7	275	229	7280	1.10	S	57R17	DR	63L4	21	709
6.4	245	204	7490	1.20	SF	57R17	DR	63L4	25	709
6.9	225	187	7630	1.30	SA	57R17	DR	63L4	21	709
7.9	200	165	7780	1.50	SAF	57R17	DR	63L4	24	709
9.9	162	131	7980	1.85						
4.1	340	217.41	9920	1.65	S	67	DRS	71S6	31	689
4.7	300	190.11	10100	1.85	SF	67	DRS	71S6	37	690
5.0	290	180.60*	10200	1.90	SA	67	DRS	71S6	32	691
5.6	255	158.45	10300	2.1	SAF	67	DRS	71S6	36	690
6.0	245	217.41	10300	2.1						
6.8	215	190.11	10400	2.4						
7.2	205	180.60*	10500	2.5	S	67	DR	63L4	29	689
8.2	187	158.45	10500	2.8	SF	67	DR	63L4	35	690
9.7	161	134.40*	10600	3.2	SA	67	DR	63L4	30	691
11	147	121.33	10600	3.5	SAF	67	DR	63L4	34	690
12	131	106.75*	10700	4.0						
4.4	295	201.00*	7080	1.00						
4.8	275	184.80*	7260	1.10	S	57	DRS	71S6	20	684
5.7	240	158.12	7530	1.20	SF	57	DRS	71S6	24	685
6.5	210	137.05	7710	1.35	SA	57	DRS	71S6	20	686
7.0	200	128.10*	7780	1.45	SAF	57	DRS	71S6	23	685

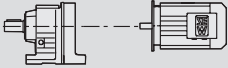

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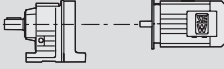

P_m = 0.25 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
6.5	215	201.00*	7700	1.35						
7.0	200	184.80*	7790	1.45						
8.2	176	158.12	7920	1.70	S	57	DR	63L4	18	684
9.5	155	137.05	8010	1.90	SF	57	DR	63L4	22	685
10	146	128.10*	8040	2.0	SA	57	DR	63L4	18	686
12	128	110.73	8100	2.3	SAF	57	DR	63L4	21	685
14	111	94.08*	8160	2.6						
15	101	84.00*	8190	2.9						
6.5	205	201.00*	5120	0.80						
7.0	194	184.80*	5200	0.85						
8.2	170	158.12	5340	1.00						
9.5	150	137.05	5440	1.10						
10	141	128.10*	5480	1.20						
12	124	110.73	5560	1.35	S	47	DR	63L4	14	679
14	108	94.08*	5630	1.55	SF	47	DR	63L4	18	680
15	98	84.00*	5670	1.70	SA	47	DR	63L4	15	681
18	85	71.75*	5720	1.95	SAF	47	DR	63L4	17	680
19	97	69.39	5640	1.60						
19	80	67.20*	5730	2.1						
20	90	63.80*	5670	1.70						
24	78	54.59	5720	2.00						
27	68	47.32	5760	2.3						
13	108	98.80*	3000	0.80						
15	96	86.36	3000	0.90						
16	91	80.96	3000	0.95						
18	81	71.44*	3000	1.05						
21	73	63.33	3000	1.10						
23	78	55.93	3000	1.05						
25	72	51.30*	3000	1.15						
30	62	43.68	3000	1.30						
35	54	37.66	3000	1.45						
37	51	35.10*	3000	1.55						
42	45	30.68	3000	1.70						
45	42	28.76	3000	1.80						
51	37	25.38*	3000	2.00	S	37	DR	63L4	11	675
58	33	22.50*	3000	2.2	SF	37	DR	63L4	13	676
65	32	19.89	2890	1.65	SA	37	DR	63L4	11	677
71	29	18.24*	2830	1.80	SAF	37	DR	63L4	13	676
84	25	15.53	2730	2.0						
97	22	13.39	2630	2.3						
104	20	12.48*	2580	2.4						
119	18	10.91	2490	2.7						
127	17	10.23	2450	2.8						
144	15	9.02*	2370	3.1						
162	13	8.00*	2290	3.4						
191	11	6.80*	2190	3.8						
205	11	6.33	2140	3.3						
241	9.0	5.38	2040	3.8						
267	8.1	4.86*	1980	4.0						
328	6.7	3.97	1870	4.8						
92	21	28.76	2740	3.0						
105	19	25.38*	2650	3.3						
118	17	22.50*	2560	3.4	S	37	DR	63M2	11	675
134	16	19.89	2420	2.8	SF	37	DR	63M2	12	676
146	15	18.24*	2360	3.0	SA	37	DR	63M2	10	677
171	12	15.53	2260	3.4	SAF	37	DR	63M2	12	676
199	11	13.39	2170	3.8						
213	10	12.48*	2120	4.0						

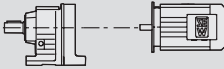

P_m = 0.37 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
0.67	2850	2054	24500	0.90	S	87R57	DRS	71S4	110	709
0.76	2530	1824	27400	1.00	SF	87R57	DRS	71S4	130	709
0.85	2260	1631	28000	1.10	SA	87R57	DRS	71S4	105	709
1.5	1340	930	29400	1.85	SAF	87R57	DRS	71S4	125	709
1.7	1210	831	29500	2.1						
1.9	1310	714	11300	0.95						
2.2	1160	637	12600	1.05	S	77R37	DRS	71S4	61	709
2.4	1050	574	13400	1.15	SF	77R37	DRS	71S4	71	709
2.8	900	499	14300	1.35	SA	77R37	DRS	71S4	61	709
3.2	795	438	14900	1.55	SAF	77R37	DRS	71S4	67	709
3.6	705	389	15300	1.75						
3.8	620	365	7560	0.90	S	67R37	DRS	71S4	42	709
4.3	540	319	8450	1.05	SF	67R37	DRS	71S4	48	709
4.9	475	281	9030	1.20	SA	67R37	DRS	71S4	43	709
5.6	430	246	9380	1.30	SAF	67R37	DRS	71S4	47	709
3.5	635	256.47	15600	2.00	S	77	DRS	71M6	53	694
4.0	565	225.26	15800	2.2	SF	77	DRS	71M6	63	695
4.2	540	214.00*	15900	2.3	SA	77	DRS	71M6	52	696
					SAF	77	DRS	71M6	59	695
4.2	500	217.41	8830	1.10	S	67	DRS	71M6	32	689
4.8	445	190.11	9280	1.25	SF	67	DRS	71M6	38	690
5.0	425	180.60*	9410	1.30	SA	67	DRS	71M6	33	691
5.7	380	158.45	9710	1.45	SAF	67	DRS	71M6	37	690
6.4	345	217.41	9900	1.50						
7.3	305	190.11	10100	1.70	S	67	DRS	71S4	31	689
7.6	290	180.60*	10100	1.75	SF	67	DRS	71S4	37	690
8.7	260	158.45	10300	2.00	SA	67	DRS	71S4	32	691
10	225	134.40*	10400	2.3	SAF	67	DRS	71S4	36	690
11	205	121.33	10500	2.5						
5.7	355	158.12	6510	0.85						
6.6	310	137.05	6950	0.95	S	57	DRS	71M6	21	684
7.1	295	128.10*	7110	1.00	SF	57	DRS	71M6	25	685
8.2	260	110.73	7400	1.15	SA	57	DRS	71M6	21	686
9.6	225	94.08*	7640	1.30	SAF	57	DRS	71M6	24	685
11	205	84.00*	7760	1.45						
6.9	300	201.00*	7040	0.95						
7.5	280	184.80*	7230	1.05						
8.7	245	158.12	7500	1.20						
10	215	137.05	7690	1.35						
11	205	128.10*	7760	1.45	S	57	DRS	71S4	20	684
12	180	110.73	7890	1.65	SF	57	DRS	71S4	24	685
15	156	94.08*	8000	1.90	SA	57	DRS	71S4	20	686
16	141	84.00*	8060	2.1	SAF	57	DRS	71S4	23	685
19	122	71.75*	8120	2.4						
20	139	69.39	8070	1.75						
21	115	67.20*	8150	2.5						
22	128	63.80*	8110	1.90						

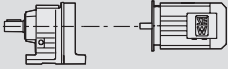

P_m = 0.37 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
10	210	137.05	5110	0.80						
11	199	128.10*	5180	0.85						
12	175	110.73	5320	0.95						
15	151	94.08*	5430	1.10						
16	137	84.00*	5500	1.20						
19	119	71.75*	5580	1.40						
20	136	69.39	5460	1.15						
21	112	67.20*	5610	1.50						
22	126	63.80*	5510	1.25	S	47	DRS	71S4	16	679
25	109	54.59	5590	1.40	SF	47	DRS	71S4	20	680
29	96	47.32	5420	1.60	SA	47	DRS	71S4	17	681
31	90	44.22*	5330	1.75	SAF	47	DRS	71S4	19	680
36	78	38.23	5140	2.00						
42	67	32.48*	4940	2.3						
48	60	29.00*	4790	2.6						
56	52	24.77	4590	3.0						
59	49	23.20*	4510	3.1						
68	46	20.33	4200	2.4						
78	40	17.62	4050	2.8						
84	37	16.47*	3980	3.0						
22	103	63.33	3000	0.80						
27	101	51.30*	3000	0.80						
32	87	43.68	3000	0.95						
37	76	37.66	3000	1.05						
39	71	35.10*	3000	1.10						
45	62	30.68	3000	1.20						
48	59	28.76	3000	1.30						
54	52	25.38*	2950	1.40						
61	47	22.50*	2870	1.55						
69	44	19.89	2630	1.20	S	37	DRS	71S4	13	675
76	41	18.24*	2590	1.30	SF	37	DRS	71S4	15	676
89	35	15.53	2520	1.45	SA	37	DRS	71S4	13	677
103	30	13.39	2440	1.60	SAF	37	DRS	71S4	15	676
111	28	12.48*	2400	1.70						
126	25	10.91	2330	1.95						
135	23	10.23	2300	2.0						
153	21	9.02*	2230	2.2						
172	18	8.00*	2160	2.4						
203	16	6.80*	2080	2.7						
218	15	6.33	2030	2.4						
256	13	5.38	1940	2.7						
284	11	4.86*	1890	2.9						
348	9.3	3.97	1790	3.4						
104	28	25.38*	2540	2.2						
118	25	22.50*	2470	2.3						
133	24	19.89	2300	1.85						
145	22	18.24*	2260	2.0	S	37	DR	63L2	11	675
171	19	15.53	2170	2.3	SF	37	DR	63L2	13	676
198	16	13.39	2090	2.6	SA	37	DR	63L2	11	677
212	15	12.48*	2050	2.7	SAF	37	DR	63L2	13	676
243	13	10.91	1980	3.0						
259	12	10.23	1950	3.1						
294	11	9.02*	1880	3.3						

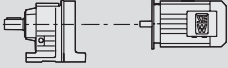

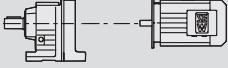

P_m = 0.55 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
1.0	2840	1332	24800	0.90						
1.1	2560	1191	27300	0.95						
1.3	2230	1032	28000	1.10						
1.5	2060	930	28300	1.20	S	87R57	DRS	71M4	110	709
1.6	1860	831	28700	1.35	SF	87R57	DRS	71M4	130	709
1.9	1620	719	29000	1.55	SA	87R57	DRS	71M4	110	709
2.2	1410	624	29300	1.75	SAF	87R57	DRS	71M4	125	709
2.4	1280	558	29400	1.95						
3.1	1020	435	29700	2.4						

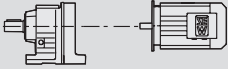

P_m = 0.55 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
3.1	1220	438	12100	1.00	S	77R37	DRS	71M4	62	709
3.5	1080	389	13200	1.15	SF	77R37	DRS	71M4	72	709
4.2	920	327	14300	1.35	SA	77R37	DRS	71M4	62	709
4.7	830	289	14800	1.50	SAF	77R37	DRS	71M4	68	709
5.4	715	250	15300	1.70						
5.5	655	246	5530	0.85	S	67R37	DRS	71M4	43	709
6.2	585	221	7990	0.95	SF	67R37	DRS	71M4	49	709
6.9	535	198	8520	1.05	SA	67R37	DRS	71M4	44	709
8.1	460	168	9170	1.25	SAF	67R37	DRS	71M4	48	709
3.2	1110	288.00*	29600	2.2	S	87	DRS	80S6	91	699
3.5	1000	258.18	29700	2.4	SF	87	DRS	80S6	115	700
4.1	880	222.40*	29800	2.7	SA	87	DRS	80S6	89	701
4.5	810	202.96	29800	2.9	SAF	87	DRS	80S6	105	700
3.6	940	256.47	14200	1.35	S	77	DRS	80S6	55	694
4.1	830	225.26	14700	1.50	SF	77	DRS	80S6	65	695
4.3	800	214.00*	14900	1.60	SA	77	DRS	80S6	55	696
4.8	715	189.09	15300	1.75	SAF	77	DRS	80S6	61	695
5.7	620	161.60*	15600	2.0						
5.3	660	256.47	15500	1.90	S	77	DRS	71M4	53	694
6.0	585	225.26	15800	2.2	SF	77	DRS	71M4	63	695
6.4	560	214.00*	15800	2.3	SA	77	DRS	71M4	52	696
7.2	500	189.09	16000	2.5	SAF	77	DRS	71M4	59	695
6.3	520	217.41	8660	1.00						
7.2	460	190.11	9150	1.10						
7.5	440	180.60*	9300	1.15						
8.6	390	158.45	9620	1.30	S	67	DRS	71M4	32	689
10	340	134.40*	9930	1.55	SF	67	DRS	71M4	38	690
11	310	121.33	10100	1.65	SA	67	DRS	71M4	33	691
13	275	106.75*	10200	1.85	SAF	67	DRS	71M4	37	690
13	260	100.80*	10300	1.95						
16	225	85.83	10400	2.3						
18	230	75.06	10400	2.1						
21	200	65.63	10500	2.4						
9.7	330	94.08*	6760	0.90						
11	300	84.00*	7070	1.00	S	57	DRS	80S6	23	684
13	260	71.75*	7390	1.10	SF	57	DRS	80S6	27	685
14	245	67.20*	7500	1.20	SA	57	DRS	80S6	23	686
17	240	54.59	7540	1.10	SAF	57	DRS	80S6	26	685
19	210	47.32	7730	1.30						
21	199	44.22*	7800	1.35						
24	173	38.23	7930	1.55						
8.6	370	158.12	6330	0.80						
9.9	325	137.05	6820	0.90						
11	305	128.10*	7000	0.95						
12	270	110.73	7320	1.10						
14	230	94.08*	7580	1.25						
16	210	84.00*	7720	1.40						
19	184	71.75*	7870	1.55	S	57	DRS	71M4	21	684
20	174	67.20*	7920	1.65	SF	57	DRS	71M4	25	685
25	167	54.59	7960	1.45	SA	57	DRS	71M4	21	686
29	146	47.32	8040	1.70	SAF	57	DRS	71M4	24	685
31	137	44.22*	8080	1.80						
36	120	38.23	8130	2.0						
42	103	32.48*	7980	2.4						
47	92	29.00*	7730	2.7						
55	79	24.77	7390	3.1						
59	75	23.20*	7260	3.3						
67	69	20.33	6790	2.4						

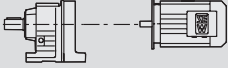

P_m = 0.55 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
16	205	84.00*	5140	0.80						
19	179	71.75*	5290	0.95						
20	169	67.20*	5350	1.00						
25	165	54.59	5140	0.95						
29	144	47.32	5020	1.10						
31	135	44.22*	4960	1.15						
36	118	38.23	4820	1.30						
42	101	32.48*	4660	1.55	S	47	DRS	71M4	17	679
47	91	29.00*	4540	1.70	SF	47	DRS	71M4	21	680
55	78	24.77	4380	2.00	SA	47	DRS	71M4	18	681
59	74	23.20*	4320	2.1	SAF	47	DRS	71M4	20	680
67	69	20.33	3950	1.60						
77	60	17.62	3840	1.85						
83	56	16.47*	3780	1.95						
96	49	14.24	3660	2.2						
112	42	12.10*	3520	2.6						
126	37	10.80*	3420	2.9						
147	32	9.23*	3280	3.4						
44	94	30.68	2680	0.80						
47	89	28.76	2670	0.85						
54	79	25.38*	2640	0.95						
60	70	22.50*	2600	1.05						
71	60	19.13*	2540	1.20						
88	52	15.53	2260	0.95						
102	46	13.39	2220	1.10						
109	43	12.48*	2200	1.15	S	37	DRS	71M4	14	675
125	37	10.91	2160	1.30	SF	37	DRS	71M4	16	676
133	35	10.23	2130	1.35	SA	37	DRS	71M4	14	677
151	31	9.02*	2080	1.50	SAF	37	DRS	71M4	16	676
170	28	8.00*	2040	1.60						
200	24	6.80*	1970	1.80						
215	22	6.33	1920	1.60						
253	19	5.38	1850	1.80						
280	17	4.86*	1810	1.95						
343	14	3.97	1720	2.3						
98	45	28.76	2400	1.45						
111	40	25.38*	2350	1.55						
125	35	22.50*	2290	1.60						
141	33	19.89	2110	1.35						
154	30	18.24*	2080	1.45	S	37	DRS	71M2	14	675
181	26	15.53	2010	1.60	SF	37	DRS	71M2	16	676
210	23	13.39	1950	1.80	SA	37	DRS	71M2	14	677
225	21	12.48*	1920	1.90	SAF	37	DRS	71M2	16	676
258	18	10.91	1860	2.1						
275	17	10.23	1830	2.2						
311	15	9.02*	1780	2.3						
351	14	8.00*	1720	2.6						
413	12	6.80*	1650	2.5						

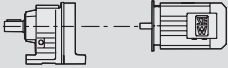

P_m = 0.75 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
1.2	4690	1223	24000	0.90						
1.4	4110	1070	32700	1.00						
1.6	3540	928	34100	1.20	S	97R57	DRN	80M4	175	709
1.8	3130	824	34800	1.35	SF	97R57	DRN	80M4	210	709
2.0	2230	714	35900	1.90	SA	97R57	DRN	80M4	170	709
2.3	2380	626	35800	1.75	SAF	97R57	DRN	80M4	195	709
2.7	2040	538	36100	2.1						
3.0	1840	484	36300	2.3						

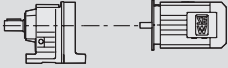

P_m = 0.75 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
1.4	2930	1032	22000	0.85						
1.6	2700	930	27000	0.90						
1.7	2440	831	27600	1.00	S	87R57	DRN	80M4	115	709
2.0	2120	719	28200	1.15	SF	87R57	DRN	80M4	135	709
2.3	1860	624	28700	1.35	SA	87R57	DRN	80M4	115	709
2.6	1680	558	28900	1.50	SAF	87R57	DRN	80M4	130	709
3.3	1340	435	29400	1.80						
4.5	1020	323	29700	2.3						
4.4	1190	327	12300	1.05	S	77R37	DRN	80M4	67	709
5.0	1070	289	13300	1.15	SF	77R37	DRN	80M4	77	709
5.8	930	250	14200	1.35	SA	77R37	DRN	80M4	66	709
6.6	820	219	14800	1.50	SAF	77R37	DRN	80M4	73	709
5.0	1000	288.00*	29700	2.3	S	87	DRN	80M4	94	699
5.6	910	258.18	29800	2.5	SF	87	DRN	80M4	115	700
6.5	795	222.40*	29800	2.9	SA	87	DRN	80M4	91	701
7.1	730	202.96	29900	3.1	SAF	87	DRN	80M4	105	700
5.6	850	256.47	14600	1.50						
6.4	760	225.26	15100	1.65						
6.7	725	214.00*	15200	1.75	S	77	DRN	80M4	58	694
7.6	650	189.09	15500	1.95	SF	77	DRN	80M4	67	695
8.9	560	161.60*	15800	2.2	SA	77	DRN	80M4	57	696
9.7	520	148.15	16000	2.4	SAF	77	DRN	80M4	64	695
11	460	130.00*	16000	2.6						
12	440	123.20*	16000	2.7						
13	390	107.83	16000	3.0						
7.6	600	190.11	7850	0.85						
8.0	570	180.60*	8140	0.90						
9.1	510	158.45	8750	1.00						
11	440	134.40*	9310	1.20						
12	400	121.33	9570	1.30	S	67	DRN	80M4	37	689
13	355	106.75*	9830	1.45	SF	67	DRN	80M4	43	690
14	340	100.80*	9930	1.50	SA	67	DRN	80M4	38	691
17	290	85.83	10100	1.75	SAF	67	DRN	80M4	42	690
19	295	75.06	10100	1.60						
22	260	65.63	10300	1.80						
23	250	62.35*	10300	1.90						
26	220	54.70	10200	2.2						
31	190	46.40*	9740	2.5						
13	350	110.73	6560	0.85						
15	300	94.08*	7040	0.95						
17	275	84.00*	7290	1.05						
20	235	71.75*	7560	1.20						
21	225	67.20*	7650	1.25						
26	215	54.59	7700	1.15						
30	189	47.32	7850	1.30	S	57	DRN	80M4	26	684
33	177	44.22*	7910	1.40	SF	57	DRN	80M4	30	685
38	155	38.23	7910	1.60	SA	57	DRN	80M4	26	686
44	132	32.48*	7590	1.85	SAF	57	DRN	80M4	28	685
50	119	29.00*	7370	2.1						
58	102	24.77	7070	2.4						
62	96	23.20*	6950	2.6						
71	89	20.33	6450	1.90						
82	78	17.62	6230	2.2						
87	73	16.47*	6120	2.3						
101	63	14.24	5890	2.7						
30	186	47.32	4520	0.85	S	47	DRN	80M4	22	679
33	175	44.22*	4490	0.90	SF	47	DRN	80M4	26	680
38	153	38.23	4400	1.00	SA	47	DRN	80M4	23	681
44	131	32.48*	4290	1.20	SAF	47	DRN	80M4	25	680
50	118	29.00*	4210	1.30						

P_m = 0.75 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
58	101	24.77	4080	1.55						
62	95	23.20*	4030	1.60						
71	89	20.33	3630	1.25						
82	77	17.62	3550	1.40						
87	73	16.47*	3510	1.50						
101	63	14.24	3410	1.75						
119	54	12.10*	3300	2.0	S	47	DRN	80M4	22	679
133	48	10.80*	3220	2.3	SF	47	DRN	80M4	26	680
156	41	9.23*	3110	2.6	SA	47	DRN	80M4	23	681
167	39	8.64*	3060	2.8	SAF	47	DRN	80M4	25	680
198	33	7.28	2940	3.1						
225	29	6.40*	2830	2.6						
267	25	5.39	2700	3.0						
302	22	4.76	2620	3.3						
360	18	4.00*	2500	3.3						
75	78	19.13*	2260	0.90						
115	55	12.48*	1960	0.85						
132	48	10.91	1940	1.00						
141	45	10.23	1930	1.05	S	37	DRN	80M4	19	675
160	40	9.02*	1900	1.15	SF	37	DRN	80M4	20	676
180	36	8.00*	1870	1.25	SA	37	DRN	80M4	19	677
212	31	6.80*	1820	1.40	SAF	37	DRN	80M4	20	676
227	29	6.33	1780	1.20						
267	24	5.38	1730	1.40						
296	22	4.86*	1690	1.50						
363	18	3.97	1620	1.75						
P_m = 1.1 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
1.8	4590	824	25600	0.90						
2.0	3280	714	34500	1.30	S	97R57	DRN	90S4	180	709
2.3	3490	626	34200	1.20	SF	97R57	DRN	90S4	215	709
2.7	3000	538	34900	1.40	SA	97R57	DRN	90S4	175	709
3.0	2710	484	35400	1.55	SAF	97R57	DRN	90S4	200	709
3.5	2350	420	35800	1.80						
2.3	2740	624	26500	0.90						
2.6	2480	558	27500	1.00						
3.0	2180	485	28100	1.15						
3.4	1980	435	28500	1.25	S	87R57	DRN	90S4	120	709
3.8	1740	378	28800	1.40	SF	87R57	DRN	90S4	145	709
4.5	1510	323	29100	1.60	SA	87R57	DRN	90S4	120	709
5.2	1330	281	29400	1.80	SAF	87R57	DRN	90S4	135	709
5.7	1420	255	29200	1.40						
6.6	1240	222	29400	1.60						
7.1	1160	205	29500	1.70						
6.6	1200	219	12200	1.05	S	77R37	DRN	90S4	73	709
					SF	77R37	DRN	90S4	82	709
					SA	77R37	DRN	90S4	72	709
					SAF	77R37	DRN	90S4	79	709
5.0	1460	288.00*	29200	1.55						
5.6	1320	258.18	29400	1.70	S	87	DRN	90S4	99	699
6.5	1150	222.40*	29500	1.95	SF	87	DRN	90S4	120	700
7.2	1060	202.96	29600	2.1	SA	87	DRN	90S4	96	701
8.1	950	180.00*	29700	2.3	SAF	87	DRN	90S4	110	700
9.6	810	151.30	29800	2.6						

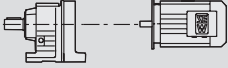

P_m = 1.1 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
6.5	1100	225.26	13100	1.15						
6.8	1050	214.00*	13400	1.20						
7.7	940	189.09	14100	1.35						
9.0	820	161.60*	14800	1.55	S	77	DRN	90S4	63	694
9.8	755	148.15	15100	1.65	SF	77	DRN	90S4	72	695
11	670	130.00*	15500	1.80	SA	77	DRN	90S4	62	696
12	640	123.20*	15600	1.85	SAF	77	DRN	90S4	69	695
13	565	107.83	15800	2.1						
15	510	97.14	16000	2.2						
17	455	85.22	16000	2.4						
12	585	121.33	8020	0.90						
14	520	106.75*	8660	1.00						
14	495	100.80*	8890	1.05						
17	425	85.83	9400	1.20						
19	390	78.00*	9640	1.30	S	67	DRN	90S4	43	689
22	380	65.63	9690	1.25	SF	67	DRN	90S4	50	690
23	365	62.35*	9750	1.30	SA	67	DRN	90S4	44	691
27	320	54.70	9500	1.50	SAF	67	DRN	90S4	48	690
31	275	46.40*	9170	1.75						
35	250	41.89	8960	1.90						
39	220	36.85	8700	2.2						
42	210	34.80*	8590	2.3						
49	180	29.63	8260	2.7						
20	345	71.75*	6620	0.85	S	57	DRN	90S4	32	684
22	325	67.20*	6830	0.85	SF	57	DRN	90S4	35	685
26	275	56.61	7260	0.95	SA	57	DRN	90S4	31	686
31	270	47.32	7300	0.90	SAF	57	DRN	90S4	34	685
33	255	44.22*	7430	0.95						
38	220	38.23	7360	1.10						
45	192	32.48*	7120	1.25						
50	173	29.00*	6950	1.40						
59	149	24.77	6710	1.65	S	57	DRN	90S4	32	684
63	140	23.20*	6610	1.75	SF	57	DRN	90S4	35	685
74	119	19.54	6340	1.80	SA	57	DRN	90S4	31	686
83	113	17.62	5860	1.50	SAF	57	DRN	90S4	34	685
88	106	16.47*	5780	1.60						
102	92	14.24	5590	1.85						
120	78	12.10*	5380	2.2						
135	70	10.80*	5230	2.4						
158	60	9.23*	5030	2.8						
50	171	29.00*	3720	0.90	S	47	DRN	90S4	28	679
59	147	24.77	3660	1.05	SF	47	DRN	90S4	32	680
63	138	23.20*	3630	1.10	SA	47	DRN	90S4	29	681
74	117	19.54	3550	1.25	SAF	47	DRN	90S4	31	680
83	113	17.62	3120	1.00						
88	105	16.47*	3110	1.05						
102	92	14.24	3070	1.20						
120	78	12.10*	3010	1.40						
135	70	10.80*	2960	1.55						
158	60	9.23*	2880	1.80	S	47	DRN	90S4	28	679
168	56	8.64*	2850	1.95	SF	47	DRN	90S4	32	680
200	48	7.28	2750	2.2	SA	47	DRN	90S4	29	681
227	42	6.40*	2660	1.80	SAF	47	DRN	90S4	31	680
270	36	5.39	2560	2.1						
306	32	4.76	2490	2.3						
364	27	4.00*	2390	2.3						
182	52	8.00*	1620	0.85	S	37	DRN	90S4	25	675
214	44	6.80*	1610	0.95	SF	37	DRN	90S4	26	676
230	42	6.33	1570	0.85	SA	37	DRN	90S4	25	677
270	35	5.38	1540	0.95	SAF	37	DRN	90S4	26	676
299	32	4.86*	1530	1.05						
367	26	3.97	1490	1.20						

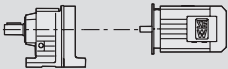

P_m = 1.5 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
2.0	4490	714	30600	0.95						
2.3	4770	626	22600	0.90						
2.7	4110	538	32800	1.00	S	97R57	DRN	90L4	185	709
3.0	3710	484	33700	1.15	SF	97R57	DRN	90L4	220	709
3.5	3230	420	34600	1.30	SA	97R57	DRN	90L4	180	709
3.9	2920	376	35100	1.45	SAF	97R57	DRN	90L4	205	709
4.5	2560	327	35500	1.65						
3.0	2990	485	20100	0.85						
3.4	2710	435	27000	0.90						
3.9	2390	378	27700	1.00	S	87R57	DRN	90L4	125	709
4.5	2070	323	28300	1.15	SF	87R57	DRN	90L4	145	709
5.2	1820	281	28700	1.30	SA	87R57	DRN	90L4	125	709
5.7	1940	255	28500	1.00	SAF	87R57	DRN	90L4	140	709
6.6	1700	222	28900	1.15						
7.1	1590	205	29000	1.25						
5.1	2060	286.40*	36100	1.95	S	97	DRN	90L4	160	704
5.6	1900	262.22	36300	2.1	SF	97	DRN	90L4	195	705
6.3	1690	231.67	36400	2.4	SA	97	DRN	90L4	155	706
7.4	1450	196.52	36600	2.7	SAF	97	DRN	90L4	180	705
5.1	1990	288.00*	28500	1.15						
5.7	1800	258.18	28800	1.25						
6.6	1570	222.40*	29100	1.45						
7.2	1440	202.96	29200	1.55	S	87	DRN	90L4	100	699
8.1	1290	180.00*	29400	1.70	SF	87	DRN	90L4	125	700
9.7	1100	151.30	29600	1.95	SA	87	DRN	90L4	99	701
11	1020	139.05	29700	2.0	SAF	87	DRN	90L4	115	700
12	910	123.48	29800	2.2						
13	820	110.40*	29800	2.4						
15	745	99.26	29900	2.6						
7.7	1280	189.09	11500	1.00						
9.0	1110	161.60*	13000	1.15						
9.9	1030	148.15	13600	1.20						
11	910	130.00*	14300	1.30						
12	870	123.20*	14600	1.40						
14	765	107.83	15000	1.50						
15	695	97.14	15300	1.65	S	77	DRN	90L4	66	694
17	615	85.22	15300	1.80	SF	77	DRN	90L4	76	695
19	625	75.09	14100	1.75	SA	77	DRN	90L4	65	696
20	595	71.33	13900	1.85	SAF	77	DRN	90L4	72	695
22	490	66.67	14400	2.1						
23	530	63.03	13600	2.1						
26	420	56.92	13900	2.3						
27	455	53.87	13100	2.4						
30	420	49.38	12900	2.6						
34	370	43.33	12500	3.0						
17	580	85.83	8060	0.90	S	67	DRN	90L4	46	689
19	530	78.00*	8560	1.00	SF	67	DRN	90L4	53	690
22	520	65.63	8670	0.90	SA	67	DRN	90L4	47	691
					SAF	67	DRN	90L4	52	690
23	495	62.35*	8880	0.95						
27	435	54.70	8770	1.10						
31	375	46.40*	8550	1.30						
35	340	41.89	8400	1.40						
40	300	36.85	8200	1.60						
42	285	34.80*	8110	1.70	S	67	DRN	90L4	46	689
49	245	29.63	7850	1.95	SF	67	DRN	90L4	53	690
54	220	26.93	7690	2.2	SA	67	DRN	90L4	47	691
60	210	24.44	7040	1.60	SAF	67	DRN	90L4	52	690
63	200	23.22*	6970	1.65						
72	180	20.37	6800	1.90						
85	153	17.28*	6580	2.2						
94	139	15.60*	6430	2.4						
106	123	13.73*	6250	2.8						

P_m = 1.5 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
45	260	32.48*	6610	0.95						
50	230	29.00*	6490	1.05						
59	200	24.77	6310	1.20						
63	190	23.20*	6230	1.30						
75	161	19.54	6020	1.35	S	57	DRN	90L4	35	684
83	153	17.62	5460	1.10	SF	57	DRN	90L4	39	685
89	144	16.47*	5400	1.15	SA	57	DRN	90L4	35	686
103	125	14.24	5260	1.35	SAF	57	DRN	90L4	37	685
121	107	12.10*	5100	1.60						
135	95	10.80*	4980	1.75						
158	82	9.23*	4810	2.1						
103	124	14.24	2680	0.90	S	47	DRN	90L4	31	679
121	106	12.10*	2680	1.05	SF	47	DRN	90L4	35	680
135	95	10.80*	2660	1.15	SA	47	DRN	90L4	32	681
					SAF	47	DRN	90L4	34	680
158	82	9.23*	2630	1.35						
169	77	8.64*	2610	1.40	S	47	DRN	90L4	31	679
201	65	7.28	2550	1.60	SF	47	DRN	90L4	35	680
228	58	6.40*	2470	1.30	SA	47	DRN	90L4	32	681
271	49	5.39	2400	1.50	SAF	47	DRN	90L4	34	680
307	43	4.76	2350	1.65						
365	36	4.00*	2270	1.70						

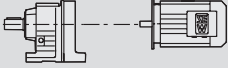

P_m = 2.2 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
3.4	4810	420	22200	0.85						
3.9	4340	376	29600	0.95	S	97R57	DRN	100LS4	190	709
4.4	3800	327	33600	1.10	SF	97R57	DRN	100LS4	220	709
5.0	3360	287	34400	1.25	SA	97R57	DRN	100LS4	185	709
5.8	2940	252	35000	1.40	SAF	97R57	DRN	100LS4	210	709
5.1	3040	286.40*	34900	1.30						
5.5	2810	262.22	35200	1.40						
6.3	2500	231.67	35600	1.60						
7.4	2150	196.52	36000	1.85						
8.0	1990	180.95	36200	1.95	S	97	DRN	100LS4	165	704
9.0	1790	161.74	36300	2.1	SF	97	DRN	100LS4	200	705
10.0	1620	145.60*	36500	2.3	SA	97	DRN	100LS4	160	706
11	1480	131.85	36600	2.5	SAF	97	DRN	100LS4	185	705
12	1320	116.92	36700	2.6						
14	1200	105.71	36800	2.9						
16	1020	89.60*	36900	3.2						
5.6	2660	258.18	27100	0.85						
6.5	2320	222.40*	27900	1.00						
7.1	2130	202.96	28200	1.05						
8.1	1910	180.00*	28600	1.15						
9.6	1630	151.30	29000	1.30						
10	1500	139.05	29200	1.40						
12	1350	123.48	29300	1.50	S	87	DRN	100LS4	105	699
13	1210	110.40*	29500	1.65	SF	87	DRN	100LS4	130	700
15	1100	99.26	29600	1.80	SA	87	DRN	100LS4	105	701
17	960	86.15	29700	1.95	SAF	87	DRN	100LS4	120	700
18	1030	81.76	29600	1.55						
19	860	77.14	29800	2.1						
21	890	70.43	29800	1.80						
23	810	64.27	29800	1.95						
25	730	57.00*	29900	2.2						

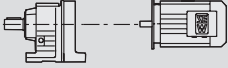

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P_m = 2.2 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
11	1350	130.00*	9150	0.90						
12	1280	123.20*	11500	0.95						
13	1130	107.83	12800	1.05						
15	1030	97.14	13600	1.10						
17	910	85.22	14000	1.20						
19	810	75.20*	13800	1.30						
22	725	66.67	13500	1.45						
23	780	63.03	12400	1.40						
25	625	56.92	13000	1.60	S	77	DRN	100LS4	70	694
27	670	53.87	12100	1.65	SF	77	DRN	100LS4	80	695
29	620	49.38	11900	1.75	SA	77	DRN	100LS4	69	696
33	545	43.33	11700	2.0	SAF	77	DRN	100LS4	76	695
35	515	41.07	11500	2.1						
40	455	35.94	11200	2.4						
45	410	32.38	11000	2.6						
51	360	28.41	10700	2.9						
58	320	25.07	10400	3.2						
63	300	22.89	9550	2.3						
69	275	20.99	9390	2.5						
31	550	46.40*	7480	0.85						
35	500	41.89	7430	0.95						
39	445	36.85	7350	1.10						
42	420	34.80*	7300	1.15						
49	360	29.63	7160	1.35						
54	330	26.93	7060	1.45						
62	285	23.33	6900	1.65	S	67	DRN	100LS4	50	689
71	265	20.37	6130	1.30	SF	67	DRN	100LS4	57	690
84	225	17.28*	6010	1.50	SA	67	DRN	100LS4	51	691
93	205	15.60*	5920	1.65	SAF	67	DRN	100LS4	55	690
106	181	13.73*	5800	1.90						
112	171	12.96*	5740	2.00						
131	146	11.03	5570	2.3						
145	133	10.03	5470	2.6						
167	116	8.69	5300	2.9						
102	184	14.24	4700	0.90						
120	158	12.10*	4620	1.05						
134	141	10.80*	4560	1.20						
157	121	9.23*	4450	1.40	S	57	DRN	100LS4	39	684
168	114	8.64*	4400	1.45	SF	57	DRN	100LS4	43	685
199	96	7.28	4270	1.50	SA	57	DRN	100LS4	39	686
227	85	6.40*	4120	1.15	SAF	57	DRN	100LS4	41	685
269	72	5.39	3980	1.30						
304	64	4.76	3870	1.45						
362	54	4.00*	3720	1.65						

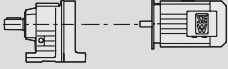

P_m = 3.0 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
5.1	4580	287	26000	0.90	S	97R57	DRN	100L4	195	709
5.8	4020	252	33100	1.05	SF	97R57	DRN	100L4	230	709
6.6	3510	219	34100	1.20	SA	97R57	DRN	100L4	190	709
7.1	3300	205	34500	1.25	SAF	97R57	DRN	100L4	215	709
5.1	4140	286.40*	32900	0.95						
5.6	3820	262.22	33600	1.05						
6.3	3400	231.67	34300	1.15						
7.4	2920	196.52	35100	1.35						
8.0	2710	180.95	35400	1.45	S	97	DRN	100L4	170	704
9.0	2440	161.74	35700	1.55	SF	97	DRN	100L4	205	705
10	2210	145.60*	36000	1.70	SA	97	DRN	100L4	165	706
11	2010	131.85	36200	1.80	SAF	97	DRN	100L4	195	705
12	1790	116.92	36300	1.95						
14	1630	105.71	36500	2.1						
16	1390	89.60*	36600	2.3						
18	1410	80.85	36600	2.3						

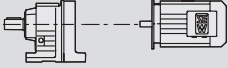

P_m = 3.0 kW

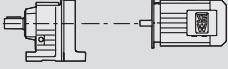

n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
8.1	2600	180.00*	27300	0.85						
9.6	2210	151.30	28100	0.95						
10	2050	139.05	28400	1.00						
12	1830	123.48	28700	1.10						
13	1650	110.40*	29000	1.20						
15	1490	99.26	29200	1.30						
17	1310	86.15	29400	1.45	S	87	DRN	100L4	115	699
18	1400	81.76	29300	1.15	SF	87	DRN	100L4	135	700
19	1180	77.14	29500	1.55	SA	87	DRN	100L4	110	701
21	1210	70.43	29500	1.30	SAF	87	DRN	100L4	125	700
23	1110	64.27	29600	1.45						
26	990	57.00*	29700	1.60						
30	830	47.91	29800	1.90						
33	770	44.03	29800	2.1						
37	685	39.10	29900	2.3						
42	615	34.96*	29900	2.6						
17	1240	85.22	12000	0.90	S	77	DRN	100L4	77	694
19	1100	75.20*	12500	0.95	SF	77	DRN	100L4	87	695
22	980	66.67	12300	1.05	SA	77	DRN	100L4	77	696
23	1060	63.03	10900	1.05	SAF	77	DRN	100L4	83	695
26	850	56.92	12000	1.15						
27	910	53.87	10900	1.20						
29	840	49.38	10800	1.30						
34	740	43.33	10700	1.50						
35	705	41.07	10600	1.55						
41	620	35.94	10400	1.75						
45	560	32.38	10200	1.95						
51	490	28.41	10000	2.1	S	77	DRN	100L4	77	694
58	435	25.07	9790	2.3	SF	77	DRN	100L4	87	695
64	410	22.89	8790	1.70	SA	77	DRN	100L4	77	696
69	375	20.99	8690	1.85	SAF	77	DRN	100L4	83	695
79	330	18.42	8520	2.1						
83	315	17.45	8450	2.2						
95	275	15.28	8250	2.6						
106	250	13.76	8090	2.8						
121	220	12.07	7880	3.3						
137	195	10.65	7670	3.7						
42	570	34.80*	6370	0.85	S	67	DRN	100L4	57	689
49	490	29.63	6350	1.00	SF	67	DRN	100L4	64	690
54	445	26.93	6320	1.05	SA	67	DRN	100L4	58	691
					SAF	67	DRN	100L4	63	690
62	390	23.33	6260	1.25						
71	360	20.37	5360	0.95						
84	305	17.28*	5350	1.10						
93	275	15.60*	5320	1.20	S	67	DRN	100L4	57	689
106	245	13.73*	5270	1.40	SF	67	DRN	100L4	64	690
112	230	12.96*	5240	1.45	SA	67	DRN	100L4	58	691
132	199	11.03	5150	1.70	SAF	67	DRN	100L4	63	690
145	181	10.03	5080	1.90						
168	157	8.69	4960	2.1						
193	137	7.56*	4840	2.2						
135	192	10.80*	4060	0.90						
158	164	9.23*	4030	1.05						
169	154	8.64*	4000	1.10	S	57	DRN	100L4	46	684
200	130	7.28	3930	1.10	SF	57	DRN	100L4	50	685
228	116	6.40*	3810	0.85	SA	57	DRN	100L4	46	686
270	98	5.39	3710	0.95	SAF	57	DRN	100L4	49	685
306	87	4.76	3630	1.05						
364	73	4.00*	3520	1.20						

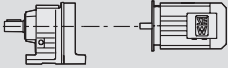

P_m = 4.0 kW										
n_a 1/min	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
6.7	4670	219	24500	0.90	S	97R57	DRN	112M4	205	709
7.1	4390	205	28900	0.95	SF	97R57	DRN	112M4	240	709
					SA	97R57	DRN	112M4	200	709
					SAF	97R57	DRN	112M4	225	709
6.3	4520	231.67	30300	0.90						
7.4	3880	196.52	33400	1.05						
8.1	3590	180.95	34000	1.10						
9.0	3230	161.74	34600	1.20						
10	2930	145.60*	35000	1.25						
11	2670	131.85	35400	1.35	S	97	DRN	112M4	180	704
13	2380	116.92	35800	1.45	SF	97	DRN	112M4	215	705
14	2170	105.71	36000	1.60	SA	97	DRN	112M4	175	706
16	1850	89.60*	36300	1.75	SAF	97	DRN	112M4	200	705
18	1880	80.85	36300	1.70						
20	1660	71.43	36400	2.00						
24	1420	60.59	36600	2.3						
26	1310	55.79	36700	2.5						
12	2430	123.48	27600	0.85						
13	2190	110.40*	28100	0.90						
15	1980	99.26	28500	1.00						
17	1730	86.15	28800	1.10						
19	1560	77.14	29100	1.15						
21	1610	70.43	29000	1.00						
23	1470	64.27	29200	1.10	S	87	DRN	112M4	125	699
26	1310	57.00*	29400	1.20	SF	87	DRN	112M4	145	700
31	1110	47.91	29600	1.45	SA	87	DRN	112M4	120	701
33	1020	44.03	29700	1.55	SAF	87	DRN	112M4	135	700
37	910	39.10	29700	1.75						
42	810	34.96*	29700	1.95						
47	735	31.43	28900	2.2						
54	640	27.28	28000	2.5						
57	615	25.50*	26600	2.0						
26	1120	56.92	10800	0.90	S	77	DRN	112M4	86	694
27	1210	53.87	9340	0.90	SF	77	DRN	112M4	96	695
30	1110	49.38	9390	1.00	SA	77	DRN	112M4	86	696
34	980	43.33	9420	1.10	SAF	77	DRN	112M4	93	695
36	930	41.07	9410	1.15						
41	820	35.94	9370	1.35						
45	740	32.38	9300	1.45						
52	655	28.41	9190	1.60						
58	580	25.07	9060	1.75						
64	545	22.89	7840	1.30						
70	500	20.99	7820	1.40	S	77	DRN	112M4	86	694
79	440	18.42	7760	1.60	SF	77	DRN	112M4	96	695
84	415	17.45	7720	1.70	SA	77	DRN	112M4	86	696
96	365	15.28	7620	1.95	SAF	77	DRN	112M4	93	695
106	330	13.76	7520	2.1						
121	290	12.07	7380	2.5						
137	255	10.65	7220	2.8						
155	225	9.44	7070	3.2						
182	197	8.06	6850	3.5						
85	405	17.28*	4060	0.85						
94	365	15.60*	4400	0.90						
107	325	13.73*	4620	1.05	S	67	DRN	112M4	67	689
113	305	12.96*	4620	1.10	SF	67	DRN	112M4	73	690
133	260	11.03	4620	1.30	SA	67	DRN	112M4	68	691
146	240	10.03	4600	1.40	SAF	67	DRN	112M4	72	690
169	205	8.69	4540	1.60						
194	182	7.56*	4480	1.60						

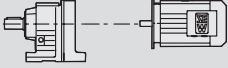

P_m = 5.5 kW

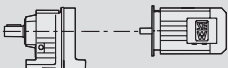

n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
9.0	4460	161.74	31200	0.85						
10	4040	145.60*	33100	0.90						
11	3680	131.85	33800	1.00						
12	3280	116.92	34500	1.05						
14	2980	105.71	35000	1.15						
16	2550	89.60*	35600	1.25	S	97	DRN	132S4	190	704
19	2240	78.26	35900	1.35	SF	97	DRN	132S4	225	705
20	2290	71.43	35900	1.45	SA	97	DRN	132S4	185	706
22	1890	65.45	36300	1.55	SAF	97	DRN	132S4	215	705
24	1960	60.59	36200	1.70						
26	1800	55.79	36300	1.80						
29	1620	49.87	36500	2.0						
33	1460	44.89	36600	2.2						
36	1320	40.65	36700	2.5						
19	2150	77.14	28200	0.85	S	87	DRN	132S4	135	699
23	1800	64.00*	28700	0.95	SF	87	DRN	132S4	155	700
26	1810	57.00*	28700	0.90	SA	87	DRN	132S4	130	701
30	1530	47.91	29100	1.05	SAF	87	DRN	132S4	150	700
33	1410	44.03	29300	1.15						
37	1250	39.10	29100	1.25						
42	1120	34.96*	28500	1.40						
46	1010	31.43	27900	1.55						
54	880	27.28	27100	1.80	S	87	DRN	132S4	135	699
57	840	25.50*	25400	1.45	SF	87	DRN	132S4	155	700
68	715	21.43	24600	1.75	SA	87	DRN	132S4	130	701
74	655	19.70	24200	1.90	SAF	87	DRN	132S4	150	700
84	585	17.49	23600	2.1						
93	525	15.64*	23000	2.4						
104	470	14.06	22500	2.6						
120	410	12.21	21800	3.0						
134	365	10.93	21200	3.4						
36	1290	41.07	7660	0.85	S	77	DRN	132S4	98	694
41	1130	35.94	7830	0.95	SF	77	DRN	132S4	105	695
45	1020	32.38	7910	1.05	SA	77	DRN	132S4	97	696
					SAF	77	DRN	132S4	105	695
51	900	28.41	7970	1.15						
58	800	25.07	7980	1.25						
66	710	22.22	7950	1.40						
79	605	18.42	6230	1.15	S	77	DRN	132S4	98	694
84	575	17.45	6460	1.25	SF	77	DRN	132S4	105	695
96	505	15.28	6680	1.40	SA	77	DRN	132S4	97	696
106	455	13.76	6670	1.55	SAF	77	DRN	132S4	105	695
121	400	12.07	6630	1.80						
137	355	10.65	6570	2.0						
155	315	9.44	6490	2.3						
181	270	8.06	6360	2.5						
132	360	11.03	3120	0.95	S	67	DRN	132S4	78	689
146	330	10.03	3430	1.05	SF	67	DRN	132S4	85	690
168	285	8.69	3820	1.15	SA	67	DRN	132S4	79	691
193	250	7.56*	3940	1.20	SAF	67	DRN	132S4	84	690

P_m = 7.5 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
14	4050	105.71	33100	0.85						
16	3460	89.60*	34200	0.95						
19	3040	78.26	34900	1.00						
21	3120	71.43	34800	1.05						
22	2560	65.45	35500	1.15						
24	2660	60.59	35400	1.25						
26	2450	55.79	35700	1.35	S	97	DRN	132M4	210	704
29	2200	49.87	36000	1.50	SF	97	DRN	132M4	245	705
33	1980	44.89	36200	1.65	SA	97	DRN	132M4	205	706
36	1800	40.65	36300	1.85	SAF	97	DRN	132M4	230	705
41	1600	36.05	36100	2.1						
45	1450	32.60	35300	2.2						
56	1210	26.39	32100	2.2						
62	1080	23.59	31400	2.4						
69	970	21.23	30800	2.7						
76	880	19.23	30100	2.9						
33	1910	44.03	27800	0.85	S	87	DRN	132M4	150	699
38	1700	39.10	27400	0.95	SF	87	DRN	132M4	175	700
42	1530	34.96*	26900	1.05	SA	87	DRN	132M4	150	701
					SAF	87	DRN	132M4	165	700
47	1380	31.43	26500	1.15						
54	1200	27.28	25800	1.35						
58	1150	25.50*	23700	1.10						
68	970	21.43	23200	1.30						
75	890	19.70	22900	1.40	S	87	DRN	132M4	150	699
84	795	17.49	22400	1.55	SF	87	DRN	132M4	175	700
94	710	15.64*	22000	1.75	SA	87	DRN	132M4	150	701
104	640	14.06	21600	1.95	SAF	87	DRN	132M4	165	700
120	555	12.21	21000	2.2						
134	500	10.93	20500	2.5						
162	415	9.07	19700	2.7						
186	360	7.88	19100	2.8						
52	1220	28.41	6340	0.85	S	77	DRN	132M4	115	694
59	1080	25.07	6540	0.95	SF	77	DRN	132M4	125	695
66	960	22.22	6670	1.00	SA	77	DRN	132M4	115	696
80	820	18.42	2360	0.85	SAF	77	DRN	132M4	120	695
84	785	17.45	2770	0.90						
96	685	15.28	3660	1.05						
107	620	13.76	4250	1.15	S	77	DRN	132M4	115	694
122	545	12.07	4880	1.30	SF	77	DRN	132M4	125	695
138	480	10.65	5380	1.50	SA	77	DRN	132M4	115	696
155	425	9.44	5710	1.70	SAF	77	DRN	132M4	120	695
182	365	8.06	5690	1.85						

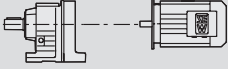

P_m = 9.2 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
19	3730	78.26	33700	0.80	S	97	DRN	132L4	220	704
22	3140	65.45	34700	0.90	SF	97	DRN	132L4	250	705
26	3000	55.79	34900	1.10	SA	97	DRN	132L4	215	706
					SAF	97	DRN	132L4	240	705
29	2690	49.87	35400	1.20						
33	2430	44.89	35700	1.35						
36	2210	40.65	35700	1.50						
41	1960	36.05	34900	1.70						
45	1780	32.60	34300	1.80						
56	1480	26.39	30900	1.75	S	97	DRN	132L4	220	704
62	1320	23.59	30400	1.95	SF	97	DRN	132L4	250	705
69	1190	21.23	29800	2.2	SA	97	DRN	132L4	215	706
76	1080	19.23	29300	2.4	SAF	97	DRN	132L4	240	705
86	960	17.05	28600	2.7						
95	870	15.42	28000	2.8						
112	740	13.07	27000	3.1						
129	645	11.41	26200	3.4						

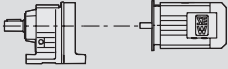

P_m = 9.2 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
42	1870	34.96*	25600	0.85	S	87	DRN	132L4	160	699
47	1690	31.43	25300	0.95	SF	87	DRN	132L4	180	700
54	1470	27.28	24800	1.10	SA	87	DRN	132L4	160	701
60	1320	24.43	24400	1.20	SAF	87	DRN	132L4	175	700
73	1100	20.27	23600	1.45						
75	1090	19.70	21800	1.15						
84	970	17.49	21500	1.25						
94	870	15.64*	21100	1.40	S	87	DRN	132L4	160	699
105	785	14.06	20800	1.55	SF	87	DRN	132L4	180	700
120	680	12.21	20300	1.80	SA	87	DRN	132L4	160	701
135	610	10.93	19900	2.0	SAF	87	DRN	132L4	175	700
162	510	9.07	19200	2.2						
186	440	7.88	18600	2.3						
77	1010	18.97	5840	0.90	S	77	DRN	132L4	125	694
107	760	13.76	1770	0.95	SF	77	DRN	132L4	135	695
122	670	12.07	2660	1.05	SA	77	DRN	132L4	125	696
138	590	10.65	3380	1.20	SAF	77	DRN	132L4	125	696
156	525	9.44	3970	1.40					130	695
182	450	8.06	4590	1.50						

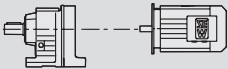

P_m = 11.0 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
26	3590	55.79	34000	0.90						
30	3210	49.87	34600	1.05						
33	2900	44.89	34800	1.15						
36	2630	40.65	34300	1.25						
41	2340	36.05	33700	1.40						
45	2120	32.60	33200	1.50	S	97	DRN	160M4	250	704
56	1760	26.39	29700	1.45	SF	97	DRN	160M4	285	705
62	1580	23.59	29200	1.65	SA	97	DRN	160M4	245	706
69	1420	21.23	28800	1.80	SAF	97	DRN	160M4	270	705
77	1290	19.23	28300	2.0						
86	1150	17.05	27800	2.2						
96	1040	15.42	27300	2.4						
113	880	13.07	26400	2.6						
129	770	11.41	25700	2.9						
54	1750	27.28	23700	0.90	S	87	DRN	160M4	190	699
60	1570	24.43	23400	1.00	SF	87	DRN	160M4	215	700
73	1310	20.27	22800	1.20	SA	87	DRN	160M4	190	701
					SAF	87	DRN	160M4	205	700
75	1300	19.70	20700	0.95						
84	1160	17.49	20500	1.05						
94	1040	15.64*	20200	1.20	S	87	DRN	160M4	190	699
105	930	14.06	20000	1.30	SF	87	DRN	160M4	215	700
121	810	12.21	19600	1.50	SA	87	DRN	160M4	190	701
135	730	10.93	19300	1.70	SAF	87	DRN	160M4	205	700
162	605	9.07	18700	1.85						
187	530	7.88	18200	1.90						

P_m = 15.0 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
33	3950	44.89	31500	0.85	S	97	DRN	160L4	265	704
36	3590	40.65	31400	0.90	SF	97	DRN	160L4	300	705
41	3190	36.05	31100	1.05	SA	97	DRN	160L4	260	706
					SAF	97	DRN	160L4	290	705

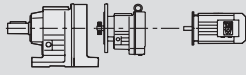

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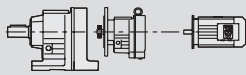

P_m = 15.0 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
45	2890	32.60	30800	1.10						
56	2410	26.39	26900	1.10						
62	2150	23.59	26700	1.20						
69	1940	21.23	26600	1.35						
77	1760	19.23	26300	1.45	S	97	DRN	160L4	265	704
86	1560	17.05	26000	1.65	SF	97	DRN	160L4	300	705
96	1410	15.42	25600	1.75	SA	97	DRN	160L4	260	706
113	1200	13.07	25000	1.95	SAF	97	DRN	160L4	290	705
129	1050	11.41	24500	2.1						
154	880	9.55	23700	2.3						
178	765	8.26	23000	2.3						
94	1420	15.64*	16800	0.85	S	87	DRN	160L4	210	699
105	1280	14.06	17900	0.95	SF	87	DRN	160L4	230	700
121	1110	12.21	18000	1.10	SA	87	DRN	160L4	205	701
					SAF	87	DRN	160L4	220	700
135	990	10.93	17900	1.25	S	87	DRN	160L4	210	699
163	830	9.07	17500	1.35	SF	87	DRN	160L4	230	700
187	720	7.88	17200	1.40	SA	87	DRN	160L4	205	701
					SAF	87	DRN	160L4	220	700

P_m = 18.5 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
41	3930	36.05	28800	0.85						
45	3560	32.60	28700	0.90						
54	3020	27.63	28500	1.00						
61	2650	24.13	28100	1.10						
70	2390	21.23	24500	1.10	S	97	DRN	180M4	290	704
77	2170	19.23	24500	1.20	SF	97	DRN	180M4	320	705
87	1920	17.05	24400	1.35	SA	97	DRN	180M4	285	706
96	1740	15.42	24200	1.40	SAF	97	DRN	180M4	310	705
113	1480	13.07	23800	1.55						
130	1290	11.41	23400	1.70						
155	1080	9.55	22800	1.90						
179	940	8.26	22300	1.90						

P_m = 22 kW										
n _a 1/min	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
53	3600	27.63	26700	0.85						
61	3150	24.13	26600	0.90	S	97	DRN	180L4	305	704
70	2840	21.23	18600	0.90	SF	97	DRN	180L4	340	705
77	2580	19.23	20500	1.00	SA	97	DRN	180L4	300	706
87	2290	17.05	22400	1.10	SAF	97	DRN	180L4	325	705
96	2070	15.42	22800	1.20	S	97	DRN	180L4	305	704
113	1760	13.07	22600	1.30	SF	97	DRN	180L4	340	705
129	1540	11.41	22400	1.45	SA	97	DRN	180L4	300	706
155	1290	9.55	21900	1.60	SAF	97	DRN	180L4	325	705
179	1120	8.26	21500	1.60						

11.4 S..R..DRN.. selection tables for low output speeds in Nm

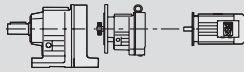

M_{a max} = 92 Nm								
n_a 1/min	i	F_{Ra}¹⁾ N					m kg	
0.14	10037	3000						
0.16	8654	3000						
0.17	8066	3000						
0.20	7051	3000						
0.23	6079	3000						
0.25	5431	3000						
0.29	4747	3000						
0.33	4155	3000						
0.38	3632	3000	S	37R17	DR	63S4	14 709	
0.48	2866	3000	SF	37R17	DR	63S4	15 709	
0.56	2471	3000	SA	37R17	DR	63S4	14 709	
0.64	2160	3000	SAF	37R17	DR	63S4	15 709	
0.73	1887	3000						
0.83	1665	3000						
0.95	1456	3000						
1.1	1271	3000						
1.2	1121	3000						
1.4	994	3000						
1.6	869	3000						
1.8	774	3000						
2.1	666	3000						
2.3	596	3000						
2.6	521	3000						
3.0	456	3000	S	37R17	DR	63S4	14 709	
3.5	398	3000	SF	37R17	DR	63S4	15 709	
3.9	351	3000	SA	37R17	DR	63S4	13 709	
4.6	303	3000	SAF	37R17	DR	63S4	15 709	
5.2	265	3000						
6.0	232	3000						
6.8	202	3000						
7.4	179	3000	S	37R17	DR	63M4	14 709	
8.3	158	3000	SF	37R17	DR	63M4	15 709	
9.1	144	3000	SA	37R17	DR	63M4	13 709	
11	118	3000	SAF	37R17	DR	63M4	15 709	
12	110	3000						

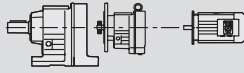

M_{a max} = 185 Nm								
n_a 1/min	i	F_{Ra}¹⁾ N					m kg	
0.11	12909	5250						
0.12	11189	5250						
0.13	10374	5250						
0.15	8992	5250						
0.18	7860	5250						
0.20	6887	5250						
0.23	6055	5250						
0.26	5292	5250						
0.30	4637	5250						
0.34	4092	5250	S	47R17	DR	63S4	17 709	
0.39	3582	5200	SF	47R17	DR	63S4	20 709	
0.44	3131	5200	SA	47R17	DR	63S4	18 709	
0.51	2714	5200	SAF	47R17	DR	63S4	20 709	
0.57	2412	5200						
0.65	2131	5200						
0.74	1863	5200						
0.83	1663	5200						
0.96	1435	5200						
1.1	1254	5200						
1.2	1120	5200						
1.3	1083	5200						

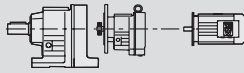

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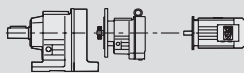

Helical-worm gearmotors

S..R..DRN.. selection tables for low output speeds in Nm

M_{a max} = 185 Nm								
n_a 1/min	i	$F_{Ra}^{1)}$ N					m kg	
1.4	965	5200						
1.6	865	5200						
1.8	750	5200	S	47R17	DR	63S4	17	709
2.1	655	5200	SF	47R17	DR	63S4	20	709
2.4	574	5200	SA	47R17	DR	63S4	18	709
2.7	506	5200	SAF	47R17	DR	63S4	19	709
3.2	438	5200						
3.6	388	5200						
3.9	336	5200	S	47R17	DR	63M4	17	709
			SF	47R17	DR	63M4	20	709
4.5	294	5200	SA	47R17	DR	63M4	18	709
			SAF	47R17	DR	63M4	19	709
5.0	257	5260	S	47R17	DR	63L4	17	709
			SF	47R17	DR	63L4	21	709
			SA	47R17	DR	63L4	18	709
			SAF	47R17	DR	63L4	20	709
5.8	229	5200	S	47R17	DR	63M4	17	709
			SF	47R17	DR	63M4	20	709
			SA	47R17	DR	63M4	18	709
			SAF	47R17	DR	63M4	19	709
6.5	200	5200	S	47R17	DR	63L4	17	709
6.9	187	5200	SF	47R17	DR	63L4	21	709
7.9	165	5200	SA	47R17	DR	63L4	18	709
			SAF	47R17	DR	63L4	20	709
9.4	148	5200	S	47R17	DRS	71S4	19	709
			SF	47R17	DRS	71S4	23	709
11	131	5200	SA	47R17	DRS	71S4	20	709
			SAF	47R17	DRS	71S4	22	709

M_{a max} = 300 Nm								
n_a 1/min	i	$F_{Ra}^{1)}$ N					m kg	
0.44	3131	7080						
0.51	2714	7080						
0.57	2412	7080						
0.65	2131	7080	S	57R17	DR	63S4	21	709
0.74	1863	7080	SF	57R17	DR	63S4	24	709
0.83	1663	7080	SA	57R17	DR	63S4	20	709
0.96	1435	7080	SAF	57R17	DR	63S4	23	709
1.1	1254	7080						
1.3	1083	7080						
1.4	965	7080	S	57R17	DR	63S4	20	709
1.6	865	7080	SF	57R17	DR	63S4	24	709
1.8	750	7080	SA	57R17	DR	63S4	20	709
2.1	655	7080	SAF	57R17	DR	63S4	23	709
2.3	574	7080	S	57R17	DR	63M4	20	709
2.6	506	7080	SF	57R17	DR	63M4	24	709
3.0	438	7080	SA	57R17	DR	63M4	20	709
3.4	388	7080	SAF	57R17	DR	63M4	23	709
3.9	336	7080	S	57R17	DR	63L4	21	709
4.4	294	7080	SF	57R17	DR	63L4	25	709
4.8	269	7080	SA	57R17	DR	63L4	21	709
			SAF	57R17	DR	63L4	24	709
6.0	229	7080	S	57R17	DRS	71S4	23	709
6.8	204	7080	SF	57R17	DRS	71S4	27	709
7.4	187	7080	SA	57R17	DRS	71S4	23	709
			SAF	57R17	DRS	71S4	25	709
8.2	165	7080	S	57R17	DRS	71M4	24	709
			SF	57R17	DRS	71M4	28	709
10	131	7080	SA	57R17	DRS	71M4	24	709
			SAF	57R17	DRS	71M4	27	709

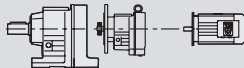

M_{a max} = 330 Nm								
n _a 1/min	i	F _{Ra} ¹⁾ N					m kg	
0.11	12909	6800						
0.12	11189	6800						
0.13	10374	6800						
0.15	8992	6800						
0.18	7860	6800	S	57R17	DR	63S4	21	709
0.20	6887	6800	SF	57R17	DR	63S4	24	709
0.23	6055	6800	SA	57R17	DR	63S4	20	709
0.26	5292	6800	SAF	57R17	DR	63S4	23	709
0.30	4637	6800						
0.34	4092	6800						
0.38	3628	6800						

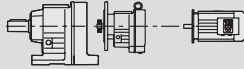

M_{a max} = 570 Nm								
n _a 1/min	i	F _{Ra} ¹⁾ N					m kg	
0.06	21362	8190						
0.07	19594	8190						
0.08	18120	8190						
0.08	16682	8190						
0.10	14383	8190						
0.11	12774	8190						
0.13	11013	8190						
0.14	9694	8190						
0.16	8529	8190						
0.19	7455	8190						
0.21	6531	8190	S	67R37	DR	63S4	39	709
0.24	5759	8190	SF	67R37	DR	63S4	46	709
0.28	4965	8190	SA	67R37	DR	63S4	40	709
0.31	4410	8190	SAF	67R37	DR	63S4	45	709
0.36	3880	8190						
0.40	3432	8190						
0.47	2944	8190						
0.52	2630	8190						
0.61	2279	8190						
0.69	2014	8190						
0.78	1772	8190						
0.88	1559	8190						
1.0	1363	8190						
1.2	1194	8190						
1.3	1045	8190	S	67R37	DR	63M4	39	709
1.4	914	8190	SF	67R37	DR	63M4	46	709
			SA	67R37	DR	63M4	40	709
			SAF	67R37	DR	63M4	45	709
1.6	809	8190	S	67R37	DR	63M4	39	709
1.9	712	8190	SF	67R37	DR	63M4	46	709
			SA	67R37	DR	63M4	40	709
			SAF	67R37	DR	63M4	45	709
2.1	615	8190	S	67R37	DR	63L4	40	709
2.4	543	8190	SF	67R37	DR	63L4	46	709
			SA	67R37	DR	63L4	41	709
			SAF	67R37	DR	63L4	45	709
2.9	469	8190	S	67R37	DRS	71S4	42	709
3.3	424	8190	SF	67R37	DRS	71S4	48	709
3.8	365	8190	SA	67R37	DRS	71S4	43	709
			SAF	67R37	DRS	71S4	47	709
4.3	319	8190	S	67R37	DRS	71M4	43	709
4.8	281	8190	SF	67R37	DRS	71M4	49	709
5.5	246	8190	SA	67R37	DRS	71M4	44	709
6.2	221	8190	SAF	67R37	DRS	71M4	48	709
7.3	198	8190	S	67R37	DRN	80M4	48	709
			SF	67R37	DRN	80M4	54	709
			SA	67R37	DRN	80M4	49	709
			SAF	67R37	DRN	80M4	53	709

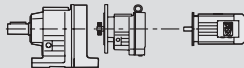

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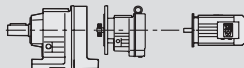

Helical-worm gearmotors

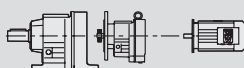

S..R..DRN.. selection tables for low output speeds in Nm

M_{a max} = 1240 Nm								
n_a 1/min	i	F_{Ra}¹⁾ N					m kg	
0.50 0.58	2753	12000	S	77R37	DR	63S4	59	709
	2374	12000	SF	77R37	DR	63S4	68	709
			SA	77R37	DR	63S4	58	709
			SAF	77R37	DR	63S4	65	709
0.63 0.73 0.76 0.82 0.94	2083	12000	S	77R37	DR	63M4	59	709
	1813	12000	SF	77R37	DR	63M4	68	709
	1745	12000	SA	77R37	DR	63M4	58	709
	1600	12000	SAF	77R37	DR	63M4	65	709
	1404	12000						
1.0	1245	12000	S	77R37	DR	63L4	59	709
			SF	77R37	DR	63L4	69	709
			SA	77R37	DR	63L4	59	709
			SAF	77R37	DR	63L4	65	709
1.2 1.4	1100 954	12000 12000	S	77R37	DR	63L4	59	709
			SF	77R37	DR	63L4	69	709
			SA	77R37	DR	63L4	59	709
			SAF	77R37	DR	63L4	65	709
1.6 1.9	837 714	12000 12000	S	77R37	DRS	71S4	61	709
			SF	77R37	DRS	71S4	71	709
			SA	77R37	DRS	71S4	61	709
			SAF	77R37	DRS	71S4	67	709
2.1 2.4 2.7	637 574 499	12000 12000 12000	S	77R37	DRS	71M4	62	709
			SF	77R37	DRS	71M4	72	709
			SA	77R37	DRS	71M4	62	709
			SAF	77R37	DRS	71M4	68	709
3.3 3.7	438 389	12000 12000	S	77R37	DRN	80M4	67	709
			SF	77R37	DRN	80M4	77	709
			SA	77R37	DRN	80M4	66	709
			SAF	77R37	DRN	80M4	73	709
4.4 5.0 5.8	327 289 250	12000 12000 12000	S	77R37	DRN	90S4	73	709
			SF	77R37	DRN	90S4	82	709
			SA	77R37	DRN	90S4	72	709
			SAF	77R37	DRN	90S4	79	709
6.7	219	12000	S	77R37	DRN	90L4	76	709
			SF	77R37	DRN	90L4	86	709
			SA	77R37	DRN	90L4	75	709
			SAF	77R37	DRN	90L4	82	709

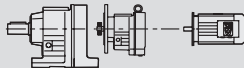

M_{a max} = 1270 Nm								
n_a 1/min	i	F_{Ra}¹⁾ N					m kg	
0.05	25493	11700						
0.06	21787	11700						
0.07	19907	11700						
0.08	17013	11700						
0.09	14668	11700						
0.11	13110	11700						
0.12	11569	11700						
0.14	9887	11700	S	77R37	DR	63S4	59	709
0.16	8817	11700	SF	77R37	DR	63S4	68	709
0.18	7735	11700	SA	77R37	DR	63S4	58	709
0.20	6735	11700	SAF	77R37	DR	63S4	65	709
0.23	5943	11700						
0.26	5214	11700						
0.30	4618	11700						
0.35	3992	11700						
0.39	3540	11700						
0.43	3098	11700	S	77R37	DR	63M4	59	709
			SF	77R37	DR	63M4	68	709
			SA	77R37	DR	63M4	58	709
			SAF	77R37	DR	63M4	65	709

M_{a max} = 2400 Nm								
n_a 1/min	i	$F_{Ra}^{(1)}$ N					m kg	
4.5	323	27700	S	87R57	DRN	100LS4	130	709
5.2	281	27700	SF	87R57	DRN	100LS4	150	709
			SA	87R57	DRN	100LS4	125	709
			SAF	87R57	DRN	100LS4	145	709

M_{a max} = 2450 Nm								
n_a 1/min	i	$F_{Ra}^{(1)}$ N					m kg	
3.4	435	27600	S	87R57	DRN	90L4	125	709
			SF	87R57	DRN	90L4	145	709
			SA	87R57	DRN	90L4	125	709
			SAF	87R57	DRN	90L4	140	709
3.8	378	27600	S	87R57	DRN	100LS4	130	709
			SF	87R57	DRN	100LS4	150	709
			SA	87R57	DRN	100LS4	125	709
			SAF	87R57	DRN	100LS4	145	709

M_{a max} = 2500 Nm								
n_a 1/min	i	$F_{Ra}^{(1)}$ N					m kg	
0.05	25987	27500						
0.06	23940	27500						
0.07	20568	27500						
0.08	18265	27500						
0.08	16774	27500	S	87R57	DR	63S4	110	709
0.09	14820	27500	SF	87R57	DR	63S4	130	709
0.10	13160	27500	SA	87R57	DR	63S4	105	709
0.12	11200	27500	SAF	87R57	DR	63S4	120	709
0.14	9904	27500						
0.16	8549	27500						
0.18	7643	27500						
0.21	6706	27500						
0.22	5875	27500	S	87R57	DR	63M4	110	709
0.25	5187	27500	SF	87R57	DR	63M4	130	709
0.29	4606	27500	SA	87R57	DR	63M4	105	709
0.34	3872	27500	SAF	87R57	DR	63M4	120	709
0.37	3475	27500	S	87R57	DR	63L4	110	709
0.45	2905	27500	SF	87R57	DR	63L4	130	709
0.50	2586	27500	SA	87R57	DR	63L4	105	709
			SAF	87R57	DR	63L4	120	709
0.59	2335	27500	S	87R57	DRS	71S4	110	709
0.67	2054	27500	SF	87R57	DRS	71S4	130	709
0.76	1824	27500	SA	87R57	DRS	71S4	105	709
			SAF	87R57	DRS	71S4	125	709
0.83	1631	27500	S	87R57	DRS	71M4	110	709
1.0	1332	27500	SF	87R57	DRS	71M4	130	709
1.1	1191	27500	SA	87R57	DRS	71M4	110	709
			SAF	87R57	DRS	71M4	125	709
1.4	1032	27500	S	87R57	DRN	80M4	115	709
1.6	930	27500	SF	87R57	DRN	80M4	135	709
			SA	87R57	DRN	80M4	115	709
			SAF	87R57	DRN	80M4	130	709
1.8	831	27500	S	87R57	DRN	90S4	120	709
2.0	719	27500	SF	87R57	DRN	90S4	145	709
2.3	624	27500	SA	87R57	DRN	90S4	120	709
			SAF	87R57	DRN	90S4	135	709
2.6	558	27500	S	87R57	DRN	90L4	125	709
3.0	485	27500	SF	87R57	DRN	90L4	145	709
			SA	87R57	DRN	90L4	125	709
			SAF	87R57	DRN	90L4	140	709

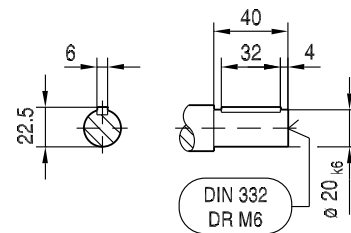
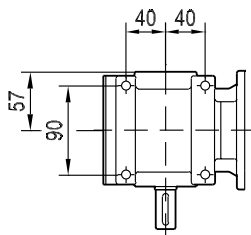
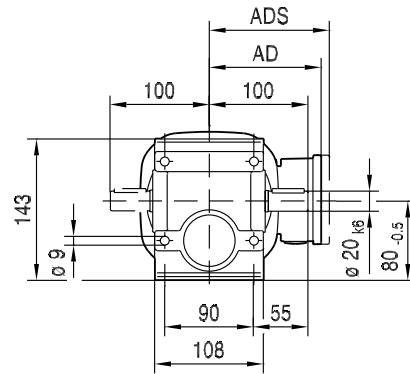
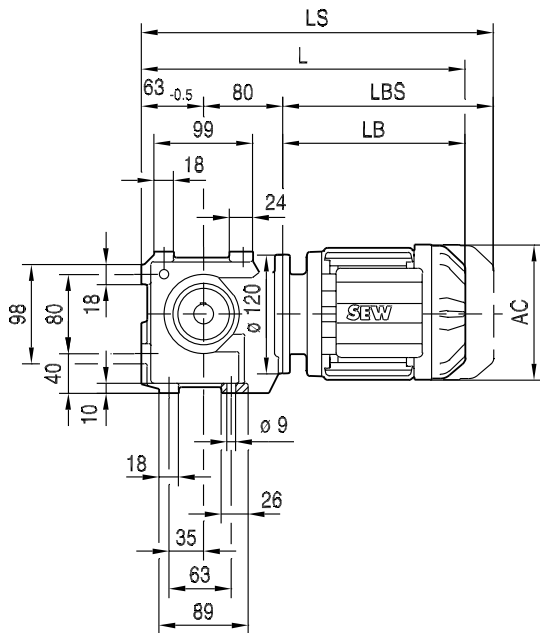
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M_{a max} = 4200 Nm								
n_a 1/min	i	F_{Ra}¹⁾ N					m kg	
0.04	33818	32800						
0.04	31154	32800						
0.05	27847	32800						
0.06	24641	32800						
0.06	21537	32800	S	97R57	DR	63S4	170	709
0.07	18749	32800	SF	97R57	DR	63S4	200	709
0.09	16233	32800	SA	97R57	DR	63S4	165	709
0.09	14576	32800	SAF	97R57	DR	63S4	190	709
0.11	12752	32800						
0.12	11267	32800						
0.14	10078	32800						
0.15	8608	32800	S	97R57	DR	63M4	170	709
0.17	7554	32800	SF	97R57	DR	63M4	200	709
0.20	6640	31500	SA	97R57	DR	63M4	165	709
0.23	5780	31500	SAF	97R57	DR	63M4	190	709
0.27	4937	31500						
0.29	4444	31500	S	97R57	DR	63L4	170	709
0.32	4017	31500	SF	97R57	DR	63L4	200	709
0.38	3453	31500	SA	97R57	DR	63L4	165	709
0.42	3108	31500	SAF	97R57	DR	63L4	190	709
0.52	2654	31500	S	97R57	DRS	71S4	170	709
0.59	2329	31500	SF	97R57	DRS	71S4	205	709
			SA	97R57	DRS	71S4	165	709
			SAF	97R57	DRS	71S4	190	709
0.65	2081	31500	S	97R57	DRS	71M4	170	709
0.73	1860	31500	SF	97R57	DRS	71M4	205	709
0.86	1574	31500	SA	97R57	DRS	71M4	165	709
			SAF	97R57	DRS	71M4	190	709
1.0	1394	31500	S	97R57	DRN	80M4	175	709
1.2	1223	31500	SF	97R57	DRN	80M4	210	709
			SA	97R57	DRN	80M4	170	709
			SAF	97R57	DRN	80M4	195	709
1.4	1070	31500	S	97R57	DRN	90S4	180	709
1.6	928	31500	SF	97R57	DRN	90S4	215	709
1.8	824	31500	SA	97R57	DRN	90S4	175	709
			SAF	97R57	DRN	90S4	200	709
2.0	714	32800	S	97R57	DRN	90L4	185	709
2.3	626	31500	SF	97R57	DRN	90L4	220	709
			SA	97R57	DRN	90L4	180	709
			SAF	97R57	DRN	90L4	205	709
2.7	538	31600	S	97R57	DRN	100LS4	190	709
3.0	484	31600	SF	97R57	DRN	100LS4	220	709
3.4	420	31600	SA	97R57	DRN	100LS4	185	709
3.9	376	31700	SAF	97R57	DRN	100LS4	210	709
4.5	327	31700	S	97R57	DRN	100L4	195	709
5.1	287	31700	SF	97R57	DRN	100L4	230	709
			SA	97R57	DRN	100L4	190	709
			SAF	97R57	DRN	100L4	215	709
5.8	252	31800	S	97R57	DRN	112M4	205	709
6.7	219	31800	SF	97R57	DRN	112M4	240	709
			SA	97R57	DRN	112M4	200	709
			SAF	97R57	DRN	112M4	225	709

11.5 S..DRN.. dimension sheets in mm

02 008 00 14

S37..



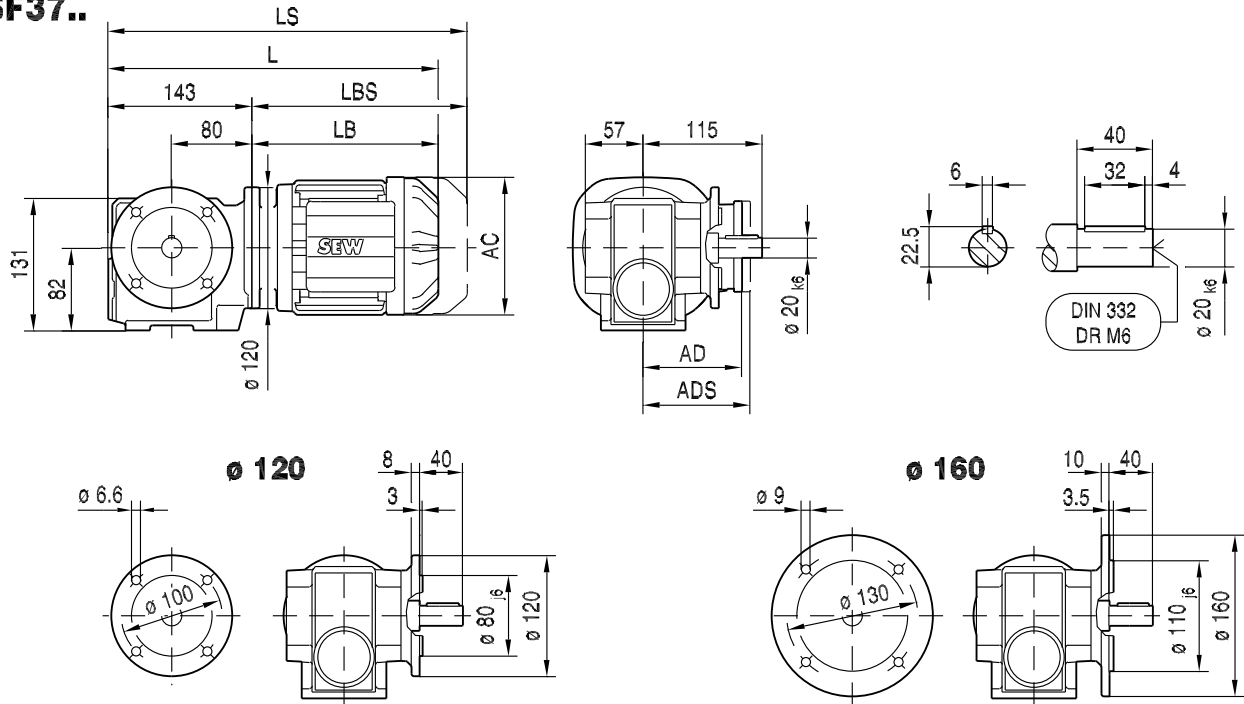
11

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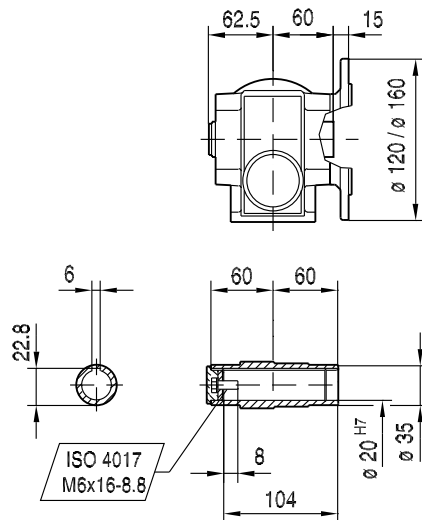
(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S			
AC	132	139	139	156	179			
AD	105	119	119	128	140			
ADS	105	129	129	139	150			
L	334	345	370	425	426			
LS	389	413	438	506	520			
LB	191	202	227	282	283			
LBS	246	270	295	363	377			

02 009 00 14

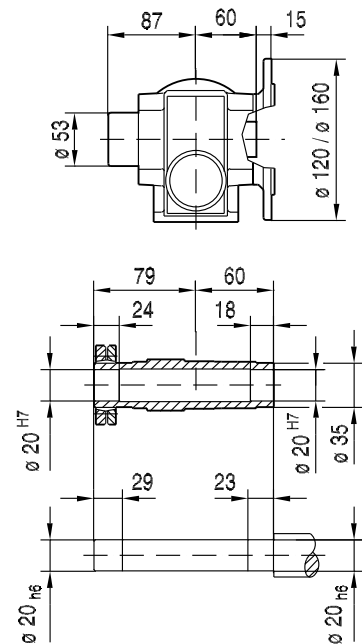
SF37..



SAF37..



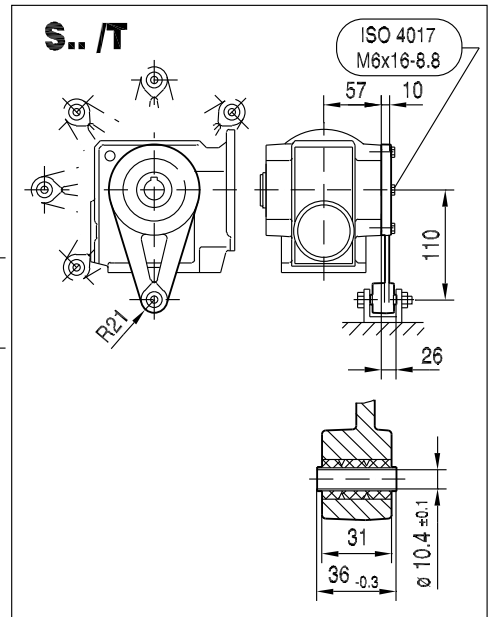
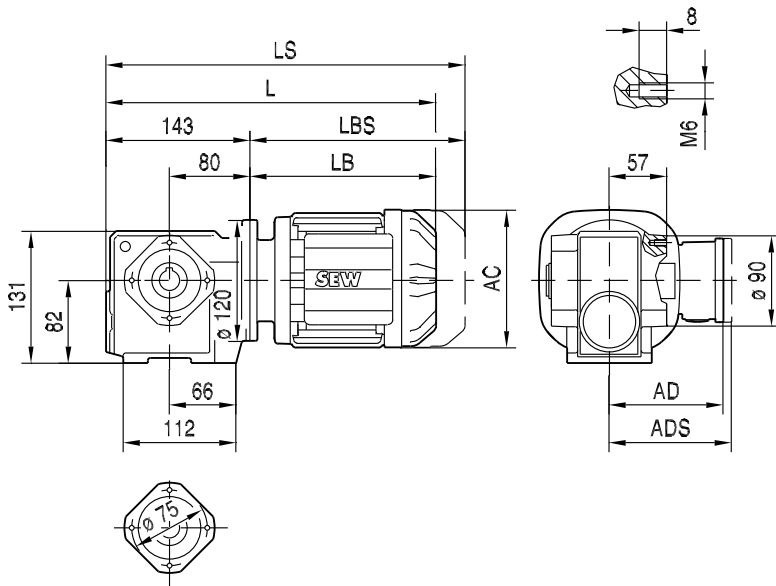
SHF37..



(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S			
AC	132	139	139	156	179			
AD	105	119	119	128	140			
ADS	105	129	129	139	150			
L	334	345	370	425	426			
LS	389	413	438	506	520			
LB	191	202	227	282	283			
LBS	246	270	295	363	377			

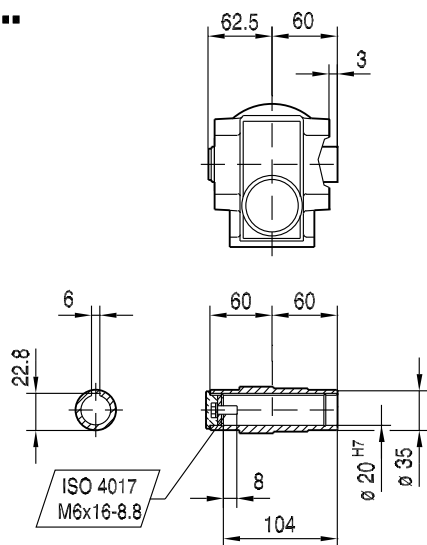
02 010 00 14

SA37..

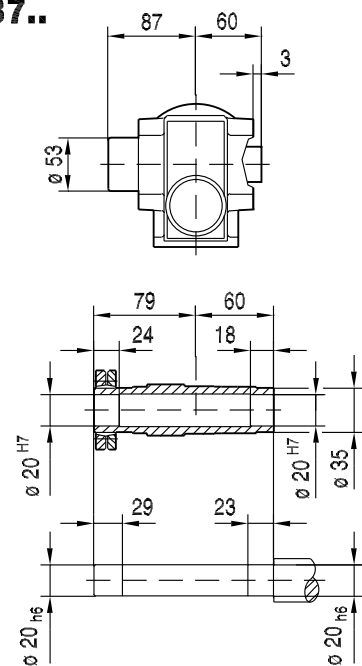


11

SA37..



SH37..

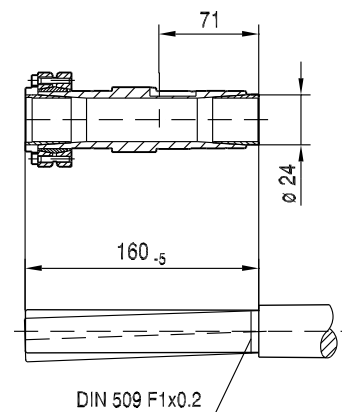
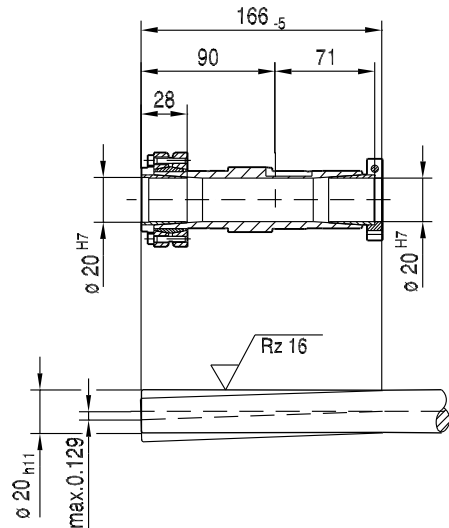
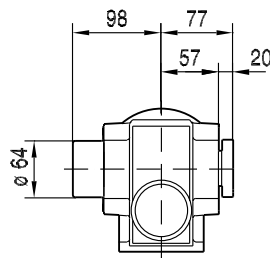
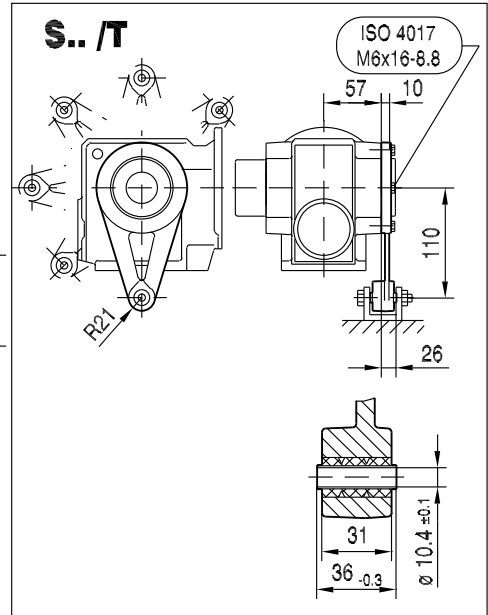
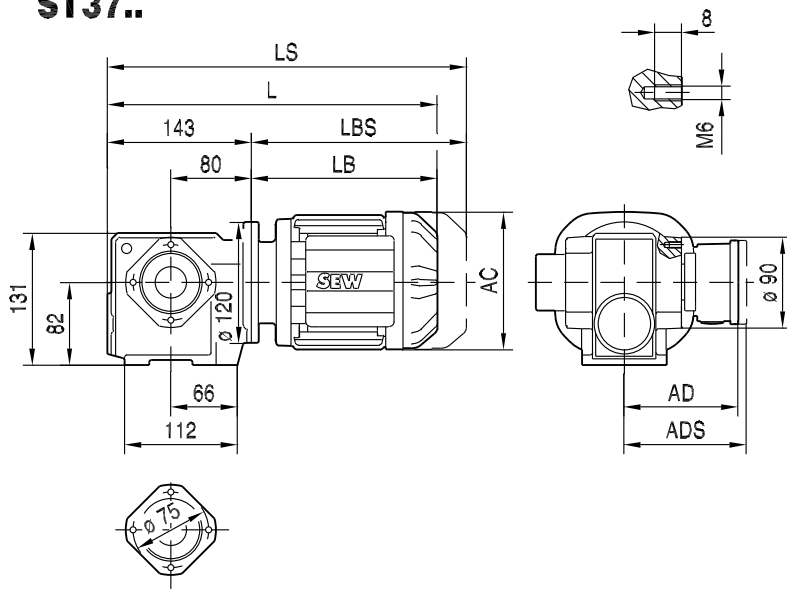


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(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S			
AC	132	139	139	156	179			
AD	105	119	119	128	140			
ADS	105	129	129	139	150			
L	334	345	370	425	426			
LS	389	413	438	506	520			
LB	191	202	227	282	283			
LBS	246	270	295	363	377			

02 011 00 14

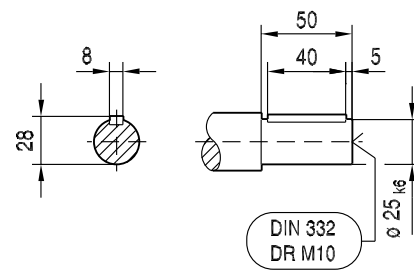
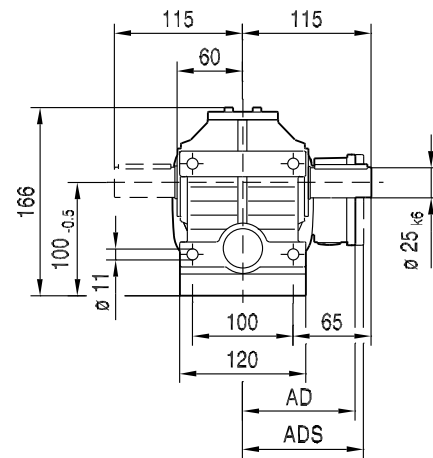
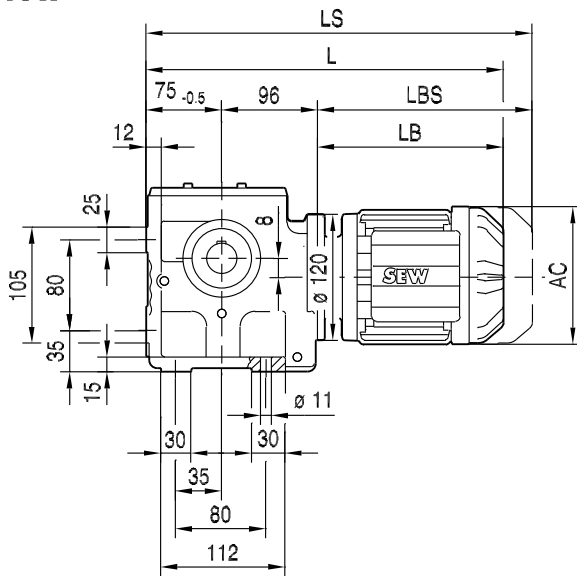
ST37..



(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S		
AC	132	139	139	156	179		
AD	105	119	119	128	140		
ADS	105	129	129	139	150		
L	334	345	370	425	426		
LS	389	413	438	506	520		
LB	191	202	227	282	283		
LBS	246	270	295	363	377		

02 012 00 14

S47..



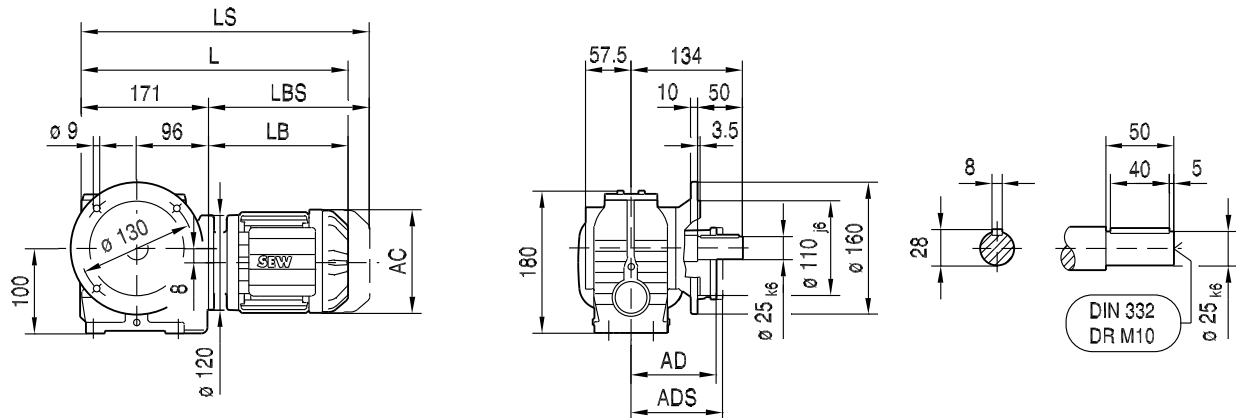
11

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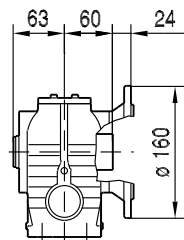
(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L		
AC	132	139	139	156	179	179		
AD	105	119	119	128	140	140		
ADS	105	129	129	139	150	150		
L	362	373	398	453	454	486		
LS	417	441	466	534	548	580		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

02 013 00 14

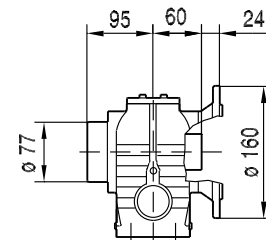
SF47..



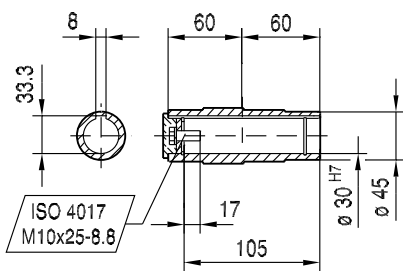
SAF47..



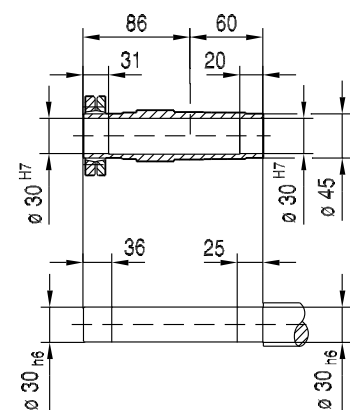
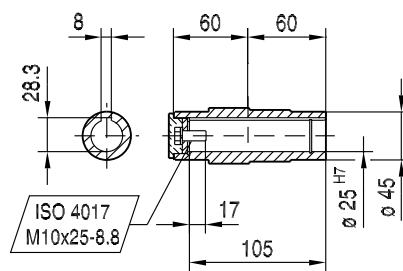
SHF47..



$\phi 30$ H7



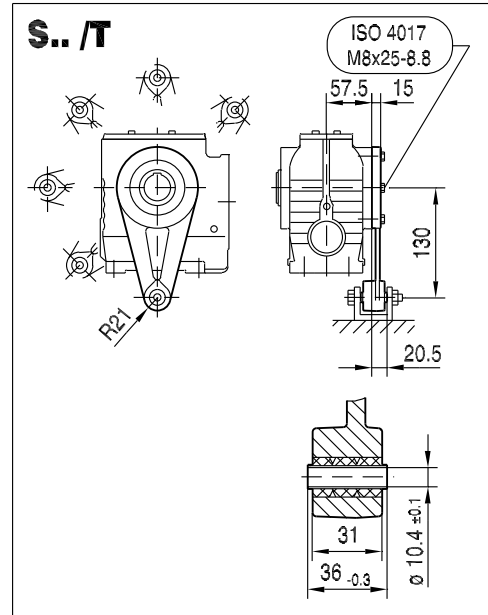
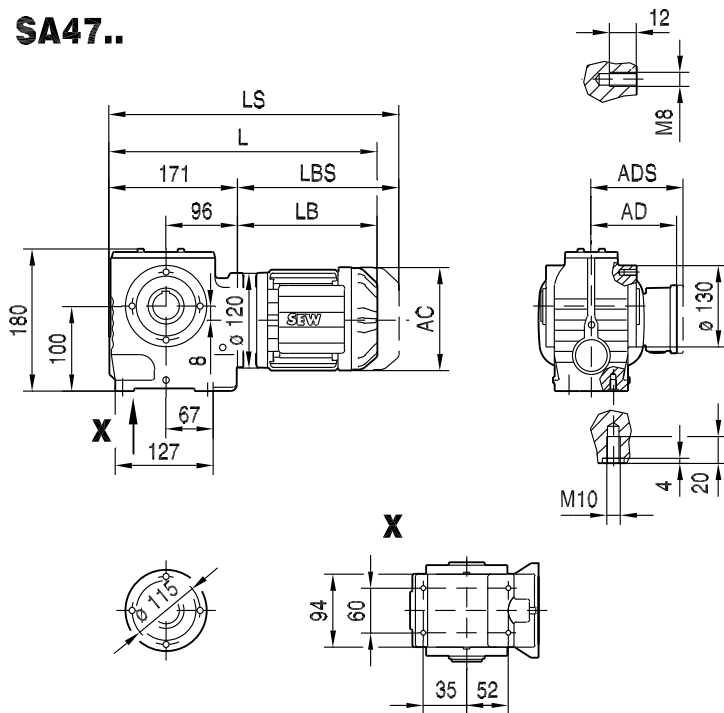
$\phi 25$ H7



(→ 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	362	373	398	453	454	486		
LS	417	441	466	534	548	580		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

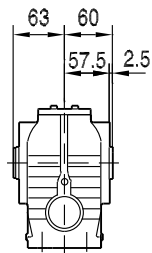
02 014 00 14

SA47..

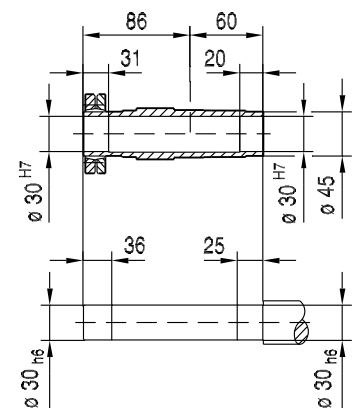
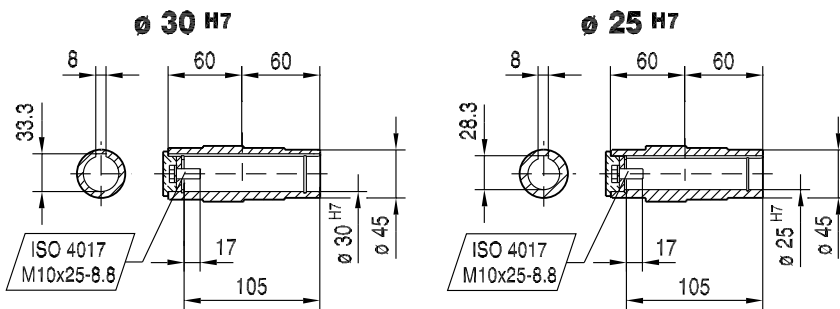
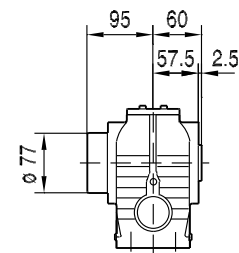


11

SA47..



SH47..

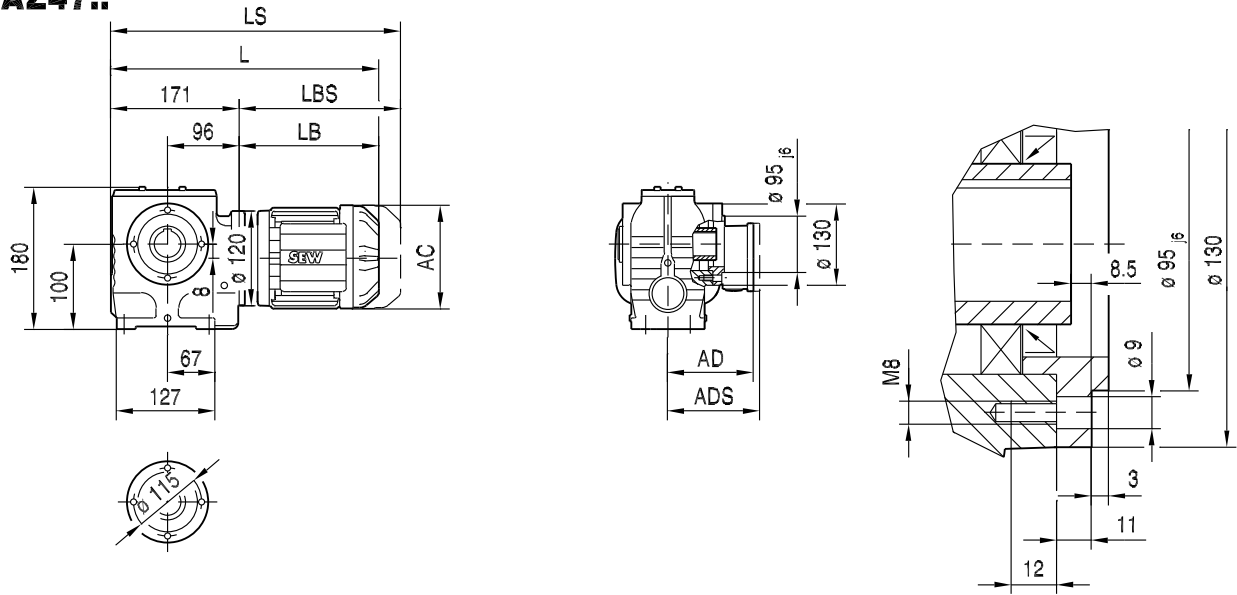


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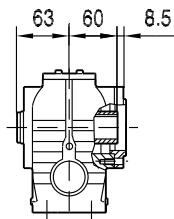
(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L		
AC	132	139	139	156	179	179		
AD	105	119	119	128	140	140		
ADS	105	129	129	139	150	150		
L	362	373	398	453	454	486		
LS	417	441	466	534	548	580		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

02 015 00 14

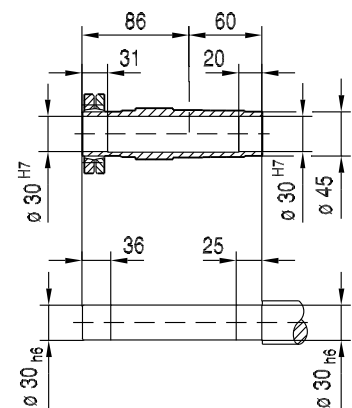
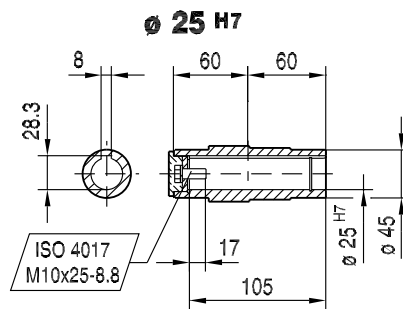
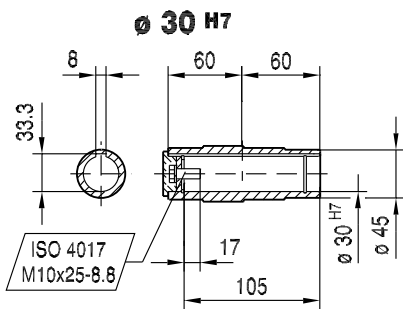
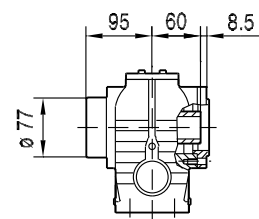
SAZ47..



SAZ47..



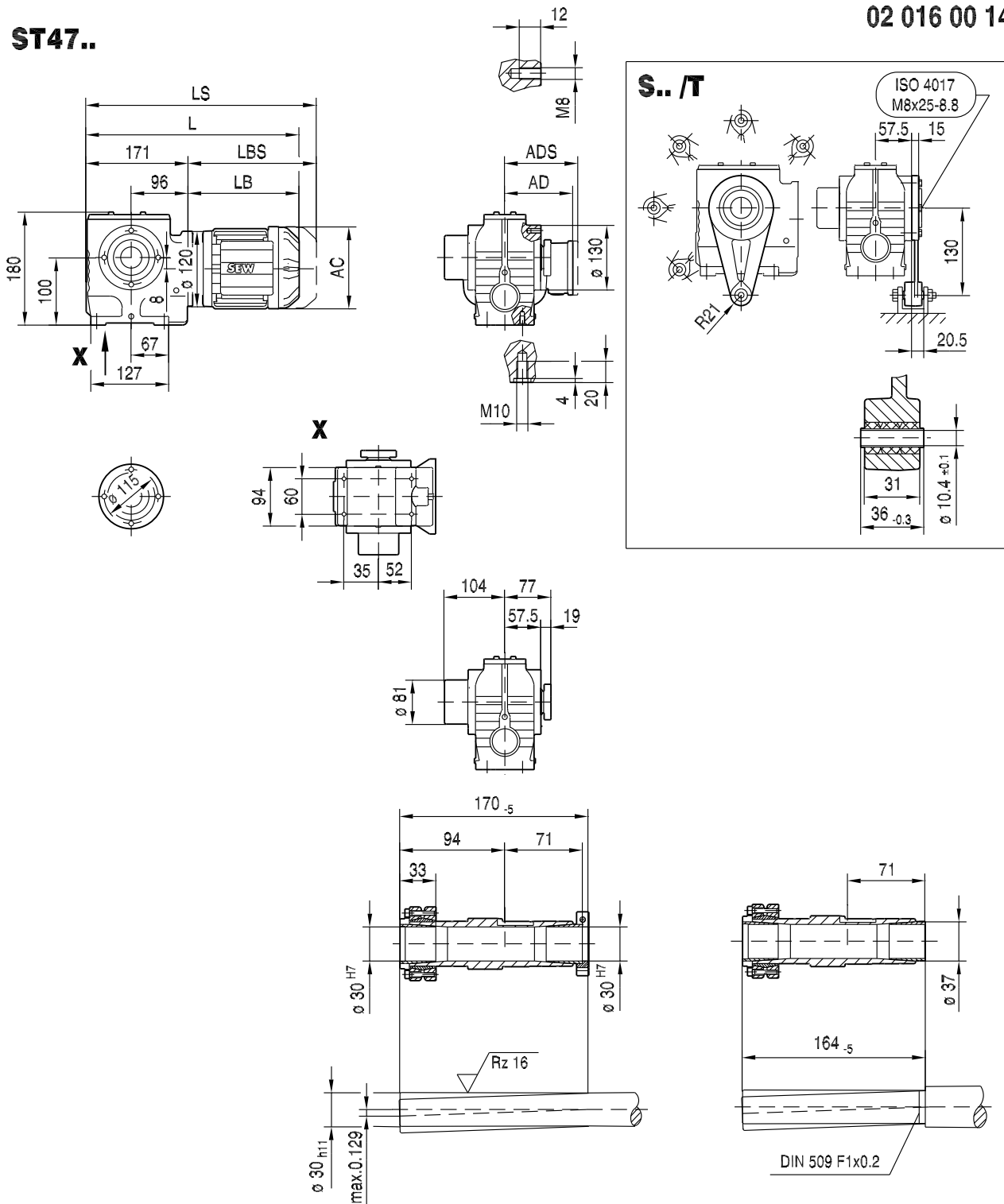
SHZ47..



(→ 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	362	373	398	453	454	486		
LS	417	441	466	534	548	580		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

ST47..

02 016 00 14



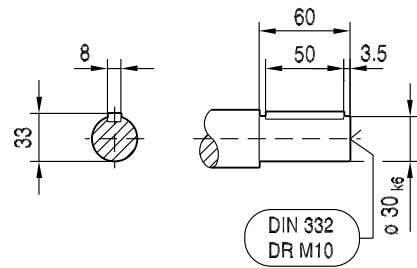
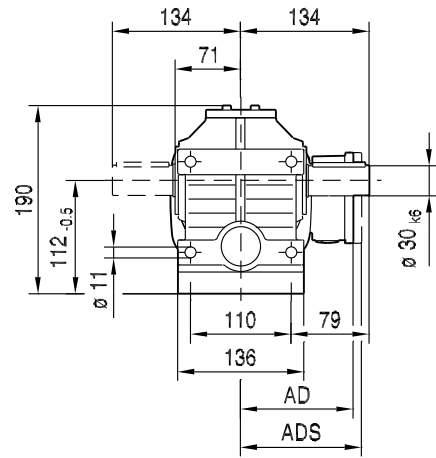
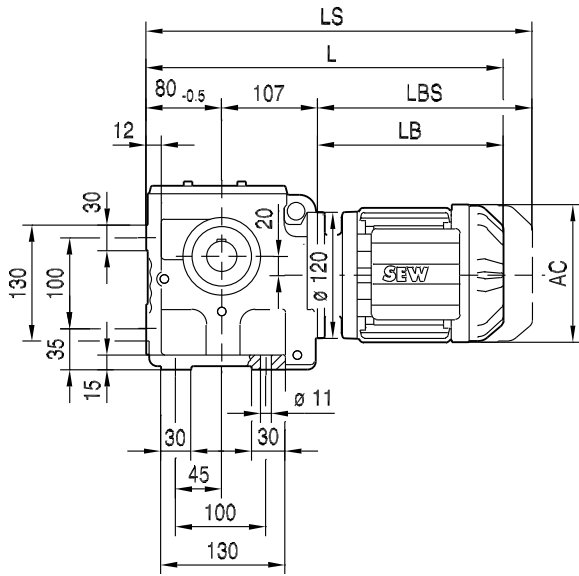
11

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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	362	373	398	453	454	486		
LS	417	441	466	534	548	580		
LB	191	202	227	282	283	315		
LBS	246	270	295	363	377	409		

02 017 00 14

S57..

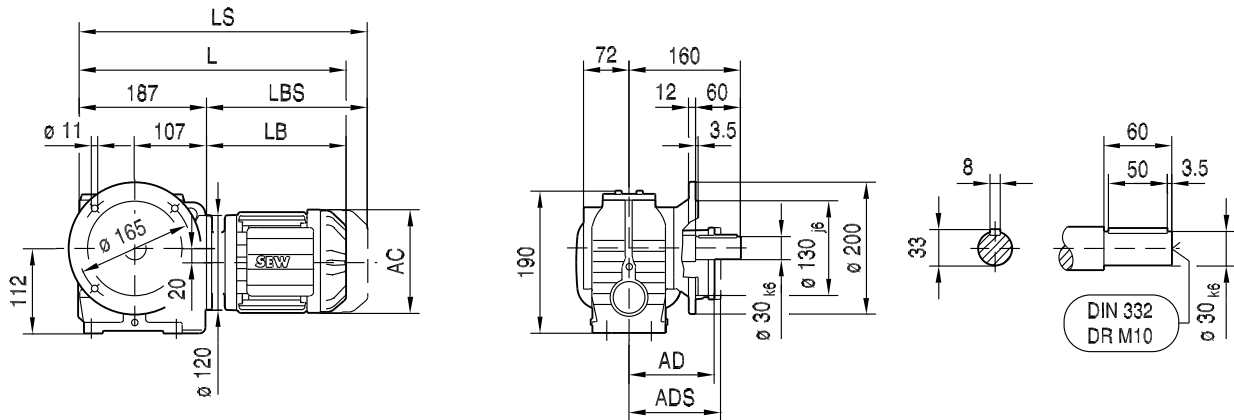


(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L
AC	132	139	139	156	179	179	197	197
AD	105	119	119	128	140	140	157	157
ADS	105	129	129	139	150	150	158	158
L	378	389	414	469	470	502	501	551
LS	433	457	482	550	564	596	595	645
LB	191	202	227	282	283	315	314	364
LBS	246	270	295	363	377	409	408	458

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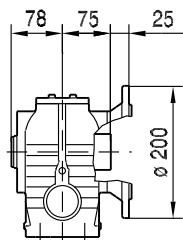
02 018 00 14

SF57..

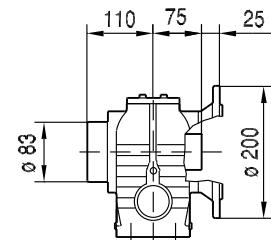


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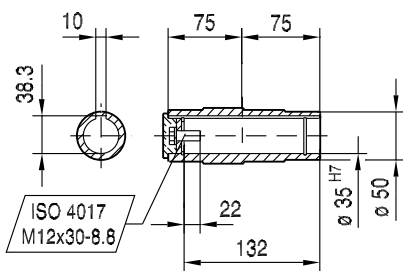
SAF57..



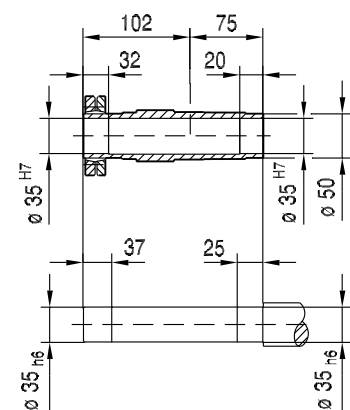
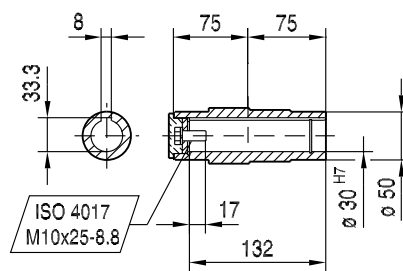
SHF57..



Ø 35 H7



Ø 30 H7

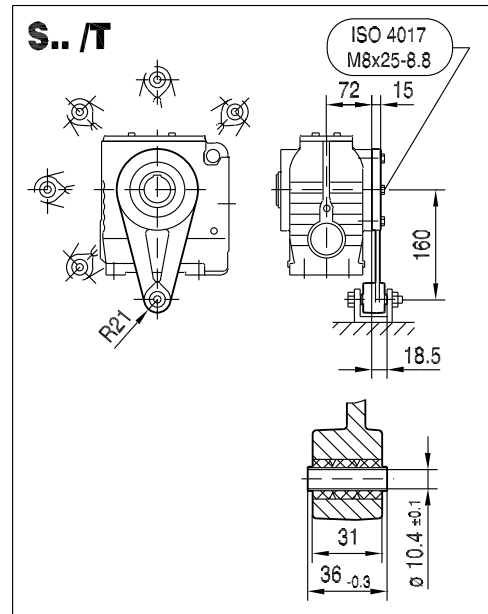
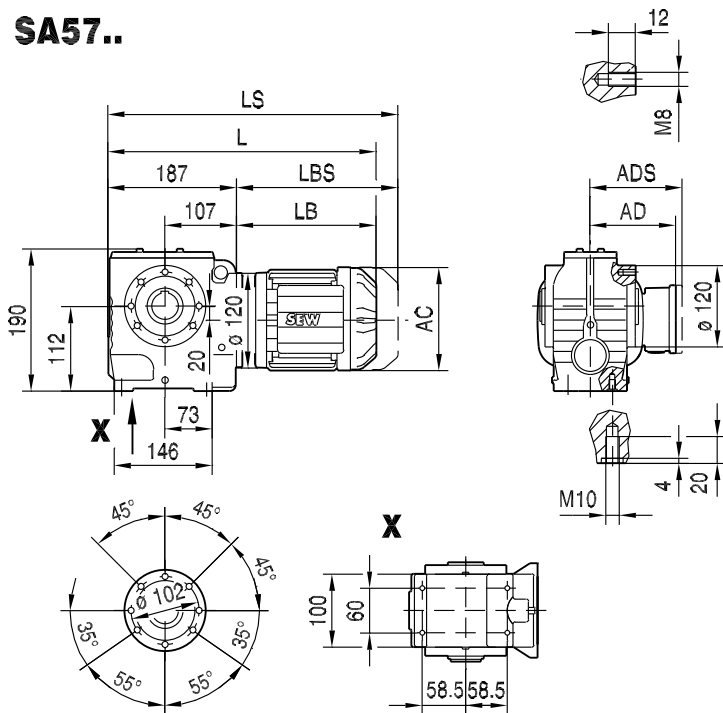


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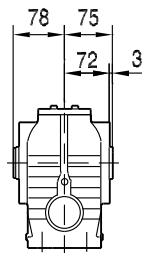
(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L
AC	132	139	139	156	179	179	197	197
AD	105	119	119	128	140	140	157	157
ADS	105	129	129	139	150	150	158	158
L	378	389	414	469	470	502	501	551
LS	433	457	482	550	564	596	595	645
LB	191	202	227	282	283	315	314	364
LBS	246	270	295	363	377	409	408	458

02 019 00 14

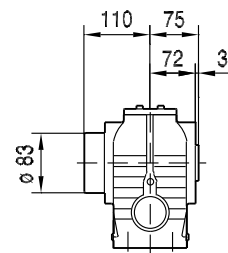
SA57..



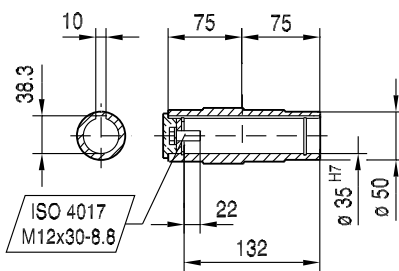
SA57..



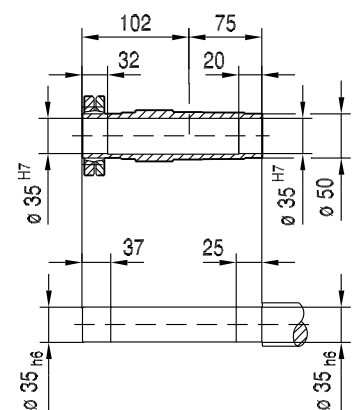
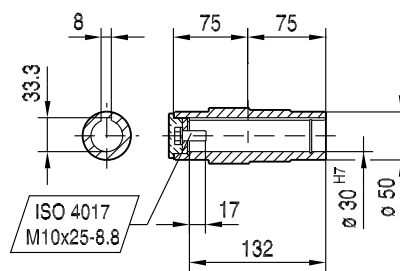
SH57..



Ø 35 H7



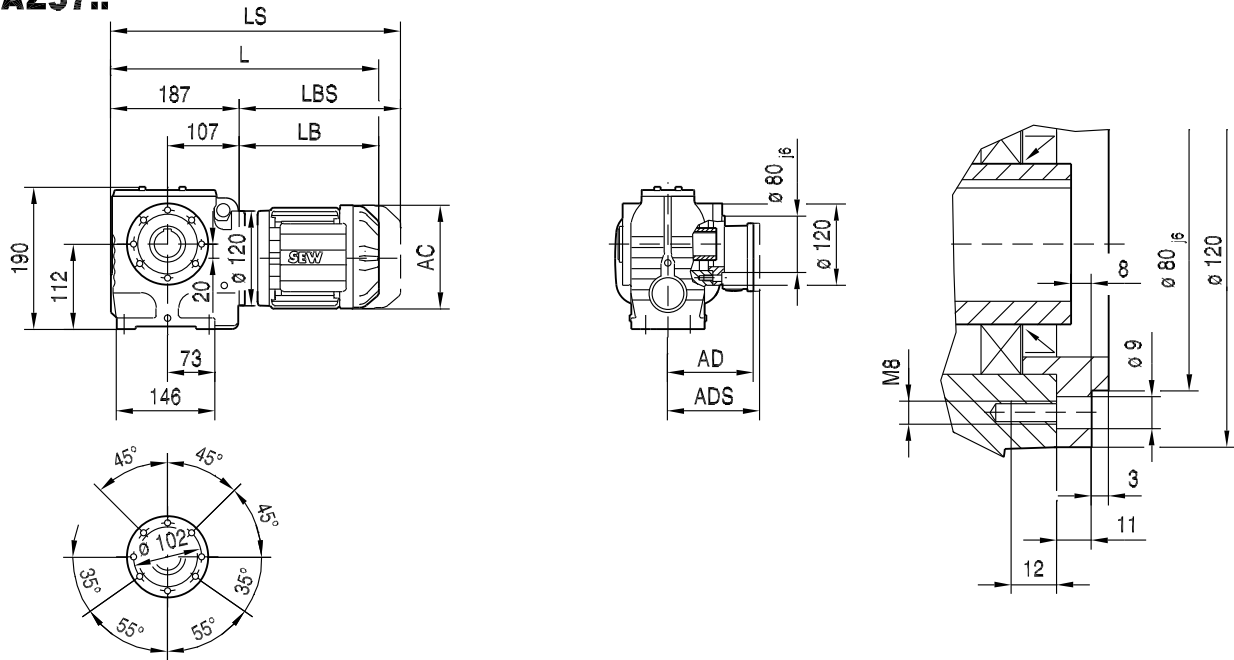
Ø 30 H7



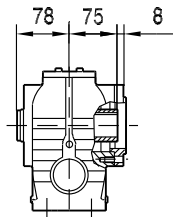
(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L
AC	132	139	139	156	179	179	197	197
AD	105	119	119	128	140	140	157	157
ADS	105	129	129	139	150	150	158	158
L	378	389	414	469	470	502	501	551
LS	433	457	482	550	564	596	595	645
LB	191	202	227	282	283	315	314	364
LBS	246	270	295	363	377	409	408	458

02 020 00 14

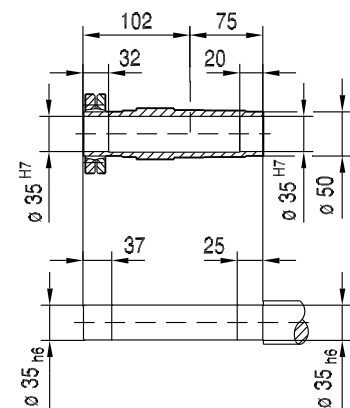
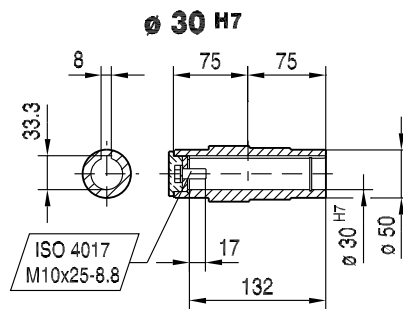
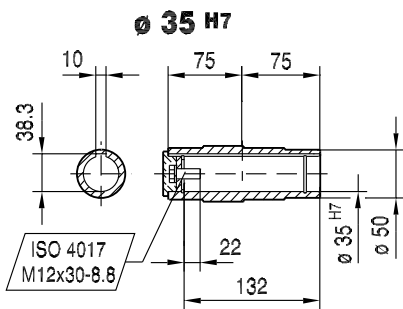
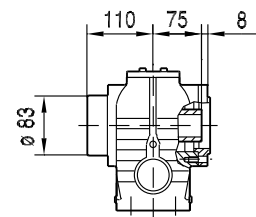
SAZ57..



SAZ57..



SHZ57..

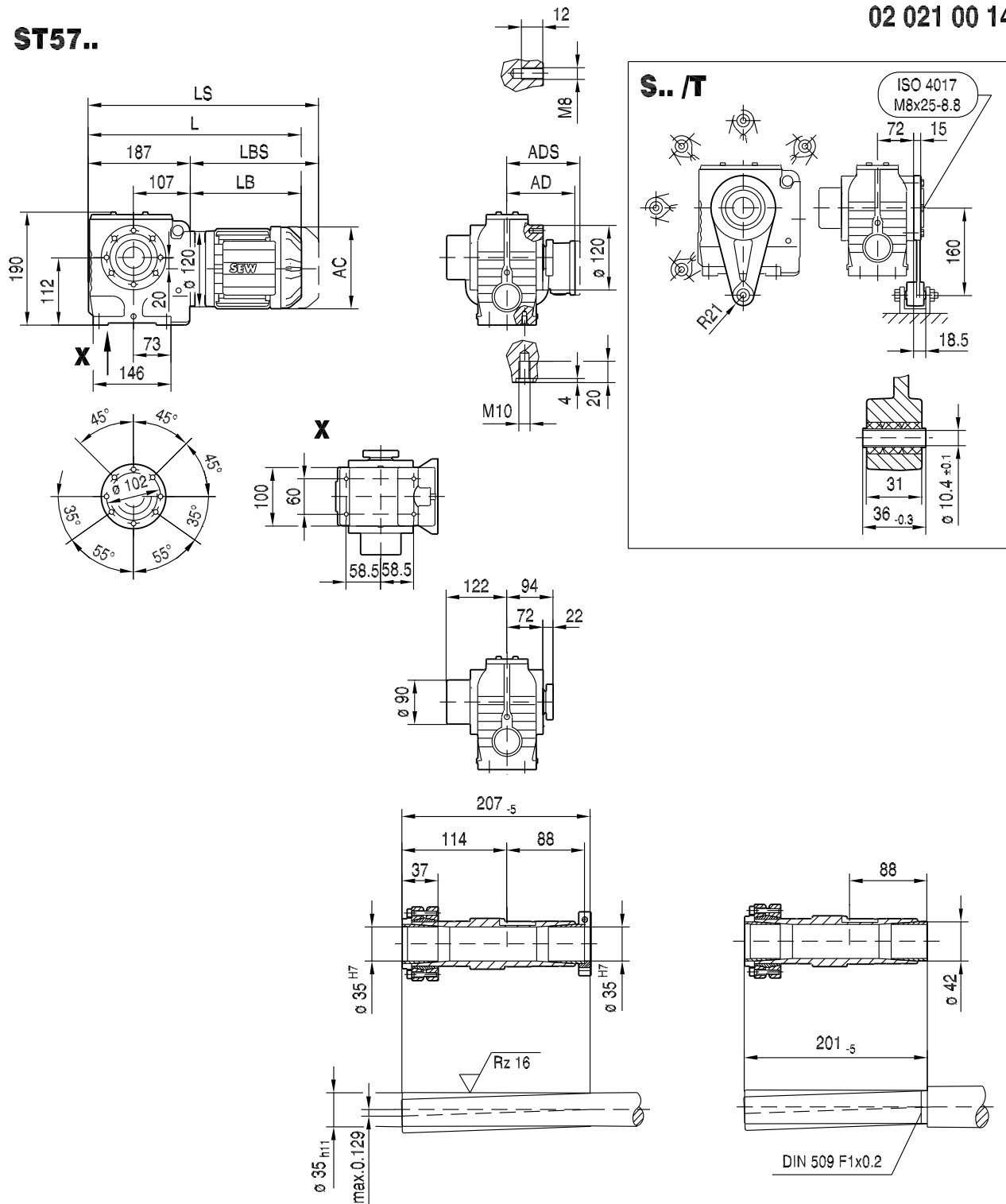


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(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L
AC	132	139	139	156	179	179	197	197
AD	105	119	119	128	140	140	157	157
ADS	105	129	129	139	150	150	158	158
L	378	389	414	469	470	502	501	551
LS	433	457	482	550	564	596	595	645
LB	191	202	227	282	283	315	314	364
LBS	246	270	295	363	377	409	408	458

02 021 00 14

ST57..

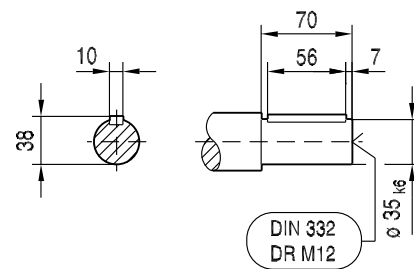
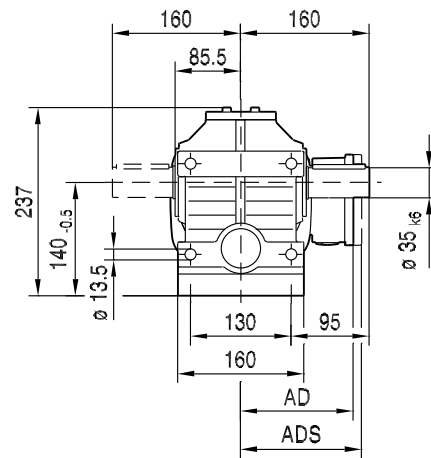
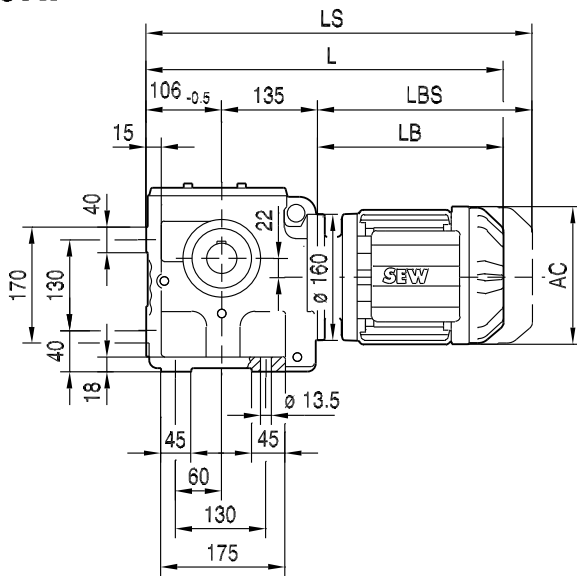


(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L
AC	132	139	139	156	179	179	197	197
AD	105	119	119	128	140	140	157	157
ADS	105	129	129	139	150	150	158	158
L	378	389	414	469	470	502	501	551
LS	433	457	482	550	564	596	595	645
LB	191	202	227	282	283	315	314	364
LBS	246	270	295	363	377	409	408	458

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02 022 00 14

S67..



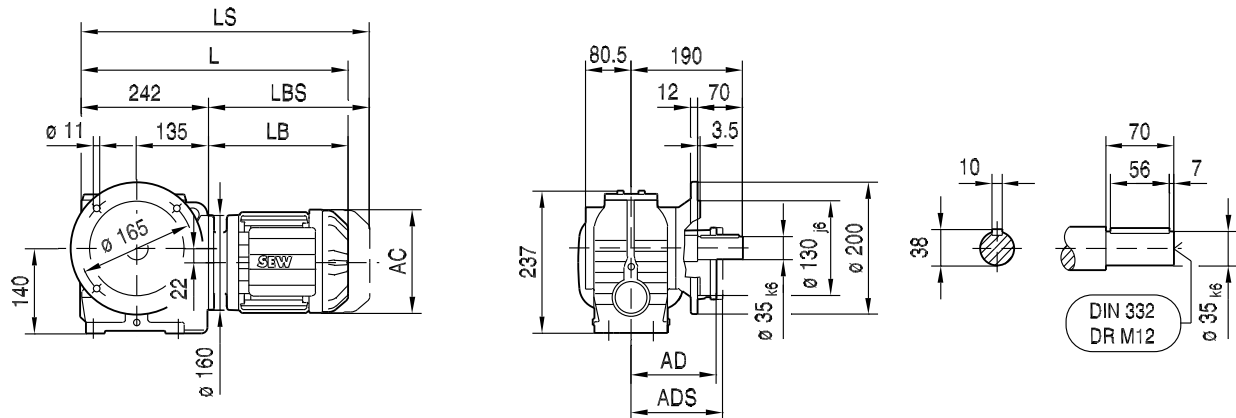
11

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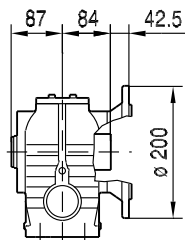
(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S
AC	132	139	139	156	179	179	197	197	221	221
AD	105	119	119	128	140	140	157	157	170	170
ADS	105	129	129	139	150	150	158	158	172	172
L	426	437	462	516	518	550	546	596	627	681
LS	481	505	530	597	611	643	640	690	739	793
LB	185	196	221	275	277	309	305	355	386	440
LBS	240	264	289	356	370	402	399	449	498	552

02 023 00 14

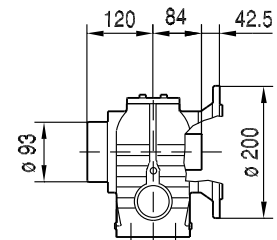
SF67..



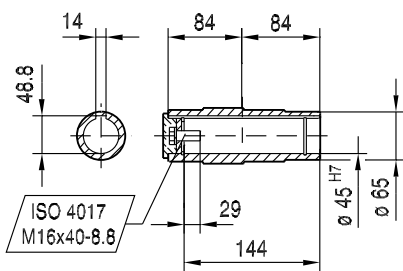
SAF67..



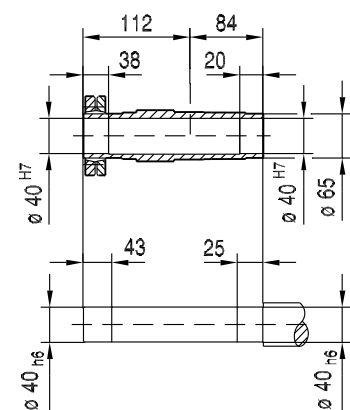
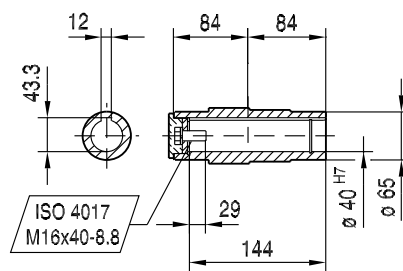
SHF67..



$\phi 45$ H7



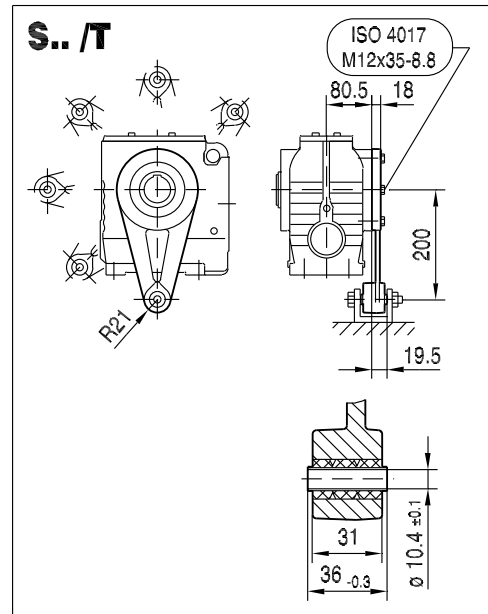
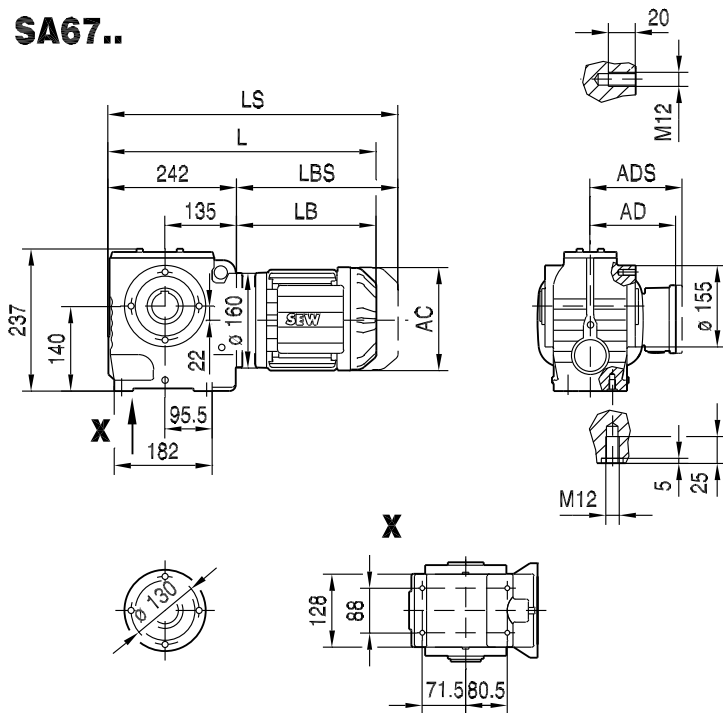
$\phi 40$ H7



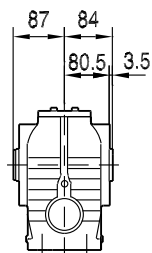
(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S
AC	132	139	139	156	179	179	197	197	221	221
AD	105	119	119	128	140	140	157	157	170	170
ADS	105	129	129	139	150	150	158	158	172	172
L	427	438	463	517	519	551	547	597	628	682
LS	482	506	531	598	612	644	641	691	740	794
LB	185	196	221	275	277	309	305	355	386	440
LBS	240	264	289	356	370	402	399	449	498	552

02 024 00 14

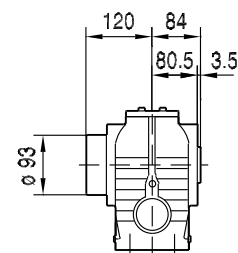
SA67..



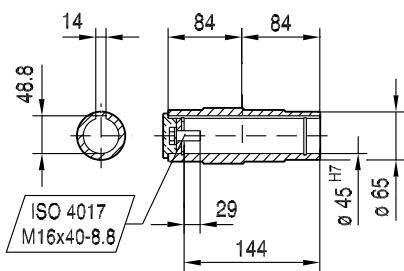
SA67..



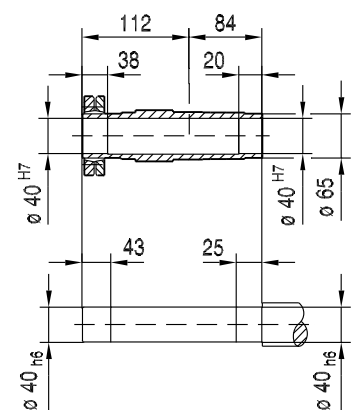
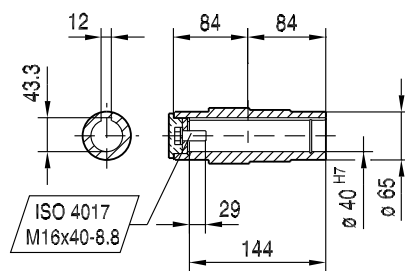
SH67..



Ø 45 H7



Ø 40 H7

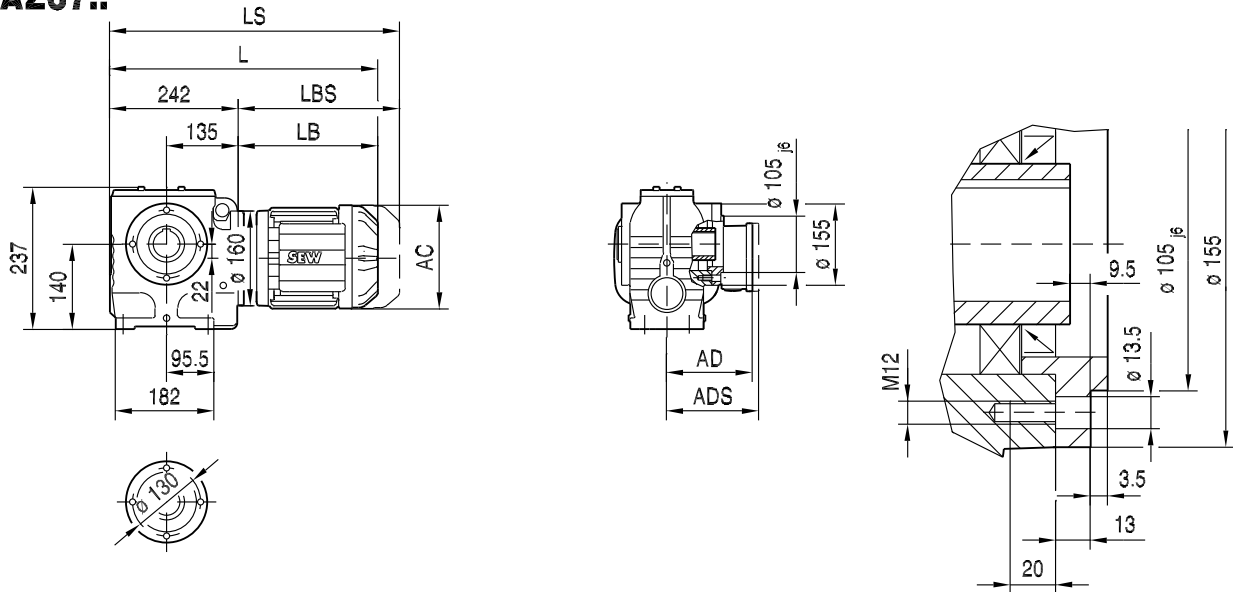


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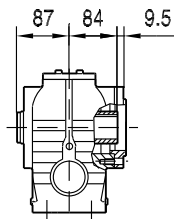
(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S
AC	132	139	139	156	179	179	197	197	221	221
AD	105	119	119	128	140	140	157	157	170	170
ADS	105	129	129	139	150	150	158	158	172	172
L	427	438	463	517	519	551	547	597	628	682
LS	482	506	531	598	612	644	641	691	740	794
LB	185	196	221	275	277	309	305	355	386	440
LBS	240	264	289	356	370	402	399	449	498	552

02 025 00 14

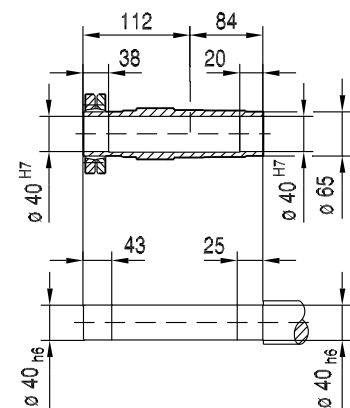
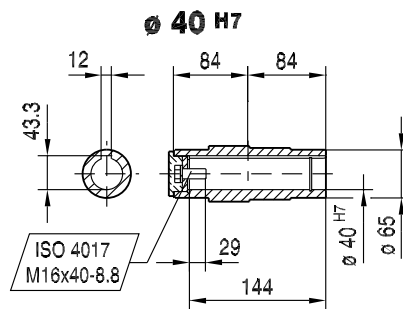
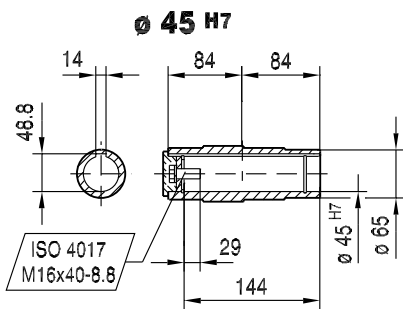
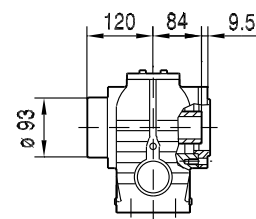
SAZ67..



SAZ67..



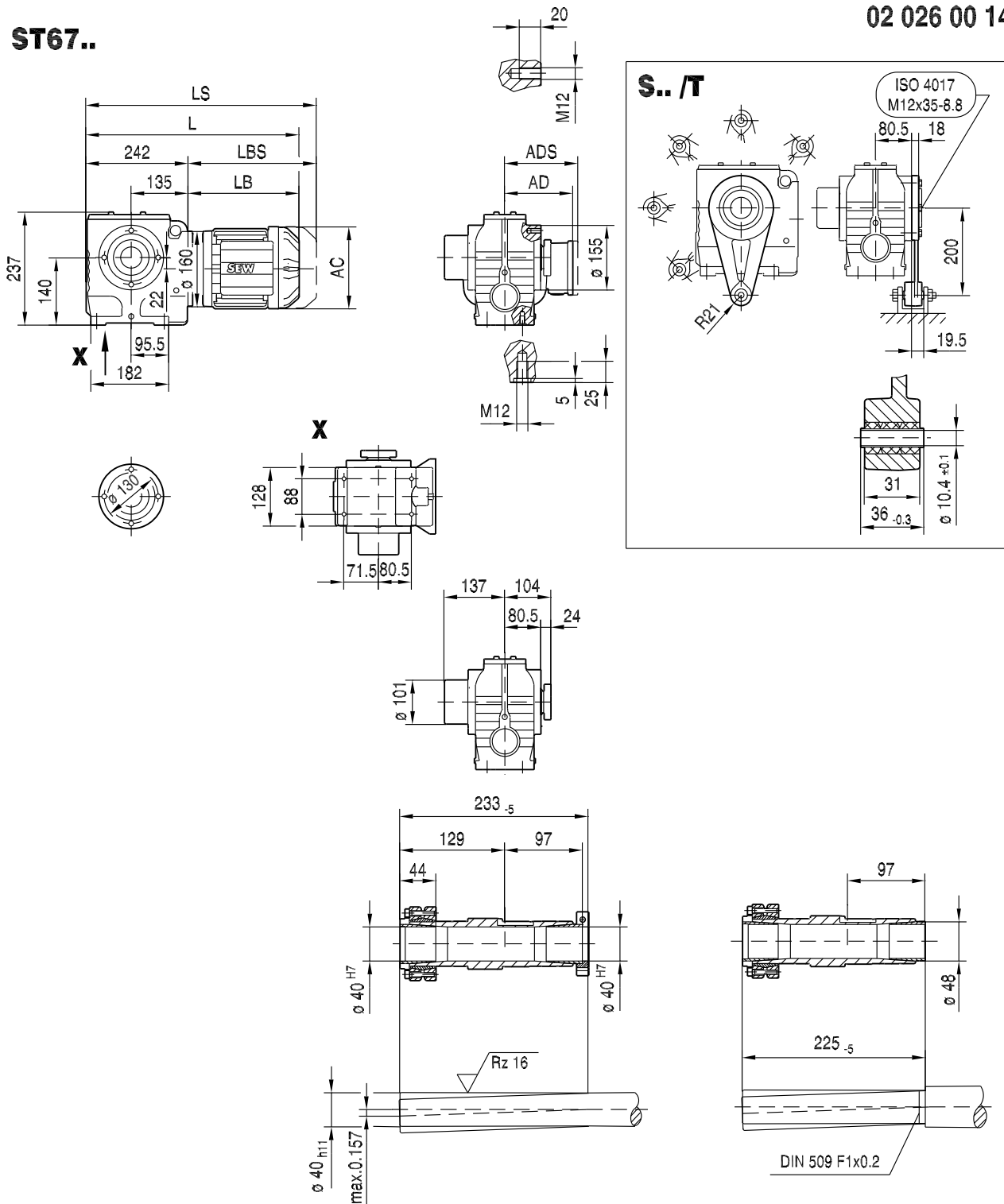
SHZ67..



(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S
AC	132	139	139	156	179	179	197	197	221	221
AD	105	119	119	128	140	140	157	157	170	170
ADS	105	129	129	139	150	150	158	158	172	172
L	427	438	463	517	519	551	547	597	628	682
LS	482	506	531	598	612	644	641	691	740	794
LB	185	196	221	275	277	309	305	355	386	440
LBS	240	264	289	356	370	402	399	449	498	552

ST67..

02 026 00 14



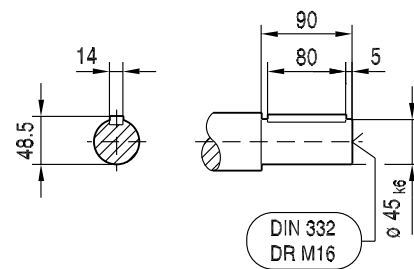
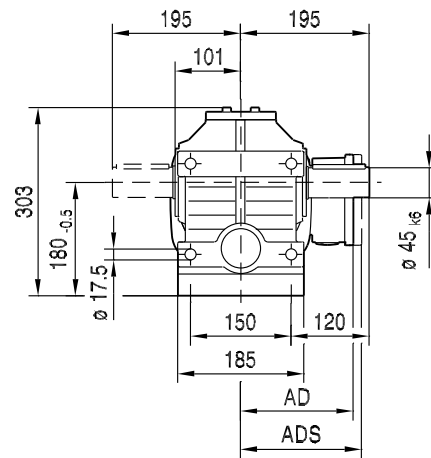
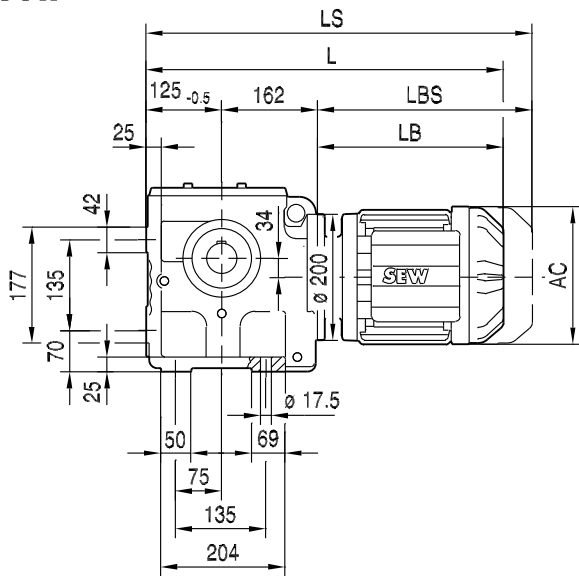
11

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(→ 155)	DR63..	DR71S	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S
AC	132	139	139	156	179	179	197	197	221	221
AD	105	119	119	128	140	140	157	157	170	170
ADS	105	129	129	139	150	150	158	158	172	172
L	427	438	463	517	519	551	547	597	628	682
LS	482	506	531	598	612	644	641	691	740	794
LB	185	196	221	275	277	309	305	355	386	440
LBS	240	264	289	356	370	402	399	449	498	552

02 027 00 14

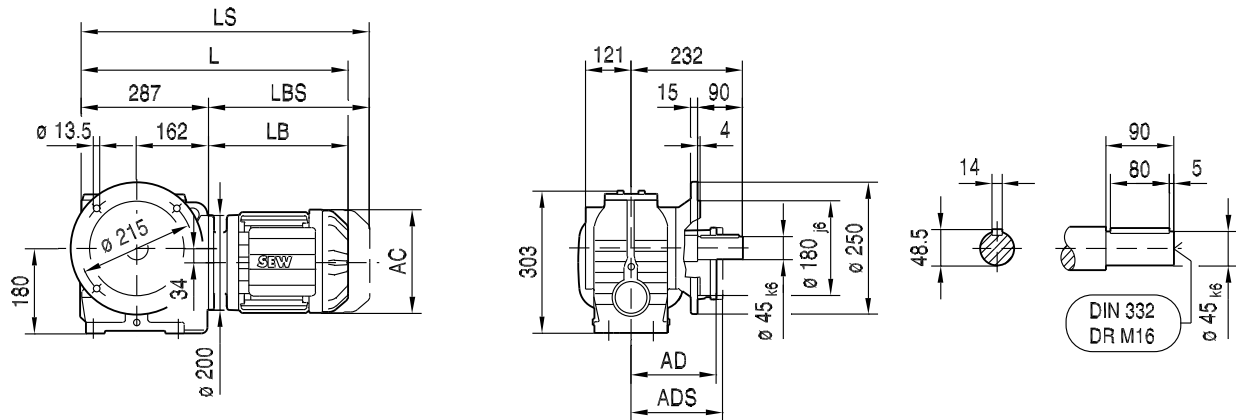
S77..



(→ 155)	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L
AC	139	156	179	179	197	197	221	221	261	261
AD	119	128	140	140	157	157	170	170	228	228
ADS	129	139	150	150	158	158	172	172	228	228
L	501	555	557	589	585	635	666	716	734	760
LS	569	636	650	682	679	729	778	828	872	897
LB	214	268	270	302	298	348	379	429	447	473
LBS	282	349	363	395	392	442	491	541	585	610

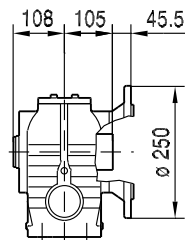
02 028 00 14

SF77..

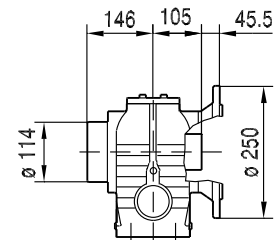


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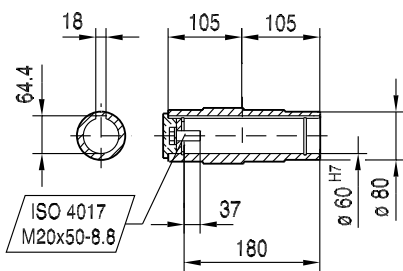
SAF77..



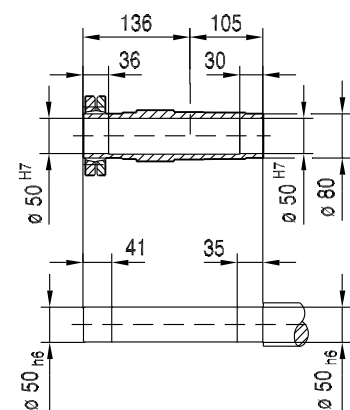
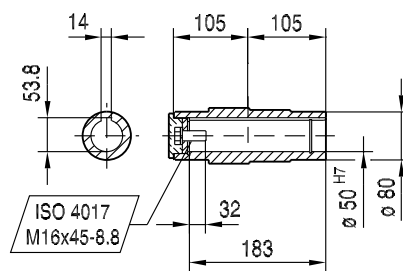
SHF77..



$\phi 60$ H7



$\phi 50$ H7

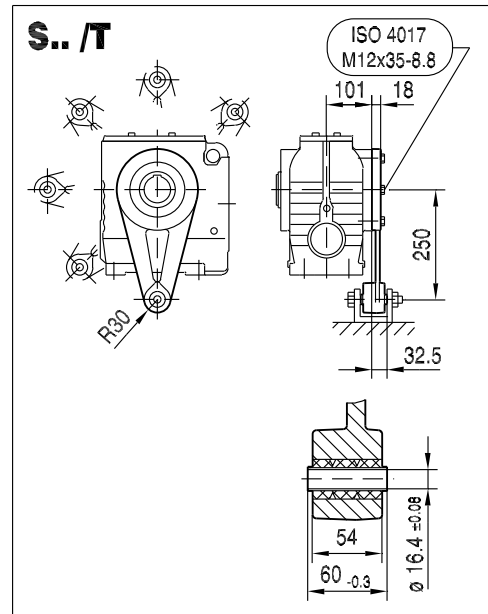
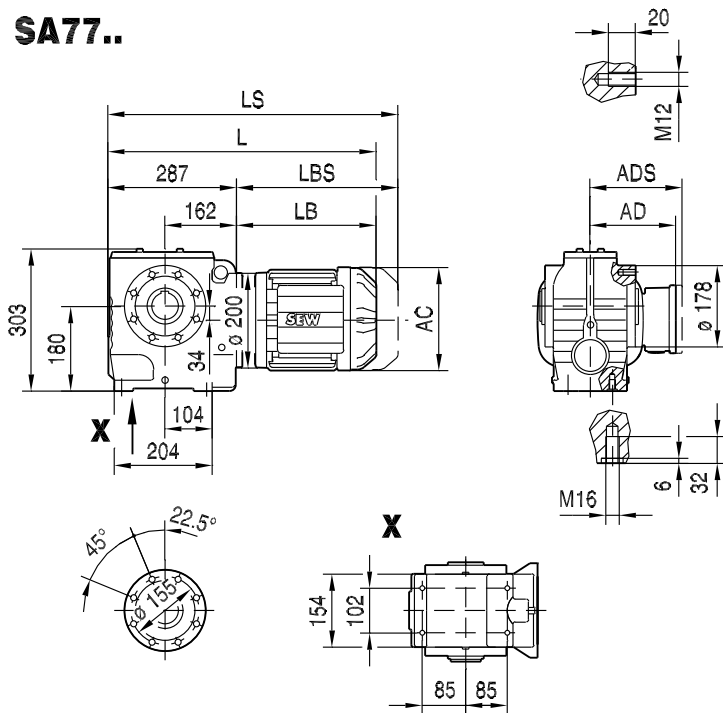


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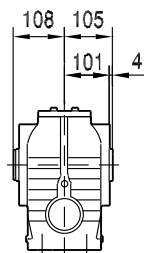
(→ 155)	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L
AC	139	156	179	179	197	197	221	221	261	261
AD	119	128	140	140	157	157	170	170	228	228
ADS	129	139	150	150	158	158	172	172	228	228
L	501	555	557	589	585	635	666	716	734	760
LS	569	636	650	682	679	729	778	828	872	897
LB	214	268	270	302	298	348	379	429	447	473
LBS	282	349	363	395	392	442	491	541	585	610

02 029 00 14

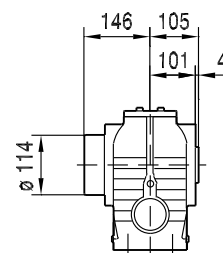
SA77..



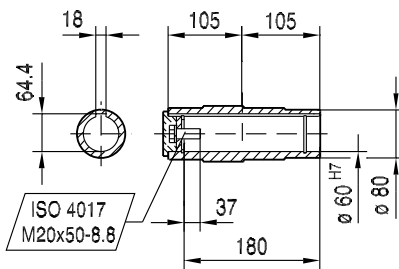
SA77..



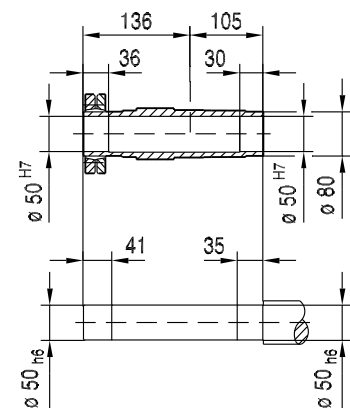
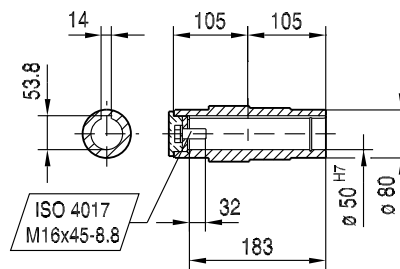
SH77..



∅ 60 H7



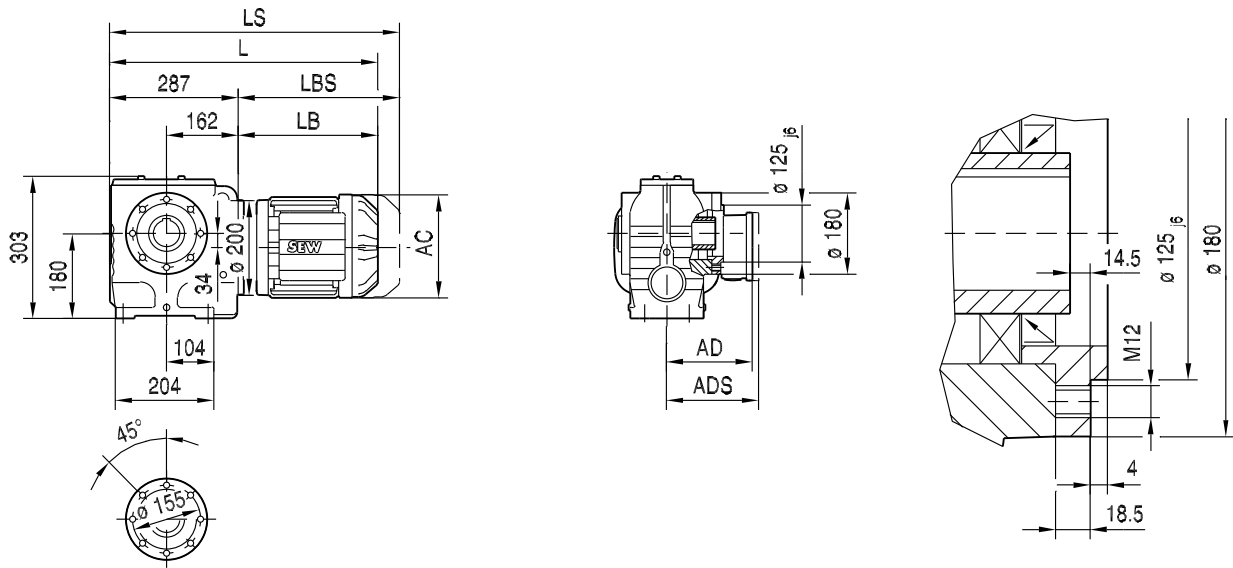
∅ 50 H7



(→ 155)	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L
AC	139	156	179	179	197	197	221	221	261	261
AD	119	128	140	140	157	157	170	170	228	228
ADS	129	139	150	150	158	158	172	172	228	228
L	501	555	557	589	585	635	666	716	734	760
LS	569	636	650	682	679	729	778	828	872	897
LB	214	268	270	302	298	348	379	429	447	473
LBS	282	349	363	395	392	442	491	541	585	610

02 030 00 14

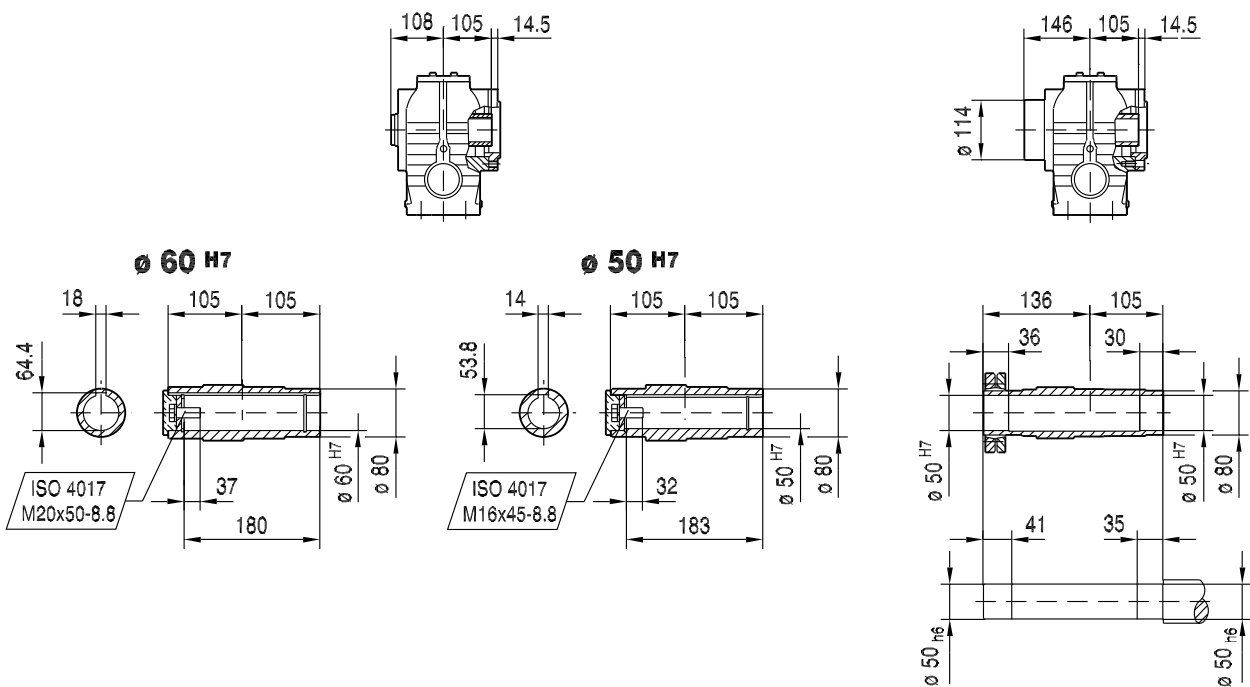
SAZ77..



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SAZ77..

SHZ77..

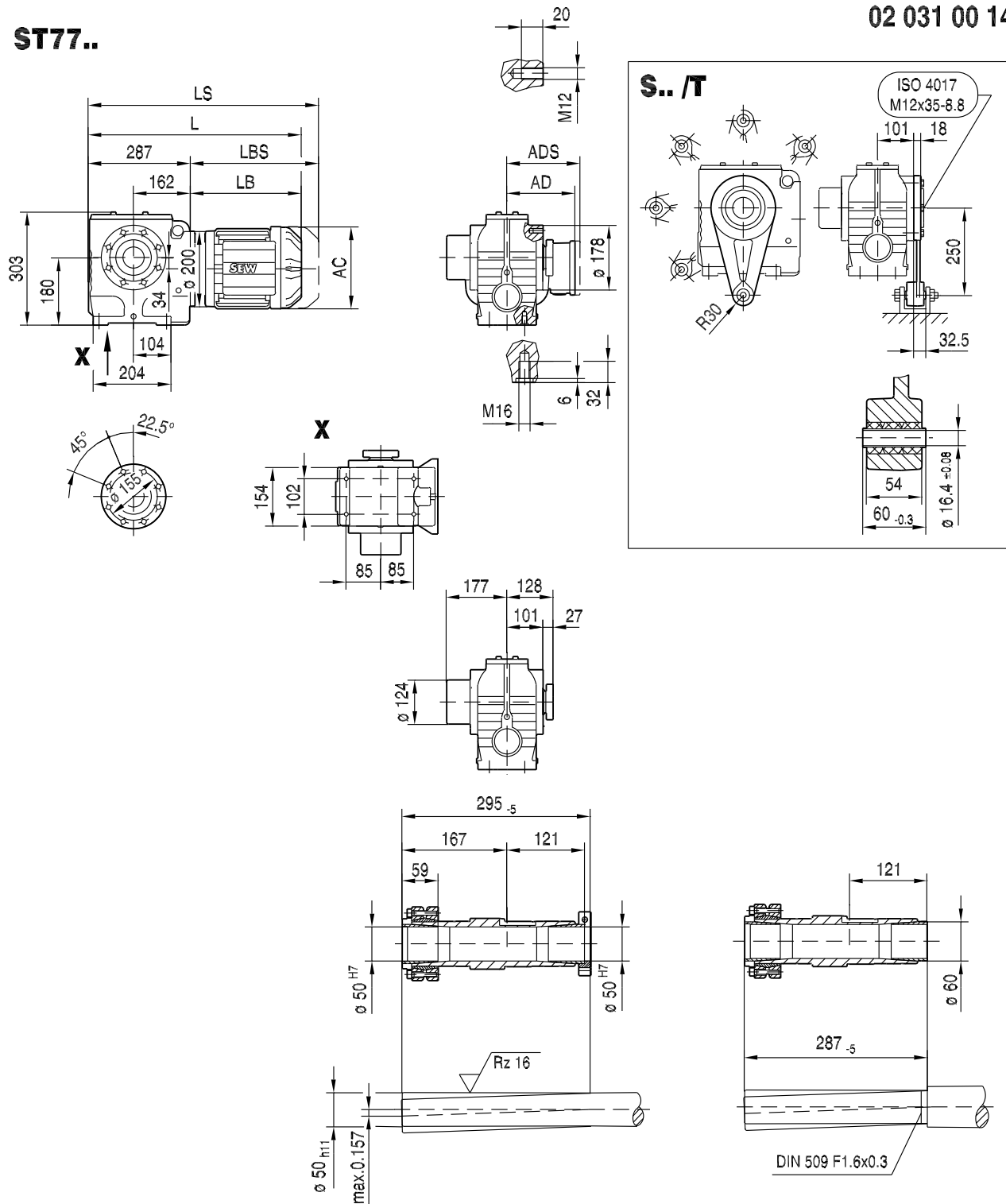


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(→ ■ 155)	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L
AC	139	156	179	179	197	197	221	221	261	261
AD	119	128	140	140	157	157	170	170	228	228
ADS	129	139	150	150	158	158	172	172	228	228
L	501	555	557	589	585	635	666	716	734	760
LS	569	636	650	682	679	729	778	828	872	897
LB	214	268	270	302	298	348	379	429	447	473
LBS	282	349	363	395	392	442	491	541	585	610

02 031 00 14

ST77..

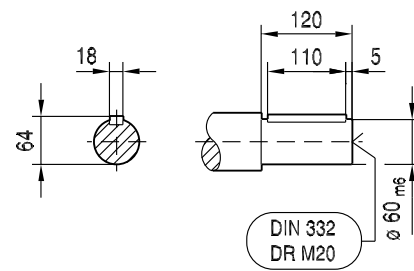
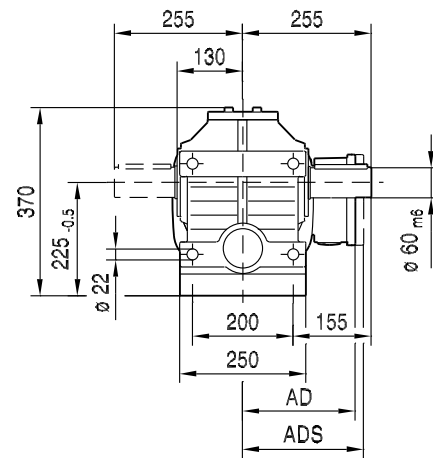
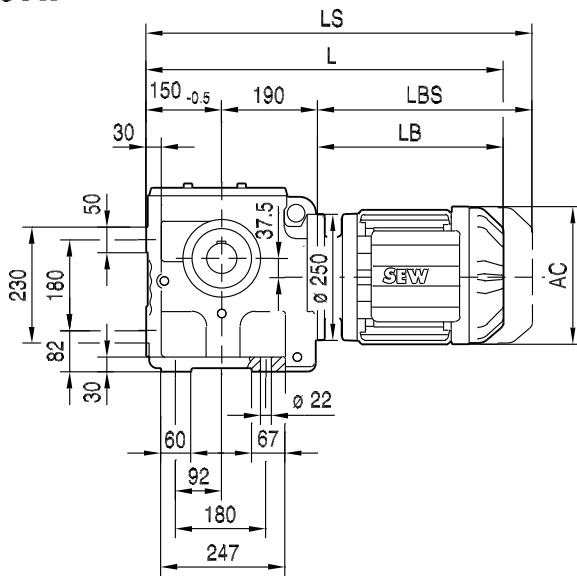


(→ 155)	DR71M	DRN80M	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L
AC	139	156	179	179	197	197	221	221	261	261
AD	119	128	140	140	157	157	170	170	228	228
ADS	129	139	150	150	158	158	172	172	228	228
L	501	555	557	589	585	635	666	716	734	760
LS	569	636	650	682	679	729	778	828	872	897
LB	214	268	270	302	298	348	379	429	447	473
LBS	282	349	363	395	392	442	491	541	585	610

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02 032 00 14

S87..

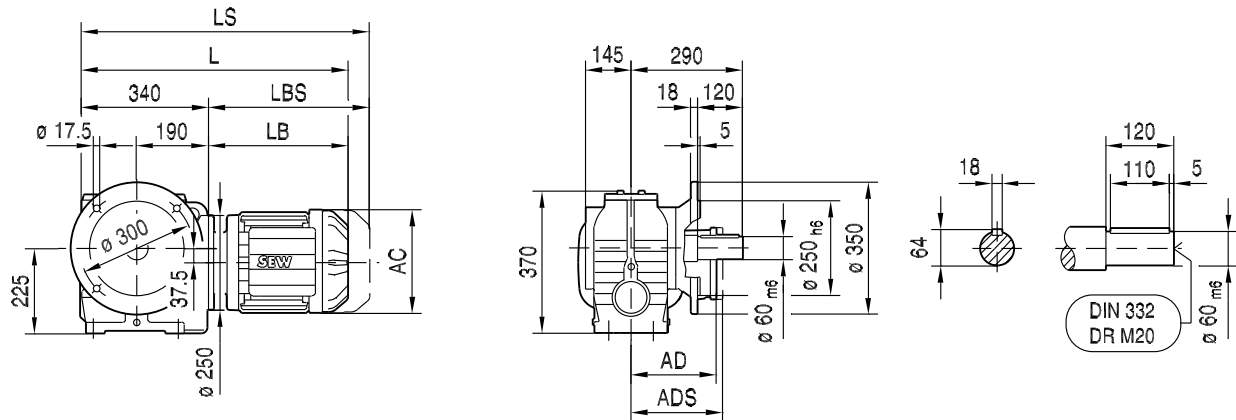


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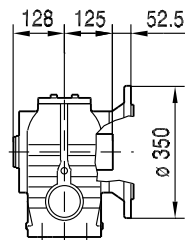
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(→ 155)	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L	DRN160M	DRN160L
AC	179	179	197	197	221	221	261	261	314	314
AD	140	140	157	157	170	170	228	228	253	253
ADS	150	150	158	158	172	172	228	228	253	253
L	605	637	633	683	714	764	782	808	874	874
LS	698	730	727	777	826	876	920	945	1063	1063
LB	265	297	293	343	374	424	442	468	534	534
LBS	358	390	387	437	486	536	580	605	723	723

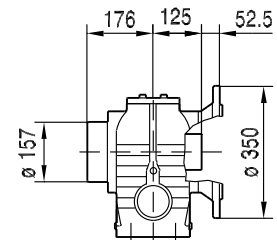
SF87..



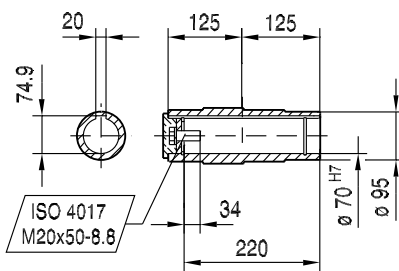
SAF87..



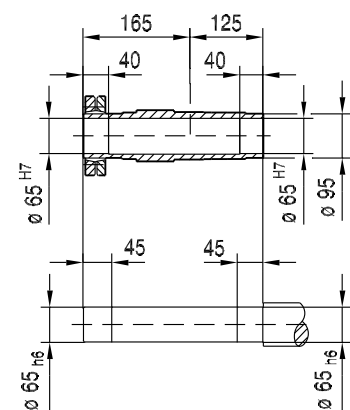
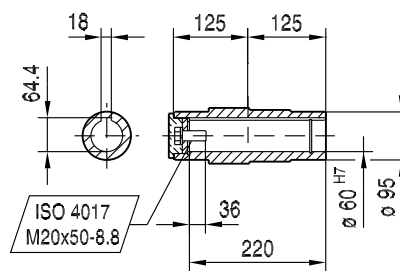
SHF87..



$\phi 70$ H7



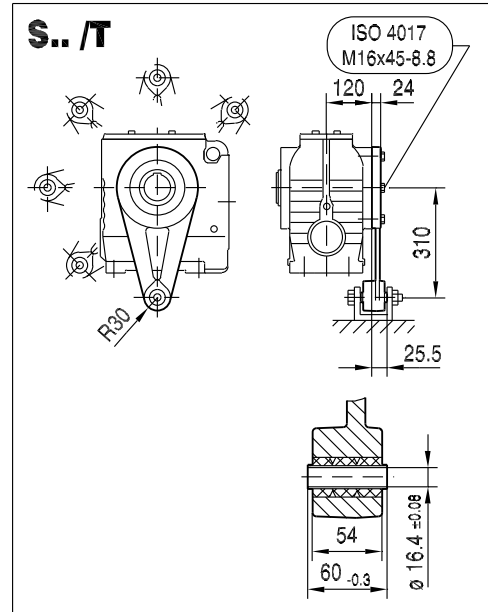
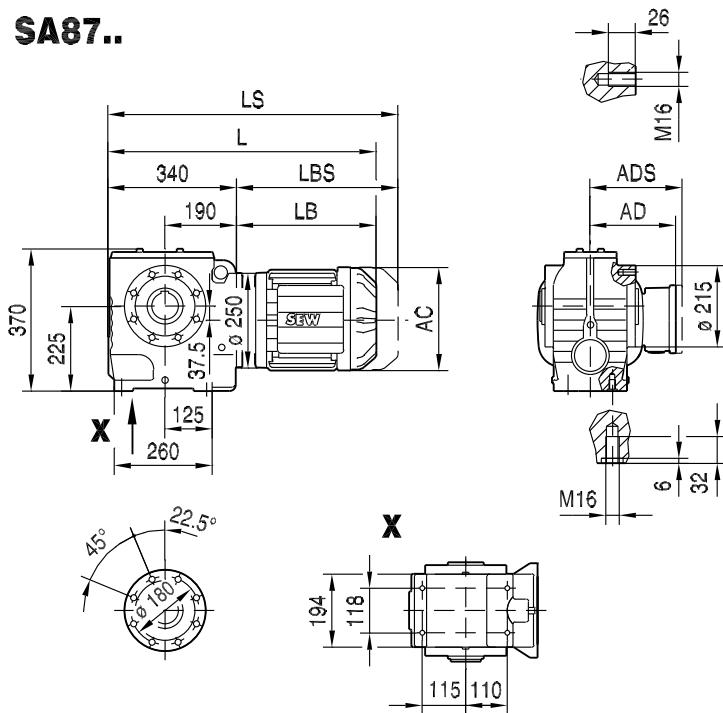
$\phi 60$ H7



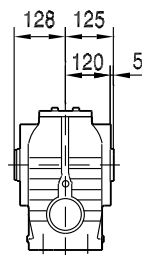
(→ ■ 155)	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L	DRN160M	DRN160L
AC	179	179	197	197	221	221	261	261	314	314
AD	140	140	157	157	170	170	228	228	253	253
ADS	150	150	158	158	172	172	228	228	253	253
L	605	637	633	683	714	764	782	808	874	874
LS	698	730	727	777	826	876	920	945	1063	1063
LB	265	297	293	343	374	424	442	468	534	534
LBS	358	390	387	437	486	536	580	605	723	723

02 034 00 14

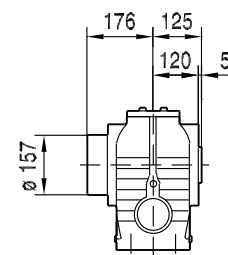
SA87..



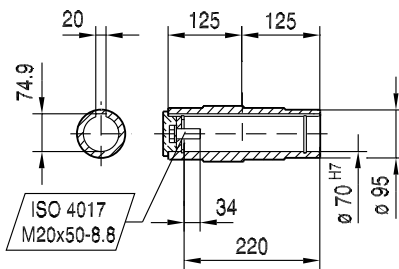
SA87..



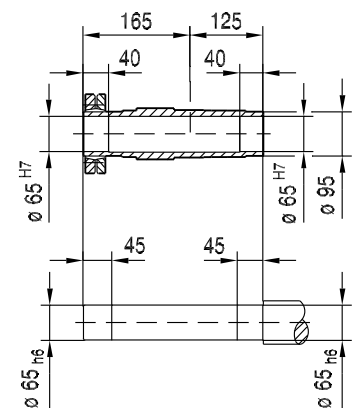
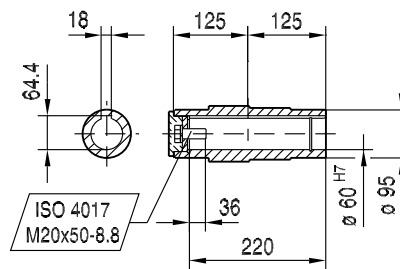
SH87..



∅ 70 H7



∅ 60 H7

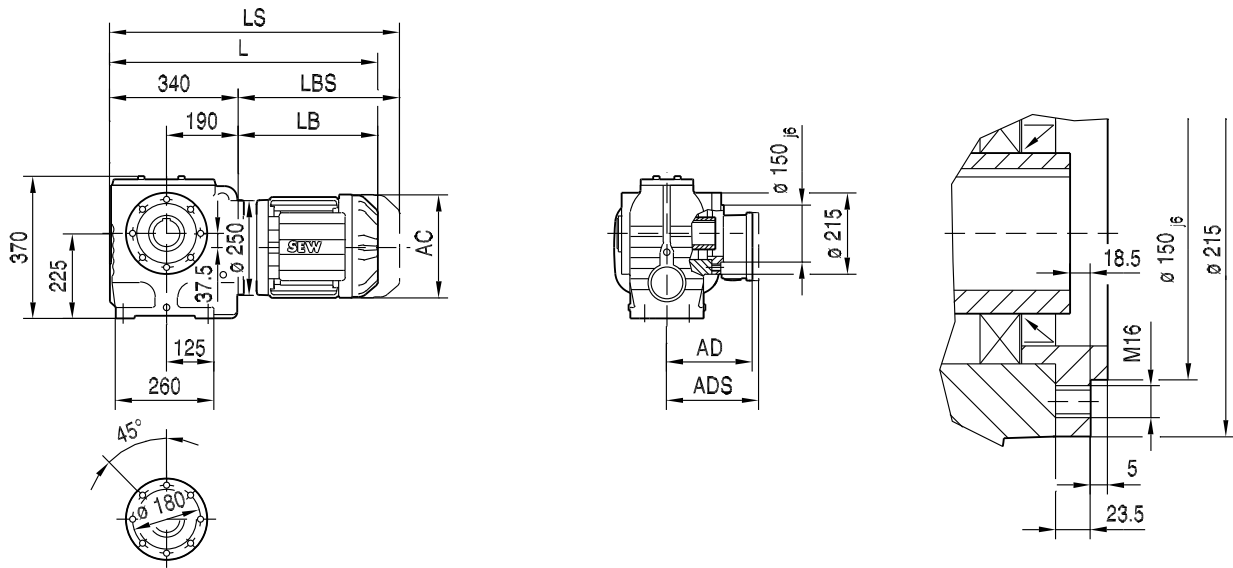


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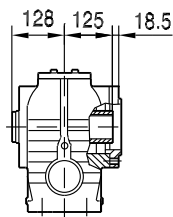
(→ ■ 155)	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L	DRN160M	DRN160L
AC	179	179	197	197	221	221	261	261	314	314
AD	140	140	157	157	170	170	228	228	253	253
ADS	150	150	158	158	172	172	228	228	253	253
L	605	637	633	683	714	764	782	808	874	874
LS	698	730	727	777	826	876	920	945	1063	1063
LB	265	297	293	343	374	424	442	468	534	534
LBS	358	390	387	437	486	536	580	605	723	723

02 035 00 14

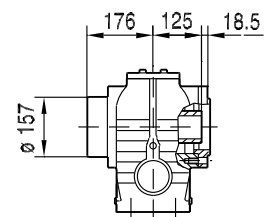
SAZ87..



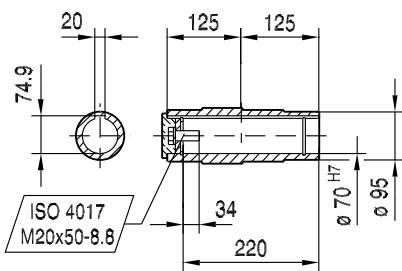
SAZ87..



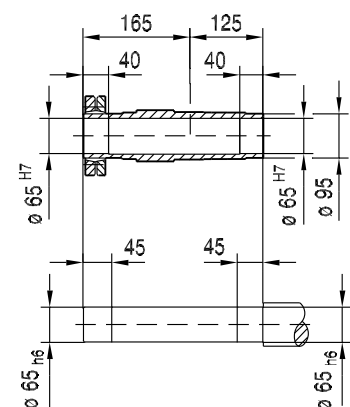
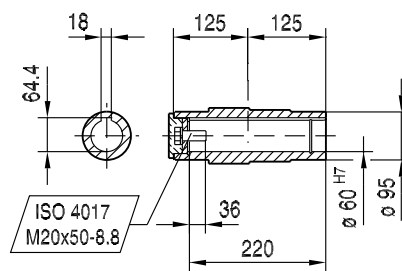
SHZ87..



$\varnothing 70$ H7



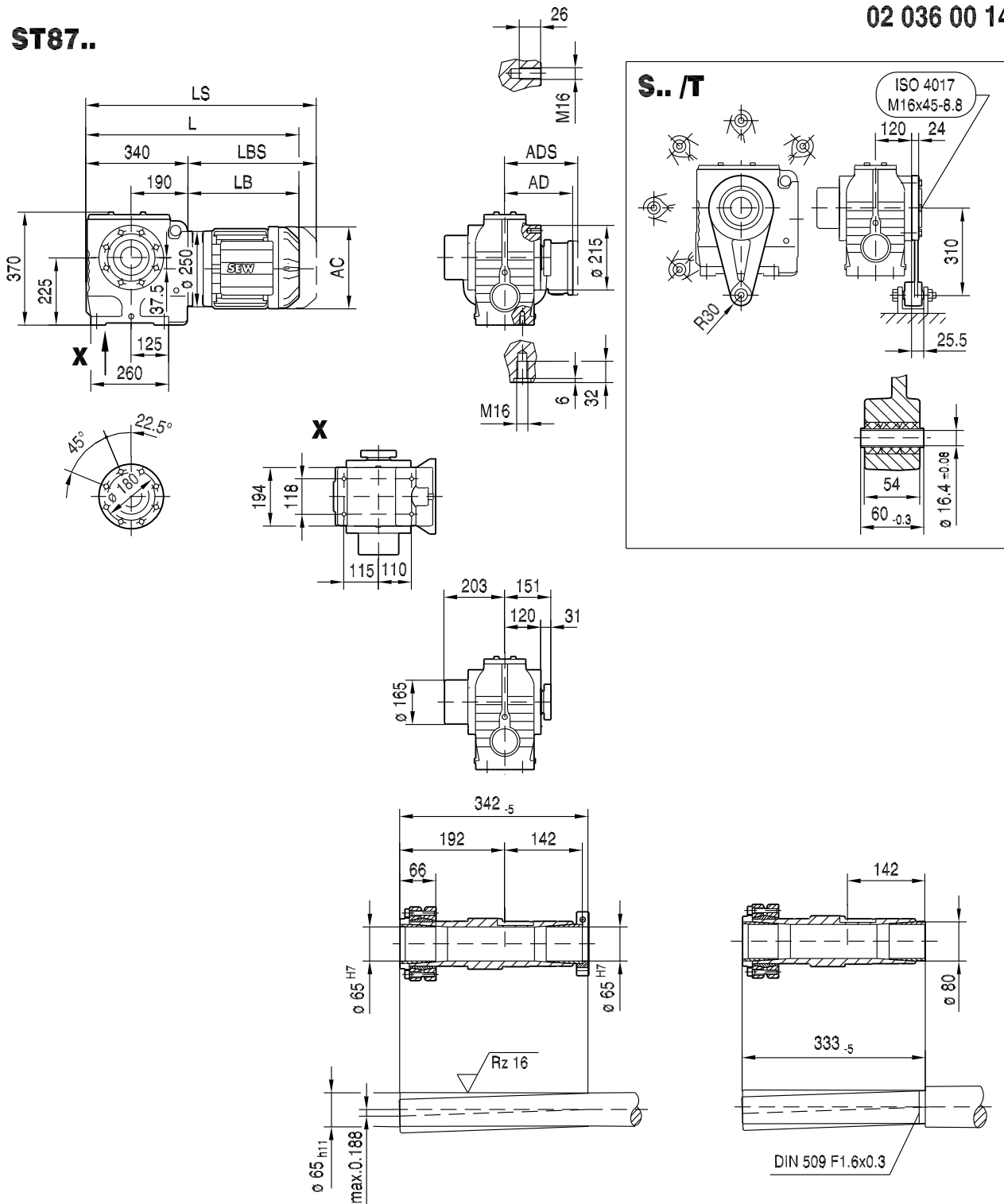
$\varnothing 60$ H7



(→ ■ 155)	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L	DRN160M	DRN160L
AC	179	179	197	197	221	221	261	261	314	314
AD	140	140	157	157	170	170	228	228	253	253
ADS	150	150	158	158	172	172	228	228	253	253
L	605	637	633	683	714	764	782	808	874	874
LS	698	730	727	777	826	876	920	945	1063	1063
LB	265	297	293	343	374	424	442	468	534	534
LBS	358	390	387	437	486	536	580	605	723	723

ST87..

02 036 00 14



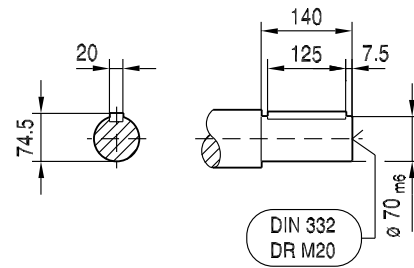
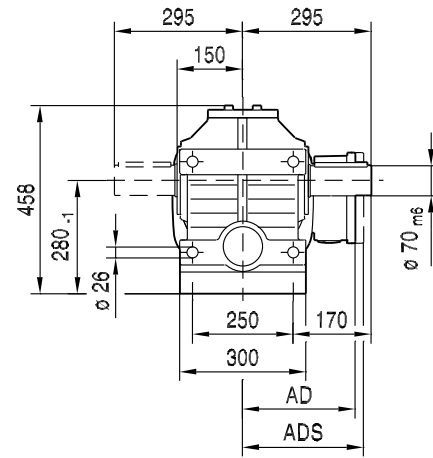
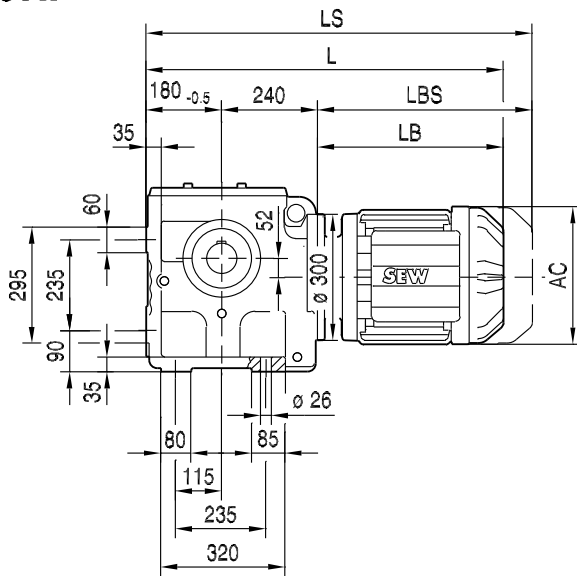
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(→ ▣ 155)	DRN90S	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L	DRN160M	DRN160L
AC	179	179	197	197	221	221	261	261	314	314
AD	140	140	157	157	170	170	228	228	253	253
ADS	150	150	158	158	172	172	228	228	253	253
L	605	637	633	683	714	764	782	808	874	874
LS	698	730	727	777	826	876	920	945	1063	1063
LB	265	297	293	343	374	424	442	468	534	534
LBS	358	390	387	437	486	536	580	605	723	723

02 037 00 14

S97..

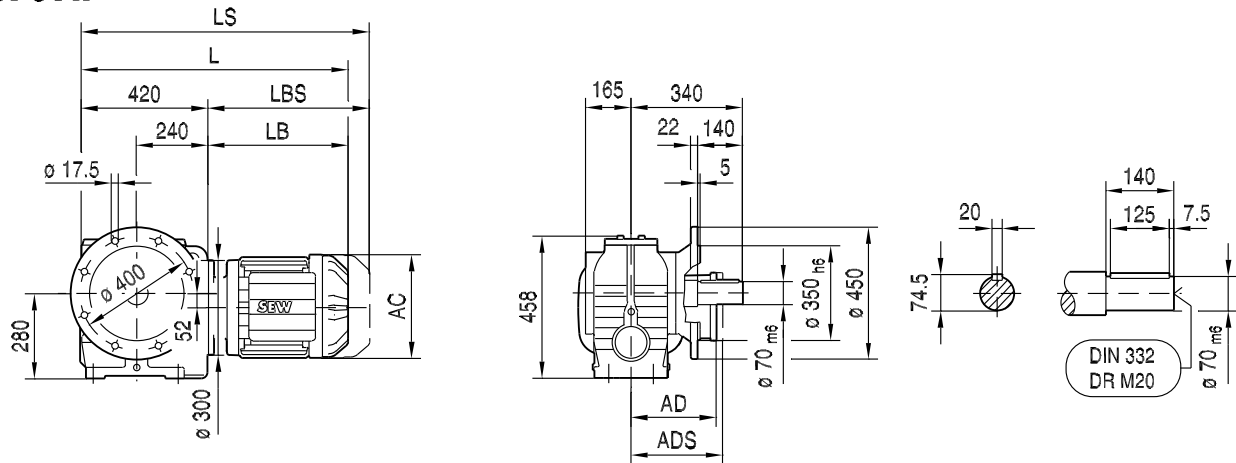


(→ 155)	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L	DRN160M	DRN160L	DRN180..
AC	179	197	197	221	221	261	261	314	314	357
AD	140	157	157	170	170	228	228	253	253	268
ADS	150	158	158	172	172	228	228	253	253	268
L	712	708	758	789	839	857	883	949	949	972
LS	805	802	852	901	951	995	1020	1138	1138	1161
LB	292	288	338	369	419	437	463	529	529	552
LBS	385	382	432	481	531	575	600	718	718	741

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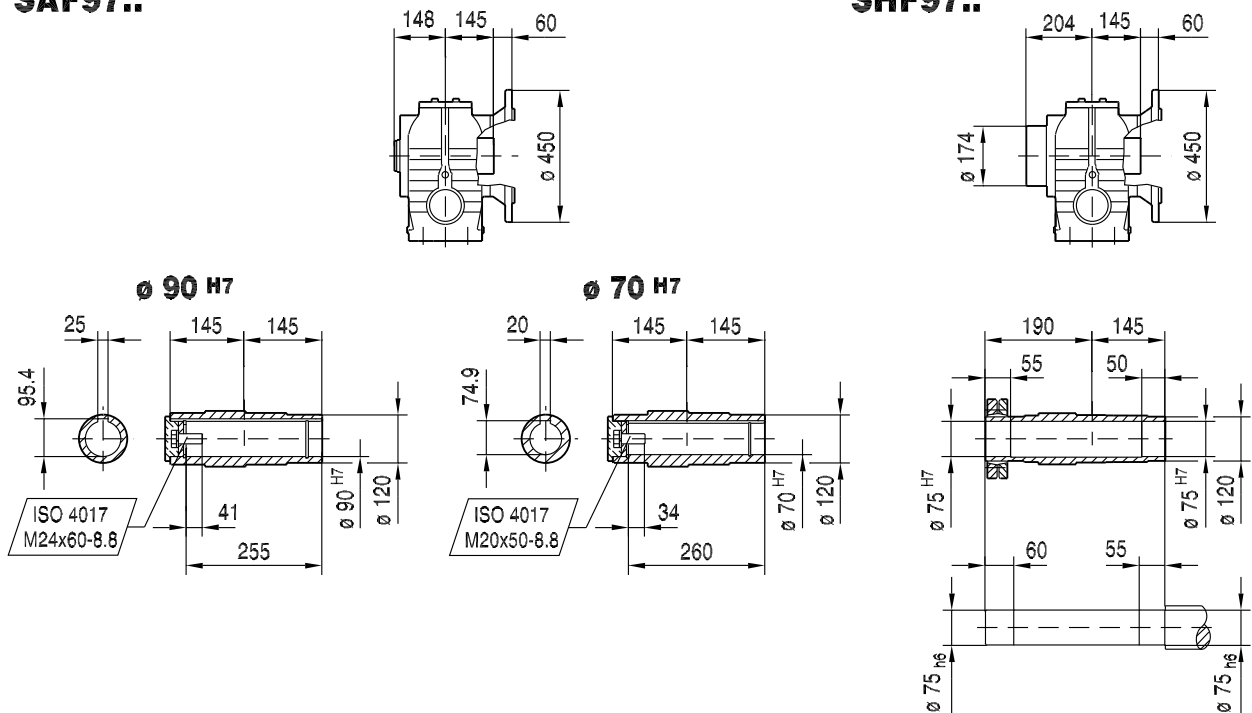
SF97..

02 038 00 14



SAF97..

SHF97..

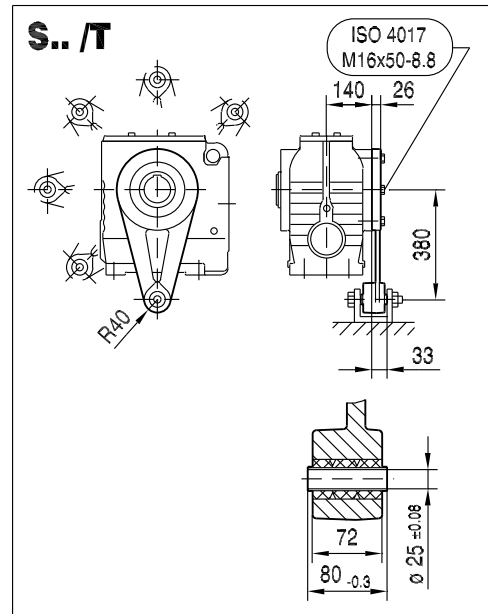
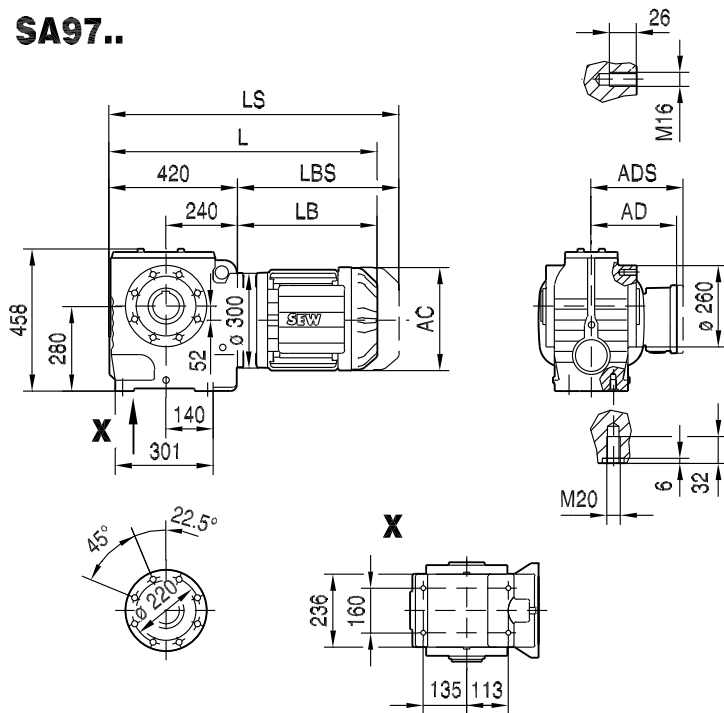


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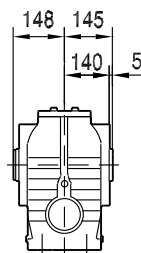
(→ ■ 155)	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L	DRN160M	DRN160L	DRN180..
AC	179	197	197	221	221	261	261	314	314	357
AD	140	157	157	170	170	228	228	253	253	268
ADS	150	158	158	172	172	228	228	253	253	268
L	712	708	758	789	839	857	883	949	949	972
LS	805	802	852	901	951	995	1020	1138	1138	1161
LB	292	288	338	369	419	437	463	529	529	552
LBS	385	382	432	481	531	575	600	718	718	741

02 039 00 14

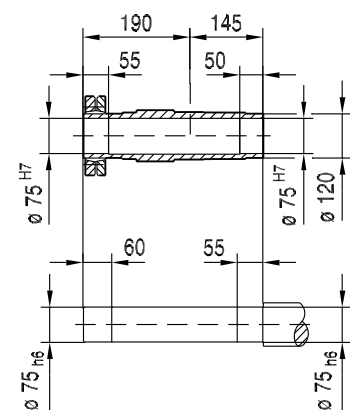
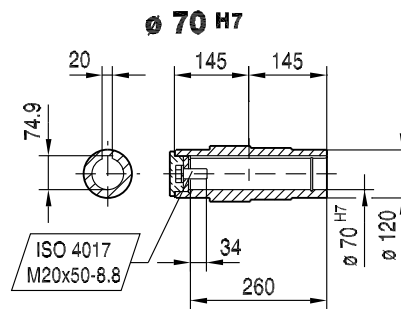
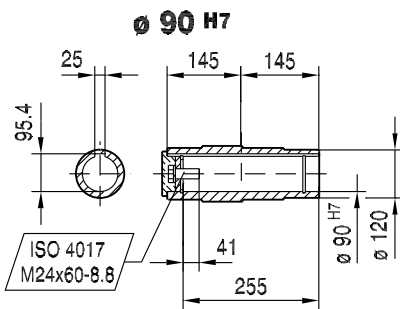
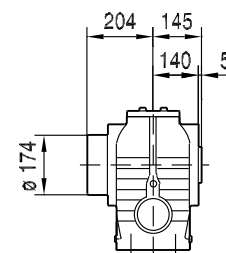
SA97..



SA97..



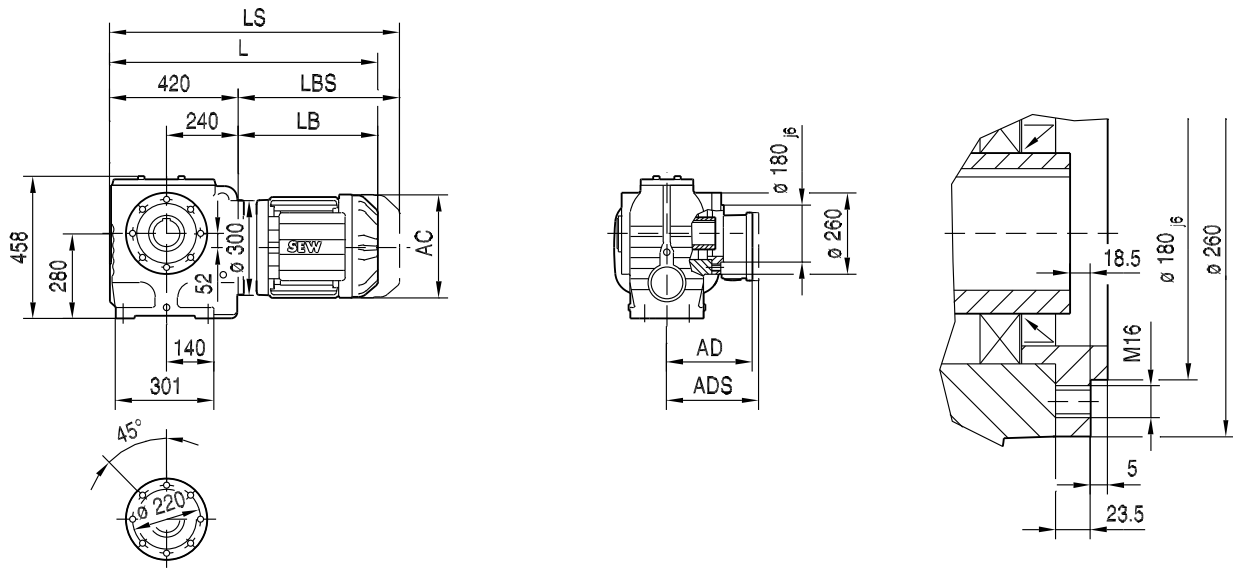
SH97..



(→ 155)	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L	DRN160M	DRN160L	DRN180..
AC	179	197	197	221	221	261	261	314	314	357
AD	140	157	157	170	170	228	228	253	253	268
ADS	150	158	158	172	172	228	228	253	253	268
L	712	708	758	789	839	857	883	949	949	972
LS	805	802	852	901	951	995	1020	1138	1138	1161
LB	292	288	338	369	419	437	463	529	529	552
LBS	385	382	432	481	531	575	600	718	718	741

02 040 00 14

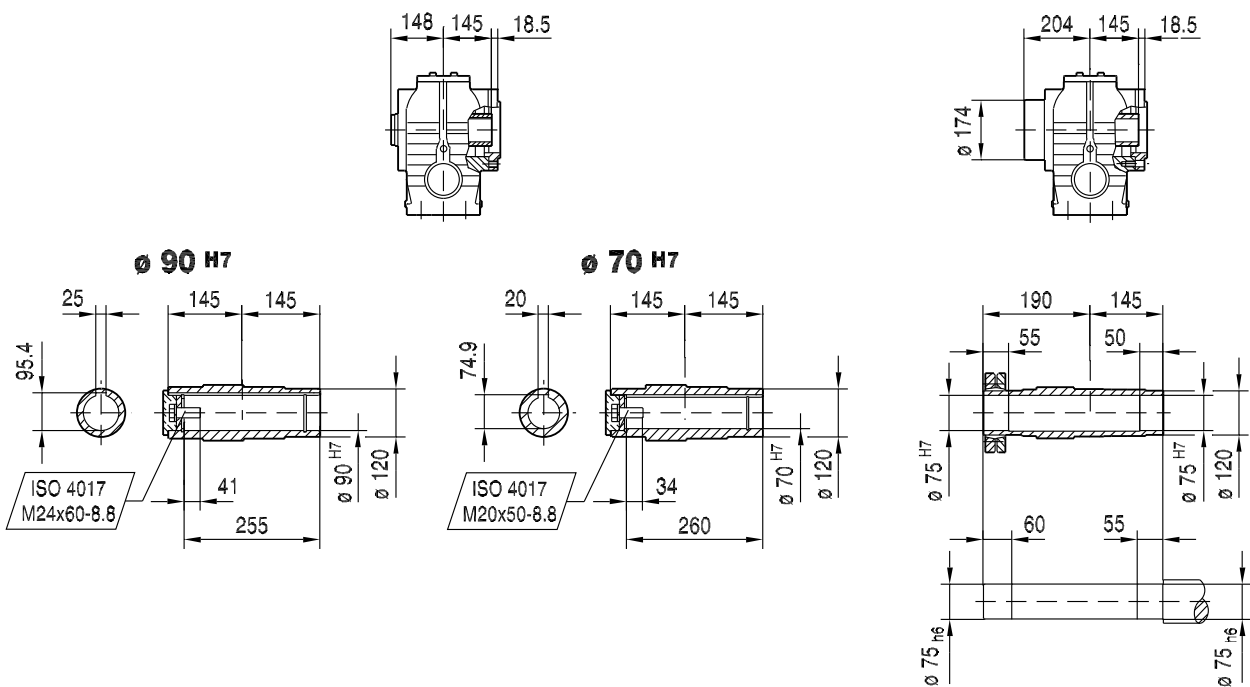
SAZ97..



11

SAZ97..

SHZ97..

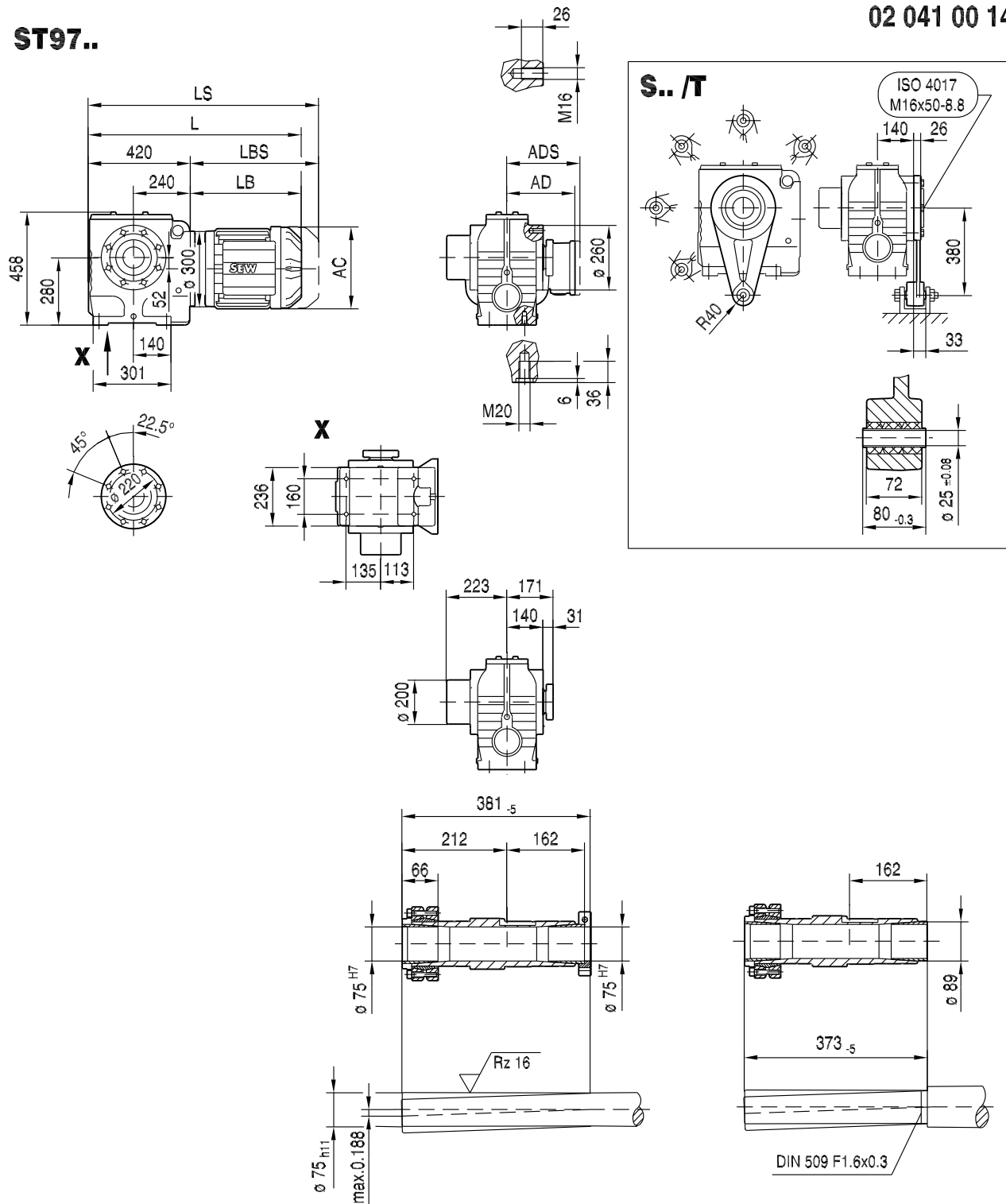


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(→ ■ 155)	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L	DRN160M	DRN160L	DRN180..
AC	179	197	197	221	221	261	261	314	314	357
AD	140	157	157	170	170	228	228	253	253	268
ADS	150	158	158	172	172	228	228	253	253	268
L	712	708	758	789	839	857	883	949	949	972
LS	805	802	852	901	951	995	1020	1138	1138	1161
LB	292	288	338	369	419	437	463	529	529	552
LBS	385	382	432	481	531	575	600	718	718	741

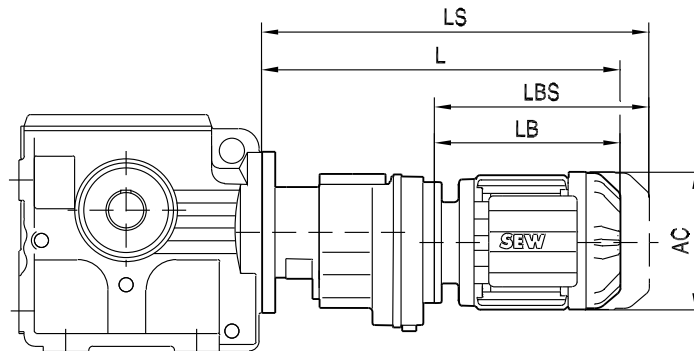
02 041 00 14

ST97..



(→ 155)	DRN90L	DRN100LS	DRN100L	DRN112M	DRN132S	DRN132M	DRN132L	DRN160M	DRN160L	DRN180..
AC	179	197	197	221	221	261	261	314	314	357
AD	140	157	157	170	170	228	228	253	253	268
ADS	150	158	158	172	172	228	228	253	253	268
L	712	708	758	789	839	857	883	949	949	972
LS	805	802	852	901	951	995	1020	1138	1138	1161
LB	292	288	338	369	419	437	463	529	529	552
LBS	385	382	432	481	531	575	600	718	718	741

02 080 00 06



(→ 155)		AC	L	LS	LB	LBS
S..37R17	DR63..	132	324	379	149	204
S..47R17	DR63..	132	324	379	149	204
	DR71S	139	335	403	160	228
S..57R17	DR63..	132	324	379	149	204
	DR71S	139	335	403	160	228
	DR71M	139	360	428	185	253
S..67R37	DR63..	132	356	411	191	246
	DR71S	139	367	434	202	269
	DR71M	139	392	459	227	294
	DRN80M	156	446	527	281	362
S..77R37	DR63..	132	348	403	191	246
	DR71S	139	359	426	202	269
	DR71M	139	384	451	227	294
	DRN80M	156	438	519	281	362
	DRN90S	179	440	533	283	376
S..87R57	DR63..	132	412	467	185	240
	DR71S	139	423	491	196	264
	DR71M	139	448	516	221	289
	DRN80M	156	502	583	275	356
	DRN90S	179	504	597	277	370
	DRN90L	179	536	629	309	402
S..97R57	DRN100LS	197	533	626	305	398
	DR63..	132	407	462	185	240
	DR71S	139	418	486	196	264
	DR71M	139	443	511	221	289
	DRN80M	156	497	578	275	356
	DRN90S	179	499	592	277	370
	DRN90L	179	531	624	309	402
	DRN100LS	197	528	621	305	398
DRN100L	197	578	671	355	448	
DRN112M	221	608	720	386	498	

11.6 Technical data S. SF. SA. SAF 37

3400 - 2800 1/min

i _{tot}	i _{worm}	n _e = 3400 1/min				n _e = 3200 1/min				n _e = 2800 1/min			
		n _a 1/min	M _{amax} Nm	P _e kW	η %	n _a 1/min	M _{amax} Nm	P _e kW	η %	n _a 1/min	M _{amax} Nm	P _e kW	η %
157.43	38/1	22	78	0.31	57	20	80	0.30	57	18	82	0.27	57
144.40		24	76	0.33	58	22	78	0.31	58	19	80	0.28	57
122.94		28	74	0.37	58	26	75	0.35	58	23	78	0.32	58
106.00		32	71	0.41	59	30	72	0.39	59	26	76	0.36	59
98.80		34	70	0.43	59	32	72	0.41	59	28	75	0.38	59
86.36		39	68	0.47	60	37	69	0.45	60	32	72	0.41	60
80.96		42	66	0.49	60	40	68	0.47	60	35	72	0.43	60
71.44		48	55	0.47	58	45	64	0.50	60	39	70	0.47	61
63.33		54	37	0.41	51	51	51	0.47	57	44	67	0.51	61
53.83		63	29	0.39	49	59	32	0.40	50	52	53	0.49	59
55.93	27/2	61	70	0.58	77	57	71	0.56	76	50	72	0.50	76
51.30		66	68	0.61	77	62	70	0.60	77	55	72	0.54	76
43.68		78	66	0.70	77	73	67	0.67	77	64	70	0.61	77
37.66		90	64	0.78	78	85	65	0.74	78	74	68	0.68	78
35.10		97	62	0.81	78	91	64	0.78	78	80	66	0.71	78
30.68		111	61	0.90	78	104	62	0.87	78	91	64	0.78	78
28.76		118	58	0.92	78	111	61	0.91	78	97	64	0.83	78
25.38		134	47	0.86	77	126	53	0.90	78	110	62	0.91	79
22.50		151	31	0.69	71	142	43	0.84	76	124	57	0.94	79
19.13		178	24	0.65	69	167	27	0.67	70	146	44	0.87	77
19.89	24/5	171	42	0.88	86	161	43	0.85	86	141	44	0.76	86
18.24		186	41	0.93	86	175	42	0.90	86	154	44	0.83	86
15.53		219	39	1.0	86	206	40	1.0	86	180	42	0.92	86
13.39		254	37	1.1	86	239	39	1.1	86	209	41	1.0	86
12.48		272	37	1.2 *	86	256	38	1.2 *	86	224	40	1.1	86
10.91		312	35	1.3 *	86	293	36	1.3 *	86	257	39	1.2 *	87
10.23		332	35	1.4 *	87	313	36	1.4 *	87	274	38	1.3 *	87
9.02		377	31	1.4 *	86	355	34	1.5 *	87	310	36	1.3 *	87
8.00		425	20	1.1	82	400	29	1.4 *	86	350	35	1.5 *	87
6.80		500	16	1.0	81	471	18	1.1	82	412	29	1.4 *	86
6.33	19/5	537	24	1.5 *	87	506	27	1.6 *	88	442	32	1.7 *	88
5.38		632	20	1.5 *	87	595	22	1.6 *	87	520	26	1.6 *	88
4.86		700	18	1.5 *	87	658	19	1.5 *	87	576	24	1.6 *	88
3.97		856	14	1.5 *	86	806	15	1.5 *	87	705	19	1.6 *	88

* P_{emax} = 1.1 kW

2200 - 1400 1/min

i _{tot}	i _{worm}	n _e = 2200 1/min				n _e = 1700 1/min				n _e = 1400 1/min				
		n _a 1/min	M _{amax} Nm	P _e kW	η %	n _a 1/min	M _{amax} Nm	P _e kW	η %	n _a 1/min	M _{amax} Nm	P _e kW	η %	
157.43	38/1	14	87	0.23	56	11	91	0.19	54	8.9	92	0.16	53	
144.40		15	86	0.24	56	12	90	0.20	55	9.7	92	0.17	54	
122.94		18	83	0.27	57	14	87	0.22	56	11	91	0.20	55	
106.00		21	81	0.30	58	16	86	0.25	57	13	88	0.22	56	
98.80		22	80	0.32	58	17	85	0.27	57	14	87	0.23	56	
86.36		25	78	0.35	59	20	82	0.29	58	16	86	0.25	57	
80.96		27	77	0.37	60	21	82	0.31	59	17	85	0.27	58	
71.44		31	75	0.40	60	24	80	0.33	60	20	84	0.29	59	
63.33		35	73	0.44	61	27	79	0.37	60	22	82	0.32	60	
53.83		41	69	0.48	62	32	76	0.41	61	26	80	0.36	61	
55.93		27/2	39	77	0.42	75	30	81	0.35	74	25	81	0.29	73
51.30			43	76	0.45	76	33	80	0.37	75	27	81	0.31	74
43.68	50		74	0.51	76	39	78	0.42	76	32	81	0.36	75	
37.66	58		72	0.57	77	45	76	0.47	76	37	79	0.41	76	
35.10	63		71	0.60	77	48	75	0.50	77	40	78	0.43	76	
30.68	72		70	0.67	78	55	73	0.55	77	46	76	0.47	76	
28.76	76		68	0.70	78	59	73	0.58	77	49	75	0.50	77	
25.38	87		67	0.77	79	67	71	0.64	78	55	74	0.55	77	
22.50	98		66	0.85	79	76	70	0.70	79	62	73	0.61	78	
19.13	115		63	0.95	80	89	68	0.80	79	73	71	0.69	79	
19.89	24/5		111	48	0.65	85	85	50	0.53	85	70	52	0.46	84
18.24			121	47	0.70	85	93	49	0.56	85	77	52	0.50	84
15.53		142	45	0.78	86	109	48	0.64	85	90	50	0.56	85	
13.39		164	44	0.88	86	127	47	0.73	86	105	49	0.63	85	
12.48		176	43	0.92	86	136	46	0.76	86	112	48	0.66	86	
10.91		202	42	1.0	87	156	45	0.85	86	128	48	0.75	86	
10.23		215	41	1.1	87	166	45	0.90	87	137	47	0.78	86	
9.02		244	40	1.2 *	87	188	43	0.98	87	155	46	0.86	87	
8.00		275	39	1.3 *	87	213	43	1.1	87	175	45	0.95	87	
6.80		324	37	1.4 *	88	250	41	1.2 *	88	206	43	1.1	87	
6.33		19/5	348	35	1.4 *	88	269	35	1.1	88	221	35	0.93	87
5.38			409	34	1.6 *	88	316	34	1.3 *	88	260	34	1.1	88
4.86	453		32	1.7 *	89	350	33	1.4 *	88	288	33	1.1	88	
3.97	554		26	1.7 *	88	428	32	1.6 *	89	353	32	1.3 *	88	

* P_{emax} = 1.1 kW

1100 - 700 1/min

i_{tot}	i_{worm}	$n_e = 1100$ 1/min				$n_e = 900$ 1/min				$n_e = 700$ 1/min			
		n_a 1/min	M_{amax} Nm	P_e kW	η %	n_a 1/min	M_{amax} Nm	P_e kW	η %	n_a 1/min	M_{amax} Nm	P_e kW	η %
157.43	38/1	7.0	92	0.13	52	5.7	92	0.11	50	4.4	92	0.09	49
144.40		7.6	92	0.14	52	6.2	92	0.12	51	4.8	92	0.09	50
122.94		8.9	92	0.16	54	7.3	92	0.14	52	5.7	92	0.11	51
106.00		10	92	0.18	55	8.5	92	0.15	53	6.6	92	0.12	52
98.80		11	92	0.19	55	9.1	92	0.16	54	7.1	92	0.13	52
86.36		13	90	0.21	56	10	92	0.18	55	8.1	92	0.15	53
80.96		14	89	0.22	57	11	92	0.19	55	8.6	92	0.16	54
71.44		15	87	0.24	57	13	91	0.21	56	9.8	92	0.17	55
63.33		17	86	0.27	58	14	89	0.23	57	11	92	0.19	56
53.83		20	84	0.30	60	17	87	0.26	58	13	91	0.22	57
55.93	27/2	20	87	0.25	72	16	91	0.21	71	13	92	0.17	70
51.30		21	87	0.27	73	18	90	0.23	72	14	92	0.19	71
43.68		25	84	0.30	74	21	87	0.26	73	16	92	0.22	71
37.66		29	82	0.34	75	24	86	0.29	74	19	89	0.24	72
35.10		31	82	0.36	75	26	84	0.31	74	20	88	0.25	73
30.68		36	80	0.40	76	29	82	0.34	75	23	87	0.28	74
28.76		38	79	0.42	76	31	82	0.36	75	24	86	0.30	74
25.38		43	78	0.46	77	35	81	0.40	76	28	84	0.33	75
22.50		49	77	0.51	77	40	79	0.43	76	31	82	0.36	75
19.13		58	75	0.58	78	47	78	0.50	77	37	81	0.41	76
19.89	24/5	55	55	0.38	83	45	58	0.33	83	35	60	0.27	82
18.24		60	54	0.41	84	49	56	0.35	83	38	60	0.29	82
15.53		71	53	0.47	84	58	55	0.40	84	45	58	0.33	83
13.39		82	52	0.53	85	67	54	0.45	84	52	56	0.37	83
12.48		88	51	0.55	85	72	53	0.47	84	56	55	0.39	84
10.91		101	50	0.62	86	82	52	0.53	85	64	54	0.43	84
10.23		108	49	0.64	86	88	51	0.55	85	68	54	0.46	84
9.02		122	48	0.71	86	100	50	0.61	86	78	53	0.51	85
8.00		138	47	0.78	87	113	49	0.67	86	88	52	0.56	85
6.80		162	46	0.90	87	132	48	0.77	87	103	51	0.64	86
6.33	19/5	174	45	0.94	87	142	45	0.77	87	111	45	0.61	86
5.38		204	43	1.1	88	167	43	0.86	87	130	43	0.68	87
4.86		226	42	1.1	88	185	42	0.93	88	144	42	0.73	87
3.97		277	40	1.3 *	88	227	40	1.1	88	176	40	0.84	88

* $P_{emax} = 1.1$ kW

500 - 10 1/min

i _{tot}	i _{worm}	n _e = 500 1/min				n _e = 250 1/min				n _e = 10 1/min				
		n _a 1/min	M _{amax} Nm	P _e kW	η %	n _a 1/min	M _{amax} Nm	P _e kW	η %	n _a 1/min	M _{amax} Nm	P _e kW	η %	
157.43	38/1	3.2	92	0.06	47	1.6	92	0.033	46	0.06	92	< 0.05	26	
144.40		3.5	92	0.07	48	1.7	92	0.036	46	0.07	92	< 0.05	27	
122.94		4.1	92	0.08	49	2.0	92	0.042	46	0.08	92	< 0.05	29	
106.00		4.7	92	0.09	50	2.4	92	0.049	47	0.09	92	< 0.05	30	
98.80		5.1	92	0.10	50	2.5	92	0.05	47	0.10	92	< 0.05	31	
86.36		5.8	92	0.11	51	2.9	92	0.06	47	0.12	92	< 0.05	32	
80.96		6.2	92	0.12	51	3.1	92	0.06	47	0.12	92	< 0.05	33	
71.44		7.0	92	0.13	52	3.5	92	0.07	48	0.14	92	< 0.05	35	
63.33		7.9	92	0.14	53	3.9	92	0.08	49	0.16	92	< 0.05	37	
53.83		9.3	92	0.16	55	4.6	92	0.09	50	0.19	92	< 0.05	39	
55.93		27/2	8.9	92	0.13	69	4.5	92	0.06	67	0.18	92	< 0.05	48
51.30			9.7	92	0.14	69	4.9	92	0.07	67	0.19	92	< 0.05	49
43.68			11	92	0.16	70	5.7	92	0.08	67	0.23	92	< 0.05	51
37.66			13	92	0.18	71	6.6	92	0.10	67	0.27	92	< 0.05	53
35.10			14	92	0.19	71	7.1	92	0.10	68	0.28	92	< 0.05	54
30.68	16		92	0.22	72	8.1	92	0.11	68	0.33	92	< 0.05	56	
28.76	17		91	0.23	72	8.7	92	0.12	69	0.35	92	< 0.05	57	
25.38	20		89	0.25	73	9.9	92	0.14	69	0.39	92	< 0.05	59	
22.50	22		87	0.28	74	11	92	0.15	70	0.44	92	< 0.05	61	
19.13	26		85	0.31	75	13	92	0.18	71	0.52	92	< 0.05	62	
19.89	24/5		25	68	0.22	81	13	72	0.12	79	0.50	72	< 0.05	65
18.24			27	66	0.23	81	14	72	0.13	79	0.55	72	< 0.05	66
15.53			32	63	0.26	82	16	72	0.15	79	0.64	72	< 0.05	68
13.39			37	61	0.29	82	19	72	0.18	80	0.75	72	< 0.05	71
12.48			40	59	0.30	82	20	72	0.19	80	0.80	72	< 0.05	72
10.91		46	58	0.34	83	23	71	0.21	81	0.92	71	< 0.05	73	
10.23		49	57	0.35	83	24	70	0.22	81	0.98	70	< 0.05	73	
9.02		55	56	0.39	84	28	66	0.24	81	1.1	66	< 0.05	74	
8.00		63	55	0.43	84	31	63	0.25	82	1.2	63	< 0.05	74	
6.80		74	54	0.49	85	37	61	0.29	82	1.5	61	< 0.05	75	
6.33		19/5	79	45	0.44	85	39	45	0.23	83	1.6	45	<0.05	80
5.38			93	43	0.49	86	46	43	0.25	83	1.9	43	<0.05	80
4.86			103	42	0.53	86	51	42	0.27	84	2.1	42	<0.05	80
3.97			126	40	0.61	87	63	40	0.31	84	2.5	40	<0.05	80

11.7 Technical data S. SF. SA. SAF 47

3400 - 2800 1/min

i _{tot}	i _{worm}	n _e = 3400 1/min				n _e = 3200 1/min				n _e = 2800 1/min			
		n _a 1/min	M _{amax} Nm	P _e kW	η %	n _a 1/min	M _{amax} Nm	P _e kW	η %	n _a 1/min	M _{amax} Nm	P _e kW	η %
201.00	42/1	17	150	0.44	60	16	150	0.42	60	14	150	0.37	59
184.80		18	150	0.48	60	17	150	0.45	60	15	150	0.40	59
158.12		22	150	0.55	61	20	150	0.52	61	18	150	0.46	60
137.05		25	150	0.63	62	23	150	0.59	62	20	150	0.52	61
128.10		27	150	0.67	63	25	150	0.63	62	22	150	0.56	62
110.73		31	138	0.70	63	29	148	0.71	63	25	150	0.63	63
94.08		36	113	0.69	62	34	123	0.70	63	30	146	0.72	63
84.00		40	95	0.66	61	38	107	0.69	62	33	130	0.71	63
71.75		47	58	0.55	53	45	82	0.64	60	39	107	0.70	63
67.20		51	53	0.54	52	48	68	0.60	57	42	99	0.69	62
56.61	60	40	0.51	49	57	46	0.53	51	49	75	0.65	60	
69.39	29/2	49	140	0.91	79	46	140	0.86	78	40	140	0.76	78
63.80		53	140	0.99	79	50	140	0.93	79	44	140	0.82	78
54.59		62	140	1.1	80	59	140	1.1	79	51	140	0.95	79
47.32		72	139	1.3	80	68	140	1.2	80	59	140	1.1	80
44.22		77	129	1.3	80	72	139	1.3	80	63	140	1.2	80
38.23		89	112	1.3	80	84	120	1.3	80	73	139	1.3	80
32.48		105	91	1.3	79	99	100	1.3	80	86	117	1.3	80
29.00		117	76	1.2	78	110	86	1.3	79	97	104	1.3	80
24.77		137	47	0.94	72	129	66	1.2	77	113	87	1.3	80
23.20		147	42	0.90	71	138	54	1.0	75	121	79	1.3	79
19.54	174	32	0.84	69	164	37	0.89	71	143	59	1.1	77	
20.33	27/5	167	100	2.0 *	88	157	100	1.9 *	88	138	100	1.6 *	88
17.62		193	97	2.2 *	88	182	100	2.2 *	88	159	100	1.9 *	88
16.47		206	90	2.2 *	88	194	97	2.2 *	88	170	100	2.0 *	88
14.24		239	78	2.2 *	88	225	83	2.2 *	88	197	97	2.3 *	88
12.10		281	63	2.1 *	88	264	69	2.2 *	88	231	82	2.2 *	88
10.80		315	53	2.0 *	87	296	60	2.1 *	88	259	72	2.2 *	88
9.23		368	32	1.5	83	347	45	1.9 *	86	303	60	2.2 *	88
8.64		394	29	1.5	82	370	37	1.7 *	85	324	55	2.1 *	88
7.28		467	22	1.3	81	440	25	1.4	82	385	41	1.9 *	86
6.83		20/5	498	34	2.0 *	87	469	37	2.1 *	88	410	45	2.2 *
6.4	531		31	2.0 *	87	500	34	2.0 *	87	438	42	2.2 *	88
5.39	631		24	1.8 *	86	594	27	1.9 *	87	519	34	2.1 *	88
4.76	714		20	1.8 *	85	672	23	1.9 *	86	588	29	2.0 *	87
4	850		16	1.7 *	85	800	18	1.8 *	85	700	23	1.9 *	87

* P_{emax} = 1.5 kW

2200 - 1400 1/min

i _{tot}	i _{worm}	n _e = 2200 1/min				n _e = 1700 1/min				n _e = 1400 1/min				
		n _a 1/min	M _{amax} Nm	P _e kW	η %	n _a 1/min	M _{amax} Nm	P _e kW	η %	n _a 1/min	M _{amax} Nm	P _e kW	η %	
201.00	42/1	11	167	0.33	58	8.5	170	0.27	56	7.0	170	0.23	55	
184.80		12	167	0.36	58	9.2	168	0.29	57	7.6	170	0.24	56	
158.12		14	167	0.41	60	11	168	0.33	58	8.9	170	0.28	57	
137.05		16	165	0.46	60	12	167	0.37	59	10	168	0.31	58	
128.10		17	165	0.49	61	13	167	0.39	59	11	168	0.33	58	
110.73		20	165	0.55	62	15	167	0.44	61	13	168	0.38	59	
94.08		23	165	0.64	63	18	167	0.51	62	15	168	0.43	60	
84.00		26	162	0.70	64	20	167	0.57	62	17	167	0.48	61	
71.75		31	145	0.73	64	24	167	0.65	63	20	167	0.55	62	
67.20		33	137	0.73	64	25	164	0.68	64	21	167	0.58	63	
56.61		39	115	0.73	64	30	152	0.74	65	25	165	0.67	64	
69.39		29/2	32	155	0.67	77	24	155	0.52	76	20	155	0.44	75
63.80			34	155	0.72	77	27	155	0.57	76	22	155	0.47	75
54.59	40		155	0.84	78	31	155	0.66	77	26	155	0.55	76	
47.32	46		155	0.96	79	36	155	0.75	78	30	155	0.63	77	
44.22	50		155	1.0	79	38	155	0.80	78	32	155	0.67	77	
38.23	58		154	1.2	80	44	155	0.92	79	37	155	0.76	78	
32.48	68		146	1.3	80	52	155	1.1	80	43	155	0.89	79	
29.00	76		137	1.3	81	59	154	1.2	80	48	155	0.99	79	
24.77	89		117	1.3	81	69	145	1.3	81	57	155	1.1	80	
23.20	95		111	1.4	81	73	142	1.3	81	60	152	1.2	80	
19.54	113		92	1.3	81	87	123	1.4	81	72	144	1.3	81	
20.33	27/5		108	109	1.4	87	84	110	1.1	87	69	110	0.92	86
17.62			125	108	1.6 *	88	96	109	1.3	87	79	110	1.1	86
16.47		134	108	1.7 *	88	103	109	1.4	87	85	110	1.1	87	
14.24		154	108	2.0 *	88	119	109	1.6 *	88	98	110	1.3	87	
12.10		182	105	2.3 *	89	140	109	1.8 *	88	116	109	1.5	88	
10.80		204	95	2.3 *	89	157	108	2.0 *	88	130	109	1.7 *	88	
9.23		238	82	2.3 *	89	184	105	2.3 *	89	152	109	2.0 *	88	
8.64		255	77	2.3 *	89	197	100	2.3 *	89	162	109	2.1 *	88	
7.28		302	64	2.3 *	89	234	86	2.4 *	89	192	103	2.3 *	89	
6.83		20/5	322	62	2.4 *	89	249	78	2.3 *	89	205	78	1.9 *	89
6.4			344	58	2.3 *	89	266	76	2.4 *	89	219	76	2.0 *	89
5.39			408	48	2.3 *	89	315	65	2.4 *	89	260	74	2.3 *	89
4.76			462	42	2.3 *	89	357	58	2.4 *	89	294	72	2.5 *	90
4	550		34	2.2 *	88	425	48	2.4 *	89	350	61	2.5 *	90	

* P_{emax} = 1.5 kW

1100 - 700 1/min

i_{tot}	i_{worm}	$n_e = 1100$ 1/min				$n_e = 900$ 1/min				$n_e = 700$ 1/min				
		n_a 1/min	M_{amax} Nm	P_e kW	η %	n_a 1/min	M_{amax} Nm	P_e kW	η %	n_a 1/min	M_{amax} Nm	P_e kW	η %	
201.00	42/1	5.5	176	0.19	53	4.5	180	0.16	52	3.5	185	0.13	51	
184.80		6.0	174	0.20	54	4.9	178	0.17	53	3.8	183	0.14	51	
158.12		7.0	172	0.23	55	5.7	176	0.20	54	4.4	180	0.16	52	
137.05		8.0	171	0.26	56	6.6	172	0.22	55	5.1	178	0.18	53	
128.10		8.6	171	0.27	57	7.0	172	0.23	55	5.5	176	0.19	54	
110.73		9.9	169	0.30	58	8.1	171	0.26	56	6.3	174	0.21	55	
94.08		12	169	0.35	59	9.6	171	0.30	57	7.4	172	0.24	56	
84.00		13	169	0.39	60	11	169	0.32	58	8.3	171	0.26	57	
71.75		15	169	0.45	61	13	169	0.37	60	9.8	171	0.30	58	
67.20		16	169	0.47	61	13	169	0.40	60	10	171	0.32	58	
56.61		19	169	0.55	63	16	169	0.46	61	12	171	0.37	60	
69.39		29/2	16	173	0.39	74	13	176	0.33	73	10	180	0.27	71
63.80			17	173	0.42	74	14	175	0.35	73	11	180	0.29	72
54.59			20	171	0.48	75	16	173	0.40	74	13	176	0.33	73
47.32			23	171	0.55	76	19	173	0.46	75	15	175	0.37	73
44.22			25	171	0.58	76	20	171	0.49	75	16	175	0.39	74
38.23	29		169	0.66	77	24	171	0.56	76	18	173	0.44	75	
32.48	34		169	0.77	78	28	171	0.65	77	22	171	0.51	75	
29.00	38		170	0.86	78	31	171	0.72	77	24	171	0.57	76	
24.77	44		169	0.99	79	36	170	0.83	78	28	171	0.66	77	
23.20	47		164	1.0	79	39	170	0.88	79	30	171	0.70	77	
19.54	56		154	1.1	80	46	165	1.0	79	36	170	0.81	78	
20.33	27/5		54	112	0.75	85	44	114	0.63	84	34	116	0.50	83
17.62			62	112	0.86	86	51	113	0.71	85	40	115	0.57	84
16.47			67	112	0.91	86	55	113	0.76	85	43	114	0.60	84
14.24			77	111	1.0	86	63	112	0.86	86	49	113	0.69	85
12.10			91	111	1.2	87	74	111	1.0	86	58	113	0.80	85
10.80		102	111	1.4	87	83	111	1.1	87	65	112	0.88	86	
9.23		119	110	1.6 *	88	98	111	1.3	87	76	112	1.0	86	
8.64		127	109	1.7 *	88	104	111	1.4	87	81	112	1.1	87	
7.28		151	109	2.0 *	88	124	111	1.6 *	88	96	111	1.3	87	
6.83		20/5	161	95	1.8 *	89	132	95	1.5	88	102	95	1.2	88
6.4			172	93	1.9 *	89	141	93	1.6 *	88	109	93	1.2	88
5.39			204	89	2.1 *	89	167	89	1.8 *	89	130	89	1.4	88
4.76			231	87	2.4 *	89	189	87	1.9 *	89	147	87	1.5	89
4			275	78	2.5 *	90	225	84	2.2 *	89	175	84	1.7 *	89

* $P_{emax} = 1.5$ kW

500 - 10 1/min

i _{tot}	i _{worm}	n _e = 500 1/min				n _e = 250 1/min				n _e = 10 1/min				
		n _a 1/min	M _{amax} Nm	P _e kW	η %	n _a 1/min	M _{amax} Nm	P _e kW	η %	n _a 1/min	M _{amax} Nm	P _e kW	η %	
201.00	42/1	2.5	185	0.10	49	1.2	185	0.05	48	0.05	185	< 0.05	32	
184.80		2.7	185	0.11	49	1.4	185	0.05	48	0.05	185	< 0.05	32	
158.12		3.2	185	0.12	50	1.6	185	0.06	48	0.06	185	< 0.05	35	
137.05		3.6	185	0.14	51	1.8	185	0.07	48	0.07	185	< 0.05	37	
128.10		3.9	183	0.15	51	2.0	185	0.08	48	0.08	185	< 0.05	38	
110.73		4.5	181	0.16	52	2.3	185	0.09	49	0.09	185	< 0.05	40	
94.08		5.3	178	0.19	54	2.7	185	0.10	49	0.11	185	< 0.05	42	
84.00		6.0	176	0.20	54	3.0	185	0.12	50	0.12	185	< 0.05	43	
71.75		7.0	174	0.23	56	3.5	185	0.13	51	0.14	185	< 0.05	44	
67.20		7.4	172	0.24	56	3.7	185	0.14	51	0.15	185	< 0.05	44	
56.61		8.8	172	0.28	57	4.4	181	0.16	53	0.18	181	< 0.05	45	
69.39		29/2	7.2	185	0.20	70	3.6	185	0.10	68	0.14	185	< 0.05	56
63.80			7.8	185	0.22	70	3.9	185	0.11	68	0.16	185	< 0.05	57
54.59			9.2	185	0.25	71	4.6	185	0.13	68	0.18	185	< 0.05	60
47.32			11	181	0.28	72	5.3	185	0.15	68	0.21	185	< 0.05	61
44.22			11	180	0.30	72	5.7	185	0.16	69	0.23	185	< 0.05	62
38.23	13		178	0.33	73	6.5	185	0.18	69	0.26	185	< 0.05	63	
32.48	15		174	0.38	74	7.7	185	0.21	70	0.31	185	< 0.05	64	
29.00	17		174	0.42	74	8.6	185	0.24	71	0.34	185	< 0.05	65	
24.77	20		172	0.48	75	10	183	0.27	71	0.40	183	< 0.05	66	
23.20	22		172	0.51	76	11	181	0.28	72	0.43	181	< 0.05	66	
19.54	26		172	0.60	77	13	178	0.33	73	0.51	178	< 0.05	67	
20.33	27/5		25	124	0.39	82	12	157	0.25	80	0.49	157	< 0.05	75
17.62			28	120	0.43	83	14	149	0.28	80	0.57	149	< 0.05	76
16.47			30	118	0.45	83	15	145	0.29	81	0.61	145	< 0.05	76
14.24			35	116	0.51	84	18	138	0.31	81	0.70	138	< 0.05	77
12.10			41	115	0.59	84	21	131	0.35	82	0.83	131	< 0.05	77
10.80		46	114	0.65	85	23	127	0.37	82	0.93	127	< 0.05	77	
9.23		54	113	0.75	85	27	121	0.41	83	1.1	121	< 0.05	78	
8.64		58	113	0.80	86	29	120	0.44	83	1.2	120	< 0.05	78	
7.28		69	112	0.93	86	34	117	0.50	84	1.4	117	< 0.05	78	
6.83		20/5	73	95	0.84	87	7	95	0.43	84	1.5	95	<0.05	81
6.4			78	93	0.88	87	39	93	0.45	85	1.6	93	<0.05	81
5.39			93	89	0.99	87	46	89	0.51	85	1.9	89	<0.05	81
4.76			105	87	1.1	88	53	87	0.56	86	2.1	87	<0.05	81
4			125	84	1.2	88	63	84	0.64	86	2.5	84	<0.05	81

11.8 Technical data S. SF. SA. SAF 57

3400 - 2800 rpm

i _{tot}	i _{worm}	n _e = 3400 rpm				n _e = 3200 rpm				n _e = 2800 rpm			
		n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %
201.00	42/1	17	270	0.75	64	16	270	0.71	63	14	270	0.63	62
184.80		18	270	0.81	64	17	270	0.77	64	15	270	0.68	63
158.12		22	270	0.93	65	20	270	0.88	65	18	270	0.78	64
137.05		25	255	1.0	66	23	270	1.0	66	20	270	0.89	65
128.10		27	245	1.0	66	25	255	1.0	66	22	270	0.94	65
110.73		31	215	1.0	67	29	230	1.0	67	25	255	1.0	66
94.08		36	184	1.0	67	34	196	1.0	67	30	225	1.1	67
84.00		40	165	1.0	67	38	175	1.0	67	33	200	1.0	67
71.75		47	139	1.0	67	45	149	1.0	67	39	174	1.1	67
67.20		51	128	1.0	66	48	139	1.0	67	42	164	1.1	67
56.61	60	103	1.0	65	57	114	1.0	66	49	138	1.1	67	
69.39	29/2	49	220	1.4	81	46	220	1.3	80	40	220	1.2	80
63.80		53	220	1.5	81	50	220	1.4	81	44	220	1.3	80
54.59		62	220	1.8	81	59	220	1.7	81	51	220	1.5	81
47.32		72	210	1.9	82	68	220	1.9	82	59	220	1.7	81
44.22		77	197	1.9	82	72	205	1.9	82	63	220	1.8	81
38.23		89	174	2.0	82	84	184	2.0	82	73	205	1.9	82
32.48		105	148	2.0	82	99	157	2.0	82	86	180	2.0	82
29.00		117	131	2.0	82	110	141	2.0	82	97	162	2.0	82
24.77		137	111	1.9	82	129	120	2.0	82	113	139	2.0	82
23.20		147	102	1.9	82	138	111	2.0	82	121	131	2.0	82
19.54	174	81	1.8	81	164	90	1.9	82	143	109	2.0	82	
20.33	27/5	167	160	3.2 *	89	157	160	3.0	89	138	160	2.6	88
17.62		193	140	3.2 *	89	182	149	3.2 *	89	159	160	3.0	89
16.47		206	132	3.2 *	89	194	140	3.2 *	89	170	158	3.2 *	89
14.24		239	116	3.2 *	89	225	123	3.2 *	89	197	139	3.2 *	89
12.10		281	99	3.3 *	89	264	105	3.3 *	89	231	121	3.3 *	89
10.80		315	88	3.3 *	89	296	94	3.3 *	89	259	108	3.3 *	89
9.23		368	73	3.2 *	89	347	79	3.2 *	89	303	93	3.3 *	89
8.64		394	68	3.2 *	89	370	74	3.2 *	89	324	87	3.3 *	89
7.28		467	54	3.0	88	440	60	3.1 *	89	385	72	3.2 *	89
6.8		20/5	498	54	3.2 *	89	469	58	3.2 *	89	410	69	3.3 *
6.4	531		50	3.1 *	89	500	54	3.2 *	89	438	64	3.3 *	89
5.4	631		41	3.1 *	89	594	44	3.1 *	89	519	53	3.2 *	89
4.8	714		35	3.0	88	672	38	3.0	89	588	46	3.2 *	89
4	850		28	2.8	88	800	31	2.9	88	700	38	3.1 *	89

* P_{emax} = 3.0 kW

2200 - 1400 rpm

i _{tot}	i _{worm}	n _e = 2200 rpm				n _e = 1700 rpm				n _e = 1400 rpm			
		n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %
201.00	42/1	11	295	0.55	61	8.5	295	0.44	59	7.0	295	0.37	58
184.80		12	295	0.60	62	9.2	295	0.48	60	7.6	295	0.40	58
158.12		14	295	0.69	63	11	295	0.55	61	8.9	295	0.46	60
137.05		16	295	0.78	64	12	295	0.62	62	10	295	0.52	61
128.10		17	295	0.83	64	13	295	0.66	62	11	295	0.55	61
110.73		20	290	0.93	65	15	295	0.75	63	13	295	0.63	62
94.08		23	275	1.0	66	18	300	0.88	65	15	295	0.73	63
84.00		26	250	1.0	67	20	285	0.93	65	17	295	0.80	64
71.75		31	220	1.1	67	24	275	1.0	66	20	290	0.91	65
67.20		33	210	1.1	67	25	260	1.0	67	21	285	0.95	65
56.61	39	179	1.1	68	30	225	1.1	67	25	265	1.0	67	
69.39	29/2	32	245	1.0	79	24	245	0.81	77	20	245	0.68	76
63.80		34	245	1.1	79	27	245	0.88	78	22	245	0.73	77
54.59		40	245	1.3	80	31	245	1.0	79	26	245	0.85	78
47.32		46	245	1.5	81	36	245	1.2	79	30	245	0.97	79
44.22		50	245	1.6	81	38	245	1.2	80	32	245	1.0	79
38.23		58	245	1.8	81	44	245	1.4	80	37	245	1.2	80
32.48		68	225	1.9	82	52	245	1.7	81	43	245	1.4	80
29.00		76	200	1.9	82	59	245	1.8	81	48	245	1.5	81
24.77		89	177	2.0	82	69	220	1.9	82	57	245	1.8	81
23.20		95	167	2.0	83	73	210	2.0	82	60	245	1.9	82
19.54	27/5	113	143	2.0	83	87	183	2.0	83	72	215	2.0	82
20.33		108	168	2.2	88	84	168	1.7	87	69	168	1.4	87
17.62		125	168	2.5	88	96	168	1.9	88	79	168	1.6	87
16.47		134	169	2.7	88	103	168	2.1	88	85	168	1.7	87
14.24		154	169	3.1 *	89	119	169	2.4	88	98	169	2.0	88
12.10		182	150	3.2 *	89	140	169	2.8	89	116	169	2.3	88
10.80		204	136	3.2 *	89	157	169	3.1 *	89	130	169	2.6	88
9.23		238	119	3.3 *	89	184	149	3.2 *	89	152	169	3.0	89
8.64		255	112	3.3 *	89	197	141	3.3 *	89	162	166	3.2 *	89
7.28		302	96	3.4 *	90	234	122	3.3 *	90	192	146	3.3 *	89
6.8	20/5	322	91	3.4 *	90	249	100	2.9	90	205	100	2.4	89
6.4		344	85	3.4 *	90	266	98	3.0	90	219	98	2.5	89
5.4		408	72	3.4 *	90	315	95	3.5 *	90	260	95	2.9	90
4.8		462	63	3.4 *	90	357	84	3.5 *	90	294	93	3.2 *	90
4		550	53	3.4 *	90	425	71	3.5 *	90	350	88	3.6 *	90

* P_{emax} = 3.0 kW

1100 - 700 rpm

i_{tot}	i_{worm}	$n_e = 1100 \text{ rpm}$				$n_e = 900 \text{ rpm}$				$n_e = 700 \text{ rpm}$			
		n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %
201.00	42/1	5.5	295	0.30	56	4.5	300	0.26	55	3.5	310	0.21	53
184.80		6.0	295	0.32	57	4.9	300	0.28	55	3.8	305	0.23	54
158.12		7.0	295	0.37	58	5.7	295	0.31	56	4.4	300	0.25	55
137.05		8.0	295	0.42	59	6.6	295	0.35	57	5.1	300	0.29	56
128.10		8.6	295	0.45	59	7.0	295	0.37	58	5.5	295	0.30	56
110.73		9.9	295	0.51	61	8.1	295	0.43	59	6.3	295	0.34	57
94.08		12	295	0.59	62	9.6	295	0.49	60	7.4	295	0.39	58
84.00		13	295	0.65	63	11	295	0.54	61	8.3	295	0.43	59
71.75		15	295	0.74	64	13	295	0.62	62	9.8	295	0.50	61
67.20		16	300	0.80	64	13	295	0.66	63	10	295	0.53	61
56.61	19	290	0.91	65	16	300	0.78	64	12	295	0.61	62	
69.39	29/2	16	270	0.60	75	13	270	0.49	74	10	270	0.39	73
63.80		17	270	0.64	76	14	270	0.53	75	11	270	0.42	73
54.59		20	270	0.74	77	16	270	0.62	75	13	270	0.49	74
47.32		23	270	0.85	77	19	270	0.70	76	15	270	0.56	75
44.22		25	270	0.91	78	20	270	0.75	77	16	270	0.59	75
38.23		29	270	1.0	79	24	270	0.86	77	18	270	0.68	76
32.48		34	270	1.2	79	28	270	1.0	78	22	270	0.79	77
29.00		38	270	1.3	80	31	270	1.1	79	24	270	0.88	78
24.77		44	270	1.6	81	36	270	1.3	80	28	270	1.0	78
23.20		47	270	1.7	81	39	270	1.4	80	30	270	1.1	79
19.54	56	250	1.8	81	46	270	1.6	81	36	270	1.3	80	
20.33	27/5	54	168	1.1	86	44	170	0.93	85	34	172	0.74	84
17.62		62	169	1.3	86	51	169	1.1	86	40	170	0.83	85
16.47		67	168	1.4	87	55	168	1.1	86	43	170	0.89	85
14.24		77	168	1.6	87	63	168	1.3	86	49	170	1.0	86
12.10		91	169	1.8	88	74	169	1.5	87	58	169	1.2	86
10.80		102	169	2.1	88	83	169	1.7	87	65	169	1.3	87
9.23		119	170	2.4	88	98	168	2.0	88	76	168	1.5	87
8.64		127	170	2.6	88	104	169	2.1	88	81	168	1.6	87
7.28		151	170	3.0	89	124	170	2.5	88	96	170	1.9	88
6.8		20/5	161	120	2.3	89	132	120	1.9	89	102	120	1.5
6.4	172		117	2.4	89	141	117	1.9	89	109	117	1.5	88
5.4	204		111	2.6	90	167	111	2.2	89	130	111	1.7	89
4.8	231		108	2.9	90	189	108	2.4	90	147	108	1.9	89
4	275		103	3.3 *	90	225	103	2.7	90	175	103	2.1	89

* $P_{emax} = 3.0 \text{ kW}$

500 - 10 rpm

i_{tot}	i_{worm}	$n_e = 500 \text{ rpm}$				$n_e = 250 \text{ rpm}$				$n_e = 10 \text{ rpm}$			
		n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %
201.00	42/1	2.5	330	0.17	51	1.2	330	0.09	49	0.05	330	< 0.05	42
184.80		2.7	330	0.18	51	1.4	330	0.10	49	0.05	330	< 0.05	43
158.12		3.2	315	0.20	52	1.6	330	0.11	49	0.06	330	< 0.05	44
137.05		3.6	310	0.22	53	1.8	330	0.13	50	0.07	330	< 0.05	45
128.10		3.9	305	0.23	54	2.0	330	0.14	50	0.08	330	< 0.05	46
110.73		4.5	300	0.26	55	2.3	330	0.15	51	0.09	330	< 0.05	46
94.08		5.3	300	0.30	56	2.7	330	0.18	51	0.11	330	< 0.05	47
84.00		6.0	295	0.32	57	3.0	325	0.19	52	0.12	325	< 0.05	47
71.75		7.0	295	0.37	58	3.5	310	0.21	53	0.14	310	< 0.05	48
67.20		7.4	295	0.39	58	3.7	310	0.23	54	0.15	310	< 0.05	48
56.61	8.8	295	0.46	60	4.4	300	0.25	55	0.18	300	< 0.05	48	
69.39	29/2	7.2	300	0.32	71	3.6	300	0.17	68	0.14	300	< 0.05	63
63.80		7.8	300	0.34	71	3.9	300	0.18	68	0.16	300	< 0.05	64
54.59		9.2	300	0.40	72	4.6	300	0.21	69	0.18	300	< 0.05	65
47.32		11	300	0.45	73	5.3	300	0.24	70	0.21	300	< 0.05	66
44.22		11	300	0.48	74	5.7	300	0.25	70	0.23	300	< 0.05	66
38.23		13	295	0.54	74	6.5	300	0.29	71	0.26	300	< 0.05	67
32.48		15	295	0.63	75	7.7	300	0.34	71	0.31	300	< 0.05	67
29.00		17	295	0.70	76	8.6	300	0.38	72	0.34	300	< 0.05	67
24.77		20	295	0.81	77	10	300	0.43	73	0.40	300	< 0.05	68
23.20		22	295	0.86	77	11	300	0.46	73	0.43	300	< 0.05	68
19.54	26	295	1.0	78	13	295	0.53	74	0.51	295	< 0.05	68	
20.33	27/5	25	181	0.56	83	12	215	0.35	80	0.49	215	< 0.05	77
17.62		28	175	0.62	83	14	210	0.39	81	0.57	210	< 0.05	77
16.47		30	174	0.66	84	15	205	0.40	81	0.61	205	< 0.05	78
14.24		35	172	0.75	84	18	198	0.45	81	0.70	198	< 0.05	78
12.10		41	170	0.87	85	21	188	0.49	82	0.83	188	< 0.05	78
10.80		46	170	0.97	85	23	184	0.54	83	0.93	184	< 0.05	78
9.23		54	170	1.1	86	27	177	0.60	83	1.1	177	< 0.05	79
8.64		58	170	1.2	86	29	175	0.64	83	1.2	175	< 0.05	79
7.28		69	170	1.4	87	34	172	0.73	84	1.4	172	< 0.05	79
6.8		20/5	73	120	1.1	87	37	120	0.54	85	1.5	120	<0.05
6.4	78		117	1.1	87	39	117	0.56	85	1.6	117	<0.05	81
5.4	93		111	1.2	88	46	111	0.63	86	1.9	111	<0.05	81
4.8	105		108	1.3	88	53	108	0.69	86	2.1	108	<0.05	81
4	125		103	1.5	89	63	103	0.78	87	2.5	103	<0.05	81

11.9 Technical data S. SF. SA. SAF 67

3400 - 2800 rpm

i_{tot}	i_{worm}	$n_e = 3400 \text{ rpm}$				$n_e = 3200 \text{ rpm}$				$n_e = 2800 \text{ rpm}$			
		n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %
217.41	42/1	16	465	1.2	66	15	465	1.1	66	13	465	0.96	65
190.11		18	465	1.3	67	17	465	1.2	67	15	465	1.1	66
180.60		19	465	1.4	67	18	465	1.3	67	16	465	1.1	66
158.45		21	465	1.5	68	20	465	1.5	68	18	465	1.3	67
134.40		25	465	1.8	69	24	465	1.7	68	21	465	1.5	68
121.33		28	455	1.9	69	26	465	1.9	69	23	465	1.6	68
106.75		32	405	2.0	69	30	430	2.0	69	26	465	1.9	69
100.80		34	380	1.9	69	32	410	2.0	69	28	465	2.0	69
85.83		40	320	1.9	69	37	345	1.9	69	33	400	2.0	70
78.00		44	285	1.9	69	41	310	1.9	69	36	365	2.0	70
67.57		50	235	1.8	67	47	260	1.9	68	41	315	2.0	69
58.80		58	184	1.7	65	54	215	1.8	67	48	270	1.9	69
75.06	29/2	45	435	2.5	82	43	435	2.4	82	37	435	2.1	81
65.63		52	435	2.9	82	49	435	2.7	82	43	435	2.4	82
62.35		55	435	3.0	83	51	435	2.8	82	45	435	2.5	82
54.70		62	435	3.4	83	59	435	3.2	83	51	435	2.8	83
46.40		73	395	3.6	83	69	415	3.6	83	60	435	3.3	83
41.89		81	355	3.6	83	76	380	3.6	83	67	430	3.6	83
36.85		92	310	3.6	83	87	335	3.6	84	76	380	3.6	84
34.80		98	295	3.6	83	92	315	3.6	84	80	365	3.7	84
29.63		115	250	3.6	83	108	270	3.7	83	94	310	3.7	84
26.93		126	220	3.5	83	119	240	3.6	83	104	280	3.6	84
23.33		146	182	3.4	82	137	200	3.5	83	120	245	3.7	84
20.30		167	141	3.1	81	158	164	3.3	82	138	205	3.6	83
24.44	27/5	139	315	5.1	90	131	315	4.8	90	115	315	4.2	89
23.22		146	315	5.4	90	138	315	5.1	90	121	315	4.4	90
20.37		167	315	6.1 *	90	157	315	5.8 *	90	137	315	5.0	90
17.28		197	270	6.2 *	90	185	290	6.2 *	90	162	315	5.9 *	90
15.60		218	245	6.2 *	90	205	260	6.2 *	90	179	295	6.1 *	90
13.73		248	215	6.2 *	90	233	230	6.2 *	90	204	265	6.3 *	90
12.96		262	200	6.1 *	90	247	215	6.1 *	90	216	250	6.3 *	90
11.03		308	169	6.1 *	90	290	183	6.2 *	90	254	215	6.3 *	90
10.03		339	151	6.0 *	90	319	164	6.1 *	90	279	194	6.3 *	90
8.69		391	124	5.7 *	89	368	137	5.9 *	90	322	166	6.2 *	90
7.56		450	95	5.1	88	423	112	5.6 *	89	370	141	6.1 *	90

* $P_{emax} = 5.5 \text{ kW}$

2200 - 1400 rpm

i _{tot}	i _{worm}	n _e = 2200 rpm				n _e = 1700 rpm				n _e = 1400 rpm			
		n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %
217.41	42/1	10	520	0.86	64	7.8	520	0.69	62	6.4	520	0.58	61
190.11		12	520	0.97	65	8.9	520	0.77	63	7.4	520	0.65	62
180.60		12	520	1.0	65	9.4	520	0.81	63	7.8	520	0.68	62
158.45		14	520	1.1	66	11	520	0.91	64	8.8	520	0.76	63
134.40		16	520	1.3	67	13	520	1.1	65	10	520	0.88	64
121.33		18	520	1.5	68	14	520	1.2	66	12	520	0.97	65
106.75		21	520	1.6	68	16	520	1.3	67	13	520	1.1	66
100.80		22	510	1.7	69	17	520	1.4	67	14	520	1.1	66
85.83		26	490	1.9	69	20	520	1.6	68	16	520	1.3	67
78.00		28	465	2.0	70	22	510	1.7	69	18	520	1.4	68
67.57	29/2	33	410	2.0	70	25	495	1.9	69	21	520	1.6	69
58.80		37	360	2.0	70	29	460	2.0	70	24	500	1.8	69
75.06		29	480	1.8	81	23	480	1.4	79	19	480	1.2	79
65.63		34	480	2.1	81	26	480	1.6	80	21	480	1.4	79
62.35		35	480	2.2	81	27	480	1.7	80	22	480	1.4	79
54.70		40	480	2.5	82	31	480	1.9	81	26	480	1.6	80
46.40		47	480	2.9	82	37	480	2.3	82	30	480	1.9	81
41.89		53	480	3.2	83	41	480	2.5	82	33	480	2.1	81
36.85		60	475	3.6	83	46	480	2.8	82	38	480	2.3	82
34.80		63	450	3.6	83	49	480	3.0	83	40	480	2.5	82
29.63	27/5	74	395	3.7	84	57	480	3.5	83	47	480	2.9	83
26.93		82	360	3.7	84	63	455	3.6	83	52	480	3.2	83
23.33		94	320	3.8	84	73	405	3.7	84	60	480	3.6	83
20.30		108	280	3.8	84	84	360	3.8	84	69	425	3.7	84
24.44		90	340	3.6	89	70	340	2.8	88	57	340	2.3	88
23.22		95	340	3.8	89	73	340	2.9	89	60	340	2.4	88
20.37		108	340	4.3	89	83	340	3.3	89	69	340	2.8	88
17.28		127	340	5.0	90	98	340	3.9	89	81	340	3.2	89
15.60		141	340	5.6 *	90	109	340	4.3	89	90	340	3.6	89
13.73		160	330	6.1 *	90	124	340	4.9	90	102	340	4.1	89
12.96	170	315	6.2 *	90	131	340	5.2	90	108	340	4.3	89	
11.03	199	275	6.3 *	90	154	340	6.1 *	90	127	340	5.0	90	
10.03	219	250	6.3 *	91	169	315	6.2 *	90	140	340	5.5	90	
8.69	253	220	6.4 *	91	196	280	6.3 *	91	161	335	6.3 *	90	
7.56	291	192	6.5 *	91	225	250	6.5 *	91	185	295	6.3 *	91	

* P_{emax} = 5.5 kW

1100 - 700 rpm

i_{tot}	i_{worm}	$n_e = 1100 \text{ rpm}$				$n_e = 900 \text{ rpm}$				$n_e = 700 \text{ rpm}$				
		n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	
217.41	42/1	5.1	555	0.50	59	4.1	560	0.42	58	3.2	570	0.34	56	
190.11		5.8	555	0.56	60	4.7	560	0.47	59	3.7	565	0.38	57	
180.60		6.1	555	0.59	61	5.0	555	0.49	59	3.9	565	0.40	57	
158.45		6.9	550	0.65	62	5.7	555	0.55	60	4.4	560	0.44	58	
134.40		8.2	550	0.75	63	6.7	550	0.63	61	5.2	555	0.51	60	
121.33		9.1	550	0.82	63	7.4	550	0.69	62	5.8	555	0.56	60	
106.75		10	550	0.92	64	8.4	550	0.77	63	6.6	555	0.62	61	
100.80		11	550	0.97	65	8.9	550	0.81	63	6.9	555	0.66	62	
85.83		13	550	1.1	66	10	550	0.94	64	8.2	550	0.75	63	
78.00		14	550	1.2	66	12	550	1.0	65	9.0	550	0.82	63	
67.57		16	550	1.4	67	13	550	1.2	66	10	550	0.93	64	
58.80		19	530	1.5	68	15	550	1.3	67	12	550	1.0	65	
75.06		29/2	15	525	1.0	77	12	525	0.86	76	9.3	525	0.68	75
65.63			17	525	1.2	78	14	525	0.98	77	11	525	0.77	76
62.35	18		525	1.2	78	14	525	1.0	77	11	525	0.81	76	
54.70	20		525	1.4	79	16	525	1.2	78	13	525	0.92	77	
46.40	24		525	1.6	80	19	525	1.4	79	15	525	1.1	78	
41.89	26		525	1.8	80	21	525	1.5	79	17	525	1.2	78	
36.85	30		525	2.0	81	24	525	1.7	80	19	525	1.3	79	
34.80	32		525	2.1	81	26	525	1.8	80	20	525	1.4	79	
29.63	37		525	2.5	82	30	525	2.1	81	24	525	1.6	80	
26.93	41		525	2.7	82	33	525	2.3	81	26	525	1.8	80	
23.33	47		525	3.1	83	39	525	2.6	82	30	525	2.0	81	
20.30	54		520	3.5	83	44	525	3.0	82	34	525	2.3	81	
24.44	27/5		45	355	1.9	87	37	360	1.6	87	29	365	1.3	86
23.22			47	355	2.0	87	39	360	1.7	87	30	365	1.3	86
20.37		54	355	2.3	88	44	355	1.9	87	34	365	1.5	86	
17.28		64	355	2.7	88	52	355	2.2	88	41	360	1.8	87	
15.60		71	350	2.9	88	58	355	2.4	88	45	355	1.9	87	
13.73		80	350	3.3	89	66	355	2.8	88	51	355	2.2	88	
12.96		85	350	3.5	89	69	350	2.9	88	54	355	2.3	88	
11.03		100	350	4.1	89	82	350	3.4	89	63	355	2.7	88	
10.03		110	345	4.4	90	90	350	3.7	89	70	355	2.9	88	
8.69		127	345	5.1	90	104	350	4.2	89	81	350	3.3	89	
7.56		146	345	5.8 *	90	119	345	4.8	90	93	350	3.8	89	

* $P_{emax} = 5.5 \text{ kW}$

500 - 10 rpm

i_{tot}	i_{worm}	$n_e = 500 \text{ rpm}$				$n_e = 250 \text{ rpm}$				$n_e = 10 \text{ rpm}$				
		n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	
217.41	42/1	2.3	570	0.25	54	1.1	570	0.13	51	0.05	570	< 0.05	47	
190.11		2.6	570	0.29	55	1.3	570	0.15	51	0.05	570	< 0.05	48	
180.60		2.8	570	0.30	55	1.4	570	0.16	51	0.06	570	< 0.05	48	
158.45		3.2	570	0.34	56	1.6	570	0.18	52	0.06	570	< 0.05	49	
134.40		3.7	565	0.38	57	1.9	570	0.21	53	0.07	570	< 0.05	50	
121.33		4.1	560	0.42	58	2.1	570	0.23	53	0.08	570	< 0.05	50	
106.75		4.7	560	0.47	59	2.3	570	0.26	54	0.09	570	< 0.05	50	
100.80		5.0	560	0.49	59	2.5	570	0.27	55	0.10	570	< 0.05	50	
85.83		5.8	555	0.56	60	2.9	570	0.31	56	0.12	570	< 0.05	51	
78.00		6.4	555	0.61	61	3.2	570	0.34	56	0.13	570	< 0.05	51	
67.57		7.4	555	0.69	62	3.7	565	0.38	57	0.15	565	< 0.05	51	
58.80		8.5	550	0.78	63	4.3	560	0.43	58	0.17	560	< 0.05	51	
75.06		29/2	6.7	570	0.54	73	3.3	570	0.28	70	0.13	570	< 0.05	68
65.63			7.6	570	0.61	74	3.8	570	0.32	71	0.15	570	< 0.05	68
62.35	8.0		570	0.64	74	4.0	570	0.34	71	0.16	570	< 0.05	69	
54.70	9.1		570	0.73	75	4.6	570	0.38	71	0.18	570	< 0.05	69	
46.40	11		570	0.85	76	5.4	570	0.44	72	0.22	570	< 0.05	69	
41.89	12		570	0.93	76	6.0	570	0.49	73	0.24	570	< 0.05	69	
36.85	14		570	1.1	77	6.8	570	0.55	73	0.27	570	< 0.05	69	
34.80	14		570	1.1	77	7.2	570	0.58	74	0.29	570	< 0.05	69	
29.63	17		565	1.3	78	8.4	570	0.68	75	0.34	570	< 0.05	70	
26.93	19		565	1.4	79	9.3	570	0.74	75	0.37	570	< 0.05	70	
23.33	21		565	1.6	79	11	570	0.84	76	0.43	570	< 0.05	70	
20.30	25		565	1.8	80	12	570	0.96	77	0.49	570	< 0.05	70	
24.44	27/5		20	365	0.93	85	10	355	0.46	82	0.41	355	0.019	80
23.22			22	365	0.97	85	11	355	0.49	82	0.43	355	< 0.05	80
20.37		25	380	1.1	85	12	365	0.57	83	0.49	365	< 0.05	80	
17.28		29	365	1.3	86	14	435	0.79	83	0.58	435	< 0.05	81	
15.60		32	365	1.4	86	16	430	0.86	84	0.64	430	< 0.05	81	
13.73		36	365	1.6	87	18	415	0.94	84	0.73	415	< 0.05	81	
12.96		39	360	1.7	87	19	410	0.98	84	0.77	410	< 0.05	81	
11.03		45	355	1.9	87	23	390	1.1	85	0.91	390	< 0.05	81	
10.03		50	355	2.1	88	25	380	1.2	85	1.0	380	< 0.05	81	
8.69		58	355	2.4	88	29	370	1.3	86	1.2	370	0.06	81	
7.56		66	355	2.8	88	33	365	1.5	86	1.3	365	0.06	81	

11.10 Technical data S. SF. SA. SAF 77

3400 - 2800 rpm

i_{tot}	i_{worm}	$n_e = 3400 \text{ rpm}$				$n_e = 3200 \text{ rpm}$				$n_e = 2800 \text{ rpm}$				
		n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	
256.47	40/1	13	1160	2.3	71	12	1160	2.1	71	11	1160	1.9	70	
225.26		15	1130	2.5	72	14	1150	2.4	71	12	1160	2.1	71	
214.00		16	1110	2.6	72	15	1140	2.5	71	13	1160	2.2	71	
189.09		18	1080	2.8	72	17	1100	2.7	72	15	1140	2.5	71	
161.60		21	1040	3.1	73	20	1050	3.0	73	17	1090	2.7	72	
148.15		23	1010	3.3	73	22	1030	3.2	73	19	1070	2.9	73	
130.00		26	970	3.6	74	25	990	3.5	74	22	1030	3.2	73	
123.20		28	950	3.7	74	26	970	3.6	74	23	1010	3.3	73	
107.83		32	900	4.0	74	30	920	3.9	74	26	970	3.6	74	
97.14		35	860	4.2	75	33	880	4.1	74	29	930	3.8	74	
85.22		40	770	4.3	75	38	820	4.3	75	33	880	4.1	75	
75.20		45	675	4.3	74	43	725	4.3	75	37	830	4.3	75	
66.67		51	585	4.2	74	48	635	4.3	75	42	745	4.4	75	
56.92		60	485	4.1	73	56	530	4.2	74	49	635	4.4	75	
75.09		40/3	45	1020	5.6	86	43	1020	5.3	86	37	1020	4.6	86
71.33			48	1020	5.9	87	45	1020	5.5	86	39	1020	4.9	86
63.03	54		1020	6.6	87	51	1020	6.2	87	44	1020	5.5	86	
53.87	63		980	7.4	87	59	1000	7.1	87	52	1020	6.4	87	
49.38	69		950	7.8	87	65	970	7.5	87	57	1010	6.9	87	
43.33	78		910	8.5	88	74	930	8.2	88	65	970	7.5	87	
41.07	83		900	8.9	88	78	910	8.5	88	68	950	7.8	87	
35.94	95		800	9.0	88	89	850	9.0	88	78	910	8.5	88	
32.38	105		725	9.1	88	99	770	9.1	88	86	880	9.1	88	
28.41	120		635	9.1	88	113	680	9.1	88	99	780	9.1	88	
25.07	136		560	9.1	88	128	600	9.1	88	112	695	9.2	88	
22.22	153		485	8.9	88	144	525	9.0	88	126	615	9.2	88	
18.97	179		395	8.5	87	169	440	8.9	88	148	520	9.1	88	
22.89	34/6		149	590	10.0 *	91	140	590	9.5 *	91	122	590	8.3	91
20.99			162	590	10.9 *	92	152	590	10.3 *	92	133	590	9.0	91
18.42			185	590	12.4 *	92	174	590	11.7 *	92	152	590	10.3 *	92
17.45		195	590	13.1 *	92	183	590	12.4 *	92	160	590	10.8 *	92	
15.28		223	530	13.5 *	92	209	560	13.4 *	92	183	590	12.3 *	92	
13.76		247	480	13.5 *	92	233	505	13.4 *	92	203	585	13.6 *	92	
12.07		282	415	13.3 *	92	265	445	13.4 *	92	232	515	13.6 *	92	
10.65		319	365	13.3 *	92	300	390	13.4 *	92	263	455	13.6 *	92	
9.44		360	315	13.0 *	92	339	345	13.3 *	92	297	405	13.7 *	92	
8.06		422	260	12.6 *	91	397	285	12.9 *	92	347	340	13.5 *	92	

* $P_{emax} = 9.2 \text{ kW}$

2200 - 1400 rpm

i _{tot}	i _{worm}	n _e = 2200 rpm				n _e = 1700 rpm				n _e = 1400 rpm				
		n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	
256.47	40/1	8.6	1260	1.6	69	6.6	1270	1.3	67	5.5	1270	1.1	66	
225.26		9.8	1230	1.8	69	7.5	1270	1.5	68	6.2	1270	1.2	67	
214.00		10	1220	1.9	70	7.9	1270	1.6	68	6.5	1270	1.3	67	
189.09		12	1200	2.1	70	9.0	1240	1.7	69	7.4	1270	1.5	68	
161.60		14	1160	2.3	71	11	1220	1.9	70	8.7	1260	1.7	69	
148.15		15	1140	2.5	72	11	1200	2.1	70	9.4	1240	1.8	69	
130.00		17	1100	2.7	72	13	1170	2.3	71	11	1210	1.9	70	
123.20		18	1080	2.8	73	14	1150	2.3	71	11	1200	2.0	70	
107.83		20	1040	3.0	73	16	1110	2.5	72	13	1170	2.2	71	
97.14		23	1010	3.3	74	18	1090	2.8	73	14	1140	2.4	72	
85.22		26	970	3.5	74	20	1050	3.0	73	16	1100	2.6	72	
75.20		29	920	3.8	74	23	1010	3.2	74	19	1070	2.9	73	
66.67		33	880	4.1	75	25	970	3.5	74	21	1040	3.1	73	
56.92		39	830	4.5	75	30	920	3.9	75	25	990	3.4	74	
75.09		40/3	29	1100	4.0	85	23	1100	3.1	84	19	1100	2.6	83
71.33			31	1100	4.2	85	24	1100	3.2	85	20	1100	2.7	84
63.03	35		1100	4.7	86	27	1100	3.7	85	22	1100	3.0	84	
53.87	41		1100	5.5	86	32	1100	4.3	86	26	1100	3.5	85	
49.38	45		1080	5.8	87	34	1100	4.6	86	28	1100	3.8	85	
43.33	51		1050	6.4	87	39	1100	5.2	86	32	1100	4.3	86	
41.07	54		1030	6.6	87	41	1100	5.5	86	34	1100	4.6	86	
35.94	61		980	7.2	87	47	1060	6.1	87	39	1100	5.2	86	
32.38	68		960	7.8	88	53	1040	6.6	87	43	1090	5.7	87	
28.41	77		920	8.5	88	60	990	7.1	87	49	1050	6.2	87	
25.07	88		870	9.1	88	68	960	7.8	88	56	1020	6.8	87	
22.22	99		790	9.3 *	88	77	920	8.4	88	63	980	7.4	87	
18.97	116		680	9.4 *	88	90	860	9.2	88	74	930	8.2	88	
22.89	34/6		96	710	7.9	91	74	705	6.1	90	61	705	5.0	90
20.99			105	710	8.6	91	81	705	6.6	91	67	705	5.5	90
18.42			119	720	9.9 *	91	92	710	7.6	91	76	705	6.2	90
17.45		126	720	10.4 *	91	97	710	8.0	91	80	710	6.6	91	
15.28		144	720	11.9 *	92	111	720	9.2	91	92	710	7.5	91	
13.76		160	725	13.2 *	92	124	720	10.2 *	91	102	710	8.3	91	
12.07		182	650	13.5 *	92	141	725	11.7 *	92	116	720	9.6 *	91	
10.65		207	580	13.6 *	92	160	725	13.2 *	92	131	720	10.8 *	92	
9.44		233	520	13.8 *	92	180	655	13.4 *	92	148	725	12.3 *	92	
8.06		273	445	13.8 *	92	211	575	13.8 *	92	174	680	13.5 *	92	

* P_{emax} = 9.2 kW

1100 - 700 rpm

i_{tot}	i_{worm}	$n_e = 1100 \text{ rpm}$				$n_e = 900 \text{ rpm}$				$n_e = 700 \text{ rpm}$			
		n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %
256.47	40/1	4.3	1270	0.89	64	3.5	1270	0.75	63	2.7	1270	0.60	61
225.26		4.9	1270	1.0	65	4.0	1270	0.84	63	3.1	1270	0.67	62
214.00		5.1	1270	1.0	65	4.2	1270	0.88	64	3.3	1270	0.70	62
189.09		5.8	1270	1.2	66	4.8	1270	0.98	65	3.7	1270	0.78	63
161.60		6.8	1270	1.3	67	5.6	1270	1.1	66	4.3	1270	0.90	64
148.15		7.4	1270	1.5	68	6.1	1270	1.2	66	4.7	1270	0.97	65
130.00		8.5	1260	1.6	69	6.9	1270	1.4	67	5.4	1270	1.1	66
123.20		8.9	1250	1.7	69	7.3	1270	1.4	68	5.7	1270	1.1	66
107.83		10	1220	1.9	70	8.3	1260	1.6	69	6.5	1270	1.3	67
97.14		11	1200	2.0	70	9.3	1250	1.8	69	7.2	1270	1.4	68
85.22		13	1170	2.2	71	11	1220	1.9	70	8.2	1270	1.6	69
75.20		15	1140	2.4	72	12	1190	2.1	71	9.3	1250	1.8	69
66.67		16	1110	2.6	72	13	1160	2.3	71	10	1220	1.9	70
56.92		19	1060	2.9	73	16	1120	2.6	72	12	1190	2.2	71
75.09	40/3	15	1120	2.1	83	12	1130	1.7	82	9.3	1170	1.4	81
71.33		15	1120	2.2	83	13	1130	1.8	82	9.8	1120	1.4	81
63.03		17	1120	2.5	83	14	1120	2.0	82	11	1130	1.6	81
53.87		20	1120	2.9	84	17	1120	2.4	83	13	1120	1.9	82
49.38		22	1120	3.1	84	18	1120	2.6	83	14	1120	2.0	82
43.33		25	1130	3.5	85	21	1120	2.9	84	16	1120	2.3	83
41.07		27	1130	3.7	85	22	1120	3.1	84	17	1120	2.4	83
35.94		31	1150	4.3	85	25	1130	3.5	85	19	1120	2.7	84
32.38		34	1130	4.7	86	28	1130	3.9	85	22	1120	3.0	84
28.41		39	1110	5.2	86	32	1150	4.5	86	25	1130	3.4	85
25.07		44	1080	5.7	87	36	1120	4.9	86	28	1130	3.9	85
22.22		50	1050	6.3	87	41	1100	5.4	86	32	1150	4.4	86
18.97		58	1010	7.0	87	47	1060	6.1	87	37	1120	5.0	86
22.89		34/6	48	695	3.9	89	39	695	3.2	89	31	705	2.6
20.99	52		705	4.3	90	43	695	3.5	89	33	705	2.8	88
18.42	60		700	4.9	90	49	700	4.0	89	38	700	3.1	89
17.45	63		700	5.1	90	52	700	4.2	90	40	700	3.3	89
15.28	72		710	5.9	90	59	700	4.8	90	46	700	3.8	89
13.76	80		710	6.6	91	65	700	5.3	90	51	700	4.2	90
12.07	91		710	7.5	91	75	710	6.1	90	58	700	4.7	90
10.65	103		715	8.5	91	85	710	6.9	91	66	710	5.4	90
9.44	117		720	9.6 *	91	95	715	7.8	91	74	710	6.1	90
8.06	136		725	11.3 *	92	112	720	9.2	91	87	710	7.1	91

* $P_{emax} = 9.2 \text{ kW}$

500 - 10 rpm

i _{tot}	i _{worm}	n _e = 500 rpm				n _e = 250 rpm				n _e = 10 rpm				
		n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	
256.47	40/1	1.9	1270	0.44	59	0.97	1270	0.23	56	0.04	1270	< 0.05	54	
225.26		2.2	1270	0.49	60	1.1	1270	0.26	56	0.04	1270	< 0.05	55	
214.00		2.3	1270	0.52	60	1.2	1270	0.28	56	0.05	1270	< 0.05	55	
189.09		2.6	1270	0.58	61	1.3	1270	0.31	57	0.05	1270	< 0.05	55	
161.60		3.1	1270	0.67	62	1.5	1270	0.36	58	0.06	1270	< 0.05	55	
148.15		3.4	1270	0.72	62	1.7	1270	0.39	58	0.07	1270	< 0.05	55	
130.00		3.8	1270	0.81	63	1.9	1270	0.43	59	0.08	1270	< 0.05	55	
123.20		4.1	1270	0.85	64	2.0	1270	0.46	59	0.08	1270	< 0.05	55	
107.83		4.6	1270	0.95	65	2.3	1270	0.51	60	0.09	1270	< 0.05	56	
97.14		5.1	1270	1.0	65	2.6	1270	0.56	61	0.10	1270	< 0.05	56	
85.22		5.9	1270	1.2	66	2.9	1270	0.63	62	0.12	1270	< 0.05	56	
75.20		6.6	1270	1.3	67	3.3	1270	0.71	62	0.13	1270	< 0.05	56	
66.67		7.5	1270	1.5	68	3.7	1270	0.79	63	0.15	1270	< 0.05	56	
56.92		8.8	1260	1.7	69	4.4	1270	0.91	64	0.18	1270	< 0.05	56	
75.09		40/3	6.7	1160	1.0	79	3.3	1120	0.51	76	0.13	1120	< 0.05	75
71.33	7.0		1110	1.0	79	3.5	1060	0.51	77	0.14	1060	< 0.05	75	
63.03	7.9		1230	1.3	80	4.0	1200	0.65	77	0.16	1200	< 0.05	76	
53.87	9.3		1180	1.4	81	4.6	1240	0.77	78	0.19	1240	< 0.05	76	
49.38	10		1160	1.5	81	5.1	1240	0.84	78	0.20	1240	< 0.05	76	
43.33	12		1120	1.7	82	5.8	1240	0.95	79	0.23	1240	< 0.05	76	
41.07	12		1120	1.7	82	6.1	1240	1.0	79	0.24	1240	< 0.05	76	
35.94	14		1120	2.0	82	7.0	1240	1.1	79	0.28	1240	< 0.05	76	
32.38	15		1120	2.2	83	7.7	1240	1.3	80	0.31	1240	0.05	76	
28.41	18		1120	2.5	83	8.8	1190	1.4	80	0.35	1190	0.06	76	
25.07	20		1120	2.8	84	10	1170	1.5	81	0.40	1170	0.06	76	
22.22	23		1130	3.2	84	11	1130	1.6	81	0.45	1130	0.07	76	
18.97	26		1130	3.7	85	13	1120	1.9	82	0.53	1120	0.08	76	
22.89	34/6		22	690	1.8	87	11	675	0.91	85	0.44	675	< 0.05	83
20.99			24	725	2.1	87	12	740	1.1	85	0.48	740	< 0.05	83
18.42		27	705	2.3	88	14	830	1.4	86	0.54	830	0.06	83	
17.45		29	705	2.4	88	14	810	1.4	86	0.57	810	0.06	83	
15.28		33	705	2.7	88	16	785	1.6	86	0.65	785	0.06	83	
13.76		36	695	3.0	89	18	770	1.7	87	0.73	770	0.07	83	
12.07		41	695	3.4	89	21	750	1.9	87	0.83	750	0.08	83	
10.65		47	695	3.8	89	23	725	2.0	87	0.94	725	0.09	83	
9.44		53	705	4.4	90	26	705	2.2	88	1.1	705	0.09	83	
8.06		62	705	5.1	90	31	705	2.6	88	1.2	705	0.11	83	

11.11 Technical data S. SF. SA. SAF 87

3400 - 2800 rpm

i _{tot}	i _{worm}	n _e = 3400 rpm				n _e = 3200 rpm				n _e = 2800 rpm			
		n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %
288.00	40/1	12	2030	3.4	74	11	2070	3.3	73	9.7	2070	2.9	73
258.18		13	1990	3.7	74	12	2010	3.5	74	11	2070	3.2	73
222.40		15	1910	4.1	75	14	1950	4.0	74	13	2010	3.6	74
202.96		17	1850	4.3	75	16	1890	4.2	75	14	1970	3.8	74
180.00		19	1800	4.7	75	18	1830	4.5	75	16	1910	4.2	75
151.30		22	1690	5.3	75	21	1730	5.1	75	19	1800	4.6	75
139.05		24	1630	5.5	76	23	1680	5.4	76	20	1760	4.9	75
123.48		28	1570	6.0	76	26	1600	5.7	76	23	1690	5.3	76
110.40		31	1430	6.1	76	29	1540	6.2	76	25	1620	5.7	76
99.26		34	1260	6.0	75	32	1380	6.2	76	28	1550	6.0	76
86.15		39	1030	5.8	74	37	1150	6.0	75	33	1390	6.2	76
77.14		44	830	5.3	72	41	970	5.7	74	36	1220	6.1	76
64.00		53	500	4.3	65	50	620	4.7	68	44	960	5.9	75
91.20		38/3	37	1470	6.6	88	35	1470	6.2	87	31	1470	5.4
81.76	42		1470	7.3	88	39	1470	6.9	88	34	1470	6.0	87
70.43	48		1470	8.4	88	45	1470	7.9	88	40	1470	7.0	88
64.27	53		1470	9.2	88	50	1470	8.7	88	44	1470	7.6	88
57.00	60		1470	10.4	88	56	1470	9.8	88	49	1470	8.6	88
47.91	71		1470	12.3	89	67	1470	11.6	89	58	1470	10.2	88
44.03	77		1470	13.4	89	73	1470	12.6	89	64	1470	11.0	89
39.10	87		1300	13.3	89	82	1400	13.5	89	72	1470	12.4	89
34.96	97		1140	13.1	89	92	1240	13.4	89	80	1440	13.6	89
31.43	108		1000	12.8	88	102	1090	13.1	89	89	1290	13.5	89
27.28	125		810	12.1	88	117	910	12.7	88	103	1110	13.4	89
24.43	139		660	112-13 2S	87	131	775	12.1	88	115	960	13.0	89
20.27	168		395	8.4	82	158	490	9.6	84	138	755	12.4	88
25.50	34/6		133	990	15.0	92	125	990	14.1	92	110	990	12.4
21.43		159	990	17.8 *	92	149	990	16.8 *	92	131	990	14.7	92
19.70		173	990	19 *	92	162	990	18.3 *	92	142	990	16.0 *	92
17.49		194	870	19 *	92	183	930	19 *	92	160	990	18.0 *	92
15.64		217	760	19 *	92	205	830	19 *	92	179	960	19 *	92
14.06		242	660	18.2 *	92	228	725	19 *	92	199	860	19 *	92
12.21		278	540	17.2 *	91	262	605	18.1 *	92	229	730	19 *	92
10.93		311	440	15.8 *	90	293	510	17.1 *	91	256	645	19 *	92
9.07		375	255	11.5	87	353	325	13.5	89	309	500	17.7 *	92
7.88		431	200	10.5	86	406	230	11.3	87	355	375	15.5 *	90

* P_{emax} = 15 kW

2200 - 1400 rpm

i _{tot}	i _{worm}	n _e = 2200 rpm				n _e = 1700 rpm				n _e = 1400 rpm			
		n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %
288.00	40/1	7.6	2210	2.5	71	5.9	2280	2.0	70	4.9	2280	1.7	69
258.18		8.5	2170	2.7	72	6.6	2260	2.2	71	5.4	2280	1.9	69
222.40		9.9	2130	3.0	73	7.6	2210	2.5	71	6.3	2280	2.1	70
202.96		11	2080	3.2	73	8.4	2190	2.7	72	6.9	2260	2.3	71
180.00		12	2020	3.5	74	9.4	2130	2.9	73	7.8	2210	2.5	72
151.30		15	1940	4.0	75	11	2060	3.3	74	9.3	2150	2.9	73
139.05		16	1880	4.2	75	12	2020	3.5	74	10	2100	3.0	73
123.48		18	1820	4.5	75	14	1960	3.8	74	11	2060	3.3	74
110.40		20	1770	4.9	76	15	1900	4.1	75	13	2000	3.6	74
99.26		22	1700	5.2	76	17	1840	4.4	75	14	1960	3.9	75
86.15		26	1620	5.7	76	20	1770	4.8	76	16	1880	4.3	75
77.14		29	1540	6.0	76	22	1700	5.2	76	18	1820	4.6	76
64.00		34	1360	6.4	77	27	1580	5.7	77	22	1700	5.1	76
91.20		38/3	24	1540	4.5	87	19	1520	3.5	86	15	1510	2.9
81.76	27		1600	5.2	87	21	1600	4.0	86	17	1600	3.4	86
70.43	31		1600	6.0	87	24	1600	4.7	87	20	1600	3.9	86
64.27	34		1600	6.6	88	26	1600	5.1	87	22	1600	4.2	86
57.00	39		1600	7.4	88	30	1600	5.7	87	25	1600	4.8	87
47.91	46		1600	8.7	88	35	1600	6.8	88	29	1600	5.6	87
44.03	50		1600	9.5	88	39	1600	7.4	88	32	1600	6.1	87
39.10	56		1600	10.6	89	43	1600	8.3	88	36	1600	6.8	88
34.96	63		1600	11.9	89	49	1600	9.2	88	40	1600	7.6	88
31.43	70		1600	13.2	89	54	1600	10.2	89	45	1600	8.5	88
27.28	81		1450	13.7	89	62	1600	11.7	89	51	1600	9.7	89
24.43	90		1310	13.8	89	70	1600	13.1	89	57	1600	10.8	89
20.27	109		1080	13.8	89	84	1420	14.0	89	69	1600	13.0	89
25.50	34/6		86	1240	12.2	92	67	1240	9.5	91	55	1240	7.8
21.43		103	1240	14.5	92	79	1240	11.2	92	65	1240	9.3	91
19.70		112	1240	15.7 *	92	86	1240	12.2	92	71	1240	10.1	91
17.49		126	1240	17.7 *	92	97	1240	13.7	92	80	1240	11.3	92
15.64		141	1230	20 *	92	109	1240	15.3 *	92	90	1240	12.7	92
14.06		156	1110	20 *	92	121	1240	17.0 *	92	100	1240	14.1	92
12.21		180	970	20 *	93	139	1240	20 *	92	115	1240	16.1 *	92
10.93		201	870	20 *	93	156	1130	20 *	93	128	1240	18.0 *	92
9.07		243	720	20 *	92	187	950	20 *	93	154	1140	20 *	93
7.88		279	605	19 *	92	216	830	20 *	93	178	1010	20 *	93

* P_{emax} = 15 kW

1100 - 700 rpm

i _{tot}	i _{worm}	n _e = 1100 rpm				n _e = 900 rpm				n _e = 700 rpm			
		n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %
288.00	40/1	3.8	2400	1.4	67	3.1	2450	1.2	66	2.4	2480	0.98	64
258.18		4.3	2380	1.6	68	3.5	2430	1.3	67	2.7	2470	1.1	65
222.40		4.9	2350	1.8	69	4.0	2400	1.5	68	3.1	2450	1.2	66
202.96		5.4	2330	1.9	70	4.4	2380	1.6	68	3.4	2430	1.3	67
180.00		6.1	2280	2.1	70	5.0	2350	1.8	69	3.9	2400	1.4	68
151.30		7.3	2240	2.4	71	5.9	2310	2.0	70	4.6	2350	1.7	69
139.05		7.9	2190	2.5	72	6.5	2260	2.2	71	5.0	2330	1.8	69
123.48		8.9	2150	2.8	73	7.3	2240	2.4	71	5.7	2310	2.0	70
110.40		10	2110	3.0	73	8.2	2190	2.6	72	6.3	2280	2.1	71
99.26		11	2070	3.3	74	9.1	2150	2.8	73	7.1	2240	2.3	71
86.15		13	2000	3.6	74	10	2090	3.1	73	8.1	2190	2.6	72
77.14		14	1940	3.9	75	12	2040	3.4	74	9.1	2150	2.8	73
64.00		17	1840	4.4	76	14	1960	3.9	75	11	2070	3.2	74
91.20	38/3	12	1490	2.2	84	9.9	1480	1.8	83	7.7	1460	1.4	82
81.76		13	1760	2.9	85	11	1760	2.4	84	8.6	1760	1.9	83
70.43		16	1760	3.4	85	13	1760	2.8	85	9.9	1760	2.2	83
64.27		17	1760	3.7	86	14	1760	3.0	85	11	1760	2.4	84
57.00		19	1760	4.1	86	16	1760	3.4	85	12	1760	2.7	84
47.91		23	1760	4.9	87	19	1760	4.0	86	15	1760	3.2	85
44.03		25	1760	5.3	87	20	1760	4.4	86	16	1760	3.4	85
39.10		28	1760	6.0	87	23	1760	4.9	87	18	1760	3.9	86
34.96		31	1760	6.6	88	26	1760	5.5	87	20	1760	4.3	86
31.43		35	1760	7.4	88	29	1760	6.1	87	22	1760	4.7	87
27.28		40	1760	8.4	88	33	1760	6.9	88	26	1760	5.4	87
24.43		45	1760	9.4	88	37	1760	7.7	88	29	1760	6.0	87
20.27		54	1760	11.3	89	44	1760	9.3	88	35	1760	7.2	88
25.50	34/6	43	1340	6.7	90	35	1340	5.5	90	27	1340	4.3	89
21.43		51	1340	7.9	91	42	1340	6.5	90	33	1340	5.1	90
19.70		56	1340	8.6	91	46	1340	7.1	91	36	1340	5.5	90
17.49		63	1340	9.7	91	51	1340	7.9	91	40	1340	6.2	90
15.64		70	1340	10.8	92	58	1340	8.9	91	45	1340	6.9	91
14.06		78	1340	12.0	92	64	1340	9.8	91	50	1340	7.7	91
12.21		90	1340	13.8	92	74	1340	11.3	92	57	1340	8.8	91
10.93		101	1340	15.3 *	92	82	1340	12.6	92	64	1340	9.8	91
9.07		121	1340	18.4 *	92	99	1340	15.1 *	92	77	1340	11.8	92
7.88		140	1260	20 *	93	114	1340	17.4 *	92	89	1340	13.6	92

* P_{emax} = 15 kW

500 - 10 rpm

i _{tot}	i _{worm}	n _e = 500 rpm				n _e = 250 rpm				n _e = 10 rpm			
		n _a rpm	M _a max Nm	P _e kW	η %	n _a rpm	M _a max Nm	P _e kW	η %	n _a rpm	M _a max Nm	P _e kW	η %
288.00	40/1	1.7	2500	0.73	62	0.87	2500	0.38	59	0.03	2500	< 0.05	58
258.18		1.9	2500	0.80	63	0.97	2500	0.43	59	0.04	2500	< 0.05	58
222.40		2.2	2500	0.92	64	1.1	2500	0.49	60	0.04	2500	< 0.05	59
202.96		2.5	2480	0.99	64	1.2	2500	0.53	61	0.05	2500	< 0.05	59
180.00		2.8	2480	1.1	65	1.4	2500	0.60	61	0.06	2500	< 0.05	59
151.30		3.3	2430	1.3	67	1.7	2500	0.70	62	0.07	2500	< 0.05	59
139.05		3.6	2430	1.4	67	1.8	2500	0.75	63	0.07	2500	< 0.05	59
123.48		4.0	2400	1.5	68	2.0	2500	0.84	63	0.08	2500	< 0.05	59
110.40		4.5	2380	1.6	69	2.3	2500	0.93	64	0.09	2500	< 0.05	59
99.26		5.0	2330	1.8	69	2.5	2470	1.0	65	0.10	2470	< 0.05	59
86.15		5.8	2310	2.0	70	2.9	2450	1.1	66	0.12	2450	0.05	59
77.14		6.5	2260	2.2	71	3.2	2430	1.2	66	0.13	2430	0.06	59
64.00	7.8	2220	2.5	72	3.9	2400	1.5	68	0.16	2400	0.07	59	
91.20	38/3	5.5	1450	1.0	81	2.7	1390	0.51	79	0.11	1390	< 0.05	78
81.76		6.1	1960	1.5	82	3.1	1880	0.76	79	0.12	1880	< 0.05	78
70.43		7.1	1980	1.8	82	3.5	1980	0.92	80	0.14	1980	< 0.05	79
64.27		7.8	1980	2.0	83	3.9	1980	1.0	80	0.16	1980	< 0.05	79
57.00		8.8	1980	2.2	83	4.4	1980	1.1	80	0.18	1980	< 0.05	79
47.91		10	1980	2.6	84	5.2	1980	1.3	81	0.21	1980	0.06	79
44.03		11	1980	2.8	84	5.7	1980	1.4	81	0.23	1980	0.06	79
39.10		13	1980	3.1	85	6.4	1980	1.6	82	0.26	1980	0.07	79
34.96		14	1980	3.5	85	7.2	1980	1.8	82	0.29	1980	0.08	79
31.43		16	1980	3.9	85	8.0	1980	2.0	83	0.32	1980	0.08	79
27.28		18	1980	4.4	86	9.2	1980	2.3	83	0.37	1980	0.10	79
24.43		20	1980	4.9	86	10	1980	2.5	84	0.41	1980	0.11	79
20.27	25	1980	5.9	87	12	1980	3.0	85	0.49	1980	0.13	79	
25.50	34/6	20	1430	3.3	88	9.8	1390	1.6	87	0.39	1390	0.07	85
21.43		23	1420	3.9	89	12	1510	2.1	87	0.47	1510	0.09	85
19.70		25	1410	4.2	89	13	1570	2.4	87	0.51	1570	0.10	85
17.49		29	1390	4.6	89	14	1570	2.7	88	0.57	1570	0.11	85
15.64		32	1390	5.2	90	16	1540	2.9	88	0.64	1540	0.12	85
14.06		36	1390	5.7	90	18	1510	3.2	88	0.71	1510	0.13	85
12.21		41	1390	6.6	90	20	1460	3.5	89	0.82	1460	0.15	85
10.93		46	1390	7.3	91	23	1430	3.9	89	0.91	1430	0.16	85
9.07		55	1410	8.9	91	28	1390	4.5	89	1.1	1390	0.19	85
7.88		63	1410	10.3	91	32	1390	5.1	90	1.3	1390	0.22	85

11.12 Technical data S. SF. SA. SAF 97

3400 - 2800 rpm

i _{tot}	i _{worm}	n _e = 3400 rpm				n _e = 3200 rpm				n _e = 2800 rpm				
		n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	
286.40	40/1	12	3520	5.8	76	11	3590	5.6	76	9.8	3700	5.0	75	
262.22		13	3450	6.2	76	12	3520	5.9	76	11	3630	5.4	75	
231.67		15	3310	6.7	76	14	3380	6.4	76	12	3520	5.9	76	
196.52		17	3120	7.4	77	16	3210	7.2	76	14	3350	6.6	76	
180.95		19	3030	7.8	77	18	3120	7.5	77	15	3250	6.9	76	
161.74		21	2910	8.3	77	20	2970	8.0	77	17	3120	7.4	77	
145.60		23	2760	8.8	77	22	2850	8.5	77	19	3000	7.9	77	
131.85		26	2660	9.4	77	24	2740	9.1	77	21	2880	8.3	77	
116.92		29	2320	9.3	76	27	2550	9.5	77	24	2740	8.9	77	
105.71		32	1980	8.9	75	30	2210	9.2	76	26	2630	9.5	77	
89.60		38	1280	7.3	70	36	1670	8.5	74	31	2210	9.4	77	
78.26		43	920	6.4	65	41	1040	6.7	67	36	1770	8.8	75	
65.45		52	675	5.9	63	49	775	6.2	64	43	1030	6.8	68	
80.85		37/3	42	3150	15.5	89	40	3150	14.6	89	35	3150	12.8	89
71.43	48		3090	17.2	90	45	3150	16.5	89	39	3150	14.5	89	
60.59	56		2910	19	90	53	2970	18.3	90	46	3120	16.9	90	
55.79	61		2820	20	90	57	2880	19	90	50	3030	17.8	90	
49.87	68		2710	22	90	64	2760	21	90	56	2910	19	90	
44.89	76		2430	21	90	71	2630	22	90	62	2790	20	90	
40.65	84		2170	21	90	79	2350	22	90	69	2680	21	90	
36.05	94		1830	20	89	89	2020	21	89	78	2400	22	90	
32.60	104		1560	19	89	98	1760	20	89	86	2150	22	90	
27.63	123		1010	15.2	86	116	1320	18.2	88	101	1740	21	89	
24.13	141		725	12.9	83	133	820	13.6	84	116	1390	19	88	
26.39	35/6		129	1750	25 *	93	121	1750	24 *	93	106	1750	21	93
23.59			144	1750	28 *	93	136	1750	27 *	93	119	1750	23 *	93
21.23			160	1750	32 *	93	151	1750	30 *	93	132	1750	26 *	93
19.23		177	1550	31 *	93	166	1680	31 *	93	146	1750	29 *	93	
17.05		199	1320	30 *	93	188	1450	31 *	93	164	1730	32 *	93	
15.42		220	1110	28 *	92	208	1260	30 *	93	182	1540	31 *	93	
13.07		260	725	22	90	245	940	26 *	92	214	1240	30 *	93	
11.41		298	515	18.3	88	280	585	19	89	245	1000	28 *	92	
9.55		356	375	16.2	87	335	435	17.5	87	293	580	20	89	
8.26		412	290	14.7	85	387	335	15.8	86	339	455	18.4	88	

* P_{emax} = 22 kW

2200 - 1400 rpm

i_{tot}	i_{worm}	$n_e = 2200 \text{ rpm}$				$n_e = 1700 \text{ rpm}$				$n_e = 1400 \text{ rpm}$				
		n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	
286.40	40/1	7.7	3920	4.2	74	5.9	4000	3.4	73	4.9	4000	2.9	72	
262.22		8.4	3840	4.5	75	6.5	4000	3.7	73	5.3	4000	3.1	72	
231.67		9.5	3770	5.0	75	7.3	3960	4.1	74	6.0	4000	3.5	73	
196.52		11	3580	5.5	76	8.7	3840	4.7	75	7.1	4000	4.0	74	
180.95		12	3510	5.9	76	9.4	3770	4.9	75	7.7	3920	4.3	74	
161.74		14	3410	6.4	76	11	3650	5.3	76	8.7	3840	4.7	75	
145.60		15	3270	6.8	77	12	3550	5.7	76	9.6	3730	5.0	75	
131.85		17	3170	7.2	77	13	3440	6.1	76	11	3650	5.4	76	
116.92		19	3020	7.7	77	15	3340	6.6	77	12	3510	5.8	76	
105.71		21	2930	8.3	77	16	3210	7.0	77	13	3440	6.2	76	
89.60		25	2730	9.1	77	19	3020	7.8	77	16	3240	6.9	77	
78.26		28	2540	9.6	78	22	2870	8.4	78	18	3080	7.5	77	
65.45		34	2120	9.7	77	26	2650	9.2	78	21	2900	8.3	78	
80.85		37/3	27	3300	10.6	89	21	3270	8.2	88	17	3230	6.7	88
71.43	31		3300	12.0	89	24	3300	9.3	88	20	3300	7.7	88	
60.59	36		3300	14.1	89	28	3300	10.9	89	23	3300	9.0	88	
55.79	39		3270	15.1	89	30	3300	11.8	89	25	3300	9.8	88	
49.87	44		3170	16.3	90	34	3300	13.2	89	28	3300	10.9	89	
44.89	49		3050	17.5	90	38	3300	14.6	89	31	3300	12.1	89	
40.65	54		2950	19	90	42	3230	15.8	90	34	3300	13.3	89	
36.05	61		2810	20	90	47	3110	17.1	90	39	3300	15.0	89	
32.60	67		2700	21	90	52	2980	18.1	90	43	3200	16.0	90	
27.63	80		2390	22	90	62	2810	20	90	51	3010	17.8	90	
24.13	91		2060	22	90	70	2670	22	90	58	2870	19	90	
26.39	35/6		83	2550	24 *	93	64	2600	19	93	53	2600	15.6	92
23.59			93	2450	26 *	93	72	2600	21	93	59	2600	17.5	93
21.23			104	2380	28 *	93	80	2570	23 *	93	66	2600	19	93
19.23		114	2280	29 *	93	88	2500	25 *	93	73	2600	21	93	
17.05		129	2170	31 *	93	100	2400	27 *	93	82	2570	24 *	93	
15.42		143	2040	33 *	93	110	2300	28 *	93	91	2470	25 *	93	
13.07		168	1720	32 *	93	130	2170	32 *	93	107	2330	28 *	93	
11.41		193	1480	32 *	93	149	2000	33 *	93	123	2210	30 *	93	
9.55		230	1200	31 *	93	178	1670	33 *	93	147	2040	33 *	94	
8.26		266	980	30 *	93	206	1440	33 *	93	169	1770	34 *	94	

* $P_{emax} = 22 \text{ kW}$

1100 - 700 rpm

i_{tot}	i_{worm}	$n_e = 1100$ rpm				$n_e = 900$ rpm				$n_e = 700$ rpm				
		n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	n_a rpm	M_{amax} Nm	P_e kW	η %	
286.40	40/1	3.8	4200	2.4	70	3.1	4200	2.0	69	2.4	4200	1.6	68	
262.22		4.2	4200	2.6	71	3.4	4200	2.2	70	2.7	4200	1.7	68	
231.67		4.7	4200	2.9	72	3.9	4200	2.4	70	3.0	4200	1.9	69	
196.52		5.6	4160	3.4	73	4.6	4200	2.8	71	3.6	4200	2.2	70	
180.95		6.1	4120	3.6	73	5.0	4200	3.0	72	3.9	4200	2.4	70	
161.74		6.8	4030	3.9	74	5.6	4160	3.3	73	4.3	4200	2.7	71	
145.60		7.6	3950	4.2	74	6.2	4080	3.6	73	4.8	4200	2.9	72	
131.85		8.3	3880	4.5	75	6.8	4030	3.9	74	5.3	4200	3.2	72	
116.92		9.4	3760	4.9	75	7.7	3910	4.2	74	6.0	4120	3.5	73	
105.71		10	3650	5.3	76	8.5	3840	4.6	75	6.6	4030	3.8	74	
89.60		12	3500	5.9	76	10	3690	5.1	76	7.8	3910	4.3	75	
78.26		14	3370	6.5	77	12	3580	5.7	76	8.9	3800	4.7	75	
65.45		17	3170	7.2	77	14	3400	6.4	77	11	3650	5.4	76	
80.85		37/3	14	3230	5.3	87	11	3200	4.3	86	8.7	3170	3.4	85
71.43			15	3600	6.7	87	13	3600	5.5	87	9.8	3600	4.3	86
60.59			18	3600	7.8	88	15	3600	6.4	87	12	3600	5.0	86
55.79			20	3600	8.5	88	16	3600	7.0	87	13	3600	5.5	87
49.87	22		3600	9.4	88	18	3600	7.8	88	14	3600	6.1	87	
44.89	25		3600	10.4	88	20	3600	8.6	88	16	3600	6.7	87	
40.65	27		3600	11.5	89	22	3600	9.5	88	17	3600	7.4	88	
36.05	31		3530	12.7	89	25	3600	10.6	89	19	3600	8.3	88	
32.60	34		3420	13.5	89	28	3600	11.7	89	21	3600	9.2	88	
27.63	40		3260	15.2	90	33	3460	13.2	89	25	3600	10.8	89	
24.13	46		3130	16.6	90	37	3320	14.5	89	29	3560	12.2	89	
26.39	35/6		42	2650	12.6	92	34	2620	10.2	92	27	2620	8.0	91
23.59			47	2650	14.0	92	38	2650	11.5	92	30	2620	8.9	91
21.23			52	2650	15.6	92	42	2650	12.8	92	33	2620	9.9	92
19.23			57	2650	17.2	93	47	2650	14.1	92	36	2620	10.9	92
17.05			65	2670	19	93	53	2650	15.9	92	41	2650	12.4	92
15.42			71	2670	21	93	58	2650	17.5	93	45	2650	13.7	92
13.07		84	2540	24 *	93	69	2670	21	93	54	2650	16.1	92	
11.41		96	2420	26 *	93	79	2590	23 *	93	61	2650	18.4	93	
9.55		115	2280	29 *	93	94	2440	26 *	93	73	2650	22	93	
8.26		133	2140	32 *	94	109	2320	28 *	93	85	2540	24 *	93	

* $P_{emax} = 22$ kW

500 - 10 rpm

i _{tot}	i _{worm}	n _e = 500 rpm				n _e = 250 rpm				n _e = 10 rpm				
		n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	n _a rpm	M _{amax} Nm	P _e kW	η %	
286.40	40/1	1.7	4200	1.2	65	0.87	4200	0.62	62	0.03	4200	< 0.05	60	
262.22		1.9	4200	1.3	66	0.95	4200	0.68	62	0.04	4200	< 0.05	60	
231.67		2.2	4200	1.4	67	1.1	4200	0.76	63	0.04	4200	< 0.05	60	
196.52		2.5	4200	1.6	68	1.3	4200	0.88	64	0.05	4200	< 0.05	60	
180.95		2.8	4200	1.8	68	1.4	4200	0.95	64	0.06	4200	< 0.05	60	
161.74		3.1	4200	2.0	69	1.5	4200	1.1	65	0.06	4200	< 0.05	60	
145.60		3.4	4200	2.2	70	1.7	4200	1.2	65	0.07	4200	0.05	60	
131.85		3.8	4200	2.4	70	1.9	4200	1.3	66	0.08	4200	0.06	60	
116.92		4.3	4200	2.6	71	2.1	4200	1.4	67	0.09	4200	0.06	60	
105.71		4.7	4200	2.9	72	2.4	4200	1.5	67	0.09	4200	0.07	60	
89.60		5.6	4160	3.3	73	2.8	4200	1.8	69	0.11	4200	0.08	60	
78.26		6.4	4080	3.7	74	3.2	4200	2.0	69	0.13	4200	0.09	60	
65.45		7.6	3910	4.2	75	3.8	4200	2.4	70	0.15	4200	0.11	60	
80.85		37/3	6.2	3110	2.4	84	3.1	3010	1.2	82	0.12	3010	< 0.05	80
71.43	7.0		4200	3.6	85	3.5	4160	1.9	82	0.14	4160	0.08	81	
60.59	8.3		4200	4.3	85	4.1	4080	2.1	83	0.17	4080	0.09	81	
55.79	9.0		4200	4.6	86	4.5	4200	2.4	83	0.18	4200	0.10	81	
49.87	10		4200	5.1	86	5.0	4200	2.6	83	0.20	4200	0.11	81	
44.89	11		4160	5.6	86	5.6	4200	2.9	84	0.22	4200	0.12	81	
40.65	12		4120	6.1	87	6.2	4200	3.2	84	0.25	4200	0.13	81	
36.05	14		4080	6.8	87	6.9	4200	3.6	85	0.28	4200	0.15	81	
32.60	15		3990	7.3	87	7.7	4200	4.0	85	0.31	4200	0.17	81	
27.63	18		3910	8.4	88	9.0	4200	4.7	86	0.36	4200	0.20	81	
24.13	21		3800	9.3	88	10	4200	5.3	86	0.41	4200	0.23	81	
26.39	35/6		19	2590	5.7	90	9.5	2540	2.8	89	0.38	2540	0.12	87
23.59			21	2590	6.3	91	11	2540	3.2	89	0.42	2540	0.13	87
21.23			24	2590	7.0	91	12	2570	3.6	89	0.47	2570	0.15	87
19.23		26	2620	7.8	91	13	2570	3.9	89	0.52	2570	0.16	87	
17.05		29	2620	8.8	91	15	2570	4.4	90	0.59	2570	0.18	87	
15.42		32	2620	9.7	92	16	2570	4.8	90	0.65	2570	0.20	87	
13.07		38	2650	11.6	92	19	2590	5.7	90	0.77	2590	0.24	87	
11.41		44	2650	13.2	92	22	2590	6.6	91	0.88	2590	0.27	87	
9.55		52	2650	15.7	92	26	2620	7.9	91	1.0	2620	0.33	87	
8.26		61	2650	18.1	93	30	2620	9.1	91	1.2	2620	0.38	87	