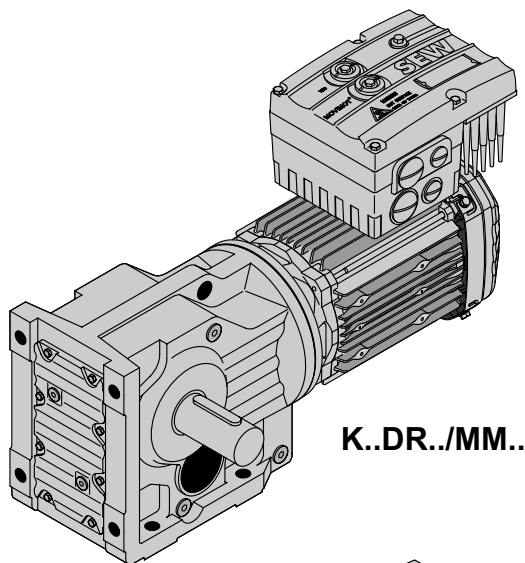


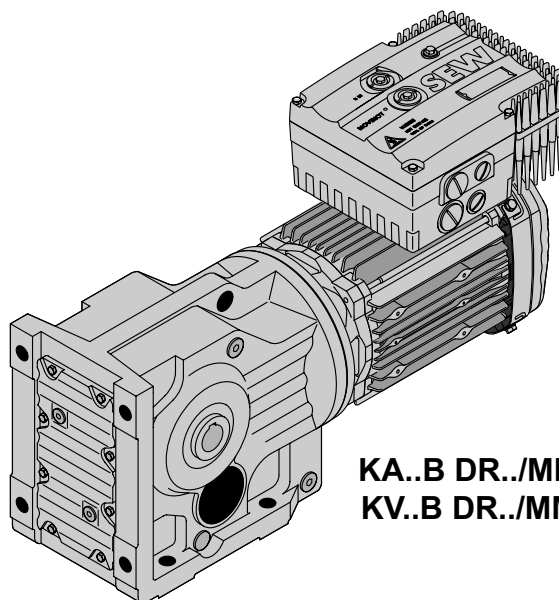
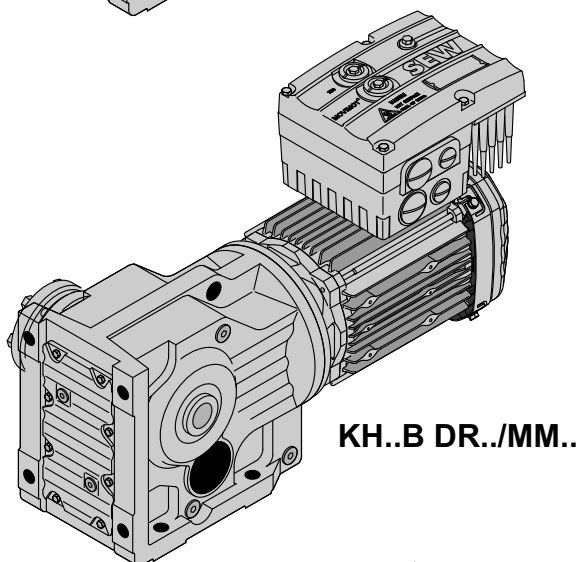
10 K..DR..MM.. helical-bevel gearmotors

MM03 – MM15

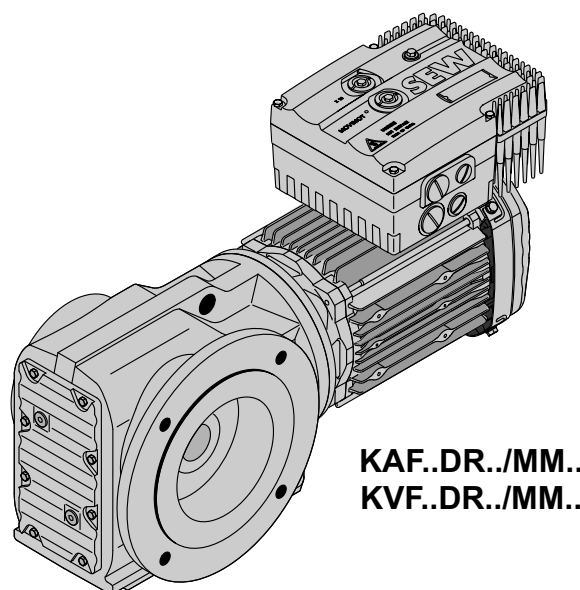
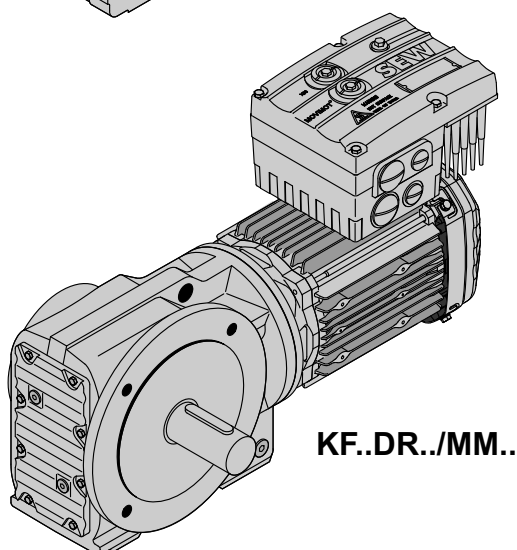


K..DR../MM..

MM22 – MM30

KA..B DR../MM..
KV..B DR../MM..

KH..B DR../MM..

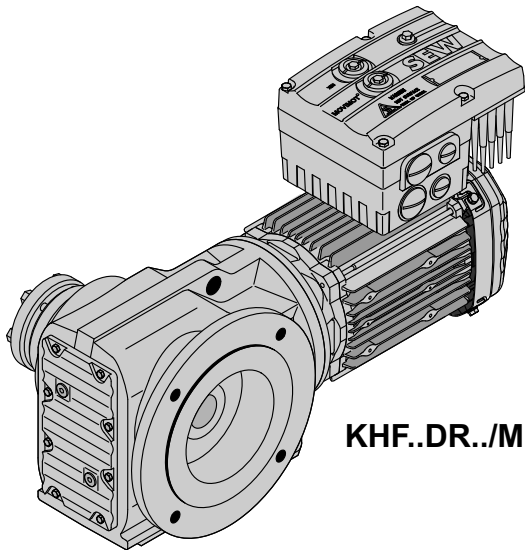
KAF..DR../MM..
KVF..DR../MM..

KF..DR../MM..

5938154123

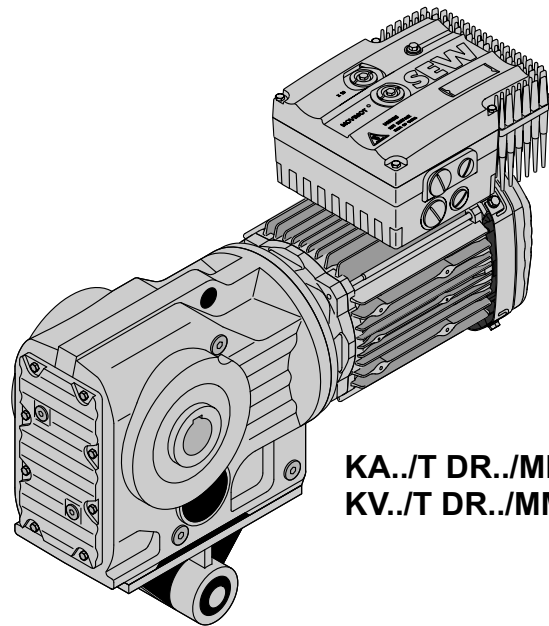
22148205/EN – 09/2016

MM03 – MM15

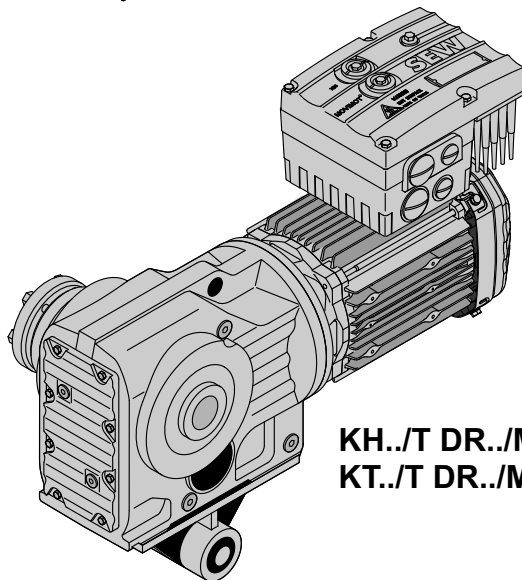
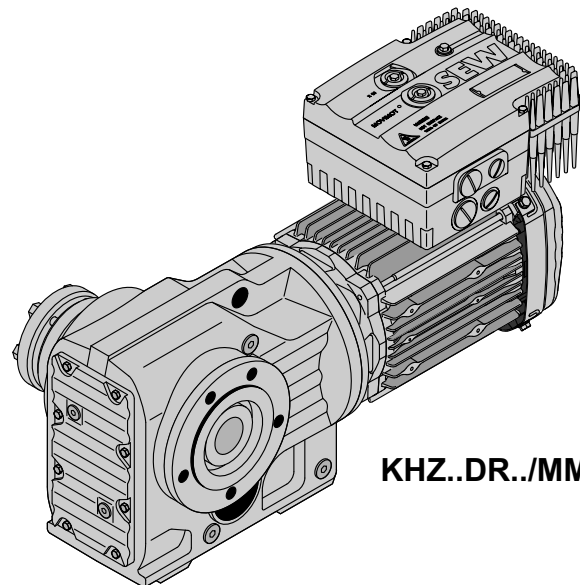


KHF..DR../MM..

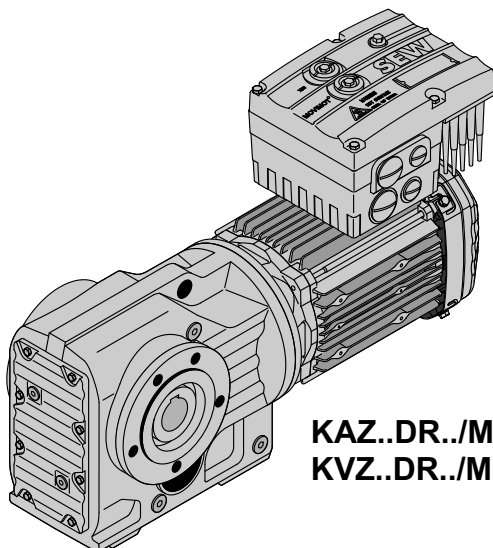
MM22 – MM30

KA../T DR../MM..
KV../T DR../MM..

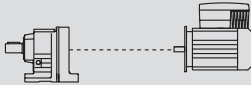
10

KH../T DR../MM..
KT../T DR../MM..

KHZ..DR../MM..

KAZ..DR../MM..
KVZ..DR../MM..

10.1 K..DR..MM.. selection tables [1:10, 290 – 2900 min⁻¹]

P _m = 0.55 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
2.0 - 20	260	144.79*	13000	3.1	K	67	DRS	71S4 MM05	36	372
2.4 - 23	220	123.54	13000	3.7	KF	67	DRS	71S4 MM05	42	373
2.7 - 27	196	108.03	13000	4.2	KA	67	DRS	71S4 MM05	34	374
2.8 - 28	186	102.62	13000	4.4	KAF	67	DRS	71S4 MM05	39	373
2.0 - 20	260	145.14*	9420	2.3	K	57	DRS	71S4 MM05	31	366
2.3 - 23	220	123.85	9550	2.7	KF	57	DRS	71S4 MM05	35	367
2.7 - 27	196	108.29	9640	3.1	KA	57	DRS	71S4 MM05	28	368
2.8 - 28	186	102.88*	9670	3.2	KAF	57	DRS	71S4 MM05	34	367
3.2 - 32	163	90.26*	9740	3.7						
2.2 - 22	235	131.87*	7540	1.65						
2.4 - 24	220	121.48*	7660	1.80	K	47	DRS	71S4 MM05	25	356
2.8 - 28	189	104.37	7830	2.1	KF	47	DRS	71S4 MM05	28	357
3.2 - 32	165	90.86	7940	2.4	KA	47	DRS	71S4 MM05	24	358
3.4 - 34	154	85.12*	7990	2.6	KAF	47	DRS	71S4 MM05	27	357
3.9 - 39	136	75.20*	8060	2.9						
4.2 - 42	126	69.84	8000	3.2						
5.0 - 50	105	58.24	7380	2.8	K	39	DRS	71S4 MM05	24	352
5.8 - 58	90	49.69	7090	3.3	KF	39	DRS	71S4 MM05	25	353
6.7 - 67	79	43.45	6840	3.8	KA	39	DRS	71S4 MM05	23	354
					KAF	39	DRS	71S4 MM05	24	353
2.7 - 27	193	106.38	4790	1.05						
3.0 - 30	177	97.81	4750	1.15						
3.5 - 35	152	83.69	4660	1.30						
4.0 - 40	131	72.54	4560	1.50						
4.3 - 43	123	67.80	4510	1.65						
5.0 - 49	106	58.60	4400	1.90						
5.8 - 58	90	49.79	4260	2.2						
6.5 - 65	81	44.46	4160	2.5						
7.6 - 76	69	37.97	4020	2.9						
8.2 - 82	64	35.57	3960	3.1						
9.7 - 97	54	29.96	3800	3.7						
10 - 101	52	28.83	3760	3.8	K	37	DRS	71S4 MM05	19	346
12 - 116	45	24.99	3620	4.4	KF	37	DRS	71S4 MM05	21	347
12 - 124	42	23.36	3560	4.6	KA	37	DRS	71S4 MM05	18	348
14 - 144	37	20.19	3430	5.1	KAF	37	DRS	71S4 MM05	20	347
17 - 169	31	17.15	3280	5.8						
19 - 189	28	15.31	3180	6.3						
22 - 222	24	13.08	3040	7.0						
24 - 239	22	12.14	2970	7.3						
28 - 276	19	10.49	2850	8.4						
33 - 325	16	8.91	2720	9.9						
36 - 364	14	7.96	2630	11						
43 - 427	12	6.80	2500	12						
46 - 456	12	6.37	2460	13						
54 - 541	9.7	5.36	2330	14						
5.3 - 53	99	54.89	4180	1.30						
5.8 - 58	91	50.35	4120	1.45						
6.8 - 68	78	42.87	3990	1.65						
7.8 - 78	67	36.96	3860	1.80						
9.6 - 96	55	30.11	3690	2.1	K	29	DRS	71S4 MM05	13	339
9.8 - 98	54	29.69	3730	2.4	KF	29	DRS	71S4 MM05	14	343
11 - 106	49	27.23	3650	2.6	KA	29	DRS	71S4 MM05	12	345
12 - 116	45	24.91	3520	2.4	KAF	29	DRS	71S4 MM05	13	343
13 - 125	42	23.19	3510	3.1						
13 - 131	40	22.08	3420	2.6						
15 - 145	36	19.99	3370	3.6						

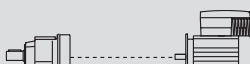
P_m = 0.55 kW

n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
6.5 - 65	81	44.48	3470	0.85						
7.1 - 71	74	40.63	3420	0.90						
8.5 - 85	62	34.29	3330	1.05						
9.9 - 99	53	29.29	3230	1.15						
11 - 107	49	27.16	3180	1.20						
12 - 121	44	24.06	3190	1.85						
13 - 132	40	21.98	3120	2.0						
16 - 156	34	18.55	2990	2.4						
18 - 183	29	15.84	2870	2.8	K	19	DRS	71S4 MM05	11	333
20 - 197	27	14.69	2810	3.0	KF	19	DRS	71S4 MM05	11	336
23 - 228	23	12.70	2700	3.5	KA	19	DRS	71S4 MM05	11	338
24 - 245	21	11.84	2650	3.7	KAF	19	DRS	71S4 MM05	11	336
28 - 281	19	10.32	2550	4.1						
30 - 303	17	9.58	2540	3.6						
36 - 359	15	8.09	2410	5.5						
42 - 420	13	6.91	2300	6.4						
45 - 453	12	6.41	2250	6.9						
52 - 523	10	5.54	2150	8.0						
56 - 562	9.3	5.16	2100	8.6						
64 - 644	8.2	4.50	2020	9.8						

P_m = 0.75 kW

n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
1.9 - 19	380	154.02	19900	4.1	K	77	DRS	71M4 MM07	64	378
2.1 - 21	330	135.28	19900	4.6	KF	77	DRS	71M4 MM07	72	379
2.3 - 23	315	128.52	20000	4.9	KA	77	DRS	71M4 MM07	56	380
2.5 - 26	280	113.56	20000	5.5	KAF	77	DRS	71M4 MM07	64	379
2.4 - 23	305	123.54	13000	2.7	K	67	DRS	71M4 MM07	38	372
2.7 - 27	265	108.03	13000	3.1	KF	67	DRS	71M4 MM07	43	373
2.8 - 28	250	102.62	13000	3.2	KA	67	DRS	71M4 MM07	35	374
3.2 - 32	220	90.04	13000	3.7	KAF	67	DRS	71M4 MM07	41	373
2.3 - 23	305	123.85	9260	1.95						
2.7 - 27	265	108.29	9400	2.2						
2.8 - 28	250	102.88*	9450	2.4	K	57	DRS	71M4 MM07	32	366
3.2 - 32	220	90.26*	9560	2.7	KF	57	DRS	71M4 MM07	37	367
3.8 - 38	189	76.56*	9670	3.2	KA	57	DRS	71M4 MM07	30	368
4.2 - 42	171	69.12	9720	3.5	KAF	57	DRS	71M4 MM07	35	367
4.8 - 48	150	60.81*	9780	4.0						
3.9 - 39	186	75.20	9000	2.6	K	49	DRS	71M4 MM07	38	362
4.1 - 41	173	70.19	9000	2.6	KF	49	DRS	71M4 MM07	40	363
4.8 - 48	149	60.27	8910	3.4	KA	49	DRS	71M4 MM07	36	364
5.5 - 55	131	52.94	8620	3.8	KAF	49	DRS	71M4 MM07	40	363
2.8 - 28	255	104.37	7400	1.55						
3.2 - 32	220	90.86	7630	1.80	K	47	DRS	71M4 MM07	26	356
3.4 - 34	210	85.12*	7710	1.90	KF	47	DRS	71M4 MM07	29	357
3.9 - 39	186	75.20*	7780	2.1	KA	47	DRS	71M4 MM07	25	358
4.2 - 42	172	69.84	7660	2.3	KAF	47	DRS	71M4 MM07	28	357
4.6 - 46	156	63.30*	7490	2.6						
5.1 - 51	140	56.83	7300	2.9	K	47	DRS	71M4 MM07	26	356
5.9 - 59	121	48.95*	7050	3.3	KF	47	DRS	71M4 MM07	29	357
6.3 - 63	114	46.03*	6940	3.5	KA	47	DRS	71M4 MM07	25	358
					KAF	47	DRS	71M4 MM07	28	357
5.0 - 50	144	58.24	7050	2.1						
5.8 - 58	123	49.69	6810	2.4	K	39	DRS	71M4 MM07	25	352
6.7 - 67	107	43.45	6600	2.8	KF	39	DRS	71M4 MM07	26	353
7.0 - 70	102	41.28	6510	2.9	KA	39	DRS	71M4 MM07	24	354
8.0 - 80	89	36.22	6310	3.4	KAF	39	DRS	71M4 MM07	25	353
9.4 - 94	76	30.72	6040	4.0						

P _m = 0.75 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
3.5 - 35	205	83.69	4160	0.95						
4.0 - 40	179	72.54	4130	1.10						
4.3 - 43	167	67.80	4110	1.20						
5.0 - 49	145	58.60	4050	1.40						
5.8 - 58	123	49.79	3960	1.65						
6.5 - 65	110	44.46	3890	1.80						
7.6 - 76	94	37.97	3790	2.1						
8.2 - 82	88	35.57	3740	2.3						
9.7 - 97	74	29.96	3620	2.7						
10 - 101	71	28.83	3590	2.8						
12 - 116	62	24.99	3480	3.2	K	37	DRS	71M4 MM07	20	346
12 - 124	58	23.36	3420	3.4	KF	37	DRS	71M4 MM07	22	347
14 - 144	50	20.19	3310	3.7	KA	37	DRS	71M4 MM07	20	348
17 - 169	42	17.15	3180	4.2	KAF	37	DRS	71M4 MM07	21	347
19 - 189	38	15.31	3080	4.6						
22 - 222	32	13.08	2960	5.1						
24 - 239	30	12.14	2900	5.3						
28 - 276	26	10.49	2790	6.2						
33 - 325	22	8.91	2660	7.3						
36 - 364	20	7.96	2580	7.9						
43 - 427	17	6.80	2460	8.9						
46 - 456	16	6.37	2420	9.2						
54 - 541	13	5.36	2300	11						
73 - 729	9.8	3.98	2100	13						
5.3 - 53	136	54.89	3820	0.95						
5.8 - 58	124	50.35	3780	1.05						
6.8 - 68	106	42.87	3710	1.20						
7.8 - 78	91	36.96	3620	1.35						
9.6 - 96	74	30.11	3490	1.55	K	29	DRS	71M4 MM07	14	339
9.8 - 98	73	29.69	3560	1.75	KF	29	DRS	71M4 MM07	15	343
11 - 106	67	27.23	3490	1.95	KA	29	DRS	71M4 MM07	14	345
12 - 116	62	24.91	3360	1.75	KAF	29	DRS	71M4 MM07	14	343
13 - 125	57	23.19	3370	2.3						
13 - 131	55	22.08	3270	1.95						
15 - 145	49	19.99	3250	2.6						
18 - 178	40	16.29	3090	3.2						
22 - 215	33	13.47	2940	3.9						
9.9 - 99	72	29.29	2990	0.85						
11 - 107	67	27.16	2960	0.90						
12 - 121	59	24.06	3030	1.35						
13 - 132	54	21.98	2970	1.45						
16 - 156	46	18.55	2870	1.75						
18 - 183	39	15.84	2760	2.0						
20 - 197	36	14.69	2710	2.2	K	19	DRS	71M4 MM07	12	333
23 - 228	31	12.70	2620	2.5	KF	19	DRS	71M4 MM07	13	336
24 - 245	29	11.84	2570	2.7	KA	19	DRS	71M4 MM07	12	338
28 - 281	25	10.32	2480	3.0	KAF	19	DRS	71M4 MM07	12	336
30 - 303	24	9.58	2490	2.7						
36 - 359	20	8.09	2370	4.0						
42 - 420	17	6.91	2260	4.7						
45 - 453	16	6.41	2220	5.1						
52 - 523	14	5.54	2120	5.8						
56 - 562	13	5.16	2080	6.3						
64 - 644	11	4.50	1990	7.2						

P _m = 1.1 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
1.9 - 19	555	154.02	19600	2.8	K	77	DRN	80M4 MM11	68	378
2.1 - 21	490	135.28	19700	3.2	KF	77	DRN	80M4 MM11	77	379
2.3 - 23	465	128.52	19800	3.3	KA	77	DRN	80M4 MM11	61	380
2.5 - 26	410	113.56	19800	3.8	KAF	77	DRN	80M4 MM11	69	379

P _m = 1.1 kW											
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg		
2.4 - 23	445	123.54	12600	1.85	K	67	DRN	80M4 MM11	43	372	
2.7 - 27	390	108.03	12800	2.1							
2.8 - 28	370	102.62	12900	2.2							
3.2 - 32	325	90.04	13000	2.5							
3.8 - 38	275	76.37	13000	3.0							
4.2 - 42	245	68.95	13000	3.3	KAF	67	DRN	80M4 MM11	46	373	
4.8 - 48	215	60.66	13000	3.7	K	67	DRN	80M4 MM11	43	372	
	5.1 - 51	205	57.28	13000	4.0	KF	67	DRN	80M4 MM11	48	373
						KA	67	DRN	80M4 MM11	40	374
					KAF	67	DRN	80M4 MM11	46	373	
2.3 - 23	445	123.85	8660	1.35	K	57	DRN	80M4 MM11	37	366	
2.7 - 27	390	108.29	8920	1.55							
2.8 - 28	370	102.88*	9000	1.60							
3.2 - 32	325	90.26*	9180	1.85							
3.8 - 38	275	76.56*	9370	2.2							
4.2 - 42	250	69.12	9460	2.4							
4.8 - 48	220	60.81*	9570	2.7							
5.0 - 51	205	57.42*	9540	2.9							
5.9 - 59	177	48.89	9180	3.4							
6.5 - 65	161	44.43	8960	3.7							
4.8 - 48	215	60.27	8410	2.3	K	49	DRN	80M4 MM11	43	362	
5.5 - 55	192	52.94	8180	2.6							
5.8 - 58	182	50.29	8090	2.7							
6.5 - 65	161	44.44	7860	3.1							
7.6 - 76	138	37.98	7570	3.6							
8.3 - 83	126	34.81	7410	4.0	KA	49	DRN	80M4 MM11	40	364	
					KAF	49	DRN	80M4 MM11	45	363	
2.8 - 28	375	104.37	6220	1.05	K	47	DRN	80M4 MM11	31	356	
3.2 - 32	325	90.86	6780	1.20							
3.4 - 34	305	85.12*	6980	1.30							
3.9 - 39	270	75.20*	7120	1.45							
4.2 - 42	250	69.84	7040	1.60							
4.6 - 46	225	63.30*	6930	1.75							
5.1 - 51	205	56.83	6800	1.95							
5.9 - 59	177	48.95*	6620	2.3							
6.3 - 63	167	46.03*	6540	2.4							
7.3 - 73	143	39.61	6330	2.8	KF	47	DRN	80M4 MM11	34	357	
					KA	47	DRN	80M4 MM11	30	358	
					KAF	47	DRN	80M4 MM11	33	357	
5.8 - 58	180	49.69	6310	1.65	K	39	DRN	80M4 MM11	30	352	
6.7 - 67	157	43.45	6160	1.90							
7.0 - 70	150	41.28	6100	2.0							
8.0 - 80	131	36.22	5950	2.3							
9.4 - 94	111	30.72	5740	2.7							
10 - 105	100	27.73	5610	3.0							
12 - 119	88	24.40	5440	3.4							
13 - 126	83	23.04	5370	3.6	KAF	39	DRN	80M4 MM11	30	353	

P _m = 1.1 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
4.3 - 43	245	67.80	3350	0.80						
5.0 - 49	210	58.60	3430	0.95						
5.8 - 58	180	49.79	3440	1.10						
6.5 - 65	161	44.46	3430	1.25						
7.6 - 76	138	37.97	3390	1.45						
8.2 - 82	129	35.57	3370	1.55						
9.7 - 97	109	29.96	3300	1.85						
10 - 101	104	28.83	3280	1.90						
12 - 116	91	24.99	3210	2.2						
12 - 124	85	23.36	3180	2.3	K	37	DRN	80M4 MM11	24	346
14 - 144	73	20.19	3100	2.5	KF	37	DRN	80M4 MM11	27	347
17 - 169	62	17.15	3000	2.9	KA	37	DRN	80M4 MM11	24	348
19 - 189	55	15.31	2920	3.1	KAF	37	DRN	80M4 MM11	26	347
22 - 222	47	13.08	2820	3.5						
24 - 239	44	12.14	2780	3.6						
28 - 276	38	10.49	2680	4.2						
33 - 325	32	8.91	2570	5.0						
36 - 364	29	7.96	2500	5.4						
43 - 427	25	6.80	2390	6.1						
46 - 456	23	6.37	2350	6.3						
54 - 541	19	5.36	2240	7.2						
73 - 729	14	3.98	2060	8.7						
6.8 - 68	155	42.87	3210	0.80						
7.8 - 78	134	36.96	3200	0.90						
9.6 - 96	109	30.11	3140	1.05						
12 - 116	90	24.91	3070	1.20						
13 - 125	84	23.19	3130	1.55	K	29	DRN	80M4 MM11	19	339
13 - 131	80	22.08	3020	1.30	KF	29	DRN	80M4 MM11	20	343
15 - 145	72	19.99	3050	1.80	KA	29	DRN	80M4 MM11	18	345
18 - 178	59	16.29	2920	2.2	KAF	29	DRN	80M4 MM11	19	343
22 - 215	49	13.47	2800	2.7						
24 - 243	43	11.94	2720	3.0						
29 - 293	36	9.90	2690	3.1						
32 - 316	33	9.17	2550	3.9						
34 - 340	31	8.53	2580	4.0						
16 - 156	67	18.55	2650	1.20						
18 - 183	57	15.84	2580	1.40						
20 - 197	53	14.69	2540	1.50						
23 - 228	46	12.70	2470	1.75						
24 - 245	43	11.84	2430	1.85	K	19	DRN	80M4 MM11	17	333
28 - 281	37	10.32	2360	2.0	KF	19	DRN	80M4 MM11	17	336
36 - 359	29	8.09	2300	2.7	KA	19	DRN	80M4 MM11	16	338
42 - 420	25	6.91	2200	3.2	KAF	19	DRN	80M4 MM11	17	336
45 - 453	23	6.41	2160	3.5						
52 - 523	20	5.54	2070	4.0						
56 - 562	19	5.16	2030	4.3						
64 - 644	16	4.50	1950	4.9						

P _m = 1.5 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
1.7 - 17	860	174.19	28800	3.1	K	87	DRN	90S4 MM15	110	384
1.8 - 18	810	164.34*	28900	3.3	KF	87	DRN	90S4 MM15	120	385
2.0 - 20	725	147.32*	28900	3.7	KA	87	DRN	90S4 MM15	97	386
2.3 - 23	625	126.91*	28900	4.3	KAF	87	DRN	90S4 MM15	110	385
2.1 - 21	665	135.28	19300	2.3	K	77	DRN	90S4 MM15	73	378
2.3 - 23	630	128.52	19400	2.4	KF	77	DRN	90S4 MM15	82	379
2.5 - 26	560	113.56	19600	2.8	KA	77	DRN	90S4 MM15	66	380
					KAF	77	DRN	90S4 MM15	74	379

P _m = 1.5 kW																
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg							
2.7 - 27	530	108.03	12200	1.55	K KF KA KAF	67 67 67 67	DRN DRN DRN DRN	90S4 MM15 90S4 MM15 90S4 MM15 90S4 MM15	49 54 46 52	372 373 374 373						
2.8 - 28	505	102.62	12400	1.60												
3.2 - 32	440	90.04	12600	1.85												
3.8 - 38	375	76.37	12900	2.2												
4.2 - 42	340	68.95	13000	2.4												
4.8 - 48	295	60.66	13000	2.7												
5.1 - 51	280	57.28	13000	2.9	K KF KA KAF	67 67 67 67	DRN DRN DRN DRN	90S4 MM15 90S4 MM15 90S4 MM15 90S4 MM15	49 54 46 52	372 373 374 373						
6.0 - 59	240	48.77	13000	3.4												
6.5 - 65	215	44.32	13000	3.8												
2.7 - 27	530	108.29	8150	1.10							K KF KA KAF	57 57 57 57	DRN DRN DRN DRN	90S4 MM15 90S4 MM15 90S4 MM15 90S4 MM15	43 48 41 47	366 367 368 367
2.8 - 28	505	102.88*	8360	1.20												
3.2 - 32	445	90.26*	8680	1.35												
3.8 - 38	375	76.56*	8980	1.60												
4.2 - 42	340	69.12	9120	1.75												
4.8 - 48	300	60.81*	9150	2.0												
5.0 - 51	280	57.42*	9050	2.1	K KF KA KAF	57 57 57 57	DRN DRN DRN DRN	90S4 MM15 90S4 MM15 90S4 MM15 90S4 MM15	43 48 41 47	366 367 368 367						
5.9 - 59	240	48.89	8760	2.5												
6.5 - 65	215	44.43	8580	2.7												
7.5 - 75	190	38.49	8300	3.2							K KF KA KAF	57 57 57 57	DRN DRN DRN DRN	90S4 MM15 90S4 MM15 90S4 MM15 90S4 MM15	43 48 41 47	366 367 368 367
8.1 - 81	176	35.70	8160	3.4												
4.8 - 48	295	60.27	7840	1.70												
5.5 - 55	260	52.94	7680	1.90												
5.8 - 58	245	50.29	7610	2.0												
6.5 - 65	215	44.44	7440	2.3												
7.6 - 76	188	37.98	7210	2.7												
8.3 - 83	172	34.81	7080	2.9	K KF KA KAF	47 47 47 47	DRN DRN DRN DRN	90S4 MM15 90S4 MM15 90S4 MM15 90S4 MM15	37 40 36 39	356 357 358 357						
9.5 - 95	151	30.55	6880	3.3												
10 - 100	143	28.95	6790	3.5												
11 - 114	125	25.34	6580	4.0												
3.4 - 34	420	85.12*	4240	0.95							K KF KA KAF	47 47 47 47	DRN DRN DRN DRN	90S4 MM15 90S4 MM15 90S4 MM15 90S4 MM15	37 40 36 39	356 357 358 357
3.9 - 39	370	75.20*	6300	1.10												
4.2 - 42	340	69.84	6340	1.15												
4.6 - 46	310	63.30*	6300	1.30												
5.1 - 51	280	56.83	6240	1.40												
5.9 - 59	240	48.95*	6120	1.65												
6.3 - 63	225	46.03*	6070	1.75	K KF KA KAF	39 39 39 39	DRN DRN DRN DRN	90S4 MM15 90S4 MM15 90S4 MM15 90S4 MM15	36 38 35 37	352 353 354 353						
7.3 - 73	196	39.61	5930	2.0												
8.2 - 82	175	35.39	5820	2.3												
9.3 - 93	155	31.30	5690	2.6												
9.9 - 99	145	29.32	5610	2.8												
5.8 - 58	245	49.69	5750	1.20							K KF KA KAF	39 39 39 39	DRN DRN DRN DRN	90S4 MM15 90S4 MM15 90S4 MM15 90S4 MM15	36 38 35 37	352 353 354 353
6.7 - 67	210	43.45	5670	1.40												
7.0 - 70	200	41.28	5640	1.45												
8.0 - 80	179	36.22	5540	1.70												
9.4 - 94	152	30.72	5390	2.0												
10 - 105	137	27.73	5300	2.2												
12 - 119	121	24.40	5170	2.5	K KF KA KAF	39 39 39 39	DRN DRN DRN DRN	90S4 MM15 90S4 MM15 90S4 MM15 90S4 MM15	36 38 35 37	352 353 354 353						
13 - 126	114	23.04	5110	2.6												
15 - 148	97	19.62	4930	3.0												
16 - 163	88	17.83	4830	3.3												
19 - 188	76	15.44	4670	3.7												
23 - 228	63	12.73	4630	4.0												

P _m = 1.5 kW																
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg							
6.5 - 65	215	44.46	2900	0.90												
7.6 - 76	188	37.97	2940	1.05												
8.2 - 82	176	35.57	2940	1.15												
9.7 - 97	148	29.96	2940	1.35												
12 - 116	123	24.99	2910	1.60												
12 - 124	115	23.36	2900	1.70												
14 - 144	100	20.19	2850	1.85												
17 - 169	85	17.15	2790	2.1												
19 - 189	76	15.31	2740	2.3												
22 - 222	65	13.08	2670	2.5												
24 - 239	60	12.14	2630	2.7												
28 - 276	52	10.49	2550	3.1												
33 - 325	44	8.91	2460	3.6												
36 - 364	39	7.96	2400	3.9												
43 - 427	34	6.80	2310	4.5												
46 - 456	31	6.37	2280	4.6												
54 - 541	26	5.36	2180	5.3												
73 - 729	20	3.98	2010	6.4												
12 - 116	123	24.91	2750	0.90												
13 - 125	115	23.19	2860	1.15												
13 - 131	109	22.08	2730	0.95												
15 - 145	99	19.99	2810	1.30												
18 - 178	80	16.29	2730	1.60												
22 - 215	67	13.47	2640	1.95												
24 - 243	59	11.94	2580	2.2												
29 - 293	49	9.90	2600	2.2												
32 - 316	45	9.17	2440	2.9												
34 - 340	42	8.53	2500	2.9												
39 - 388	37	7.48	2330	3.3												
42 - 417	34	6.95	2370	3.3												
50 - 504	28	5.75	2250	3.9												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	73	14.69	2340	1.10												
23 - 228	63	12.70	2300	1.25												
24 - 245	58	11.84	2270	1.35												
28 - 281	51	10.32	2220	1.50												
36 - 359	40	8.09	2210	2.0												
42 - 420	34	6.91	2130	2.3												
45 - 453	32	6.41	2090	2.5												
52 - 523	27	5.54	2010	2.9												
56 - 562	26	5.16	1980	3.1												
64 - 644	22	4.50	1900	3.6												
16 - 156	92	18.55	2400	0.85												
18 - 183	78	15.84	2360	1.00												
20 - 197	7															

P _m = 2.2 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
2.5 - 26	820	113.56	18900	1.90	K	77	DRN	90L4 MM22	77	378
3.0 - 30	700	97.05	19300	2.2						
3.3 - 33	640	88.97	19400	2.4						
3.7 - 37	565	78.07	19600	2.7						
3.9 - 39	535	73.99	19600	2.9						
4.5 - 45	465	64.75	19700	3.3	KAF	77	DRN	90L4 MM22	77	379
5.0 - 50	420	58.34	19800	3.7	K	77	DRN	90L4 MM22	77	378
5.7 - 57	370	51.18	19900	4.2	KF	77	DRN	90L4 MM22	85	379
6.4 - 64	325	45.16	19900	4.7	KA	77	DRN	90L4 MM22	69	380
7.2 - 72	290	40.04	20000	5.3	KAF	77	DRN	90L4 MM22	77	379

P _m = 2.2 kW																						
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg													
3.2 - 32	650	90.04	11600	1.25																		
3.8 - 38	550	76.37	12200	1.50																		
4.2 - 42	495	68.95	12400	1.65																		
4.8 - 48	435	60.66	12700	1.85																		
5.1 - 51	410	57.28	12800	2.0																		
6.0 - 59	350	48.77	13000	2.3																		
6.5 - 65	320	44.32	13000	2.5																		
7.5 - 76	275	38.39	13000	2.9																		
8.1 - 81	255	35.62	13000	3.2	K KF KA KAF	67	DRN	90L4 MM22	52	372												
9.6 - 96	215	30.22	13000	3.8																		
3.2 - 32	650	90.26*	6050	0.90																		
3.8 - 38	550	76.56*	8000	1.10																		
4.2 - 42	500	69.12	8320	1.20																		
4.8 - 48	440	60.81*	8230	1.35																		
5.0 - 51	415	57.42*	8180	1.45																		
5.9 - 59	350	48.89	8020	1.70																		
6.5 - 65	320	44.43	7910	1.85																		
7.5 - 75	275	38.49	7720	2.1	K KF KA KAF	57	DRN	90L4 MM22	46	366												
8.1 - 81	255	35.70	7620	2.3																		
9.6 - 96	215	30.28	7380	2.7																		
11 - 106	198	27.34	7220	3.0																		
12 - 121	174	24.05	7020	3.4																		
13 - 128	165	22.71	6930	3.6																		
5.5 - 55	380	52.94	6800	1.30													K KF KA KAF	49	DRN	90L4 MM22	51	362
5.8 - 58	360	50.29	6780	1.35																		
6.5 - 65	320	44.44	6700	1.55																		
7.6 - 76	275	37.98	6580	1.80																		
8.3 - 83	250	34.81	6500	2.0																		
9.5 - 95	220	30.55	6370	2.3																		
10 - 100	205	28.95	6310	2.4																		
11 - 114	184	25.34	6160	2.7	K KF KA KAF	49	DRN	90L4 MM22	53	363												
13 - 127	165	22.83	6030	3.0																		
14 - 145	145	20.03	5870	3.5																		
16 - 164	128	17.67	5710	3.9																		
5.1 - 51	410	56.83	5240	0.95																		
5.9 - 59	350	48.95*	5270	1.15																		
6.3 - 63	330	46.03*	5270	1.20																		
7.3 - 73	285	39.61	5240	1.40																		
8.2 - 82	255	35.39	5200	1.55																		
11 - 112	188	25.91	5020	2.1																		
13 - 133	158	21.81	4880	2.5																		
15 - 148	142	19.58	4790	2.8	K KF KA KAF	47	DRN	90L4 MM22	40	356												
17 - 172	122	16.86	4650	3.1																		
18 - 183	115	15.86	4600	3.3																		
21 - 212	99	13.65	4450	3.6																		
24 - 238	88	12.19	4340	4.0																		
25 - 246	85	11.77	4270	3.3																		
27 - 274	77	10.56	4160	3.7																		
6.7 - 67	310	43.45	4810	0.95																		
7.0 - 70	295	41.28	4820	1.00																		
8.0 - 80	260	36.22	4820	1.15																		
9.4 - 94	220	30.72	4780	1.35																		
10 - 105	200	27.73	4740	1.50																		
12 - 119	177	24.40	4680	1.70																		
13 - 126	167	23.04	4650	1.80																		
15 - 148	142	19.62	4550	2.1	K KF KA KAF	39	DRN	90L4 MM22	39	352												
16 - 163	129	17.83	4480	2.2																		
19 - 188	112	15.44	4360	2.5																		
22 - 216	97	13.44	4250	2.8																		
23 - 228	92	12.73	4460	2.7																		
24 - 240	88	12.09	4410	2.9																		
27 - 273	77	10.61	4260	3.7																		

P_m = 2.2 kW									
n_a min⁻¹	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B				m kg	
9.7 - 97	215	29.96	2320	0.90	K	37	DRN	90L4 MM22	33
14 - 144	146	20.19	2430	1.25					
17 - 169	124	17.15	2430	1.45					
19 - 189	111	15.31	2420	1.60					
22 - 222	95	13.08	2390	1.75					
28 - 276	76	10.49	2340	2.1					
33 - 325	65	8.91	2280	2.5					
36 - 364	58	7.96	2240	2.7					
43 - 427	49	6.80	2170	3.0					
46 - 456	46	6.37	2140	3.1					
54 - 541	39	5.36	2060	3.6	KF	37	DRN	90L4 MM22	36
73 - 729	29	3.98	1930	4.3					
15 - 145	145	19.99	2400	0.90					
18 - 178	118	16.29	2400	1.10					
22 - 215	98	13.47	2370	1.35					
24 - 243	87	11.94	2340	1.50					
32 - 316	66	9.17	2260	1.95					
34 - 340	62	8.53	2380	1.95					
39 - 388	54	7.48	2180	2.3					
42 - 417	50	6.95	2270	2.2					
50 - 504	42	5.75	2160	2.7	KA	29	DRN	90L4 MM22	28
57 - 569	37	5.10	2100	3.0					
23 - 228	92	12.70	2000	0.85					
24 - 245	86	11.84	1990	0.90					
28 - 281	75	10.32	1980	1.00					
42 - 420	50	6.91	2000	1.60					
45 - 453	46	6.41	1970	1.70					
52 - 523	40	5.54	1910	2.0					
56 - 562	37	5.16	1880	2.1					
64 - 644	33	4.50	1820	2.5					

P_m = 3.0 kW									
n_a min⁻¹	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B				m kg	
1.6 - 16	1730	176.05*	40000	2.5	K	97	DRN	100LS4 MM30	175
1.9 - 19	1510	153.21*	40000	2.8					
2.1 - 21	1380	140.28	40000	3.1					
2.3 - 23	1220	123.93*	40000	3.5					
2.8 - 28	1030	105.13	40000	4.1	KF	97	DRN	100LS4 MM30	175
3.0 - 30	950	96.80	40000	4.5					
3.4 - 34	850	86.52	40000	5.0					
3.7 - 37	765	77.89*	39100	5.6					
2.0 - 20	1450	147.32*	28500	1.85	KA	87	DRN	100LS4 MM30	115
2.3 - 23	1250	126.91*	28600	2.1					
2.5 - 25	1140	115.82	28700	2.4					
2.8 - 28	1010	102.71*	28800	2.7					
3.4 - 34	850	86.34	28900	3.2	KAF	87	DRN	100LS4 MM30	120
3.6 - 37	780	79.34	28700	3.4					
4.1 - 41	695	70.46	28000	3.9					
2.5 - 26	1120	113.56	17800	1.40	K	77	DRN	100LS4 MM30	81
3.0 - 30	950	97.05	18500	1.60					
3.3 - 33	870	88.97	18700	1.75					
3.7 - 37	770	78.07	19100	2.0					
3.9 - 39	730	73.99	19200	2.1					
4.5 - 45	635	64.75	19400	2.4					
5.0 - 50	575	58.34	19500	2.7					
5.7 - 57	505	51.18	19700	3.1					
6.4 - 64	445	45.16	19800	3.5	KF	77	DRN	100LS4 MM30	89
7.2 - 72	395	40.04	19900	3.9					

P _m = 3.0 kW																	
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg								
3.2 - 32	880	90.04	9640	0.90	K KF KA KAF	67 67 67 67	DRN DRN DRN DRN	100LS4 MM30 100LS4 MM30 100LS4 MM30 100LS4 MM30	56 61 53 59	372 373 374 373							
3.8 - 38	750	76.37	10900	1.10													
4.2 - 42	680	68.95	11400	1.20													
4.8 - 48	595	60.66	11900	1.35													
5.1 - 51	565	57.28	12100	1.45													
6.0 - 59	480	48.77	12500	1.70													
6.5 - 65	435	44.32	12700	1.85													
7.5 - 76	375	38.39	12900	2.1													
8.1 - 81	350	35.62	13000	2.3													
9.6 - 96	295	30.22	13000	2.8													
11 - 106	265	27.28	13000	3.0													
12 - 121	235	24.00	13000	3.4													
13 - 128 15 - 150	220 191	22.66 19.30	13000 13000	3.5 4.0	K KF KA KAF	67 67 67 67	DRN DRN DRN DRN	100LS4 MM30 100LS4 MM30 100LS4 MM30 100LS4 MM30	56 61 53 59	372 373 374 373							
	4.8 - 48 5.0 - 51 5.9 - 59 6.5 - 65 7.5 - 75 8.1 - 81 9.6 - 96 11 - 106 12 - 121	600 565 480 435 380 350 295 270 235	60.81* 57.42* 48.89 44.43 38.49 35.70 30.28 27.34 24.05	7180 7190 7180 7140 7060 7000 6850 6750 6600	1.00 1.05 1.25 1.35 1.60 1.70 2.0 2.2 2.5	K KF KA KAF	57 57 57 57	DRN DRN DRN DRN	100LS4 MM30 100LS4 MM30 100LS4 MM30 100LS4 MM30	50 55 48 54	366 367 368 367						
		13 - 128	220	22.71	6540							2.7					
		15 - 150	191	19.34	6340							3.0					
16 - 165		174	17.57	6210	3.2												
19 - 190		150	15.22	6020	3.6												
22 - 219		131	13.25	5830	3.9												
24 - 243		118	11.92	5580	3.5												
26 - 258		111	11.26	5510	3.7												
6.5 - 65 7.6 - 76 8.3 - 83 9.5 - 95 10 - 100 11 - 114 13 - 127 14 - 145 16 - 164 19 - 185 22 - 217		435 375 340 300 285 250 225 198 175 155 132	44.44 37.98 34.81 30.55 28.95 25.34 22.83 20.03 17.67 15.67 13.38	5860 5860 5840 5790 5760 5680 5600 5490 5380 5260 5090	1.15 1.35 1.45 1.65 1.75 2.0 2.2 2.5 2.9 3.2 3.6							K KF KA KAF	49 49 49 49	DRN DRN DRN DRN	100LS4 MM30 100LS4 MM30 100LS4 MM30 100LS4 MM30	55 57 53 58	362 363 364 363
	7.3 - 73	390	39.61	4440	1.00												
	8.2 - 82	345	35.39	4490	1.15												
	11 - 112	255	25.91	4500	1.55												
	13 - 133	215	21.81	4440	1.85												
	15 - 148	193	19.58	4400	2.1												
	17 - 172	167	16.86	4320	2.3												
	18 - 183	157	15.86	4280	2.4												
	21 - 212 24 - 238	135 120	13.65 12.19	4180 4100	2.7 2.9	K KF KA KAF	47 47 47 47	DRN DRN DRN DRN	100LS4 MM30 100LS4 MM30 100LS4 MM30 100LS4 MM30	44 47 43 46	356 357 358 357						
		8.0 - 80 9.4 - 94 10 - 105 12 - 119 13 - 126 15 - 148 16 - 163 19 - 188 22 - 216 27 - 273 32 - 322 36 - 357	355 300 270 240 225 194 176 153 133 105 89 80	36.22 30.72 27.73 24.40 23.04 19.62 17.83 15.44 13.44 10.61 9.00 8.12	4000 4090 4120 4130 4130 4100 4070 4010 3940 4100 3940 3840	0.85 1.00 1.10 1.25 1.30 1.50 1.65 1.85 2.0 2.7 3.4 3.7	K KF KA KAF	39 39 39 39	DRN DRN DRN DRN	100LS4 MM30 100LS4 MM30 100LS4 MM30 100LS4 MM30	43 45 42 44						

P _m = 3.0 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
14 - 144	199	20.19	1950	0.95	K KF KA KAF	37	DRN	100LS4 MM30	37	346
17 - 169	169	17.15	2020	1.05						
19 - 189	151	15.31	2050	1.15						
22 - 222	129	13.08	2080	1.30						
28 - 276	104	10.49	2080	1.55						
33 - 325	88	8.91	2070	1.80						
36 - 364	79	7.96	2050	1.95						
43 - 427	67	6.80	2010	2.2						
46 - 456	63	6.37	1990	2.3	K KF KA KAF	29	DRN	100LS4 MM30	32	339
54 - 541	53	5.36	1940	2.6						
73 - 729	39	3.98	1830	3.2						
18 - 178	161	16.29	2010	0.80						
22 - 215	133	13.47	2050	1.00						
24 - 243	118	11.94	2060	1.10						
32 - 316	91	9.17	2040	1.45						
39 - 388	74	7.48	2000	1.65						
42 - 417	69	6.95	2150	1.65	K KF KA KAF	29	DRN	100LS4 MM30	31	345
50 - 504	57	5.75	2060	1.95						
57 - 569	50	5.10	2010	2.2						
74 - 741	39	3.92	1890	3.3						
91 - 909	32	3.19	1800	3.5						

P _m = 4.0 kW														
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg					
1.6 - 16	2310	176.05*	40000	1.85	K KF KA KAF	97	DRN	100L4 MM40	185	390				
1.9 - 19	2010	153.21*	40000	2.1					205	391				
2.1 - 21	1840	140.28	40000	2.3					165	392				
2.3 - 23	1630	123.93*	40000	2.6					190	391				
2.0 - 20	1940	147.32*	28100	1.40	K KF KA KAF	87	DRN	100L4 MM40	125	384				
2.3 - 23	1670	126.91*	28300	1.60					135	385				
2.5 - 25	1520	115.82	28500	1.75					110	386				
2.8 - 28	1350	102.71*	28600	2.0					125	385				
3.4 - 34	1130	86.34	28100	2.4	K KF KA KAF	87	DRN	100L4 MM40	125	385				
3.6 - 37	1040	79.34	27700	2.6					125	384				
4.1 - 41	920	70.46	27000	2.9					KF	87	DRN	100L4 MM40	135	385
									KA	87	DRN	100L4 MM40	110	386
					KAF	87	DRN	100L4 MM40	125	385				
					K	87	DRN	100L4 MM40	125	385				
2.5 - 26	1490	113.56	15800	1.05	K KF KA KAF	77	DRN	100L4 MM40	88	378				
3.0 - 30	1270	97.05	17000	1.20					96	379				
3.3 - 33	1170	88.97	17600	1.30					80	380				
3.7 - 37	1020	78.07	18200	1.50					88	379				
3.9 - 39	970	73.99	18400	1.60										
4.5 - 45	850	64.75	18800	1.80										
5.0 - 50	765	58.34	19100	2.0										
5.7 - 57	670	51.18	19300	2.3										
6.4 - 64	590	45.16	19500	2.6										
7.2 - 72	525	40.04	19600	2.9										
7.5 - 76	505	38.39	19700	3.0										
4.2 - 42	900	68.95	9440	0.90	K KF KA KAF	67	DRN	100L4 MM40	63	372				
4.8 - 48	795	60.66	10500	1.05					69	373				
5.1 - 51	750	57.28	10900	1.10					60	374				
6.0 - 59	640	48.77	11600	1.30					66	373				
6.5 - 65	580	44.32	12000	1.40										
7.5 - 76	505	38.39	12400	1.60										
8.1 - 81	465	35.62	12500	1.75										
9.6 - 96	395	30.22	12800	2.1										
11 - 106	355	27.28	12900	2.3										
12 - 121	315	24.00	13000	2.5										
13 - 128	295	22.66	13000	2.6										

P _m = 4.0 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
15 - 150	250	19.30	13000	3.0	K	67	DRN	100L4 MM40	63	372
					KF	67	DRN	100L4 MM40	69	373
					KA	67	DRN	100L4 MM40	60	374
					KAF	67	DRN	100L4 MM40	66	373
5.9 - 59	640	48.89	6120	0.95	K KF KA KAF	57 57 57 57	DRN DRN DRN DRN	100L4 MM40 100L4 MM40 100L4 MM40 100L4 MM40	57 62 55 61	366 367 368 367
6.5 - 65	585	44.43	6180	1.05						
7.5 - 75	505	38.49	6230	1.20						
8.1 - 81	470	35.70	6230	1.30						
9.6 - 96	395	30.28	6200	1.50						
11 - 106	360	27.34	6160	1.65						
12 - 121	315	24.05	6090	1.90						
13 - 128	295	22.71	6050	2.0						
15 - 150	250	19.34	5920	2.3						
16 - 165	230	17.57	5840	2.4						
19 - 190	200	15.22	5690	2.7						
22 - 219	174	13.25	5550	2.9						
24 - 243	157	11.92	5290	2.6						
26 - 258	148	11.26	5230	2.8						
30 - 303	126	9.59	5070	3.2						
6.5 - 65	585	44.44	4800	0.85	K KF KA KAF	49 49 49 49	DRN DRN DRN DRN	100L4 MM40 100L4 MM40 100L4 MM40 100L4 MM40	63 64 60 65	362 363 364 363
7.6 - 76	500	37.98	4960	1.00						
8.3 - 83	455	34.81	5010	1.10						
9.5 - 95	400	30.55	5060	1.25						
10 - 100	380	28.95	5070	1.30						
11 - 114	330	25.34	5080	1.50						
13 - 127	300	22.83	5060	1.65						
14 - 145	260	20.03	5020	1.90						
16 - 164	230	17.67	4960	2.1						
19 - 185	205	15.67	4890	2.4						
22 - 217	176	13.38	4780	2.7						
26 - 255	150	11.37	5030	3.3						
28 - 278	137	10.42	4920	3.5						
11 - 112	340	25.91	3850	1.15						
13 - 133	285	21.81	3900	1.40						
15 - 148	255	19.58	3910	1.55						
17 - 172	220	16.86	3890	1.70						
18 - 183	205	15.86	3880	1.80						
21 - 212	180	13.65	3840	2.0						
24 - 238	161	12.19	3790	2.2						
25 - 246	155	11.77	3700	1.80						
27 - 274	139	10.56	3660	2.0						
32 - 319	120	9.10	3580	2.3						
34 - 339	113	8.56	3540	2.4						
39 - 394	97	7.36	3460	2.6						
44 - 441	87	6.58	3380	2.8						
50 - 499	77	5.81	3300	3.0						
63 - 626	61	4.64	3140	3.4						
10 - 105	365	27.73	3330	0.80	K KF KA KAF	39 39 39 39	DRN DRN DRN DRN	100L4 MM40 100L4 MM40 100L4 MM40 100L4 MM40	50 52 49 51	352 353 354 353
12 - 119	320	24.40	3440	0.95						
13 - 126	300	23.04	3480	1.00						
15 - 148	255	19.62	3540	1.15						
16 - 163	230	17.83	3570	1.25						
19 - 188	200	15.44	3580	1.40						
22 - 216	177	13.44	3560	1.55						
27 - 273	140	10.61	3900	2.0						
32 - 322	119	9.00	3770	2.5						
36 - 357	107	8.12	3680	2.8						
41 - 406	94	7.15	3580	3.2						
43 - 430	89	6.75	3530	3.4						
50 - 505	76	5.75	3400	3.6						
56 - 555	69	5.22	3320	3.8						

P_m = 4.0 kW										
n_a min⁻¹	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
17 - 169	225	17.15	1510	0.80						
19 - 189	200	15.31	1600	0.85						
22 - 222	172	13.08	1690	0.95						
28 - 276	138	10.49	1770	1.15	K	37	DRN	100L4 MM40	45	346
33 - 325	117	8.91	1800	1.35	KF	37	DRN	100L4 MM40	47	347
36 - 364	105	7.96	1810	1.50	KA	37	DRN	100L4 MM40	44	348
43 - 427	90	6.80	1810	1.70	KAF	37	DRN	100L4 MM40	46	347
46 - 456	84	6.37	1800	1.75						
54 - 541	71	5.36	1780	2.0						
73 - 729	52	3.98	1710	2.4						

10.2 K..DR..MM.. selection tables [1:5, 280 – 1400 min⁻¹]

P _m = 0.37 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
1.9 - 9.7	365	144.79*	12900	2.2	K	67	DRS	71S4 MM03	36	372
2.3 - 11	310	123.54	13000	2.6	KF	67	DRS	71S4 MM03	42	373
2.6 - 13	270	108.03	13000	3.0	KA	67	DRS	71S4 MM03	34	374
2.7 - 14	255	102.62	13000	3.2	KAF	67	DRS	71S4 MM03	39	373
1.9 - 9.7	365	145.14*	9020	1.65	K	57	DRS	71S4 MM03	31	366
2.3 - 11	310	123.85	9240	1.90	KF	57	DRS	71S4 MM03	35	367
2.6 - 13	270	108.29	9380	2.2	KA	57	DRS	71S4 MM03	28	368
2.7 - 14	255	102.88*	9430	2.3	KAF	57	DRS	71S4 MM03	34	367
3.1 - 16	225	90.26*	9540	2.6						
3.7 - 18	193	76.56*	9650	3.1						
2.1 - 11	330	131.87*	6740	1.20	K	47	DRS	71S4 MM03	25	356
2.3 - 12	305	121.48*	7000	1.30	KF	47	DRS	71S4 MM03	28	357
2.7 - 13	260	104.37	7360	1.50	KA	47	DRS	71S4 MM03	24	358
					KAF	47	DRS	71S4 MM03	27	357
3.1 - 15	225	90.86	7600	1.75	K	47	DRS	71S4 MM03	25	356
3.3 - 16	210	85.12*	7690	1.85	KF	47	DRS	71S4 MM03	28	357
3.7 - 19	190	75.20*	7820	2.1	KA	47	DRS	71S4 MM03	24	358
4.0 - 20	176	69.84	7890	2.3	KAF	47	DRS	71S4 MM03	27	357
4.4 - 22	160	63.30*	7960	2.5						
4.9 - 25	143	56.83	8030	2.8						
4.8 - 24	147	58.24	7500	2.0	K	39	DRS	71S4 MM03	24	352
5.6 - 28	125	49.69	7500	2.4	KF	39	DRS	71S4 MM03	25	353
6.4 - 32	110	43.45	7500	2.7	KA	39	DRS	71S4 MM03	23	354
6.8 - 34	104	41.28	7500	2.9	KAF	39	DRS	71S4 MM03	24	353
7.7 - 39	91	36.22	7500	3.3						
9.1 - 46	78	30.72	7500	3.9						
2.9 - 14	245	97.81	3160	0.80						
3.4 - 17	210	83.69	5110	0.95						
3.9 - 19	183	72.54	5360	1.10						
4.1 - 21	171	67.80	5470	1.15						
4.8 - 24	148	58.60	5490	1.35						
5.6 - 28	126	49.79	5330	1.60						
6.3 - 31	112	44.46	5220	1.80						
7.4 - 37	96	37.97	5040	2.1						
7.9 - 39	90	35.57	4970	2.2						
9.3 - 47	76	29.96	4780	2.6						
9.7 - 49	73	28.83	4740	2.8	K	37	DRS	71S4 MM03	19	346
11 - 56	63	24.99	4570	3.2	KF	37	DRS	71S4 MM03	21	347
12 - 60	59	23.36	4500	3.3	KA	37	DRS	71S4 MM03	18	348
14 - 69	51	20.19	4330	3.6	KAF	37	DRS	71S4 MM03	20	347
16 - 82	43	17.15	4150	4.2						
18 - 91	39	15.31	4020	4.5						
21 - 107	33	13.08	3850	5.0						
23 - 115	31	12.14	3770	5.2						
27 - 133	26	10.49	3610	6.0						
31 - 157	22	8.91	3450	7.1						
35 - 176	20	7.96	3330	7.7						
41 - 206	17	6.80	3180	8.7						
44 - 220	16	6.37	3120	9.0						
52 - 261	14	5.36	2960	10						
5.1 - 26	139	54.89	4950	0.95						
5.6 - 28	127	50.35	4980	1.00						
6.5 - 33	108	42.87	4990	1.20						
7.6 - 38	93	36.96	4850	1.30						
9.3 - 46	76	30.11	4640	1.50						
9.4 - 47	75	29.69	4700	1.75	K	29	DRS	71S4 MM03	13	339
10 - 51	69	27.23	4610	1.90	KF	29	DRS	71S4 MM03	14	343
11 - 56	63	24.91	4440	1.75	KA	29	DRS	71S4 MM03	12	345
12 - 60	59	23.19	4420	2.2	KAF	29	DRS	71S4 MM03	13	343
13 - 63	56	22.08	4310	1.90						
14 - 70	50	19.99	4260	2.6						
17 - 86	41	16.29	4030	3.2						
21 - 104	34	13.47	3820	3.8						

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P_m = 0.37 kW

n_a min ⁻¹	M_a Nm	i	$F_{Ra}^{1)}$ N	SEW f_B					m kg	
9.6 - 48	74	29.29	4040	0.85						
10 - 52	69	27.16	3980	0.90						
12 - 58	61	24.06	4010	1.30						
13 - 64	55	21.98	3930	1.45						
15 - 75	47	18.55	3770	1.70						
18 - 88	40	15.84	3620	2.0						
19 - 95	37	14.69	3550	2.2						
22 - 110	32	12.70	3420	2.5	K	19	DRS	71S4 MM03	11	333
24 - 118	30	11.84	3360	2.6	KF	19	DRS	71S4 MM03	11	336
27 - 136	26	10.32	3230	2.9	KA	19	DRS	71S4 MM03	11	338
29 - 146	24	9.58	3220	2.6	KAF	19	DRS	71S4 MM03	11	336
35 - 173	20	8.09	3060	3.9						
41 - 203	17	6.91	2920	4.6						
44 - 219	16	6.41	2860	5.0						
51 - 253	14	5.54	2730	5.7						
54 - 271	13	5.16	2670	6.1						
62 - 311	11	4.50	2560	7.0						

P_m = 0.55 kW

n_a min ⁻¹	M_a Nm	i	$F_{Ra}^{1)}$ N	SEW f_B					m kg	
1.8 - 9.1	575	154.02	19500	2.7	K	77	DRS	71M4 MM05	64	378
2.1 - 10	505	135.28	19700	3.0	KF	77	DRS	71M4 MM05	72	379
2.2 - 11	480	128.52	19700	3.2	KA	77	DRS	71M4 MM05	56	380
2.5 - 12	425	113.56	19800	3.6	KAF	77	DRS	71M4 MM05	64	379
2.3 - 11	460	123.54	12600	1.75						
2.6 - 13	405	108.03	12800	2.0	K	67	DRS	71M4 MM05	38	372
2.7 - 14	385	102.62	12900	2.1	KF	67	DRS	71M4 MM05	43	373
3.1 - 16	335	90.04	13000	2.4	KA	67	DRS	71M4 MM05	35	374
3.7 - 18	285	76.37	13000	2.9	KAF	67	DRS	71M4 MM05	41	373
4.1 - 20	255	68.95	13000	3.2						
2.3 - 11	460	123.85	8590	1.30						
2.6 - 13	405	108.29	8850	1.50						
2.7 - 14	385	102.88*	8940	1.55						
3.1 - 16	335	90.26*	9140	1.75	K	57	DRS	71M4 MM05	32	366
3.7 - 18	285	76.56*	9330	2.1	KF	57	DRS	71M4 MM05	37	367
4.0 - 20	255	69.12	9430	2.3	KA	57	DRS	71M4 MM05	30	368
4.6 - 23	225	60.81*	9540	2.6	KAF	57	DRS	71M4 MM05	35	367
4.9 - 24	215	57.42*	9580	2.8						
5.7 - 29	183	48.89	9680	3.3						
3.7 - 19	280	75.20	9000	1.70						
4.0 - 20	260	70.19	9000	1.70						
4.7 - 23	225	60.27	9000	2.2	K	49	DRS	71M4 MM05	38	362
5.3 - 26	199	52.94	9000	2.5	KF	49	DRS	71M4 MM05	40	363
5.6 - 28	189	50.29	9000	2.6	KA	49	DRS	71M4 MM05	36	364
6.3 - 32	167	44.44	9000	3.0	KAF	49	DRS	71M4 MM05	40	363
7.4 - 37	142	37.98	9000	3.5						
8.0 - 40	131	34.81	9000	3.8						
2.7 - 13	390	104.37	6040	1.00						
3.1 - 15	340	90.86	6660	1.15	K	47	DRS	71M4 MM05	26	356
3.3 - 16	315	85.12*	6880	1.25	KF	47	DRS	71M4 MM05	29	357
3.7 - 19	280	75.20*	7210	1.40	KA	47	DRS	71M4 MM05	25	358
4.0 - 20	260	69.84	7370	1.55	KAF	47	DRS	71M4 MM05	28	357
4.4 - 22	235	63.30*	7540	1.70						
4.9 - 25	210	56.83	7700	1.90	K	47	DRS	71M4 MM05	26	356
5.7 - 29	184	48.95*	7860	2.2	KF	47	DRS	71M4 MM05	29	357
6.1 - 30	173	46.03*	7910	2.3	KA	47	DRS	71M4 MM05	25	358
7.1 - 35	149	39.61	8010	2.7	KAF	47	DRS	71M4 MM05	28	357

P _m = 0.55 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
4.8 - 24	215	58.24	7500	1.35	K KF KA KAF	39	DRS DRS DRS DRS	71M4 MM05 71M4 MM05 71M4 MM05 71M4 MM05	25	352
5.6 - 28	186	49.69	7500	1.60					26	353
6.4 - 32	163	43.45	7500	1.85					24	354
6.8 - 34	155	41.28	7500	1.95					25	353
7.7 - 39	136	36.22	7500	2.2						
9.1 - 46	115	30.72	7500	2.6						
10 - 50	104	27.73	7360	2.9						
11 - 57	92	24.40	7120	3.3						
12 - 61	86	23.04	7010	3.5						
4.8 - 24	215	58.60	4840	0.90	K KF KA KAF	37	DRS DRS DRS DRS	71M4 MM05 71M4 MM05 71M4 MM05 71M4 MM05	20	346
5.6 - 28	187	49.79	4780	1.05					22	347
6.3 - 31	167	44.46	4720	1.20					20	348
7.4 - 37	142	37.97	4620	1.40					21	347
7.9 - 39	133	35.57	4580	1.50						
9.3 - 47	112	29.96	4440	1.80						
9.7 - 49	108	28.83	4410	1.85						
11 - 56	94	24.99	4290	2.1						
12 - 60	88	23.36	4240	2.2						
14 - 69	76	20.19	4100	2.4						
16 - 82	64	17.15	3950	2.8						
18 - 91	57	15.31	3850	3.0						
21 - 107	49	13.08	3700	3.4						
23 - 115	46	12.14	3630	3.5						
27 - 133	39	10.49	3500	4.1						
31 - 157	33	8.91	3350	4.8						
35 - 176	30	7.96	3240	5.2						
41 - 206	26	6.80	3100	5.9						
44 - 220	24	6.37	3050	6.1						
52 - 261	20	5.36	2900	7.0						
70 - 352	15	3.98	2650	8.4						
6.5 - 33	161	42.87	4470	0.80	K KF KA KAF	29	DRS DRS DRS DRS	71M4 MM05 71M4 MM05 71M4 MM05 71M4 MM05	14	339
7.6 - 38	139	36.96	4390	0.90					15	343
9.3 - 46	113	30.11	4270	1.00					14	345
9.4 - 47	111	29.69	4380	1.15					14	343
10 - 51	102	27.23	4310	1.25						
11 - 56	93	24.91	4130	1.15						
12 - 60	87	23.19	4170	1.50						
13 - 63	83	22.08	4040	1.25						
14 - 70	75	19.99	4040	1.75						
17 - 86	61	16.29	3850	2.1						
21 - 104	51	13.47	3680	2.6						
23 - 117	45	11.94	3570	2.9						
28 - 141	37	9.90	3480	3.0						
31 - 153	34	9.17	3320	3.8						
33 - 164	32	8.53	3340	3.8						
12 - 58	90	24.06	3710	0.90	K KF KA KAF	19	DRS DRS DRS DRS	71M4 MM05 71M4 MM05 71M4 MM05 71M4 MM05	12	333
13 - 64	82	21.98	3650	0.95					13	336
15 - 75	70	18.55	3540	1.15					12	338
18 - 88	59	15.84	3420	1.35					12	336
19 - 95	55	14.69	3370	1.45						
22 - 110	48	12.70	3260	1.70						
24 - 118	44	11.84	3200	1.80						
27 - 136	39	10.32	3100	1.95						
29 - 146	36	9.58	3130	1.75						
35 - 173	30	8.09	2980	2.6						
41 - 203	26	6.91	2850	3.1						
44 - 219	24	6.41	2790	3.3						
51 - 253	21	5.54	2680	3.9						
54 - 271	19	5.16	2620	4.1						
62 - 311	17	4.50	2520	4.7						

P_m = 0.75 kW										
n_a min⁻¹	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
1.4 - 7.1	1000	197.37	28800	2.7	K	87	DRN	80M4 MM07	105	384
1.6 - 8.0	890	174.19	28800	3.0	KF	87	DRN	80M4 MM07	115	385
1.7 - 8.5	840	164.34*	28900	3.2	KA	87	DRN	80M4 MM07	92	386
1.9 - 9.5	750	147.32*	28900	3.6	KAF	87	DRN	80M4 MM07	105	385
1.8 - 9.1	785	154.02	19000	1.95	K	77	DRN	80M4 MM07	68	378
2.1 - 10	690	135.28	19300	2.2	KF	77	DRN	80M4 MM07	77	379
2.2 - 11	655	128.52	19400	2.4	KA	77	DRN	80M4 MM07	61	380
2.5 - 12	580	113.56	19500	2.7	KAF	77	DRN	80M4 MM07	69	379
2.9 - 14	495	97.05	19700	3.1						
2.3 - 11	630	123.54	11700	1.30	K	67	DRN	80M4 MM07	43	372
2.6 - 13	550	108.03	12200	1.50	KF	67	DRN	80M4 MM07	48	373
2.7 - 14	520	102.62	12300	1.55	KA	67	DRN	80M4 MM07	40	374
3.1 - 16	460	90.04	12600	1.80	KAF	67	DRN	80M4 MM07	46	373
3.7 - 18	390	76.37	12800	2.1	K	67	DRN	80M4 MM07	43	372
4.1 - 20	350	68.95	13000	2.3	KF	67	DRN	80M4 MM07	48	373
4.6 - 23	310	60.66	13000	2.6	KA	67	DRN	80M4 MM07	40	374
4.9 - 24	290	57.28	13000	2.8	KAF	67	DRN	80M4 MM07	46	373
5.7 - 29	245	48.77	13000	3.3						
2.3 - 11	630	123.85	7350	0.95						
2.6 - 13	550	108.29	8000	1.10						
2.7 - 14	525	102.88*	8220	1.15						
3.1 - 16	460	90.26*	8600	1.30						
3.7 - 18	390	76.56*	8920	1.55	K	57	DRN	80M4 MM07	37	366
4.0 - 20	350	69.12	9080	1.70	KF	57	DRN	80M4 MM07	41	367
4.6 - 23	310	60.81*	9240	1.95	KA	57	DRN	80M4 MM07	35	368
4.9 - 24	290	57.42*	9310	2.0	KAF	57	DRN	80M4 MM07	40	367
5.7 - 29	250	48.89	9460	2.4						
6.3 - 32	225	44.43	9540	2.6						
7.3 - 36	197	38.49	9640	3.0						
7.8 - 39	183	35.70	9690	3.3						
4.7 - 23	305	60.27	9000	1.60						
5.3 - 26	270	52.94	9000	1.85						
5.6 - 28	255	50.29	9000	1.95	K	49	DRN	80M4 MM07	43	362
6.3 - 32	225	44.44	9000	2.2	KF	49	DRN	80M4 MM07	45	363
7.4 - 37	194	37.98	9000	2.6	KA	49	DRN	80M4 MM07	40	364
8.0 - 40	178	34.81	9000	2.8	KAF	49	DRN	80M4 MM07	45	363
9.2 - 46	156	30.55	9000	3.2						
9.7 - 48	148	28.95	8900	3.4						
11 - 55	130	25.34	8600	3.9						
3.3 - 16	435	85.12*	535	0.90	K	47	DRN	80M4 MM07	31	356
3.7 - 19	380	75.20*	6130	1.05	KF	47	DRN	80M4 MM07	34	357
4.0 - 20	355	69.84	6470	1.10	KA	47	DRN	80M4 MM07	30	358
4.4 - 22	320	63.30*	6830	1.25	KAF	47	DRN	80M4 MM07	33	357
4.9 - 25	290	56.83	7140	1.40						
5.7 - 29	250	48.95*	7460	1.60	K	47	DRN	80M4 MM07	31	356
6.1 - 30	235	46.03*	7560	1.70	KF	47	DRN	80M4 MM07	34	357
7.1 - 35	200	39.61	7760	1.95	KA	47	DRN	80M4 MM07	30	358
7.9 - 40	181	35.39	7740	2.2	KAF	47	DRN	80M4 MM07	33	357
8.9 - 45	160	31.30	7530	2.5						
9.6 - 48	150	29.32	7420	2.7						
5.6 - 28	250	49.69	7500	1.20						
6.4 - 32	220	43.45	7500	1.35						
6.8 - 34	210	41.28	7500	1.40						
7.7 - 39	185	36.22	7430	1.60						
9.1 - 46	157	30.72	7190	1.90	K	39	DRN	80M4 MM07	30	352
10 - 50	142	27.73	7030	2.1	KF	39	DRN	80M4 MM07	31	353
11 - 57	125	24.40	6830	2.4	KA	39	DRN	80M4 MM07	29	354
12 - 61	118	23.04	6740	2.5	KAF	39	DRN	80M4 MM07	30	353
14 - 71	100	19.62	6490	2.9						
16 - 79	91	17.83	6340	3.2						
18 - 91	79	15.44	6110	3.5						
21 - 104	69	13.44	5890	3.9						
22 - 110	65	12.73	5990	3.8						

P_m = 0.75 kW										
n_a min⁻¹	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
6.3 - 31	225	44.46	4170	0.90	K KF KA KAF	37	DRN	80M4 MM07	24	346
7.4 - 37	194	37.97	4150	1.05						
7.9 - 39	182	35.57	4130	1.10						
9.3 - 47	153	29.96	4070	1.30						
9.7 - 49	147	28.83	4060	1.35						
11 - 56	128	24.99	3980	1.55						
12 - 60	119	23.36	3940	1.65						
14 - 69	103	20.19	3850	1.80						
16 - 82	88	17.15	3740	2.0						
18 - 91	78	15.31	3660	2.2						
21 - 107	67	13.08	3540	2.5						
23 - 115	62	12.14	3480	2.6						
27 - 133	54	10.49	3370	3.0						
31 - 157	46	8.91	3240	3.5						
35 - 176	41	7.96	3150	3.8						
41 - 206	35	6.80	3020	4.3						
44 - 220	33	6.37	2970	4.5						
52 - 261	27	5.36	2830	5.1						
70 - 352	20	3.98	2600	6.1						
11 - 56	127	24.91	3790	0.85	K KF KA KAF	29	DRN	80M4 MM07	19	339
12 - 60	119	23.19	3890	1.10						
13 - 63	113	22.08	3740	0.95						
14 - 70	102	19.99	3800	1.25						
17 - 86	83	16.29	3650	1.55						
21 - 104	69	13.47	3510	1.90						
23 - 117	61	11.94	3420	2.1						
28 - 141	51	9.90	3390	2.2						
31 - 153	47	9.17	3210	2.8						
33 - 164	44	8.53	3260	2.8						
37 - 187	38	7.48	3050	3.2	K KF KA KAF	19	DRN	80M4 MM07	17	333
40 - 201	36	6.95	3080	3.1						
49 - 243	29	5.75	2920	3.8						
15 - 75	95	18.55	3280	0.85						
18 - 88	81	15.84	3200	1.00						
19 - 95	75	14.69	3160	1.05						
22 - 110	65	12.70	3080	1.25						
24 - 118	61	11.84	3040	1.30						
27 - 136	53	10.32	2960	1.45						
35 - 173	41	8.09	2900	1.95						
41 - 203	35	6.91	2780	2.3	K KF KA KAF	19	DRN	80M4 MM07	17	336
44 - 219	33	6.41	2720	2.4						
51 - 253	28	5.54	2620	2.8						
54 - 271	26	5.16	2570	3.0						
62 - 311	23	4.50	2470	3.5						

P_m = 1.1 kW										
n_a min⁻¹	M_a Nm	i	F_{Ra}¹⁾ N	SEW f_B					m kg	
1.6 - 8.0	1300	174.19	28600	2.1	K KF KA KAF	87	DRN	90S4 MM11	110	384
1.7 - 8.5	1230	164.34*	28600	2.2						
1.9 - 9.5	1100	147.32*	28700	2.4						
2.2 - 11	950	126.91*	28800	2.8						
2.1 - 10	1010	135.28	18200	1.55	K KF KA KAF	77	DRN	90S4 MM11	73	378
2.2 - 11	960	128.52	18400	1.60						
2.5 - 12	850	113.56	18800	1.80						
2.9 - 14	725	97.05	19200	2.1						
3.1 - 16	665	88.97	19300	2.3	K KF KA KAF	77	DRN	90S4 MM11	82	379
3.6 - 18	585	78.07	19500	2.6						
3.8 - 19	555	73.99	19600	2.8						
3.8 - 19	555	73.99	19600	2.8						

P _m = 1.1 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
2.6 - 13	810	108.03	10400	1.00	K KF KA KAF	67 67 67 67	DRN DRN DRN DRN	90S4 MM11 90S4 MM11 90S4 MM11 90S4 MM11	49	372
2.7 - 14	765	102.62	10700	1.05					54	373
3.1 - 16	675	90.04	11400	1.20					46	374
3.7 - 18	570	76.37	12000	1.45					52	373
4.1 - 20	515	68.95	12300	1.60						
4.6 - 23	455	60.66	12600	1.80	K KF KA KAF	67 67 67 67	DRN DRN DRN DRN	90S4 MM11 90S4 MM11 90S4 MM11 90S4 MM11	49	372
4.9 - 24	425	57.28	12700	1.90					54	373
5.7 - 29	365	48.77	12900	2.2					46	374
6.3 - 32	330	44.32	13000	2.5					52	373
7.3 - 36	285	38.39	13000	2.8						
7.9 - 39	265	35.62	13000	3.1						
3.1 - 16	675	90.26*	2420	0.90	K KF KA KAF	57 57 57 57	DRN DRN DRN DRN	90S4 MM11 90S4 MM11 90S4 MM11 90S4 MM11	43	366
3.7 - 18	570	76.56*	7840	1.05					48	367
4.0 - 20	515	69.12	8280	1.15					41	368
4.6 - 23	455	60.81*	8630	1.30					47	367
4.9 - 24	430	57.42*	8740	1.40						
5.7 - 29	365	48.89	9020	1.65						
6.3 - 32	330	44.43	9160	1.80						
7.3 - 36	285	38.49	9330	2.1	K KF KA KAF	57 57 57 57	DRN DRN DRN DRN	90S4 MM11 90S4 MM11 90S4 MM11 90S4 MM11	43	366
7.8 - 39	265	35.70	9400	2.2					48	367
9.2 - 46	225	30.28	9540	2.6					41	368
10 - 51	205	27.34	9510	2.9					47	367
4.7 - 23	450	60.27	9000	1.10	K KF KA KAF	49 49 49 49	DRN DRN DRN DRN	90S4 MM11 90S4 MM11 90S4 MM11 90S4 MM11	48	362
5.3 - 26	395	52.94	9000	1.25					50	363
5.6 - 28	375	50.29	9000	1.35					45	364
6.3 - 32	330	44.44	9000	1.50					50	363
7.4 - 37	280	37.98	8860	1.75						
8.0 - 40	260	34.81	8720	1.90						
9.2 - 46	225	30.55	8500	2.2						
9.7 - 48	215	28.95	8400	2.3						
11 - 55	190	25.34	8170	2.6						
12 - 61	171	22.83	7980	2.9						
14 - 70	150	20.03	7730	3.3						
16 - 79	133	17.67	7500	3.8						
4.9 - 25	425	56.83	3310	0.95	K KF KA KAF	47 47 47 47	DRN DRN DRN DRN	90S4 MM11 90S4 MM11 90S4 MM11 90S4 MM11	37	356
5.7 - 29	365	48.95*	6350	1.10					40	357
6.1 - 30	345	46.03*	6610	1.15					36	358
									39	357
7.1 - 35	295	39.61	7080	1.35	K KF KA KAF	47 47 47 47	DRN DRN DRN DRN	90S4 MM11 90S4 MM11 90S4 MM11 90S4 MM11	37	356
7.9 - 40	265	35.39	7090	1.50					40	357
8.9 - 45	230	31.30	6960	1.70					36	358
9.6 - 48	220	29.32	6880	1.80					39	357
11 - 54	194	25.91	6730	2.1						
12 - 58	181	24.06	6640	2.2						
13 - 64	164	21.81	6510	2.4						
14 - 72	147	19.58	6360	2.7						
17 - 83	127	16.86	6160	3.0						
18 - 88	119	15.86	6070	3.2						
5.6 - 28	370	49.69	6820	0.80	K KF KA KAF	39 39 39 39	DRN DRN DRN DRN	90S4 MM11 90S4 MM11 90S4 MM11 90S4 MM11	36	352
6.4 - 32	325	43.45	6780	0.90					38	353
6.8 - 34	305	41.28	6760	0.95					35	354
7.7 - 39	270	36.22	6680	1.10					37	353
9.1 - 46	230	30.72	6560	1.30						
10 - 50	205	27.73	6460	1.45						
11 - 57	183	24.40	6330	1.65						
12 - 61	173	23.04	6270	1.75						
14 - 71	147	19.62	6090	2.0						
16 - 79	134	17.83	5970	2.2						
18 - 91	116	15.44	5790	2.4						
21 - 104	101	13.44	5610	2.7						
22 - 110	96	12.73	5820	2.6						
23 - 116	91	12.09	5740	2.8						
26 - 132	80	10.61	5530	3.6						

P _m = 1.1 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
9.3 - 47	220	29.96	3420	0.90	K KF KA KAF	37	DRN	90S4 MM11	30	346
11 - 56	187	24.99	3440	1.05						
12 - 60	175	23.36	3440	1.10						
14 - 69	151	20.19	3420	1.20						
16 - 82	129	17.15	3370	1.40						
18 - 91	115	15.31	3330	1.50						
21 - 107	98	13.08	3260	1.70						
23 - 115	91	12.14	3220	1.75						
27 - 133	79	10.49	3140	2.0						
31 - 157	67	8.91	3040	2.4						
35 - 176	60	7.96	2970	2.6						
41 - 206	51	6.80	2870	2.9						
44 - 220	48	6.37	2830	3.0						
52 - 261	40	5.36	2720	3.5						
70 - 352	30	3.98	2520	4.2						
14 - 70	150	19.99	3370	0.85	K KF KA KAF	29	DRN	90S4 MM11	25	339
17 - 86	122	16.29	3310	1.05						
21 - 104	101	13.47	3230	1.30						
23 - 117	90	11.94	3170	1.45						
28 - 141	74	9.90	3240	1.50						
31 - 153	69	9.17	3020	1.90						
33 - 164	64	8.53	3120	1.90						
37 - 187	56	7.48	2890	2.2						
40 - 201	52	6.95	2970	2.1						
49 - 243	43	5.75	2820	2.6						
55 - 275	38	5.10	2740	2.9						
22 - 110	95	12.70	2770	0.85	K KF KA KAF	19	DRN	90S4 MM11	23	333
24 - 118	89	11.84	2750	0.90						
27 - 136	77	10.32	2700	1.00						
35 - 173	61	8.09	2740	1.30						
41 - 203	52	6.91	2650	1.55						
44 - 219	48	6.41	2600	1.65						
51 - 253	42	5.54	2510	1.90						
54 - 271	39	5.16	2470	2.1						
62 - 311	34	4.50	2380	2.4						

P _m = 1.5 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
1.6 - 8.0	1800	176.05*	40000	2.4	K KF KA KAF	97	DRN	90L4 MM15	170	390
1.8 - 9.1	1560	153.21*	40000	2.7						
2.0 - 10.0	1430	140.28	40000	3.0						
2.3 - 11	1260	123.93*	40000	3.4						
1.6 - 8.0	1780	174.19	28200	1.50	K KF KA KAF	87	DRN	90L4 MM15	110	384
1.7 - 8.5	1680	164.34*	28300	1.60						
1.9 - 9.5	1500	147.32*	28500	1.80						
2.2 - 11	1290	126.91*	28600	2.1						
2.4 - 12	1180	115.82	28700	2.3						
2.7 - 14	1050	102.71*	28800	2.6						
2.1 - 10	1380	135.28	16500	1.10	K KF KA KAF	77	DRN	90L4 MM15	77	378
2.2 - 11	1310	128.52	16800	1.20						
2.5 - 12	1160	113.56	17600	1.35						
2.9 - 14	990	97.05	18300	1.55						
3.1 - 16	910	88.97	18600	1.70						
3.6 - 18	795	78.07	19000	1.95	K KF KA KAF	77	DRN	90L4 MM15	77	378
3.8 - 19	755	73.99	19100	2.0						
4.3 - 22	660	64.75	19400	2.3						
4.8 - 24	595	58.34	19500	2.6						
5.5 - 27	520	51.18	19700	3.0						

P _m = 1.5 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
3.7 - 18	780	76.37	10600	1.05	K KF KA KAF	67 67 67 67	DRN DRN DRN DRN	90L4 MM15 90L4 MM15 90L4 MM15 90L4 MM15	52	372
4.1 - 20	705	68.95	11200	1.15					58	373
4.6 - 23	620	60.66	11800	1.30					49	374
4.9 - 24	585	57.28	12000	1.40					55	373
5.7 - 29	495	48.77	12400	1.65						
6.3 - 32	450	44.32	12600	1.80	K KF KA KAF	67 67 67 67	DRN DRN DRN DRN	90L4 MM15 90L4 MM15 90L4 MM15 90L4 MM15	52	372
7.3 - 36	390	38.39	12800	2.0					58	373
7.9 - 39	360	35.62	12900	2.2					49	374
9.3 - 46	305	30.22	13000	2.6					55	373
10 - 51	275	27.28	13000	2.9						
12 - 58	245	24.00	13000	3.3						
4.6 - 23	620	60.81*	7450	0.95	K KF KA KAF	57 57 57 57	DRN DRN DRN DRN	90L4 MM15 90L4 MM15 90L4 MM15 90L4 MM15	46	366
4.9 - 24	585	57.42*	7730	1.00					51	367
5.7 - 29	500	48.89	8420	1.20					44	368
6.3 - 32	450	44.43	8640	1.30					50	367
7.3 - 36	390	38.49	8910	1.50	K KF KA KAF	57 57 57 57	DRN DRN DRN DRN	90L4 MM15 90L4 MM15 90L4 MM15 90L4 MM15	46	366
7.8 - 39	365	35.70	9030	1.65					51	367
9.2 - 46	305	30.28	9200	1.95					44	368
10 - 51	275	27.34	9020	2.1					50	367
12 - 58	245	24.05	8790	2.4						
12 - 62	230	22.71	8680	2.6						
14 - 72	198	19.34	8380	2.9						
16 - 80	180	17.57	8190	3.1						
5.3 - 26	540	52.94	8290	0.90	K KF KA KAF	49 49 49 49	DRN DRN DRN DRN	90L4 MM15 90L4 MM15 90L4 MM15 90L4 MM15	51	362
5.6 - 28	510	50.29	8280	0.95					53	363
6.3 - 32	450	44.44	8220	1.10					48	364
7.4 - 37	385	37.98	8110	1.30					53	363
8.0 - 40	355	34.81	8040	1.40						
9.2 - 46	310	30.55	7900	1.60						
9.7 - 48	295	28.95	7840	1.70						
11 - 55	255	25.34	7670	1.95						
12 - 61	230	22.83	7530	2.1						
14 - 70	200	20.03	7340	2.4						
16 - 79	181	17.67	7150	2.8						
18 - 89	160	15.67	6970	3.1						
21 - 105	137	13.38	6720	3.4						
7.1 - 35	405	39.61	5850	1.00	K KF KA KAF	47 47 47 47	DRN DRN DRN DRN	90L4 MM15 90L4 MM15 90L4 MM15 90L4 MM15	40	356
7.9 - 40	360	35.39	6360	1.10					44	357
8.9 - 45	320	31.30	6310	1.25					39	358
									42	357
9.6 - 48	300	29.32	6280	1.35	K KF KA KAF	47 47 47 47	DRN DRN DRN DRN	90L4 MM15 90L4 MM15 90L4 MM15 90L4 MM15	40	356
11 - 54	265	25.91	6200	1.50					44	357
12 - 58	245	24.06	6140	1.60					39	358
13 - 64	220	21.81	6060	1.80					42	357
14 - 72	200	19.58	5960	2.0						
17 - 83	173	16.86	5800	2.2						
18 - 88	162	15.86	5740	2.3						
21 - 103	140	13.65	5570	2.6						
23 - 115	125	12.19	5440	2.8						
24 - 119	120	11.77	5340	2.3						
26 - 133	108	10.56	5220	2.6						
31 - 154	93	9.10	5040	3.0						
7.7 - 39	370	36.22	5830	0.80	K KF KA KAF	39 39 39 39	DRN DRN DRN DRN	90L4 MM15 90L4 MM15 90L4 MM15 90L4 MM15	39	352
9.1 - 46	310	30.72	5840	0.95					41	353
10 - 50	280	27.73	5810	1.05					38	354
11 - 57	245	24.40	5760	1.20					40	353
12 - 61	235	23.04	5730	1.25						
14 - 71	200	19.62	5630	1.45						
16 - 79	182	17.83	5550	1.60						
18 - 91	158	15.44	5430	1.75						
21 - 104	138	13.44	5300	1.95						
22 - 110	130	12.73	5620	1.90						
23 - 116	124	12.09	5550	2.1						
26 - 132	109	10.61	5370	2.6						
31 - 156	92	9.00	5140	3.3						
34 - 172	83	8.12	5000	3.6						

P _m = 1.5 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
12 - 60	235	23.36	2860	0.80	K KF KA KAF	37	DRN	90L4 MM15	33	346
14 - 69	205	20.19	2910	0.90						
16 - 82	176	17.15	2940	1.05						
18 - 91	157	15.31	2950	1.10						
21 - 107	134	13.08	2930	1.25						
23 - 115	124	12.14	2920	1.30						
27 - 133	107	10.49	2880	1.50						
31 - 157	91	8.91	2820	1.75						
35 - 176	81	7.96	2780	1.90						
41 - 206	70	6.80	2700	2.2						
44 - 220	65	6.37	2670	2.2						
52 - 261	55	5.36	2580	2.5						
70 - 352	41	3.98	2420	3.1						
21 - 104	138	13.47	2900	0.95	K KF KA KAF	29	DRN	90L4 MM15	28	339
23 - 117	122	11.94	2880	1.05						
31 - 153	94	9.17	2790	1.40						
33 - 164	87	8.53	2970	1.40						
37 - 187	77	7.48	2710	1.60						
40 - 201	71	6.95	2840	1.55						
49 - 243	59	5.75	2720	1.90						
55 - 275	52	5.10	2640	2.1						
72 - 358	40	3.92	2470	3.1						
88 - 439	33	3.19	2340	3.4						
41 - 203	71	6.91	2500	1.15	K KF KA KAF	19	DRN	90L4 MM15	26	333
44 - 219	66	6.41	2460	1.20						
51 - 253	57	5.54	2390	1.40						
54 - 271	53	5.16	2360	1.50						
62 - 311	46	4.50	2280	1.75						

P _m = 2.2 kW												
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg			
1.6 - 8.0	2640	176.05*	40000	1.65	K KF KA KAF	97	DRN	100LS4 MM22	175	390		
1.8 - 9.1	2290	153.21*	40000	1.85					195	391		
2.0 - 10.0	2100	140.28	40000	2.0					160	392		
2.3 - 11	1850	123.93*	40000	2.3					185	391		
2.7 - 13	1570	105.13	40000	2.7	K KF KA KAF	97	DRN	100LS4 MM22	175	390		
2.9 - 14	1450	96.80	40000	3.0					195	391		
3.2 - 16	1290	86.52	40000	3.3					160	392		
3.6 - 18	1160	77.89*	40000	3.7					185	391		
1.9 - 9.5	2210	147.32*	27800	1.20	K KF KA KAF	87	DRN	100LS4 MM22	115	384		
2.2 - 11	1900	126.91*	28100	1.40					125	385		
2.4 - 12	1730	115.82	28300	1.55					105	386		
									120	385		
2.7 - 14	1540	102.71*	28400	1.75	K KF KA KAF	87	DRN	100LS4 MM22	115	384		
3.2 - 16	1290	86.34	28600	2.1							125	385
3.5 - 18	1190	79.34	28700	2.3							105	386
4.0 - 20	1050	70.46	28800	2.5							120	385
4.4 - 22	940	63.00*	28800	2.9								
4.9 - 25	840	56.64	28900	3.2								
2.5 - 12	1700	113.56	14200	0.90	K KF KA KAF	77	DRN	100LS4 MM22	81	378		
2.9 - 14	1450	97.05	16000	1.05							89	379
3.1 - 16	1330	88.97	16700	1.15							73	380
3.6 - 18	1170	78.07	17600	1.30							81	379
3.8 - 19	1110	73.99	17900	1.40								
4.3 - 22	970	64.75	18400	1.60								
4.8 - 24	870	58.34	18800	1.75	K KF KA KAF	77	DRN	100LS4 MM22	81	378		
5.5 - 27	765	51.18	19100	2.0							89	379
6.2 - 31	675	45.16	19300	2.3							73	380
7.0 - 35	600	40.04	19500	2.6							81	379
7.3 - 36	575	38.39	19500	2.6								
8.0 - 40	525	35.20	19600	2.9								

P _m = 2.2 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
4.6 - 23	910	60.66	9410	0.90	K KF KA KAF	67	DRN	100LS4 MM22	56	372
4.9 - 24	850	57.28	9940	0.95						
5.7 - 29	730	48.77	11000	1.10						
6.3 - 32	665	44.32	11500	1.25						
7.3 - 36	575	38.39	12000	1.40						
7.9 - 39	530	35.62	12200	1.55	K KF KA KAF	67	DRN	100LS4 MM22	53	374
9.3 - 46	450	30.22	12600	1.80						
10 - 51	405	27.28	12800	2.0						
12 - 58	360	24.00	12900	2.2						
12 - 62	335	22.66	13000	2.3						
15 - 73	285	19.30	13000	2.6	K KF KA KAF	67	DRN	100LS4 MM22	61	373
16 - 80	260	17.54	13000	2.8						
18 - 92	225	15.19	13000	3.1						
21 - 106	198	13.22	13000	3.4						
22 - 112	187	12.48	13000	2.8						
26 - 132	159	10.63	13000	3.1	K KF KA KAF	67	DRN	100LS4 MM22	59	373
6.3 - 32	665	44.43	4450	0.90						
7.3 - 36	575	38.49	7810	1.05						
7.8 - 39	535	35.70	8140	1.10						
9.2 - 46	450	30.28	8260	1.30						
10 - 51	410	27.34	8170	1.45	K KF KA KAF	57	DRN	100LS4 MM22	50	366
12 - 58	360	24.05	8040	1.65						
12 - 62	340	22.71	7980	1.75						
14 - 72	290	19.34	7770	2.0						
16 - 80	260	17.57	7640	2.1						
18 - 92	225	15.22	7440	2.3	K KF KA KAF	57	DRN	100LS4 MM22	55	367
21 - 106	199	13.25	7230	2.6						
23 - 117	179	11.92	6900	2.3						
25 - 124	169	11.26	6820	2.5						
29 - 146	144	9.59	6590	2.8						
32 - 161	131	8.71	6440	3.0	K KF KA KAF	49	DRN	100LS4 MM22	54	367
7.4 - 37	565	37.98	6810	0.90						
8.0 - 40	520	34.81	6840	0.95						
9.2 - 46	455	30.55	6850	1.10						
9.7 - 48	430	28.95	6840	1.15						
11 - 55	380	25.34	6800	1.30	K KF KA KAF	49	DRN	100LS4 MM22	55	362
12 - 61	340	22.83	6740	1.45						
14 - 70	300	20.03	6650	1.65						
16 - 79	265	17.67	6550	1.90						
18 - 89	235	15.67	6430	2.1						
21 - 105	200	13.38	6260	2.3	K KF KA KAF	49	DRN	100LS4 MM22	53	364
25 - 123	171	11.37	6510	2.9						
27 - 134	156	10.42	6360	3.1						
31 - 153	137	9.14	6150	3.6						
32 - 162	130	8.66	6060	3.9						
11 - 54	385	25.91	5250	1.05	K KF KA KAF	47	DRN	100LS4 MM22	44	356
13 - 64	325	21.81	5260	1.20						
14 - 72	290	19.58	5240	1.35						
17 - 83	250	16.86	5190	1.50						
18 - 88	235	15.86	5160	1.60						
21 - 103	200	13.65	5080	1.75	K KF KA KAF	47	DRN	100LS4 MM22	47	357
23 - 115	183	12.19	5000	1.90						
24 - 119	177	11.77	4890	1.60						
26 - 133	159	10.56	4810	1.75						
31 - 154	137	9.10	4700	2.0						
33 - 164	128	8.56	4640	2.1	K KF KA KAF	47	DRN	100LS4 MM22	43	358
38 - 190	110	7.36	4510	2.3						
43 - 213	99	6.58	4410	2.4						
48 - 241	87	5.81	4290	2.6						
60 - 302	70	4.64	4070	3.0						

P_m = 2.2 kW

n_a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
11 - 57	365	24.40	4760	0.80	K KF KA KAF	39	DRN	100LS4 MM22	43	352
12 - 61	345	23.04	4780	0.85						
14 - 71	290	19.62	4820	1.00						
16 - 79	265	17.83	4820	1.10						
18 - 91	230	15.44	4800	1.20						
21 - 104	200	13.44	4750	1.35						
26 - 132	159	10.61	5080	1.80						
31 - 156	135	9.00	4900	2.2						
34 - 172	122	8.12	4780	2.5						
39 - 196	107	7.15	4640	2.8						
41 - 207	101	6.75	4570	3.0						
49 - 244	86	5.75	4390	3.2	K KF KA KAF	37	DRN	100LS4 MM22	37	346
54 - 268	78	5.22	4280	3.3						
62 - 309	68	4.52	4120	3.5						
71 - 356	59	3.94	3970	3.6						
21 - 107	196	13.08	2360	0.85						
27 - 133	157	10.49	2430	1.00						
31 - 157	134	8.91	2440	1.20						
35 - 176	119	7.96	2430	1.30						
41 - 206	102	6.80	2410	1.45						
44 - 220	96	6.37	2400	1.50						
52 - 261	80	5.36	2350	1.75						
70 - 352	60	3.98	2250	2.1	K KF KA KAF	29	DRN	100LS4 MM22	32	339
31 - 153	138	9.17	2400	0.95						
37 - 187	112	7.48	2390	1.10						
40 - 201	104	6.95	2630	1.05						
49 - 243	86	5.75	2540	1.30						
55 - 275	76	5.10	2480	1.45						
72 - 358	59	3.92	2350	2.1						
88 - 439	48	3.19	2240	2.3						

P_m = 3.0 kW

n_a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
1.9 - 9.8	2930	143.47*	65000	2.7	K	107	DRN	100L4 MM30	300	396
2.3 - 12	2480	121.46	65000	3.2	KF	107	DRN	100L4 MM30	310	397
2.5 - 12	2300	112.41*	65000	3.5	KA	107	DRN	100L4 MM30	270	398
2.8 - 14	2060	100.75	65000	3.9	KAF	107	DRN	100L4 MM30	295	397
1.6 - 8.0	3600	176.05*	40000	1.20	K	97	DRN	100L4 MM30	185	390
1.8 - 9.1	3130	153.21*	40000	1.35	KF	97	DRN	100L4 MM30	205	391
2.0 - 10.0	2870	140.28	40000	1.50	KA	97	DRN	100L4 MM30	165	392
2.3 - 11	2530	123.93*	40000	1.70	KAF	97	DRN	100L4 MM30	190	391
2.7 - 13	2150	105.13	40000	2.0	K	97	DRN	100L4 MM30	185	390
2.9 - 14	1980	96.80	40000	2.2	KF	97	DRN	100L4 MM30	205	391
3.2 - 16	1770	86.52	40000	2.4	KA	97	DRN	100L4 MM30	165	392
3.6 - 18	1590	77.89*	40000	2.7	KAF	97	DRN	100L4 MM30	190	391
1.9 - 9.5	3010	147.32*	26900	0.90	K	87	DRN	100L4 MM30	125	384
2.2 - 11	2590	126.91*	27400	1.05	KF	87	DRN	100L4 MM30	135	385
2.4 - 12	2360	115.82	27700	1.15	KA	87	DRN	100L4 MM30	110	386
2.7 - 14	2100	102.71*	28000	1.30	KAF	87	DRN	100L4 MM30	125	385
3.2 - 16	1760	86.34	28300	1.55	K KF KA KAF	87	DRN	100L4 MM30	125	384
3.5 - 18	1620	79.34	28400	1.65						
4.0 - 20	1440	70.46	28500	1.85						
4.4 - 22	1280	63.00*	28600	2.1						
4.9 - 25	1150	56.64	28700	2.3						
5.7 - 28	1000	49.16	28800	2.7						
3.1 - 16	1820	88.97	13100	0.85	K KF KA KAF	77	DRN	100L4 MM30	88	378
3.6 - 18	1590	78.07	15000	0.95						
3.8 - 19	1510	73.99	15600	1.00						
4.3 - 22	1320	64.75	16800	1.15						
4.8 - 24	1190	58.34	17500	1.30						
5.5 - 27	1040	51.18	18100	1.50						

P _m = 3.0 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
6.2 - 31	920	45.16	18600	1.70	K KF KA KAF	77 77 77 77	DRN DRN DRN DRN	100L4 MM30 100L4 MM30 100L4 MM30 100L4 MM30	88 96 80 88	378 379 380 379
7.0 - 35	810	40.04	18900	1.90						
7.3 - 36	785	38.39	19000	1.90						
8.0 - 40	720	35.20	19200	2.1						
9.1 - 45	630	30.89	19400	2.5						
9.6 - 48	595	29.27	19500	2.6						
11 - 55	520	25.62	19600	3.0						
6.3 - 32	900	44.32	9450	0.90	K KF KA KAF	67 67 67 67	DRN DRN DRN DRN	100L4 MM30 100L4 MM30 100L4 MM30 100L4 MM30	63 69 60 66	372 373 374 373
7.3 - 36	785	38.39	10600	1.00						
7.9 - 39	725	35.62	11100	1.15						
9.3 - 46	615	30.22	11800	1.35						
10 - 51	555	27.28	12100	1.45						
12 - 58	490	24.00	12400	1.65						
12 - 62	460	22.66	12600	1.70	K KF KA KAF	67 67 67 67	DRN DRN DRN DRN	100L4 MM30 100L4 MM30 100L4 MM30 100L4 MM30	63 69 60 66	372 373 374 373
15 - 73	390	19.30	12800	1.95						
16 - 80	355	17.54	12900	2.1						
18 - 92	310	15.19	13000	2.2						
21 - 106	270	13.22	13000	2.5						
22 - 112	255	12.48	13000	2.1						
26 - 132	215	10.63	13000	2.3						
29 - 145	198	9.66	13000	2.4						
33 - 167	171	8.37	12900	2.6						
38 - 192	149	7.28	12500	2.8						
54 - 269	106	5.20	11500	3.3						
9.2 - 46	615	30.28	7180	0.95	K KF KA KAF	57 57 57 57	DRN DRN DRN DRN	100L4 MM30 100L4 MM30 100L4 MM30 100L4 MM30	57 62 55 61	366 367 368 367
10 - 51	555	27.34	7190	1.05						
12 - 58	490	24.05	7180	1.20						
12 - 62	460	22.71	7160	1.30						
14 - 72	395	19.34	7080	1.45	K KF KA KAF	57 57 57 57	DRN DRN DRN DRN	100L4 MM30 100L4 MM30 100L4 MM30 100L4 MM30	57 62 55 61	366 367 368 367
16 - 80	355	17.57	7020	1.55						
18 - 92	310	15.22	6890	1.70						
21 - 106	270	13.25	6750	1.90						
23 - 117	240	11.92	6420	1.70						
25 - 124	230	11.26	6360	1.80						
29 - 146	196	9.59	6200	2.1						
32 - 161	178	8.71	6090	2.2						
37 - 186	154	7.55	5920	2.4						
43 - 213	134	6.57	5750	2.6						
60 - 298	96	4.69	5320	3.1						
9.2 - 46	625	30.55	5650	0.80	K KF KA KAF	49 49 49 49	DRN DRN DRN DRN	100L4 MM30 100L4 MM30 100L4 MM30 100L4 MM30	63 64 60 65	362 363 364 363
9.7 - 48	590	28.95	5700	0.85						
11 - 55	515	25.34	5800	0.95						
12 - 61	465	22.83	5840	1.05						
14 - 70	405	20.03	5860	1.20						
16 - 79	360	17.67	5850	1.40						
18 - 89	320	15.67	5820	1.55						
21 - 105	270	13.38	5740	1.70						
25 - 123	230	11.37	6220	2.1						
27 - 134	210	10.42	6100	2.2						
31 - 153	187	9.14	5920	2.7						
32 - 162	177	8.66	5840	2.8						
37 - 185	155	7.58	5660	3.2						
41 - 205	140	6.83	5510	3.6						
14 - 72	400	19.58	4430	1.00						
17 - 83	345	16.86	4490	1.10						
18 - 88	320	15.86	4500	1.15						
14 - 72	400	19.58	4430	1.00						

P_m = 3.0 kW

n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
21 - 103	275	13.65	4510	1.30	K KF KA KAF	47	DRN	100L4 MM30	51	356
23 - 115	245	12.19	4490	1.40						
24 - 119	240	11.77	4370	1.15						
26 - 133	215	10.56	4350	1.30						
31 - 154	186	9.10	4290	1.50						
33 - 164	175	8.56	4270	1.55						
38 - 190	151	7.36	4190	1.65						
43 - 213	135	6.58	4120	1.80	K KF KA KAF	39	DRN	100L4 MM30	50	358
48 - 241	119	5.81	4030	1.95						
60 - 302	95	4.64	3860	2.2						
18 - 91	315	15.44	4070	0.90						
21 - 104	275	13.44	4120	1.00						
26 - 132	215	10.61	4740	1.30						
31 - 156	184	9.00	4610	1.65						
34 - 172	166	8.12	4530	1.80	K KF KA KAF	37	DRN	100L4 MM30	45	346
39 - 196	146	7.15	4410	2.0						
41 - 207	138	6.75	4360	2.2						
49 - 244	118	5.75	4210	2.3						
54 - 268	107	5.22	4120	2.4						
62 - 309	93	4.52	3980	2.6						
71 - 356	81	3.94	3840	2.7						
100 - 498	58	2.81	3520	3.0	K KF KA KAF	37	DRN	100L4 MM30	47	347
31 - 157	182	8.91	2000	0.90						
35 - 176	163	7.96	2040	0.95						
41 - 206	139	6.80	2080	1.10						
44 - 220	130	6.37	2080	1.10						
52 - 261	110	5.36	2090	1.30						
70 - 352	81	3.98	2050	1.55						

P_m = 4.0 kW

n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
1.9 - 9.8	3910	143.47*	65000	2.0	K KF KA KAF	107	DRN	112M4 MM40	305	396
2.3 - 12	3310	121.46	65000	2.4						
2.5 - 12	3060	112.41*	65000	2.6						
2.8 - 14	2740	100.75	65000	2.9						
3.1 - 15	2480	90.96*	65000	3.2						
3.4 - 17	2250	82.61	65000	3.5						
1.8 - 9.1	4180	153.21*	40000	1.05	K KF KA KAF	97	DRN	112M4 MM40	190	390
2.0 - 10.0	3820	140.28	40000	1.10						
2.3 - 11	3380	123.93*	40000	1.25						
2.7 - 13	2860	105.13	40000	1.50						
2.9 - 14	2640	96.80	40000	1.65						
3.2 - 16	2360	86.52	40000	1.80						
3.6 - 18	2120	77.89*	40000	2.0						
4.0 - 20	1920	70.54	40000	2.2	K KF KA KAF	87	DRN	112M4 MM40	135	384
4.5 - 22	1700	62.55	40000	2.5						
5.0 - 25	1540	56.55	40000	2.8						
5.8 - 29	1300	47.93*	40000	3.3						
2.4 - 12	3150	115.82	26700	0.85						
2.7 - 14	2800	102.71*	27200	0.95						
3.2 - 16	2350	86.34	27700	1.15						
3.5 - 18	2160	79.34	27900	1.25	K KF KA KAF	87	DRN	112M4 MM40	140	385
4.0 - 20	1920	70.46	28100	1.40						
4.4 - 22	1710	63.00*	28300	1.55						
4.9 - 25	1540	56.64	28400	1.75						
5.7 - 28	1340	49.16	28600	2.0						
6.4 - 32	1200	44.02	28400	2.2						
7.7 - 38	990	36.52*	27400	2.5						
8.9 - 45	850	31.39	26600	3.1						

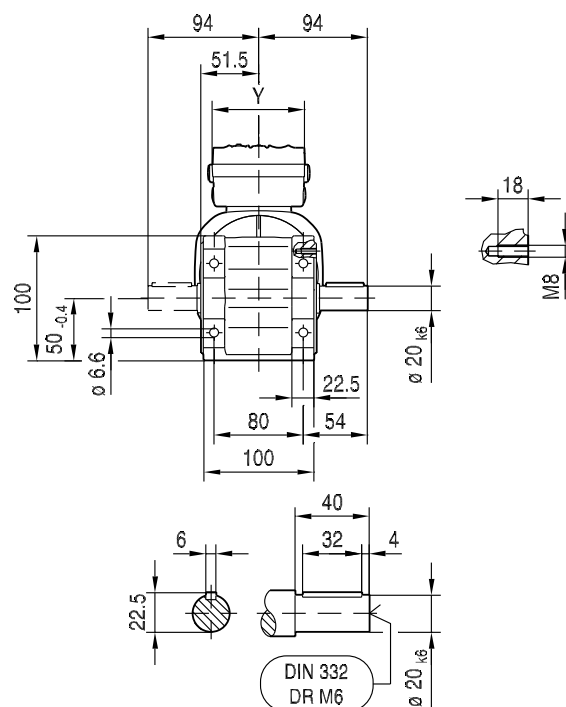
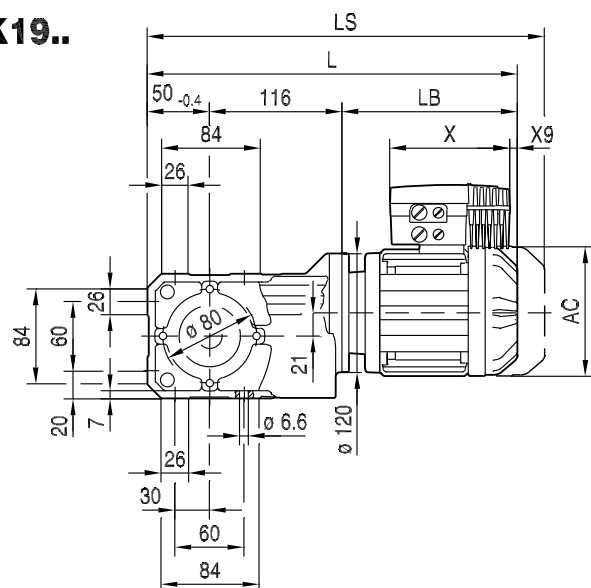
P _m = 4.0 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
4.3 - 22	1760	64.75	13600	0.90	K KF KA KAF	77	DRN	112M4 MM40	97	378
4.8 - 24	1590	58.34	15100	0.95					105	379
5.5 - 27	1390	51.18	16400	1.10					90	380
6.2 - 31	1230	45.16	17300	1.25					98	379
7.0 - 35	1090	40.04	17900	1.40						
7.3 - 36	1040	38.39	18100	1.45						
8.0 - 40	960	35.20	18500	1.60	K KF KA KAF	77	DRN	112M4 MM40	97	378
9.1 - 45	840	30.89	18900	1.85					105	379
9.6 - 48	795	29.27	19000	1.95					90	380
11 - 55	695	25.62	19300	2.2					98	379
12 - 61	625	23.08	19400	2.5						
14 - 69	550	20.25	19600	2.7						
16 - 78	485	17.87	19700	3.0						
18 - 88	430	15.84	19800	3.2						
21 - 104	365	13.52	19300	3.6						
23 - 113	335	12.36	18700	3.0						
9.3 - 46	820	30.22	10300	1.00	K KF KA KAF	67	DRN	112M4 MM40	72	372
10 - 51	740	27.28	10900	1.10					78	373
12 - 58	650	24.00	11600	1.20					70	374
12 - 62	615	22.66	11800	1.25					76	373
15 - 73	525	19.30	12300	1.45	K KF KA KAF	67	DRN	112M4 MM40	72	372
16 - 80	475	17.54	12500	1.55					78	373
18 - 92	410	15.19	12800	1.70					70	374
21 - 106	360	13.22	12900	1.85					76	373
22 - 112	340	12.48	13000	1.55						
26 - 132	285	10.63	13000	1.70						
29 - 145	260	9.66	12900	1.80						
33 - 167	225	8.37	12500	1.95						
38 - 192	199	7.28	12200	2.1						
54 - 269	142	5.20	11300	2.5						
12 - 58	655	24.05	5790	0.90	K KF KA KAF	57	DRN	112M4 MM40	67	366
12 - 62	615	22.71	6150	0.95					71	367
14 - 72	525	19.34	6220	1.10					65	368
16 - 80	475	17.57	6230	1.15					70	367
18 - 92	415	15.22	6210	1.30						
21 - 106	360	13.25	6160	1.40						
23 - 117	325	11.92	5820	1.30						
25 - 124	305	11.26	5800	1.35						
29 - 146	260	9.59	5710	1.55						
32 - 161	235	8.71	5650	1.65						
37 - 186	205	7.55	5540	1.75						
43 - 213	179	6.57	5420	1.95						
60 - 298	128	4.69	5080	2.3						
12 - 61	620	22.83	4720	0.80					K KF KA KAF	49
14 - 70	545	20.03	4880	0.90	73	363				
16 - 79	480	17.67	4980	1.05	69	364				
18 - 89	425	15.67	5040	1.15	74	363				
21 - 105	360	13.38	5080	1.30						
25 - 123	310	11.37	5860	1.60						
27 - 134	280	10.42	5770	1.70						
31 - 153	245	9.14	5630	2.0						
32 - 162	235	8.66	5570	2.1						
37 - 185	205	7.58	5420	2.4						
41 - 205	186	6.83	5290	2.7						
47 - 234	163	5.99	5140	3.1						
53 - 265	144	5.29	4990	3.4						
60 - 299	128	4.69	4840	3.6						

P _m = 4.0 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
18 - 88	430	15.86	1890	0.90	K KF KA KAF	47	DRN	112M4 MM40	61	356
21 - 103	370	13.65	3800	0.95						
23 - 115	330	12.19	3860	1.05						
24 - 119	320	11.77	3720	0.85						
26 - 133	285	10.56	3770	0.95						
31 - 154	245	9.10	3790	1.15						
33 - 164	230	8.56	3800	1.15						
38 - 190	200	7.36	3780	1.25						
43 - 213	180	6.58	3750	1.35						
48 - 241	159	5.81	3710	1.45						
60 - 302	126	4.64	3610	1.60						
31 - 156	245	9.00	4260	1.20	K KF KA KAF	39	DRN	112M4 MM40	60	352
34 - 172	220	8.12	4210	1.35						
39 - 196	195	7.15	4130	1.55						
41 - 207	184	6.75	4100	1.65						
49 - 244	157	5.75	3980	1.75						
54 - 268	143	5.22	3910	1.80						
62 - 309	123	4.52	3800	1.95						
71 - 356	107	3.94	3690	2.0						
100 - 498	77	2.81	3410	2.2						

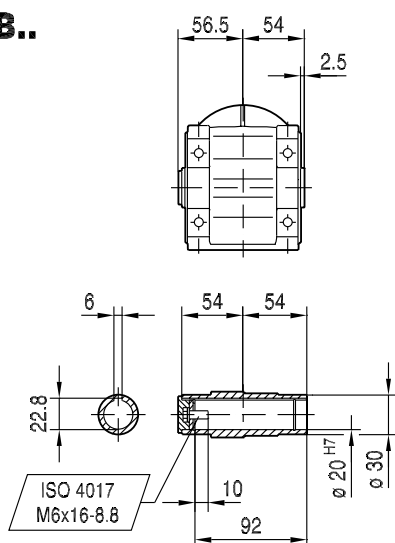
10.3 K..DR..MM.. dimension sheets in mm

33 095 00 16

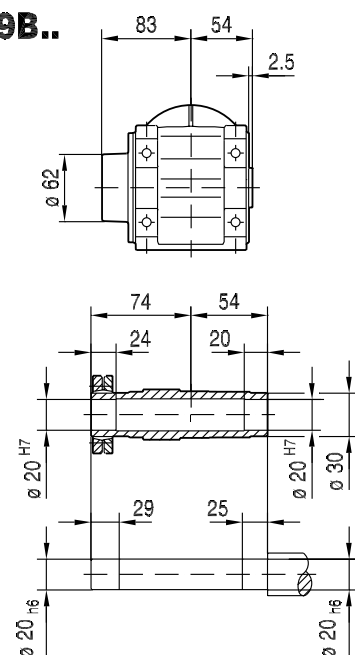
K19..



KA19B..



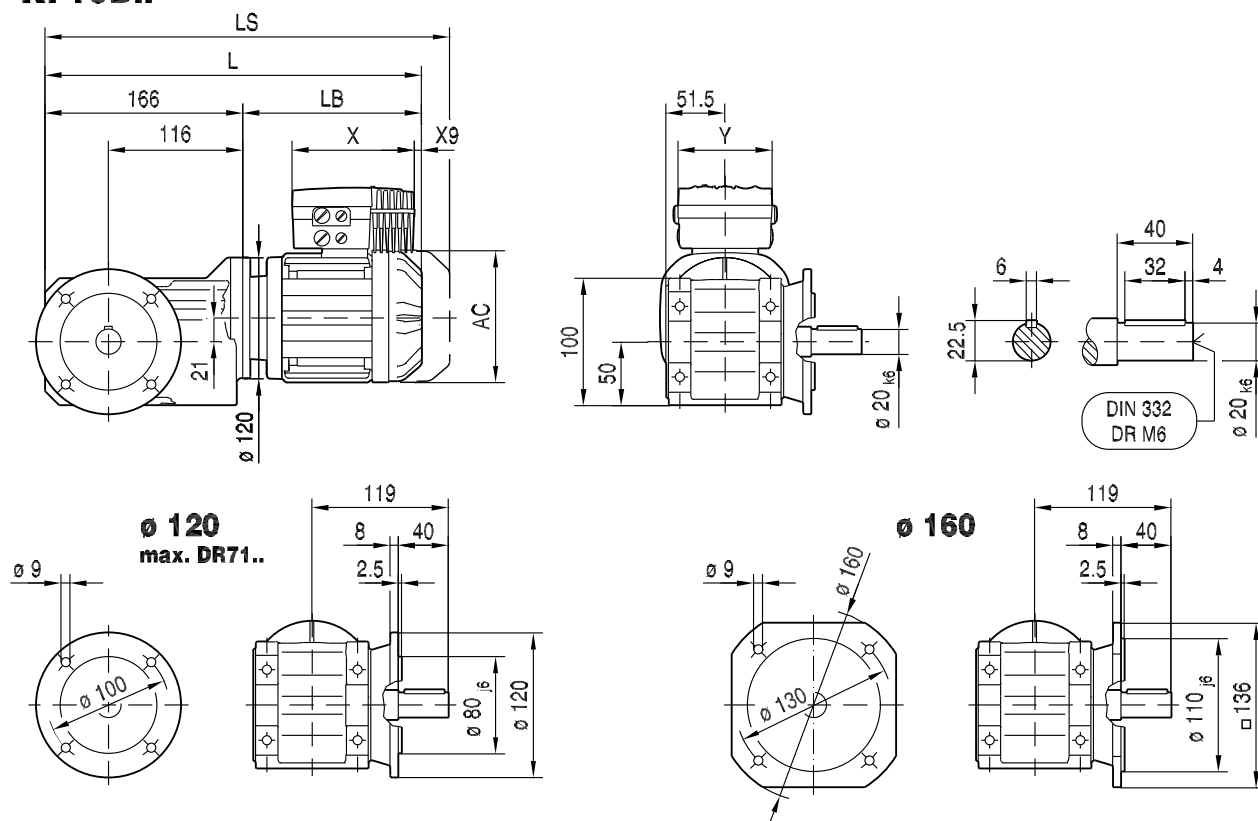
KH19B..



(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	
AC	139	139	156	179	179	179	179	
AD	185	185	197	208	208	208	208	
L	368	393	448	449	449	481	481	
LS	436	461	529	543	543	575	575	
LB	202	227	282	283	283	315	315	
X	182	182	182	182	228	182	228	
X9	-14	-14	-7	-1	-16	-1	-16	
Y	148	148	148	148	186	148	186	

KF19B..

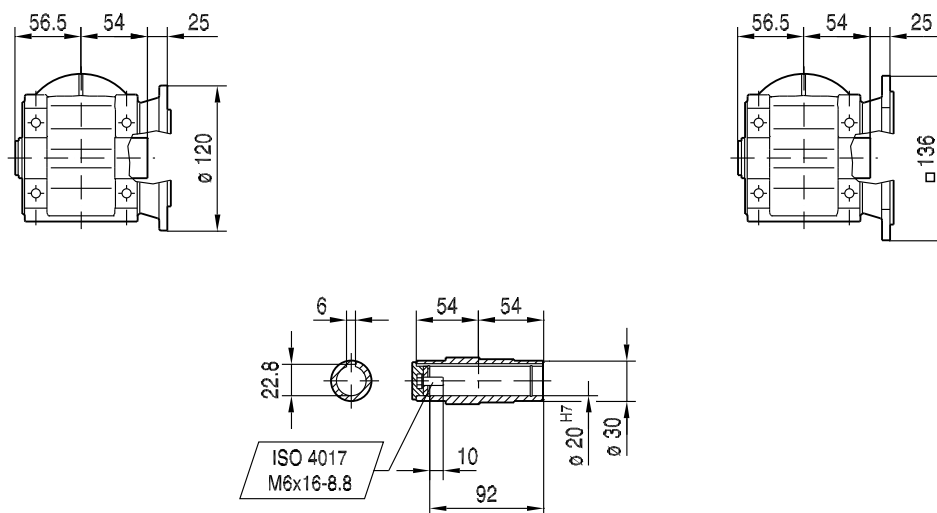
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KAF19B..

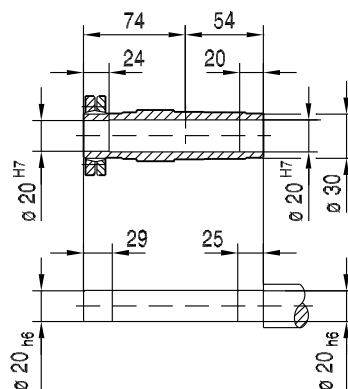
Ø 120
max. DR71..

160



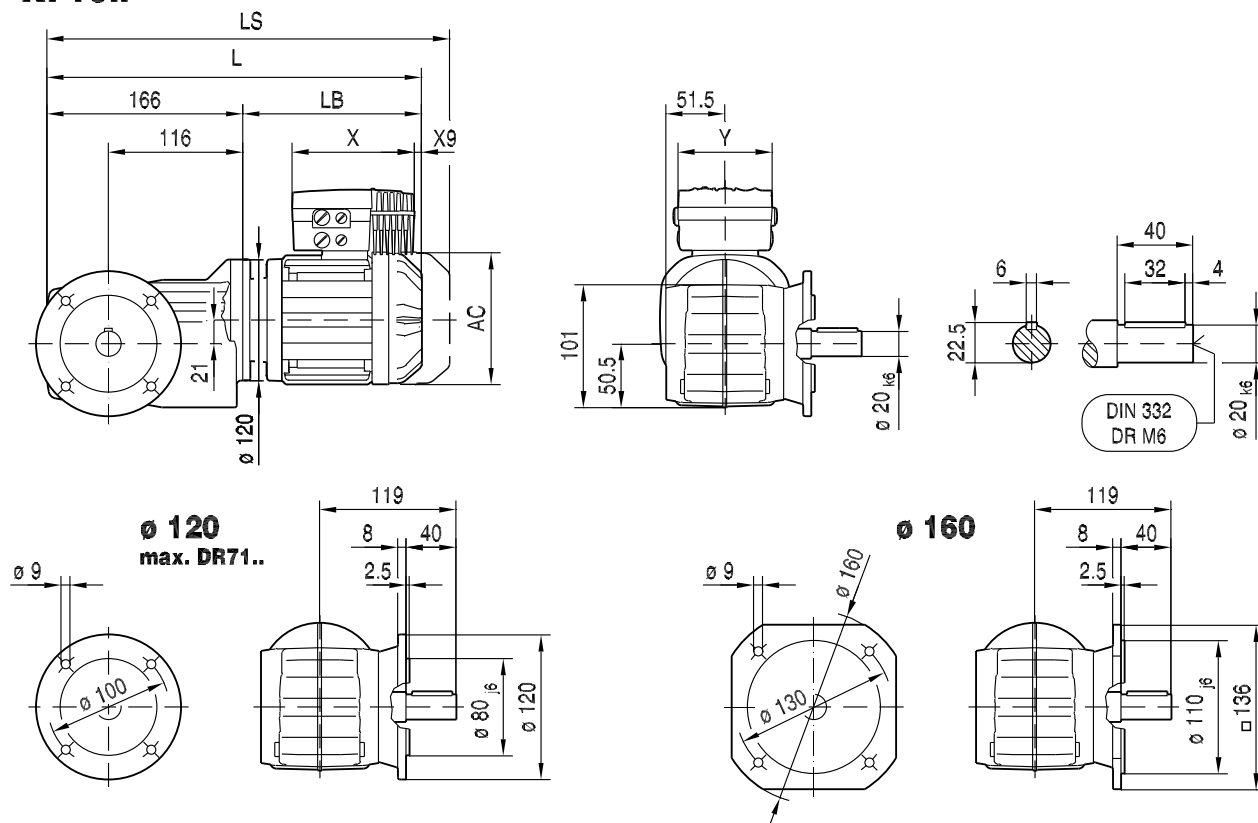
(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	
AC	139	139	156	179	179	179	179	
AD	185	185	197	208	208	208	208	
L	368	393	448	449	449	481	481	
LS	436	461	529	543	543	575	575	
LB	202	227	282	283	283	315	315	
X	182	182	182	182	228	182	228	
X9	-14	-14	-7	-1	-16	-1	-16	
Y	148	148	148	148	186	148	186	

KHF19B..

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KF19..

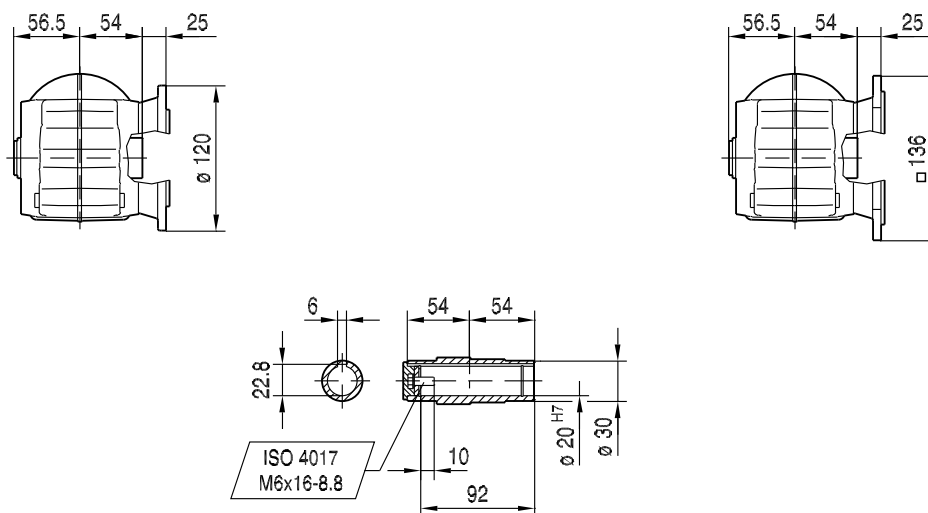
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KAF19..

Ø 120
max. DR71..

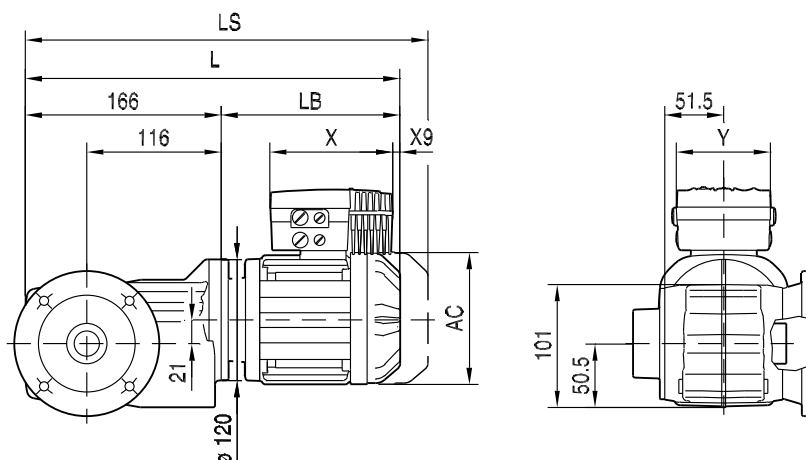
160



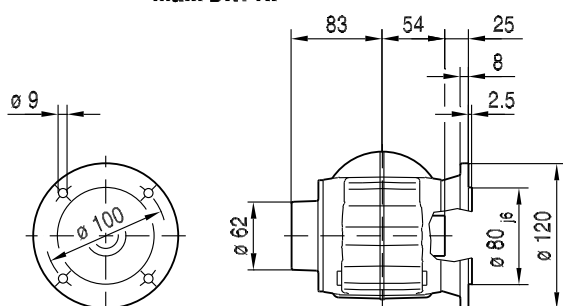
(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	
AC	139	139	156	179	179	179	179	
AD	185	185	197	208	208	208	208	
L	368	393	448	449	449	481	481	
LS	436	461	529	543	543	575	575	
LB	202	227	282	283	283	315	315	
X	182	182	182	182	228	182	228	
X9	-14	-14	-7	-1	-16	-1	-16	
Y	148	148	148	148	186	148	186	

33 099 00 16

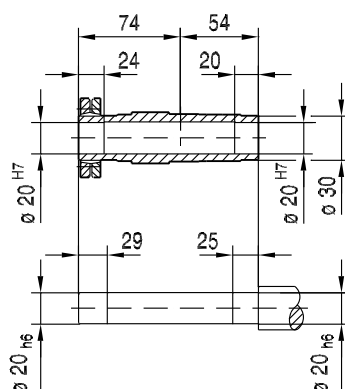
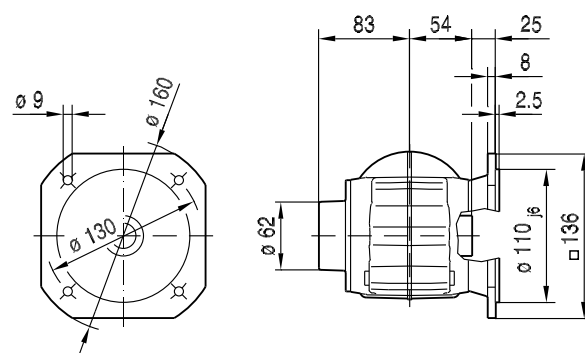
KHF19..



ø 120
max. DR71..

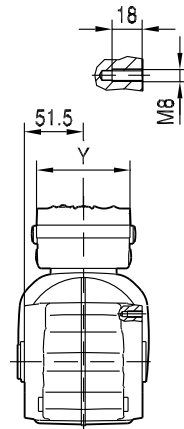
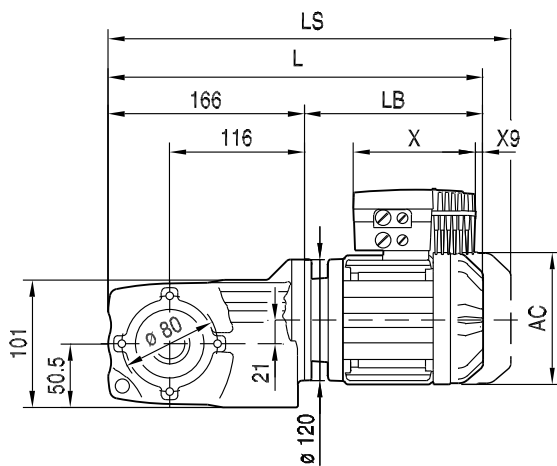


ø 160

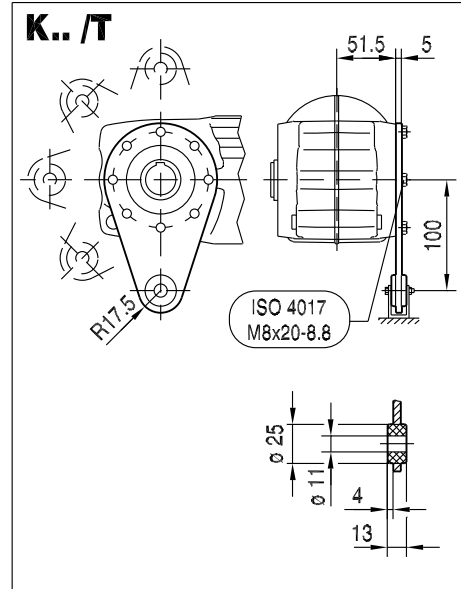


(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	
AC	139	139	156	179	179	179	179	
AD	185	185	197	208	208	208	208	
L	368	393	448	449	449	481	481	
LS	436	461	529	543	543	575	575	
LB	202	227	282	283	283	315	315	
X	182	182	182	182	228	182	228	
X9	-14	-14	-7	-1	-16	-1	-16	
Y	148	148	148	148	186	148	186	

KA19..

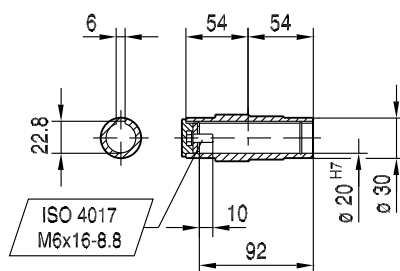
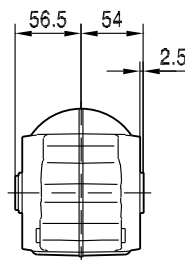


33 100 00 16

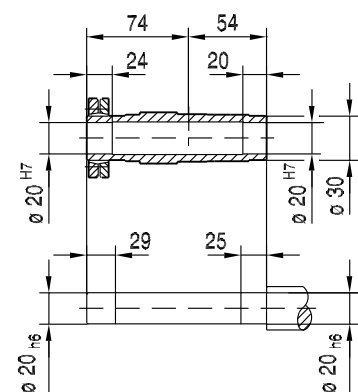
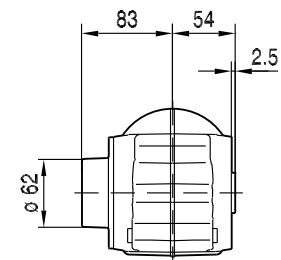


10

KA19..



KH19..



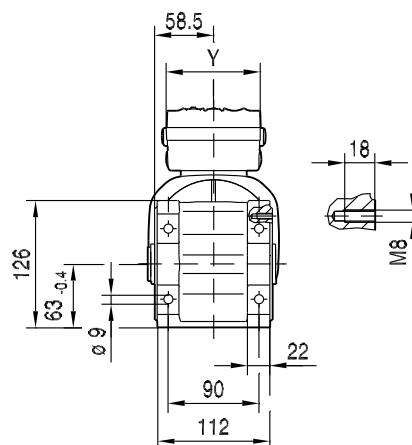
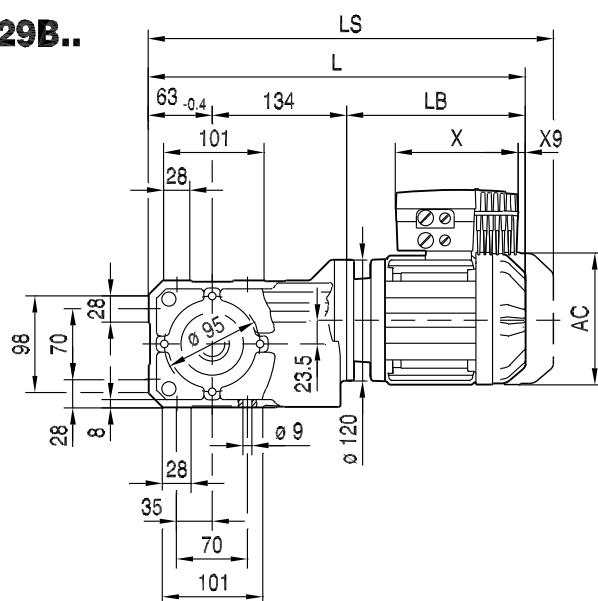
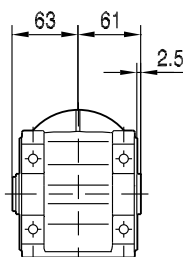
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(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	
AC	139	139	156	179	179	179	179	
AD	185	185	197	208	208	208	208	
L	368	393	448	449	449	481	481	
LS	436	461	529	543	543	575	575	
LB	202	227	282	283	283	315	315	
X	182	182	182	182	228	182	228	
X9	-14	-14	-7	-1	-16	-1	-16	
Y	148	148	148	148	186	148	186	

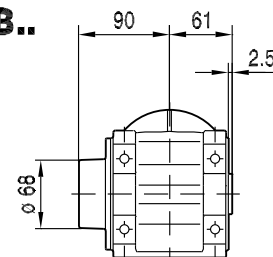
Technical drawing of a bolt and nut assembly. The bolt is shown in cross-section with a diameter of 8 mm and a length of 28 mm. The nut is shown in cross-section with a diameter of 40 mm and a height of 4 mm. The bolt is threaded into the nut. The drawing is labeled with dimensions and a reference to DIN 332 DR M10.

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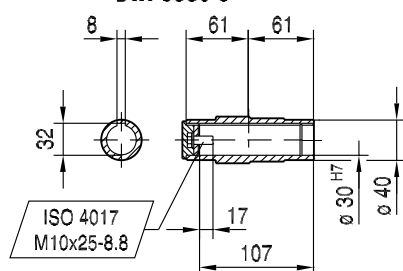
33 102 00 16

KA29B..**KA29B..**

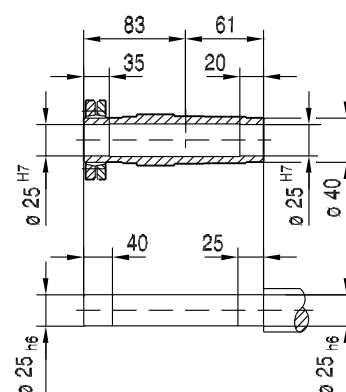
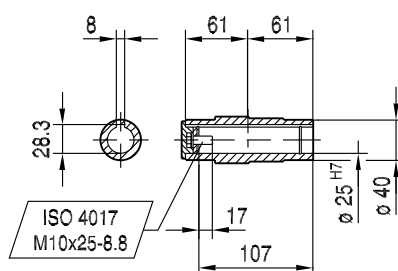
KH29B..



Ø 30 H7
DIN 6885-3

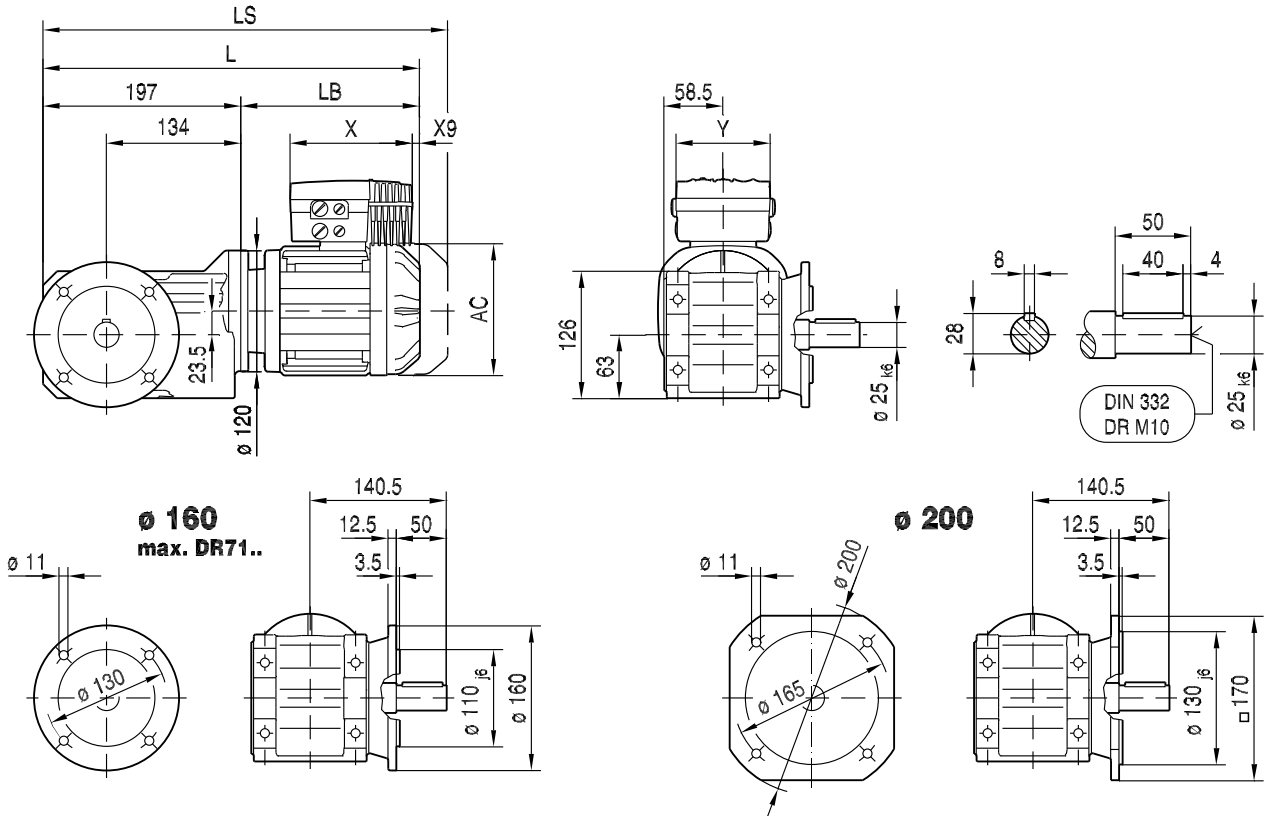


Ø 25 H7



(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..
AC	139	139	156	179	179	179	179	197
AD	185	185	197	208	208	208	208	216
L	399	424	479	480	480	512	512	511
LS	467	492	560	574	574	606	606	605
LB	202	227	282	283	283	315	315	314
X	182	182	182	182	228	182	228	228/254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44
Y	148	148	148	148	186	148	186	186

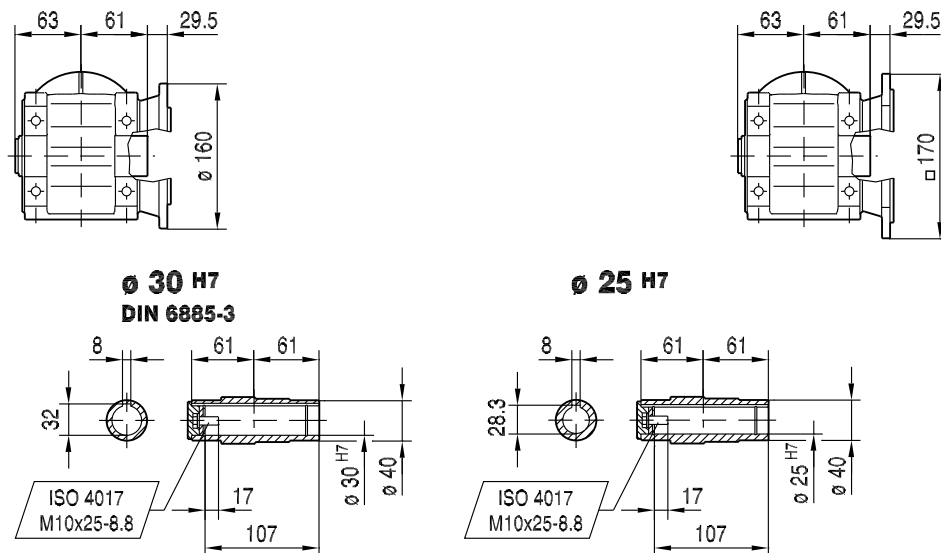
33 103 00 16



KAF29B..

Ø 160
max. DR71..

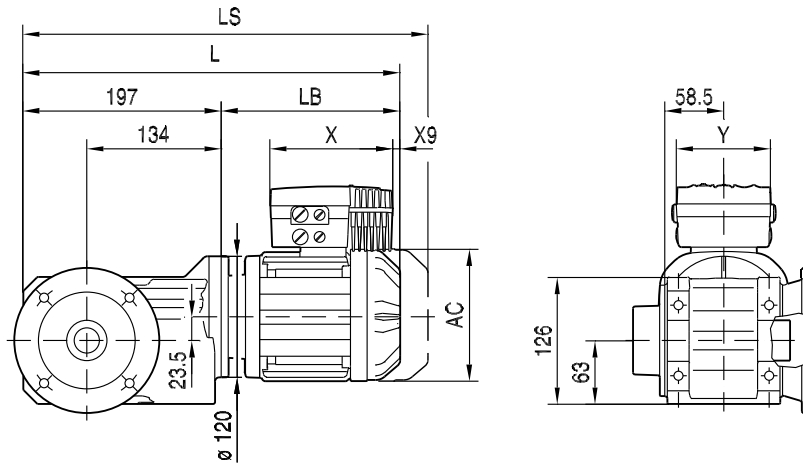
200



(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..
AC	139	139	156	179	179	179	179	197
AD	185	185	197	208	208	208	208	216
L	399	424	479	480	480	512	512	511
LS	467	492	560	574	574	606	606	605
LB	202	227	282	283	283	315	315	314
X	182	182	182	182	228	182	228	228/254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44
Y	148	148	148	148	186	148	186	186

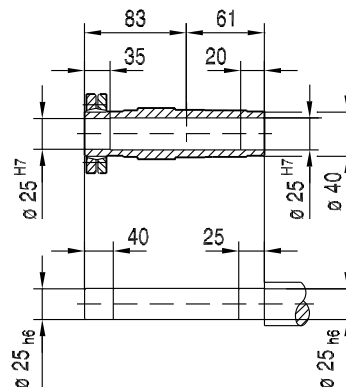
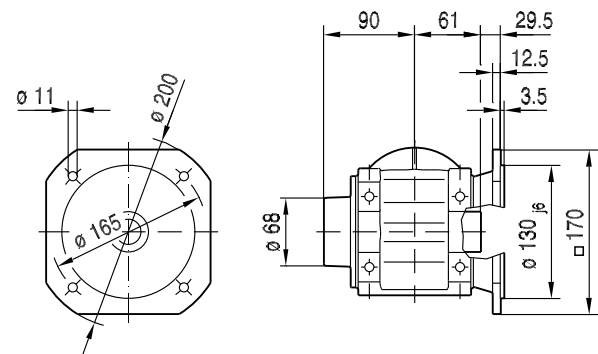
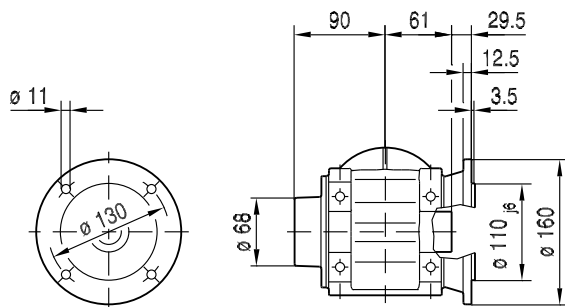
33 104 00 16

KHF29B..



$\varnothing 160$
max. DR71..

$\varnothing 200$

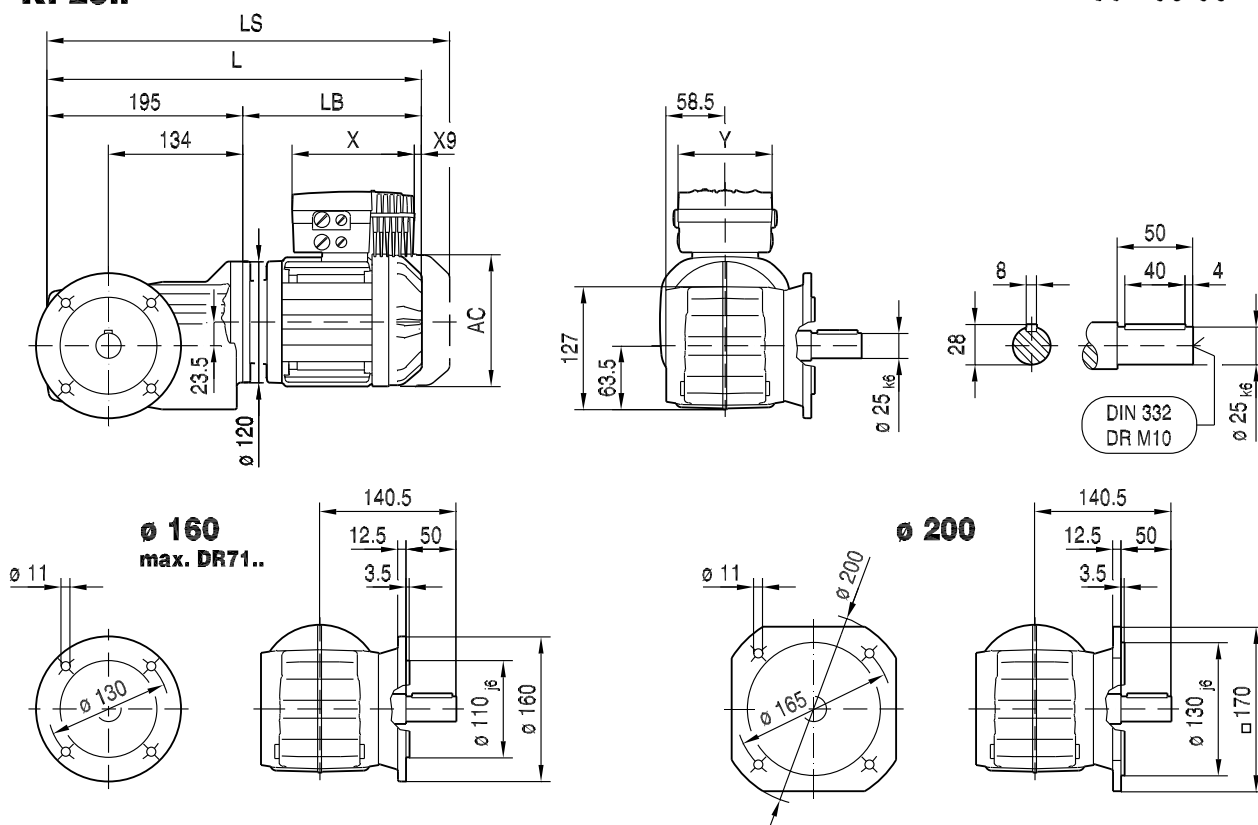
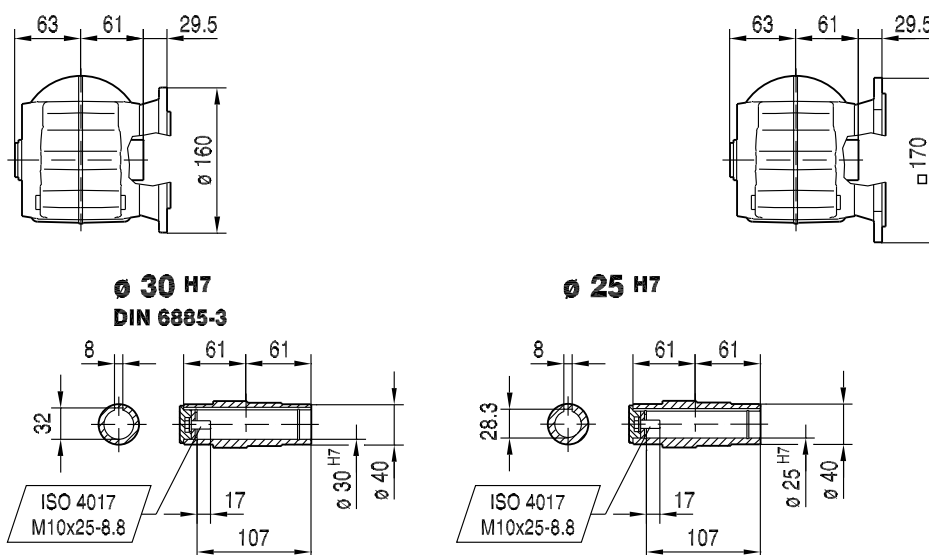


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(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..
AC	139	139	156	179	179	179	179	197
AD	185	185	197	208	208	208	208	216
L	399	424	479	480	480	512	512	511
LS	467	492	560	574	574	606	606	605
LB	202	227	282	283	283	315	315	314
X	182	182	182	182	228	182	228	228/254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44
Y	148	148	148	148	186	148	186	186

KF29..

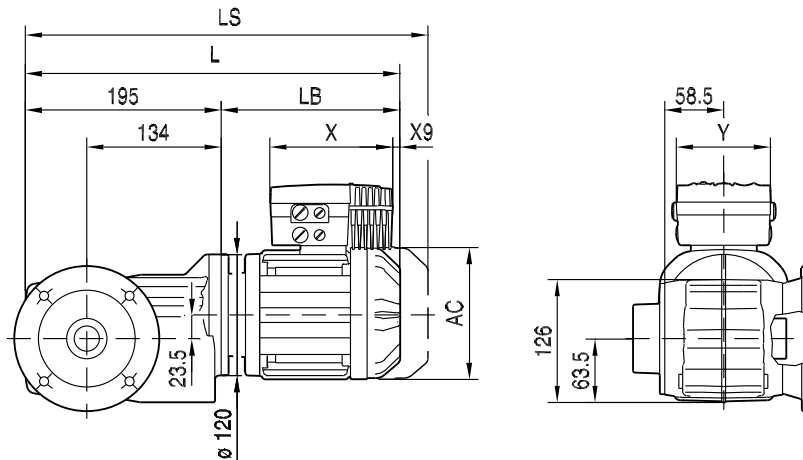
33 105 00 16

**KAF29..****Ø 160 max. DR71..****Ø 200**

(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..
AC	139	139	156	179	179	179	179	197
AD	185	185	197	208	208	208	208	216
L	397	422	477	478	478	510	510	509
LS	465	490	558	572	572	604	604	603
LB	202	227	282	283	283	315	315	314
X	182	182	182	182	228	182	228	228/254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44
Y	148	148	148	148	186	148	186	186

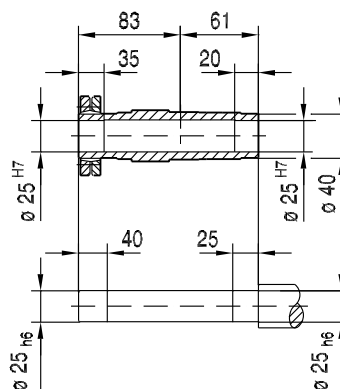
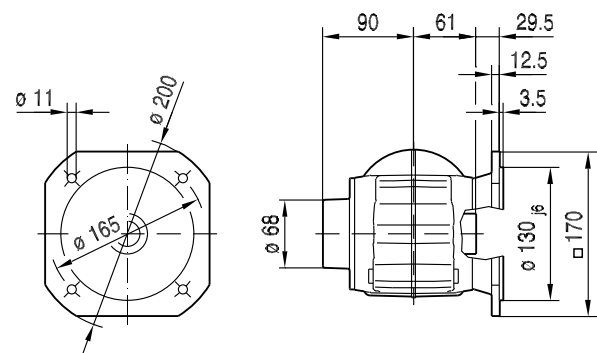
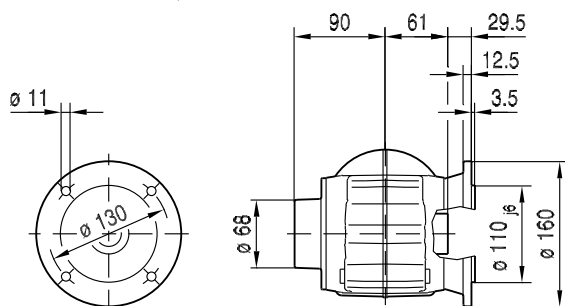
33 106 00 16

KHF29..



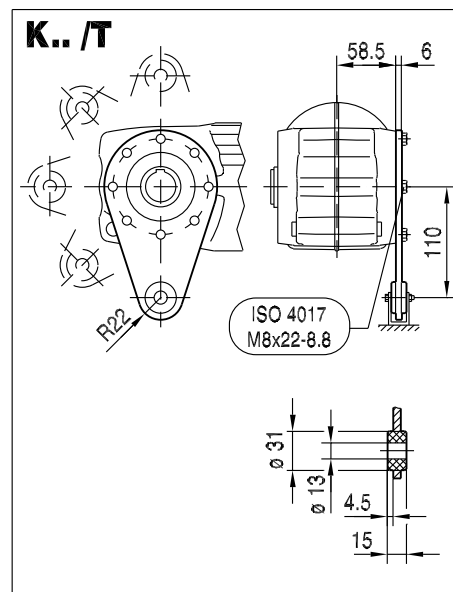
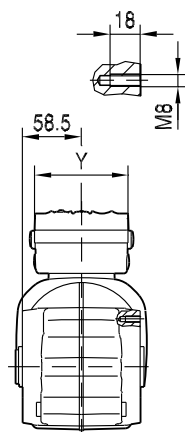
ø 160
max. DR71..

ø 200

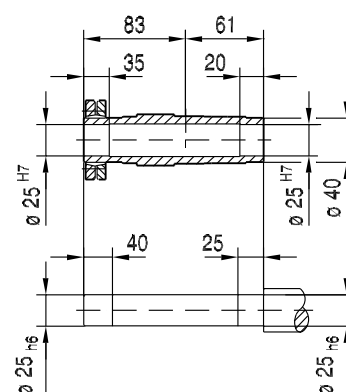
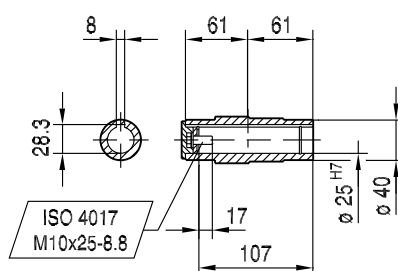
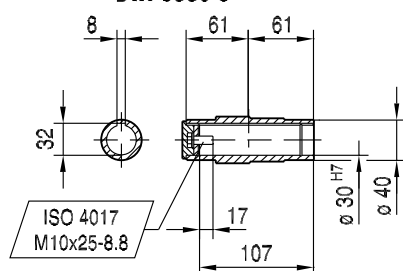


(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..
AC	139	139	156	179	179	179	179	197
AD	185	185	197	208	208	208	208	216
L	397	422	477	478	478	510	510	509
LS	465	490	558	572	572	604	604	603
LB	202	227	282	283	283	315	315	314
X	182	182	182	182	228	182	228	228/254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44
Y	148	148	148	148	186	148	186	186

33 107 00 16



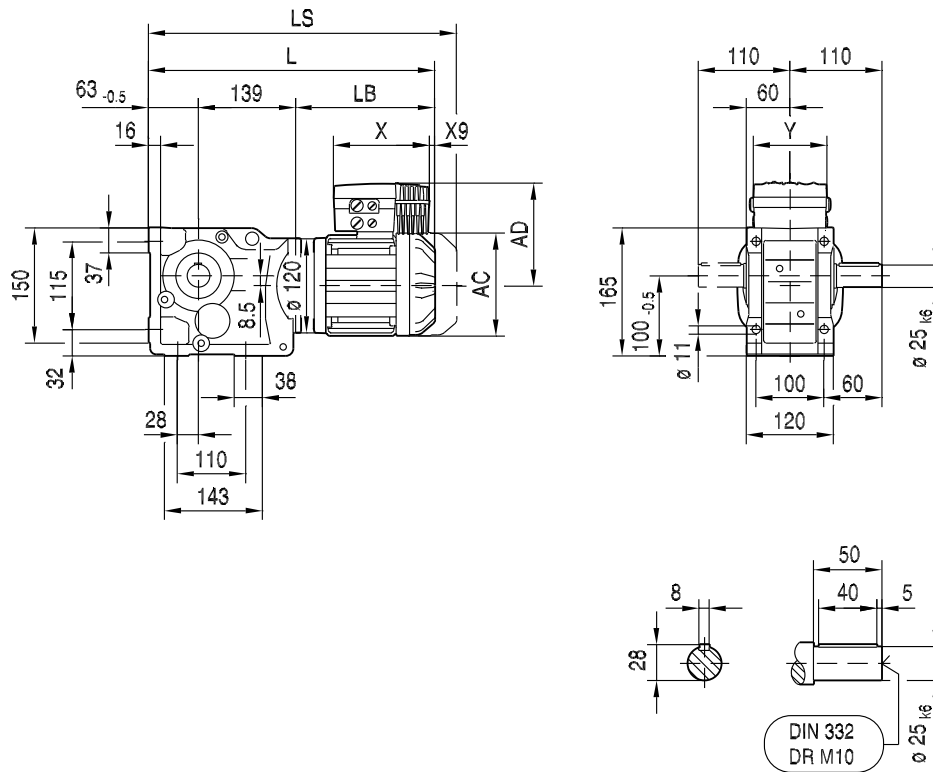
Ø 25 H7



(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..
AC	139	139	156	179	179	179	179	197
AD	185	185	197	208	208	208	208	216
L	397	422	477	478	478	510	510	509
LS	465	490	558	572	572	604	604	603
LB	202	227	282	283	283	315	315	314
X	182	182	182	182	228	182	228	228/254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44
Y	148	148	148	148	186	148	186	186

33 108 00 16

K37..



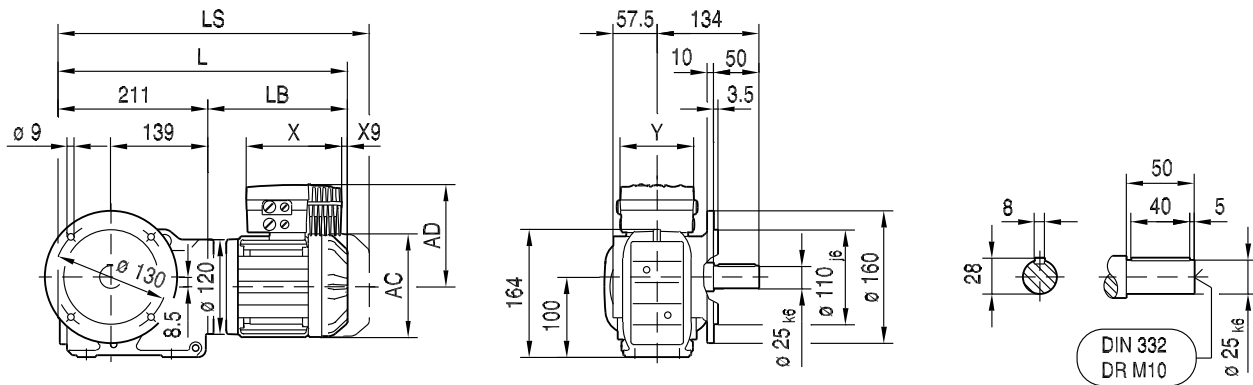
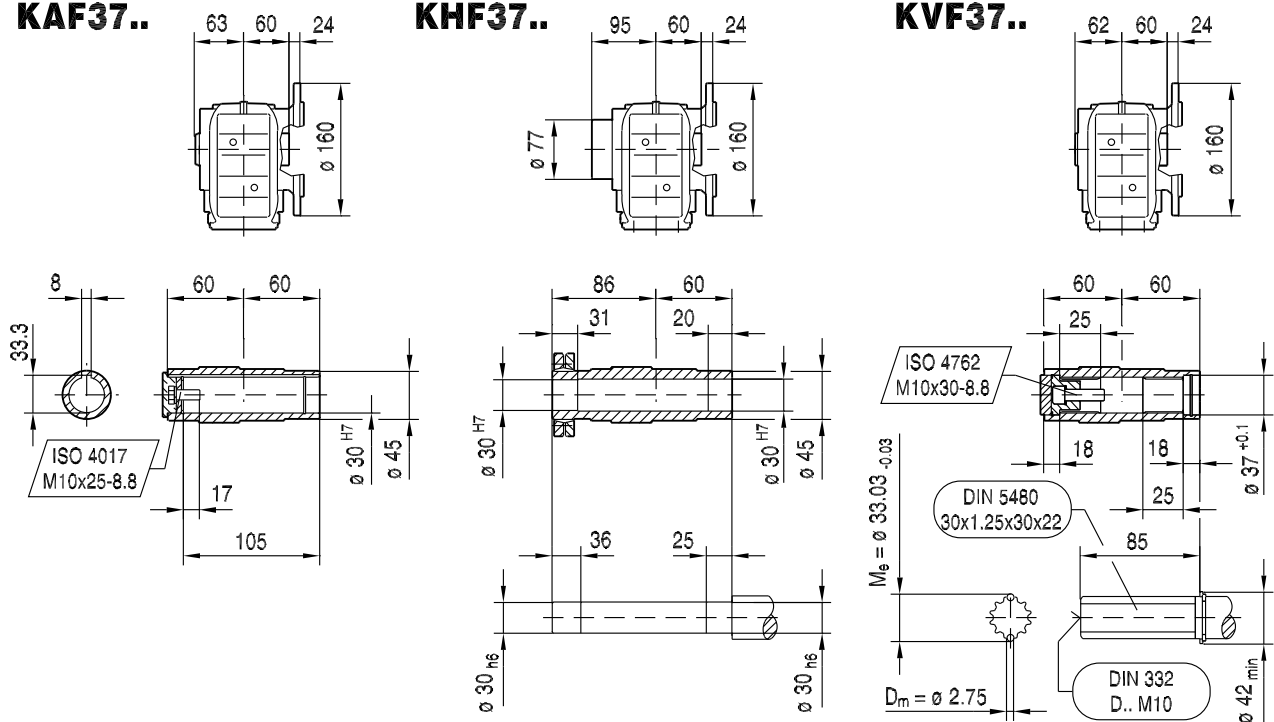
10

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(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..
AC	139	139	156	179	179	179	179	197	197
AD	185	185	197	208	208	208	208	216	216
L	404	429	484	485	485	517	517	516	566
LS	472	497	565	579	579	611	611	610	660
LB	202	227	282	283	283	315	315	314	364
X	182	182	182	182	228	182	228	228/254	228/254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44
Y	148	148	148	148	186	148	186	186	186

KF37..

33 109 00 16

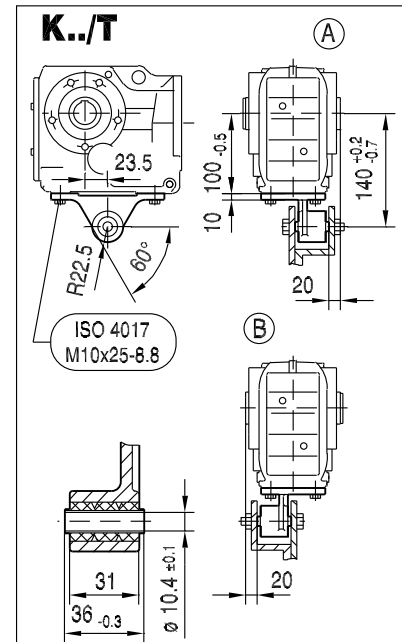
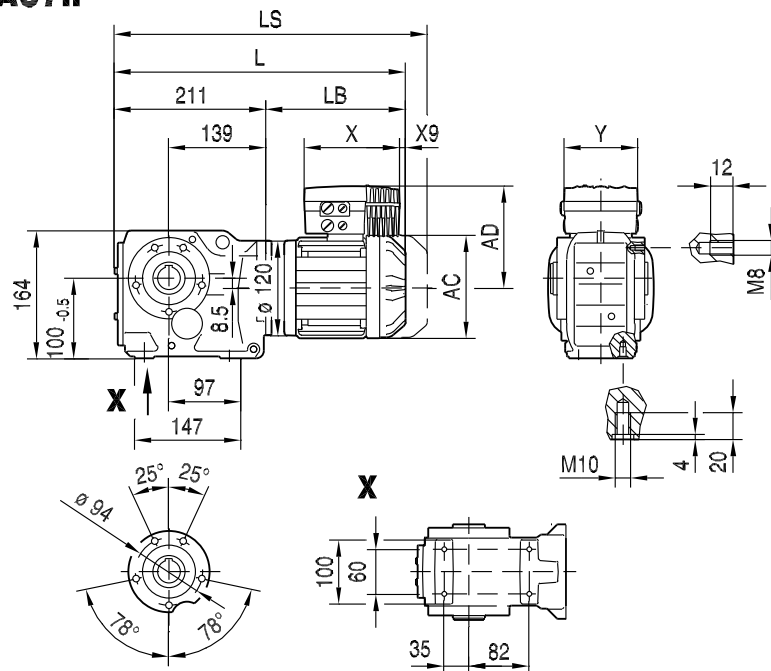
**KAF37..****KHF37..****KVF37..**

(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..
AC	139	139	156	179	179	179	179	197	197
AD	185	185	197	208	208	208	208	216	216
L	413	438	493	494	494	526	526	525	575
LS	481	506	574	588	588	620	620	619	669
LB	202	227	282	283	283	315	315	314	364
X	182	182	182	182	228	182	228	228/254	228/254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44
Y	148	148	148	148	186	148	186	186	186

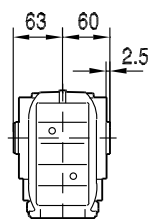
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33 110 00 16

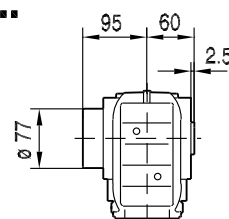
KA37..



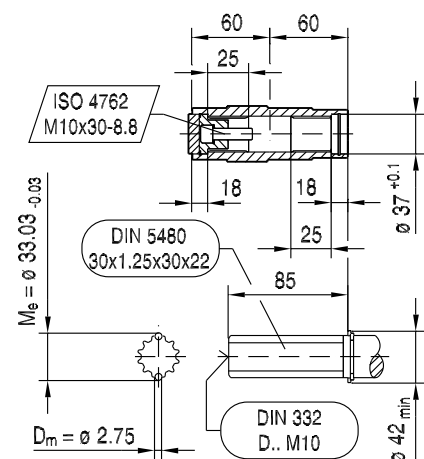
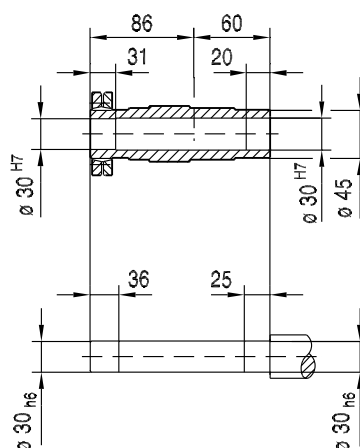
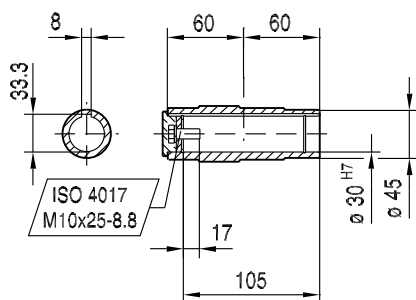
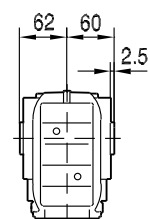
KA37..



KH37..

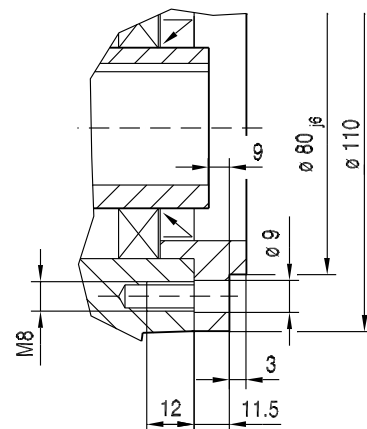
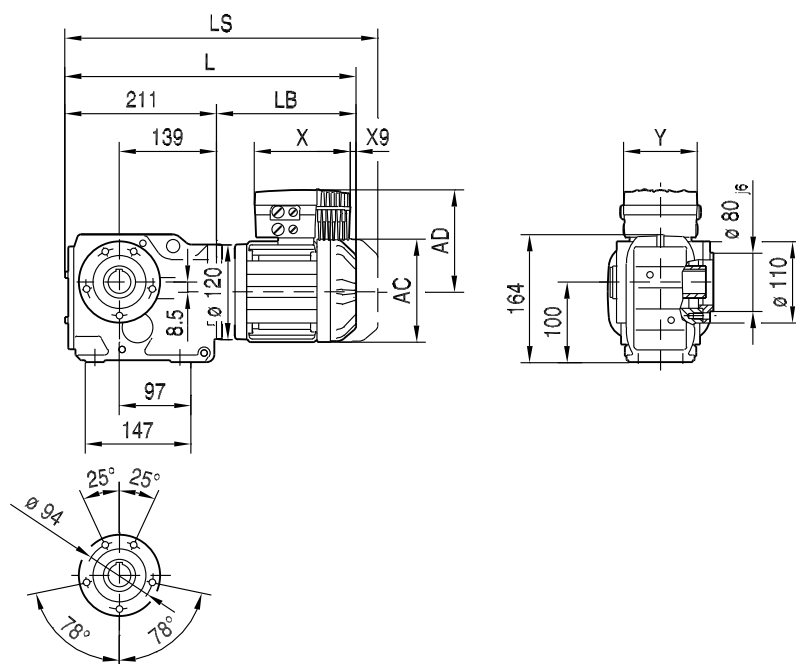
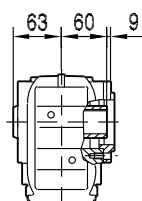
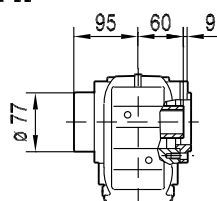
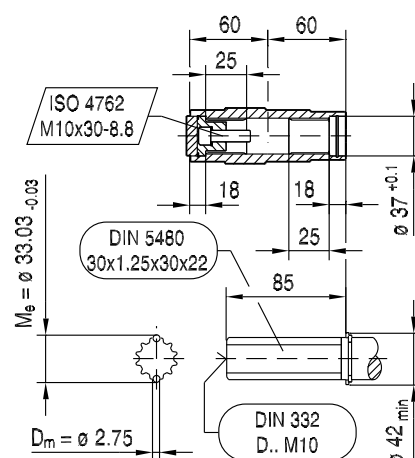
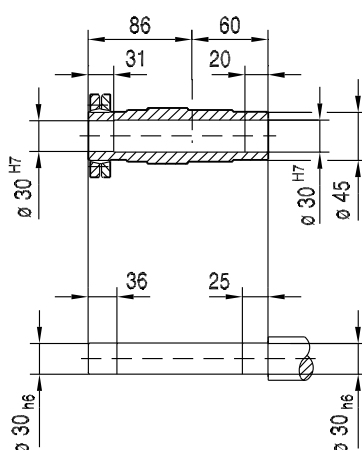
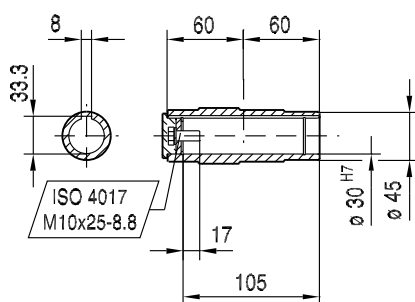
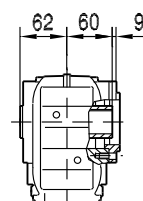


KV37..



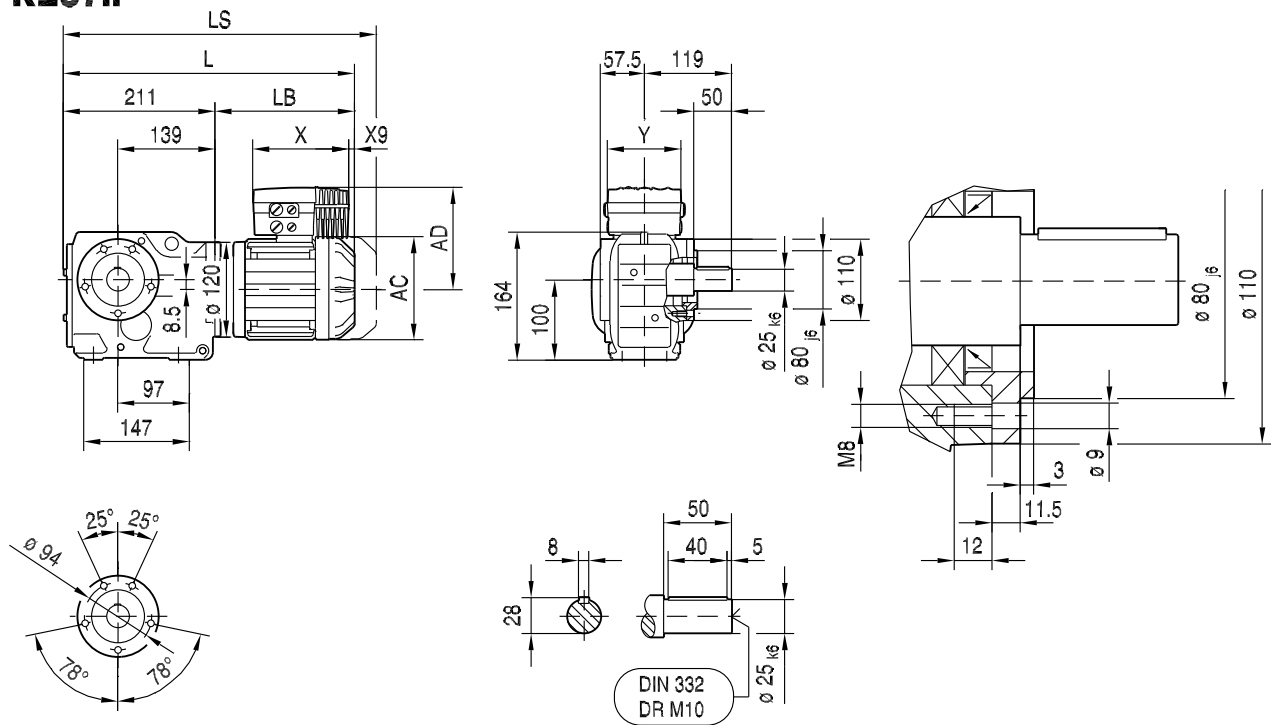
(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..
AC	139	139	156	179	179	179	179	197	197
AD	185	185	197	208	208	208	208	216	216
L	413	438	493	494	494	526	526	525	575
LS	481	506	574	588	588	620	620	619	669
LB	202	227	282	283	283	315	315	314	364
X	182	182	182	182	228	182	228	228/254	228/254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44
Y	148	148	148	148	186	148	186	186	186

33 111 00 16

KAZ37..**KAZ37..****KHZ37..****KVZ37..**

(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..
AC	139	139	156	179	179	179	179	197	197
AD	185	185	197	208	208	208	208	216	216
L	413	438	493	494	494	526	526	525	575
LS	481	506	574	588	588	620	620	619	669
LB	202	227	282	283	283	315	315	314	364
X	182	182	182	182	228	182	228	228/254	228/254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44
Y	148	148	148	148	186	148	186	186	186

33 112 00 16

KZ37..

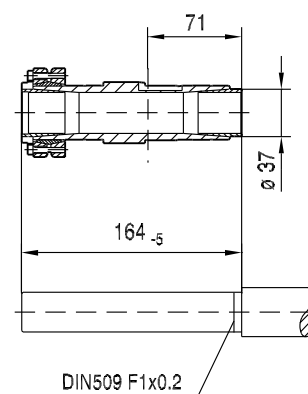
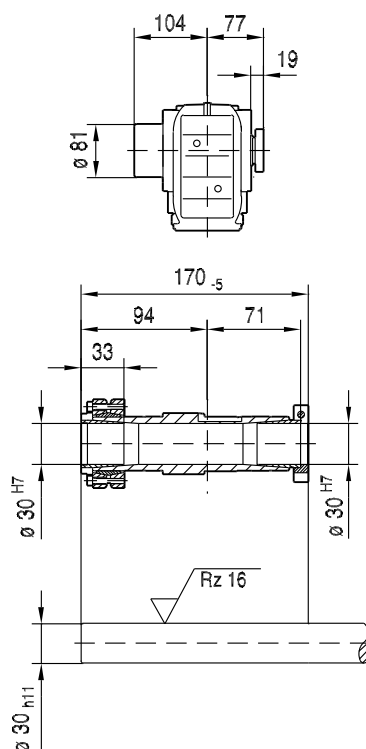
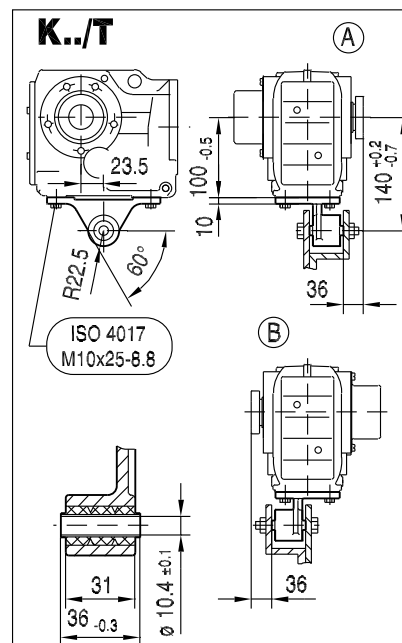
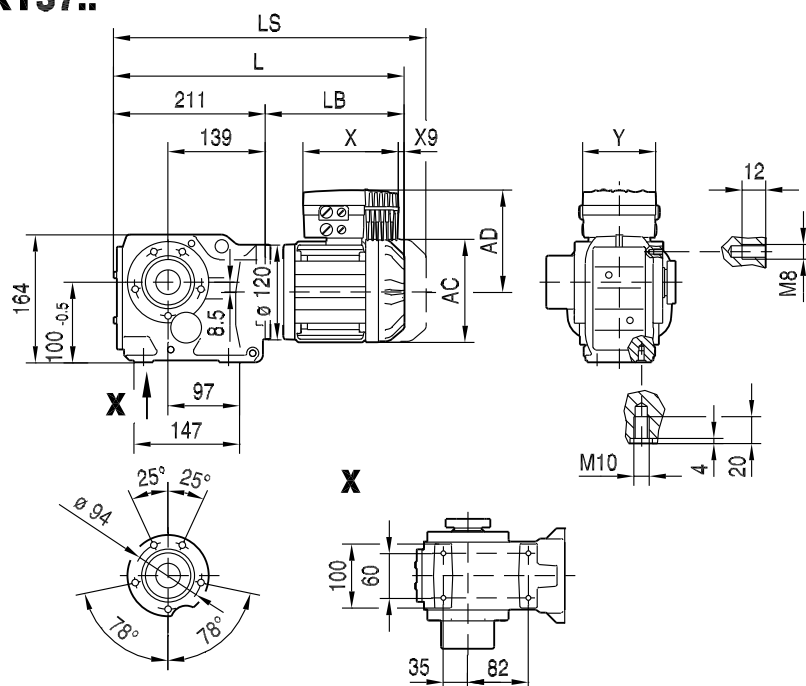
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(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..
AC	139	139	156	179	179	179	179	197	197
AD	185	185	197	208	208	208	208	216	216
L	413	438	493	494	494	526	526	525	575
LS	481	506	574	588	588	620	620	619	669
LB	202	227	282	283	283	315	315	314	364
X	182	182	182	182	228	182	228	228/254	228/254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44
Y	148	148	148	148	186	148	186	186	186

33 113 00 16

KT37..

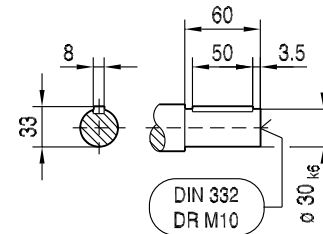
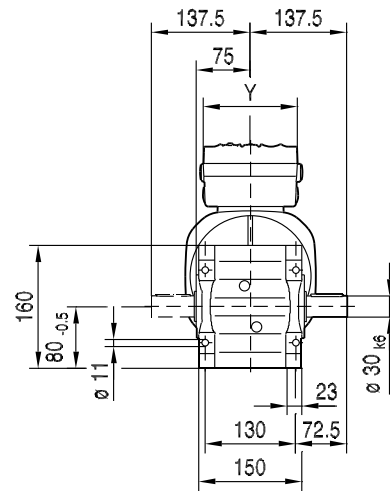
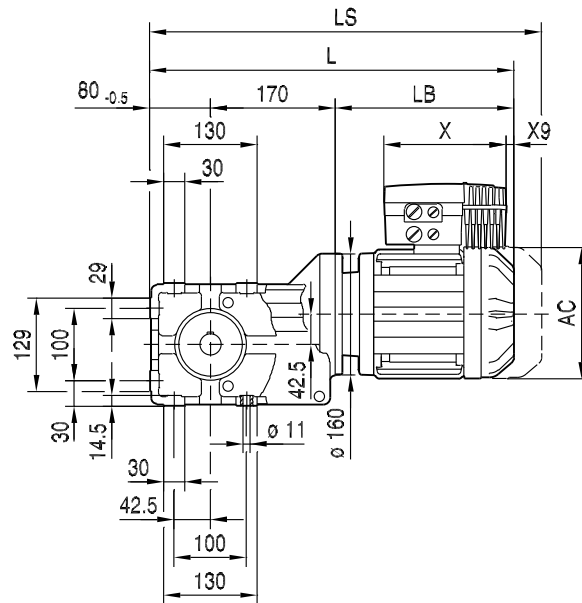


(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..
AC	139	139	156	179	179	179	179	197	197
AD	185	185	197	208	208	208	208	216	216
L	413	438	493	494	494	526	526	525	575
LS	481	506	574	588	588	620	620	619	669
LB	202	227	282	283	283	315	315	314	364
X	182	182	182	182	228	182	228	228/254	228/254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44
Y	148	148	148	148	186	148	186	186	186

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33 114 00 16

K39..



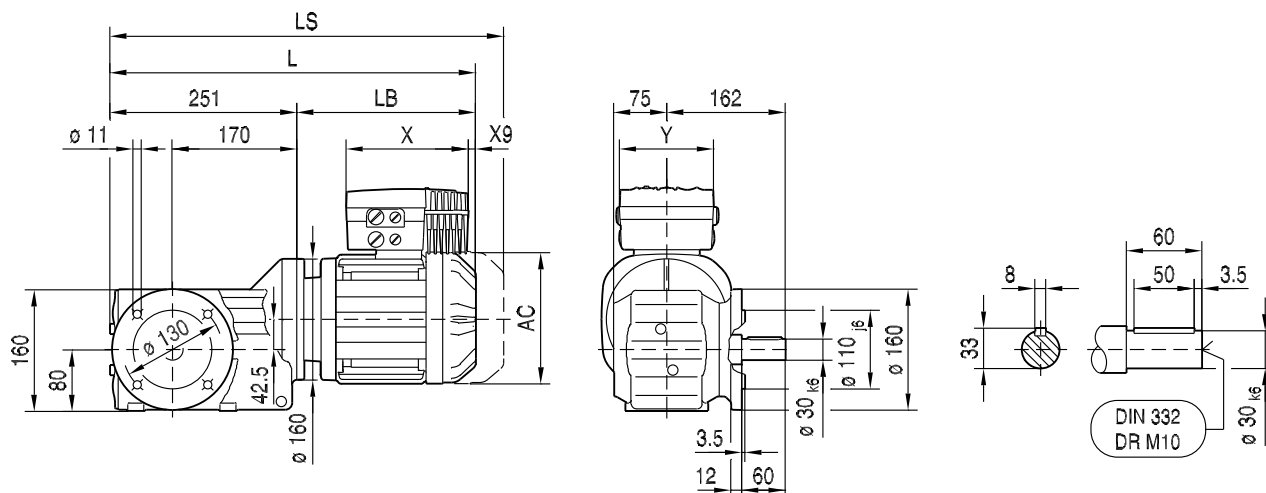
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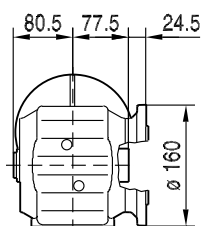
(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	446	471	525	527	527	559	559	555	605	636
LS	513	538	606	620	620	652	652	649	699	748
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

33 115 00 16

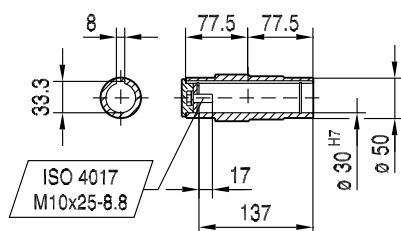
KF39..



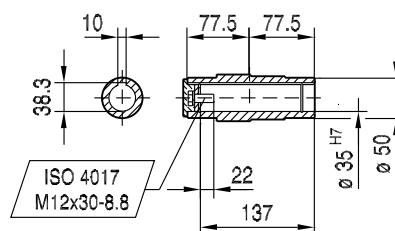
KAF39..



Ø 30 H7



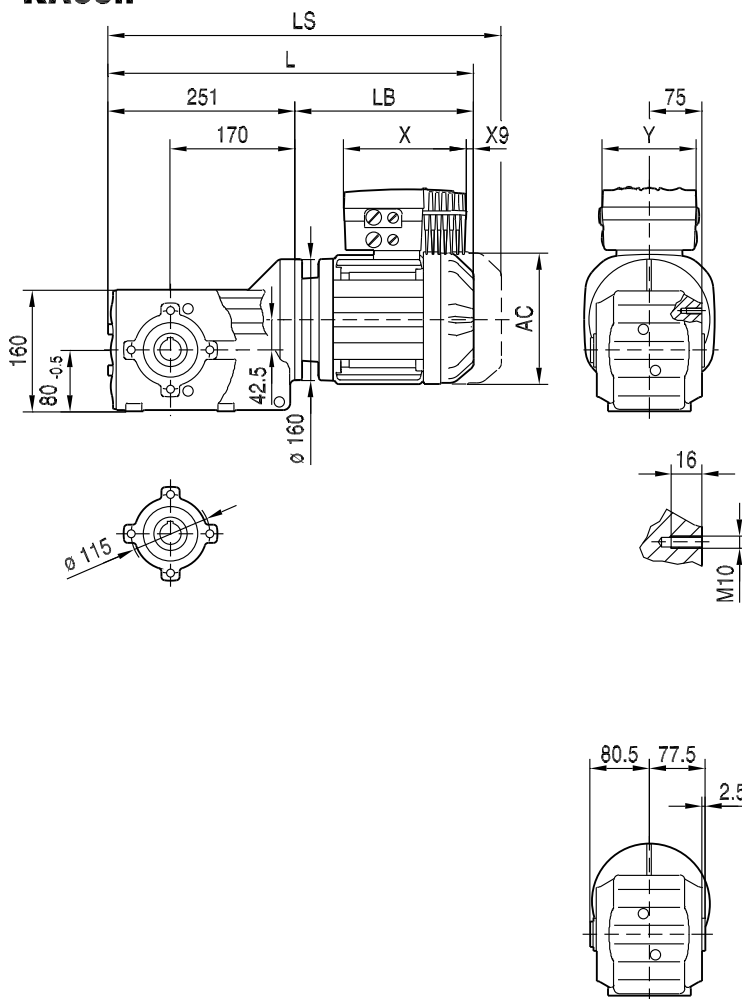
Ø 35 H7



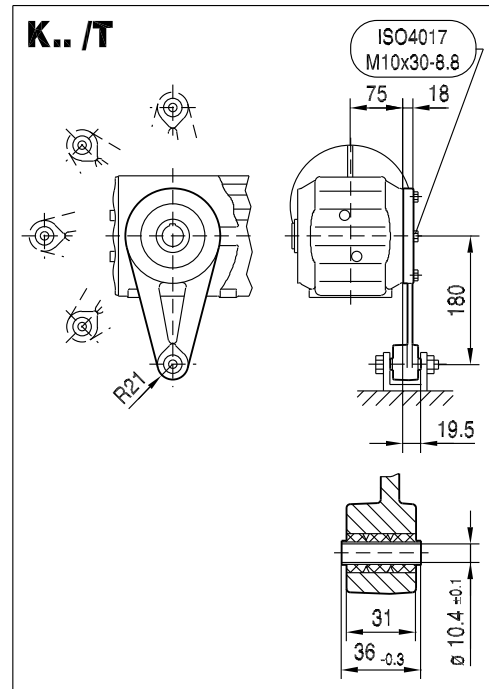
(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	447	472	526	528	528	560	560	556	606	637
LS	514	539	607	621	621	653	653	650	700	749
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

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KA39..

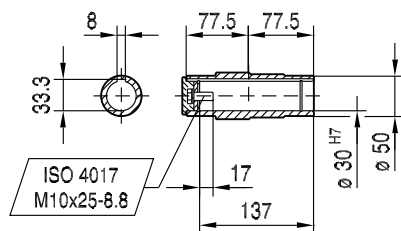


33 116 00 16

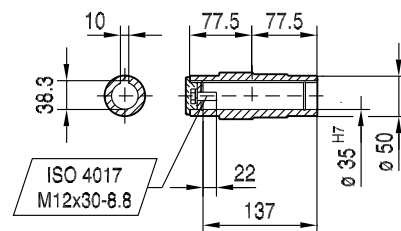


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Ø 30 H7



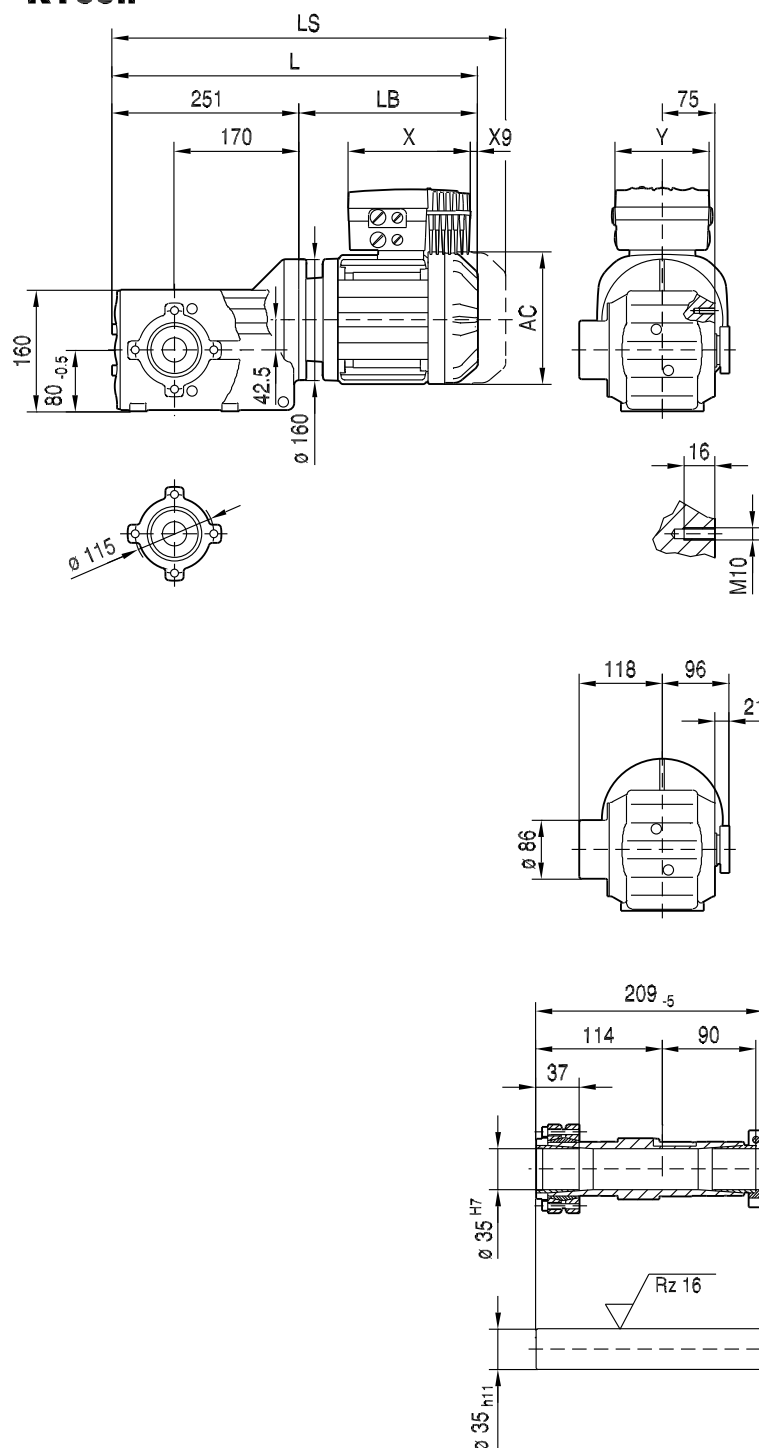
Ø 35 H7



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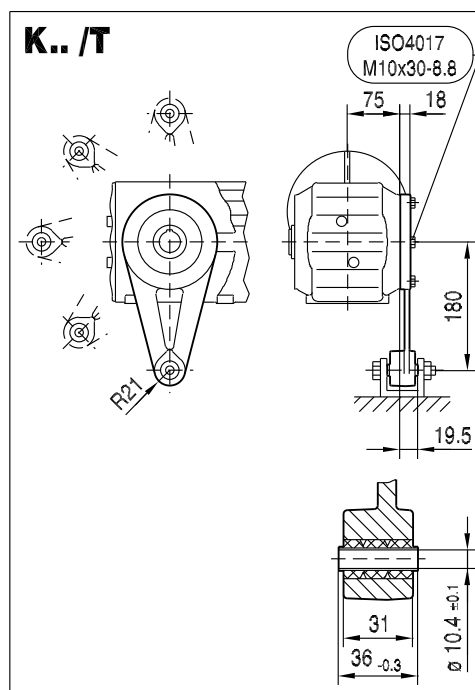
(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	447	472	526	528	528	560	560	556	606	637
LS	514	539	607	621	621	653	653	650	700	749
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

KT39..



33 117 00 16

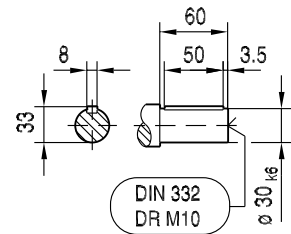
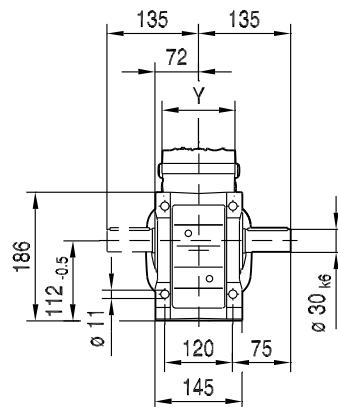
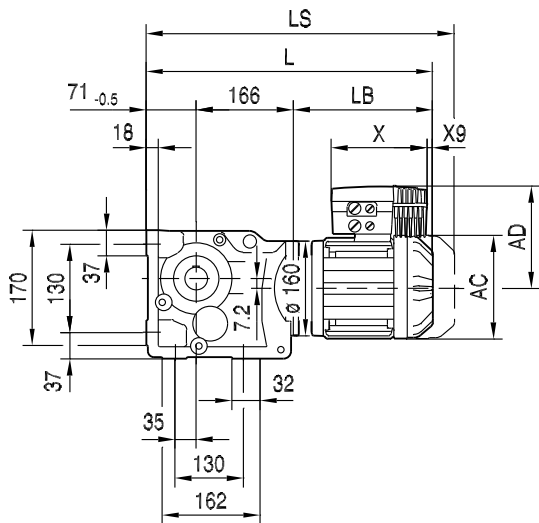
K.. /T



(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	447	472	526	528	528	560	560	556	606	637
LS	514	539	607	621	621	653	653	650	700	749
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

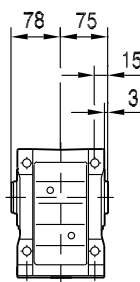
33 118 00 16

K47..

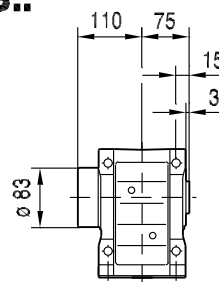


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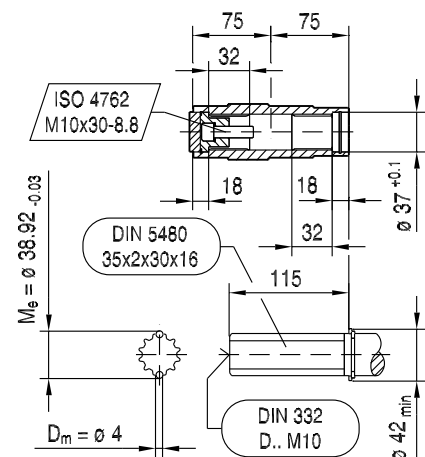
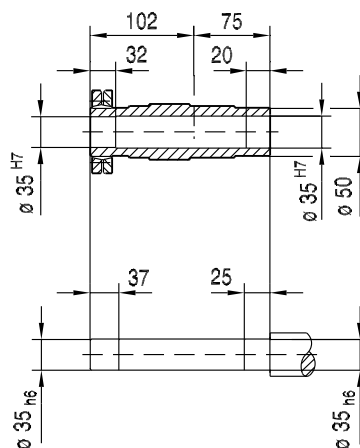
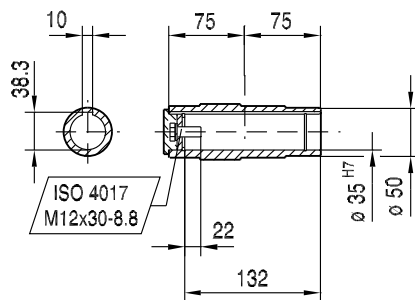
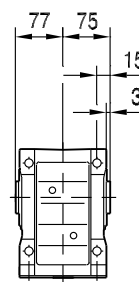
KA47B..



KH47B..



KV47B..

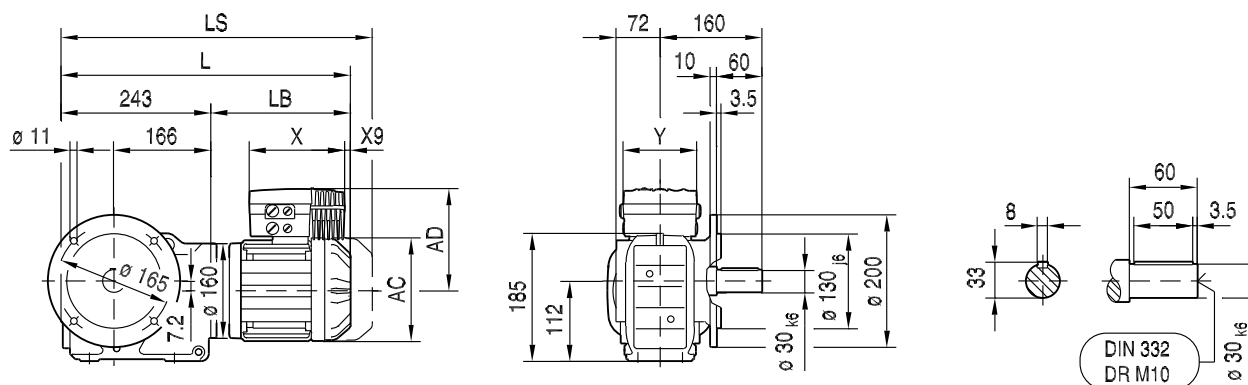


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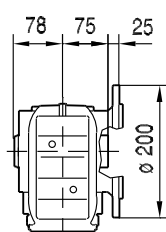
(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	433	458	512	514	514	546	546	542	592	623
LS	500	525	593	607	607	639	639	636	686	735
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

33 119 00 16

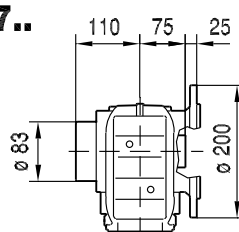
KF47..



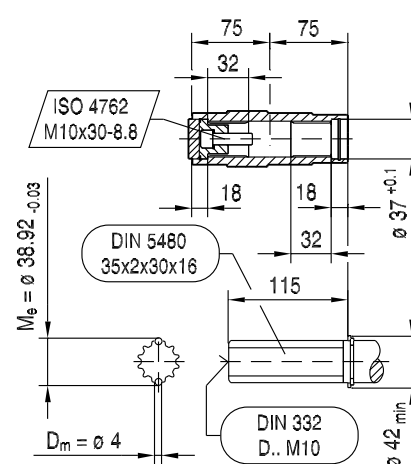
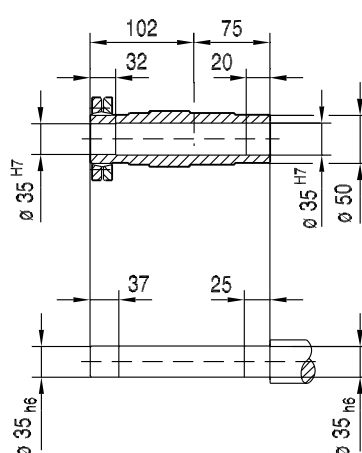
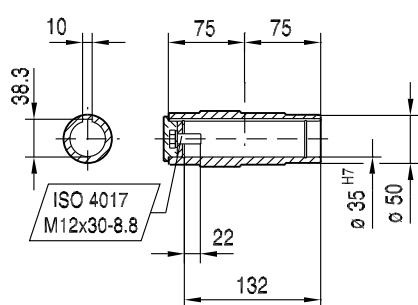
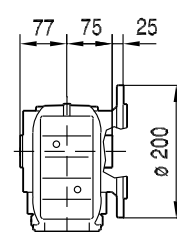
KAF47..



KHF47..



KVF47..

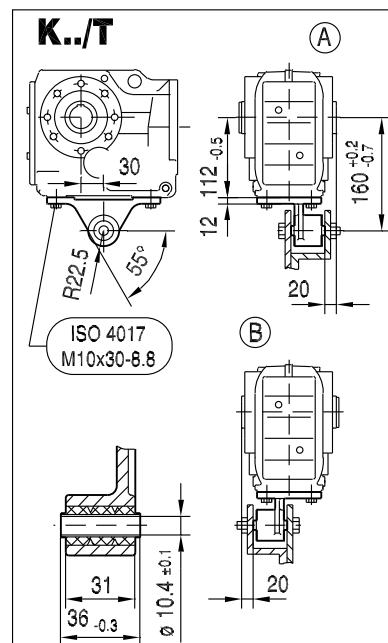
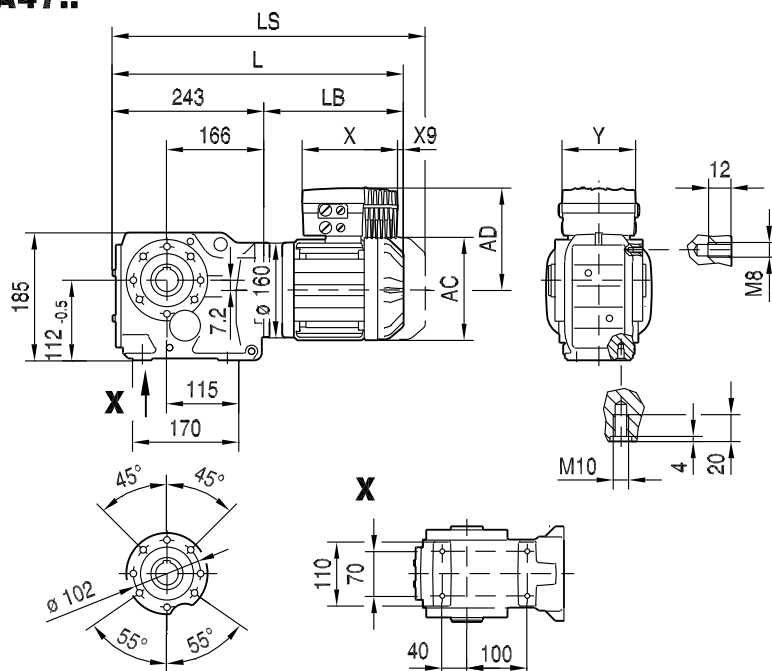


(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	439	464	518	520	520	552	552	548	598	629
LS	506	531	599	613	613	645	645	642	692	741
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

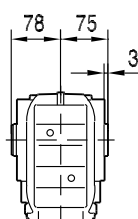
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KA47..

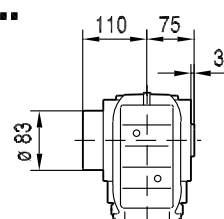
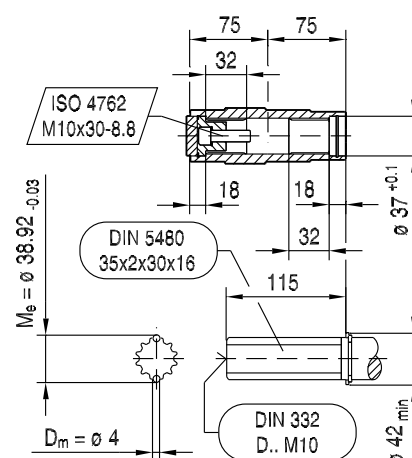
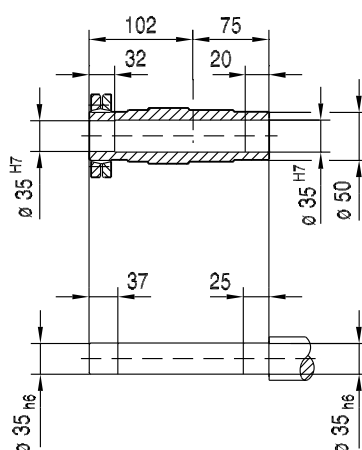
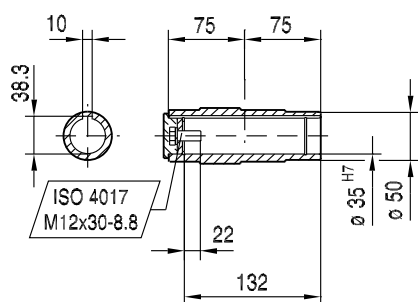
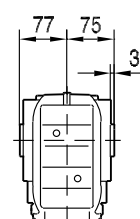
33 120 00 16



KA47..

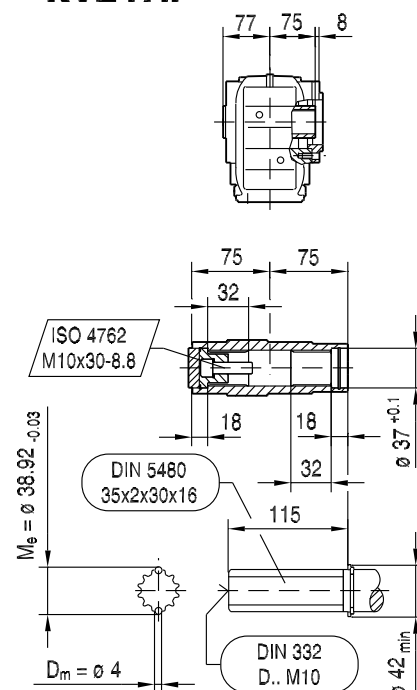
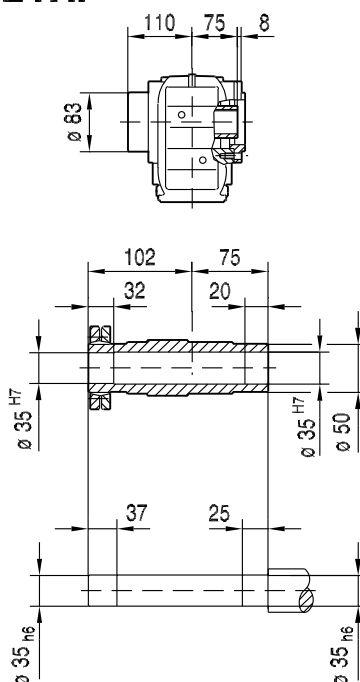
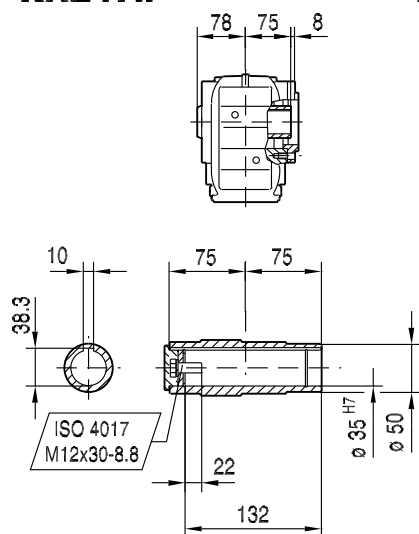
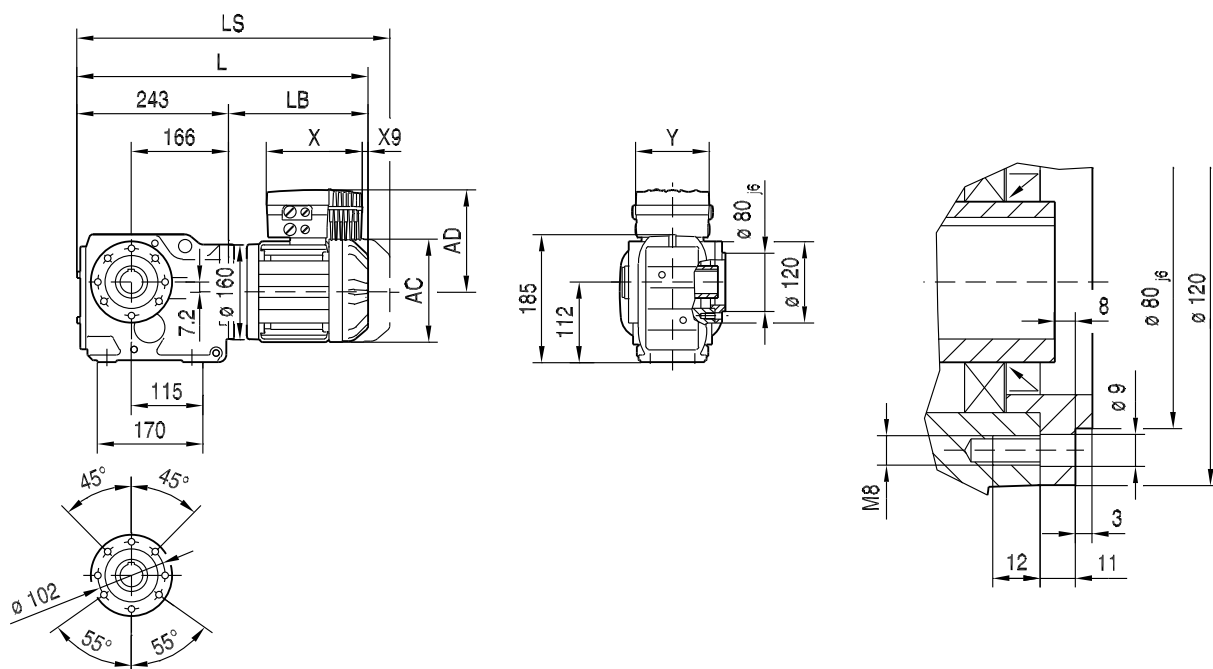


KH47..

**KV47..**

(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	439	464	518	520	520	552	552	548	598	629
LS	506	531	599	613	613	645	645	642	692	741
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

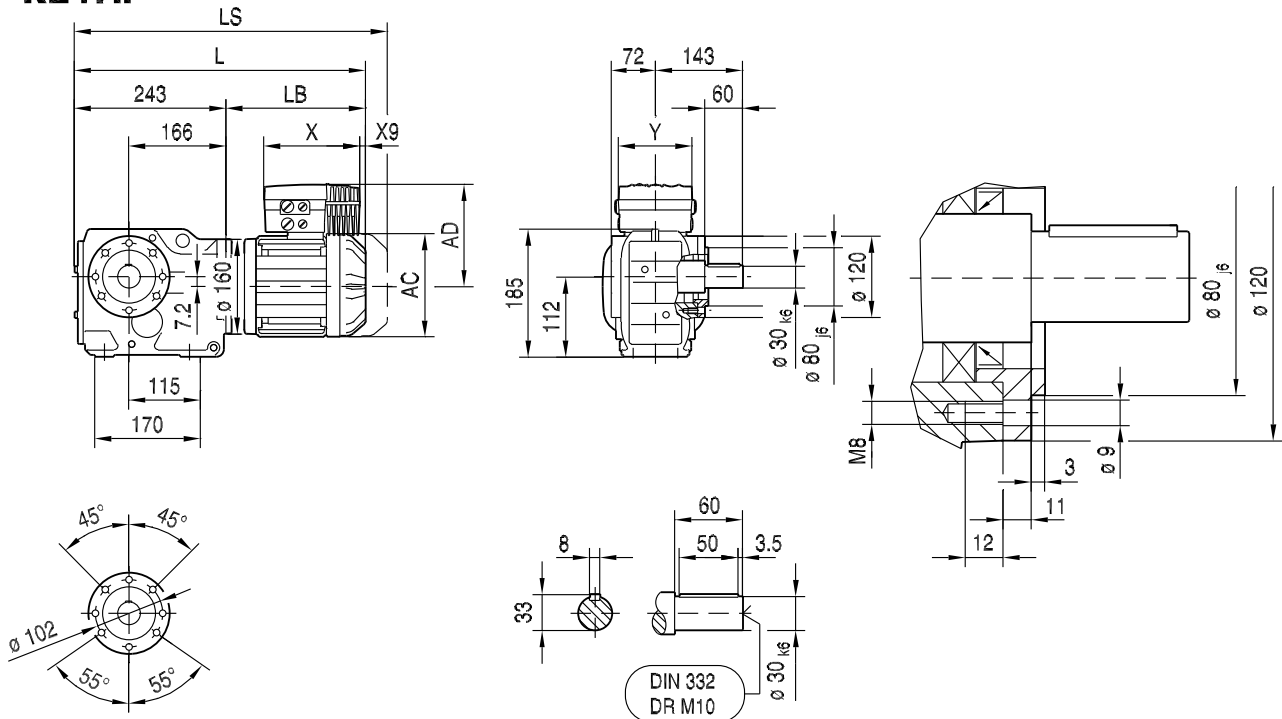
33 121 00 16



(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	439	464	518	520	520	552	552	548	598	629
LS	506	531	599	613	613	645	645	642	692	741
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

33 122 00 16

KZ47..



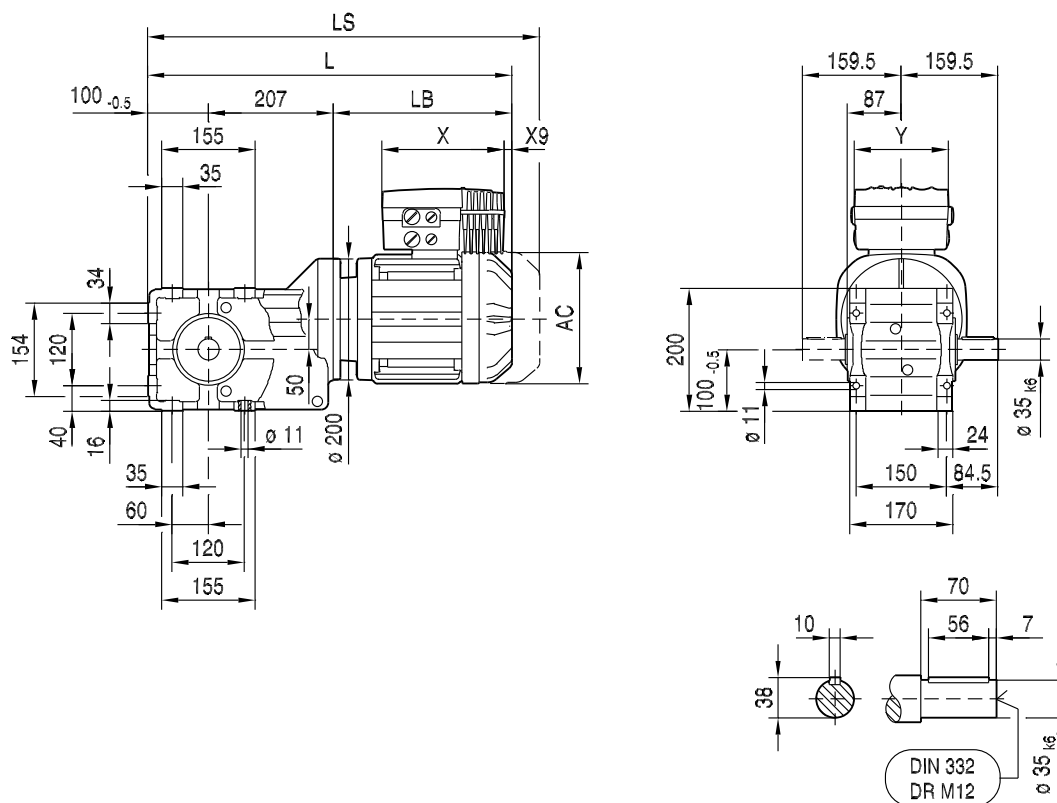
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(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	439	464	518	520	520	552	552	548	598	629
LS	506	531	599	613	613	645	645	642	692	741
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

33 124 00 16

K49..

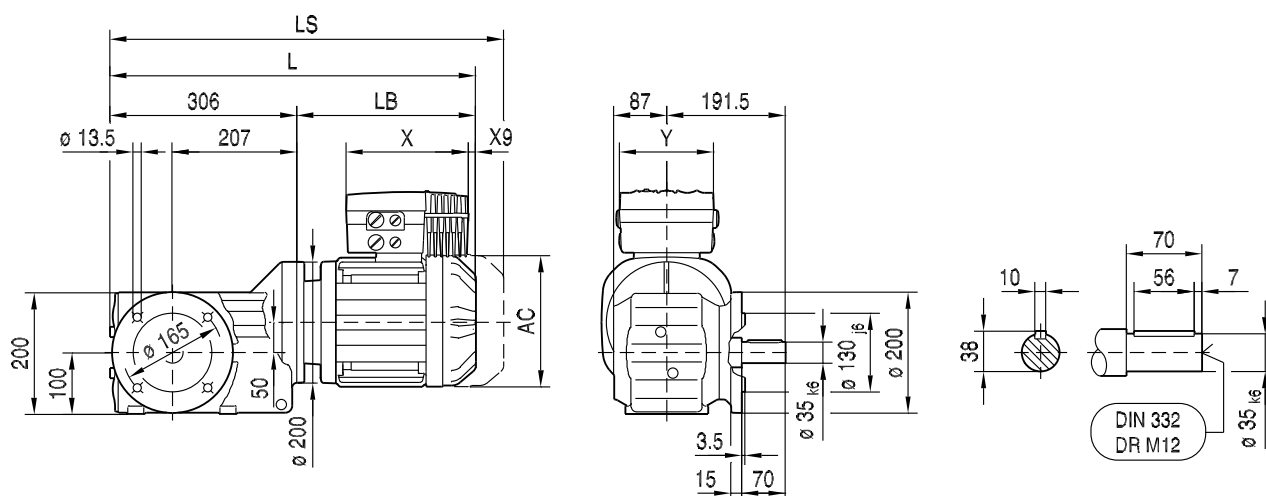
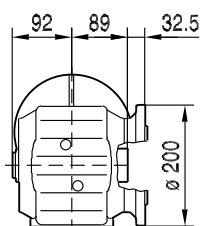
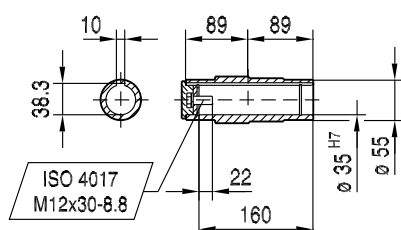
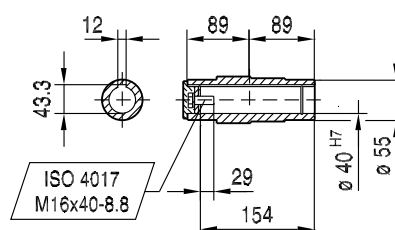


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(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	522	575	577	577	609	609	605	655	686
LS	589	656	670	670	702	702	699	749	798
LB	215	268	270	270	302	302	298	348	379
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

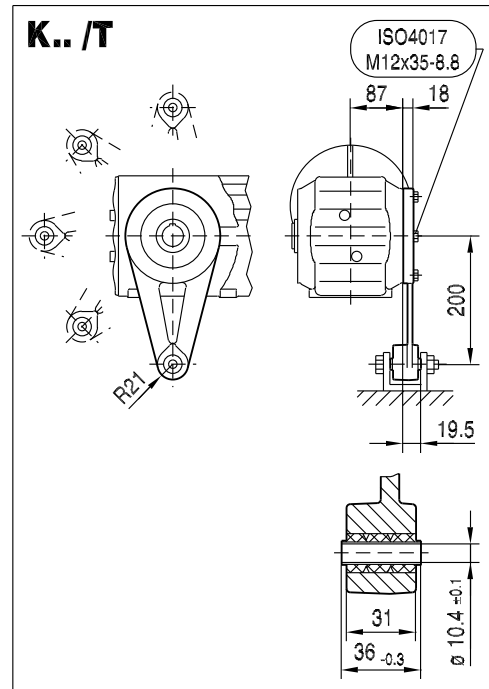
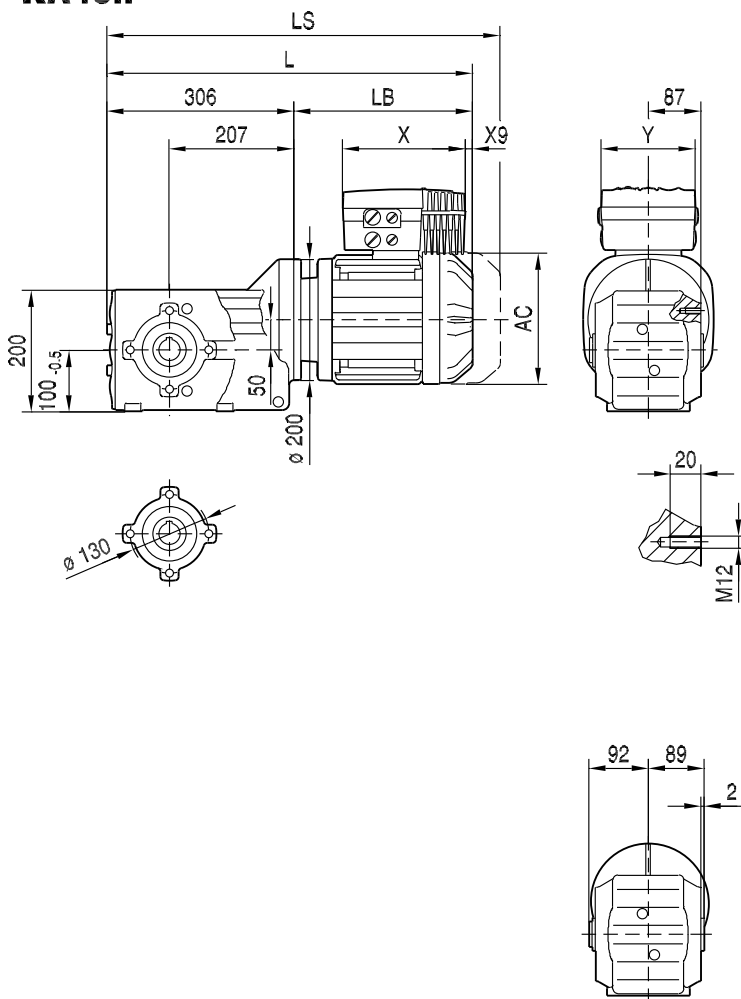
33 125 00 16

KF49..**KAF49..** **$\phi 35$ H7** **$\phi 40$ H7**

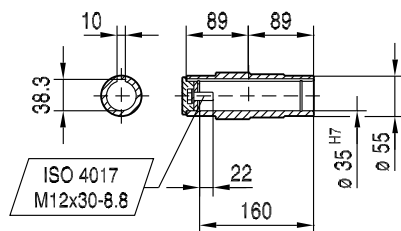
(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	521	574	576	576	608	608	604	654	685
LS	588	655	669	669	701	701	698	748	797
LB	215	268	270	270	302	302	298	348	379
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

KA49..

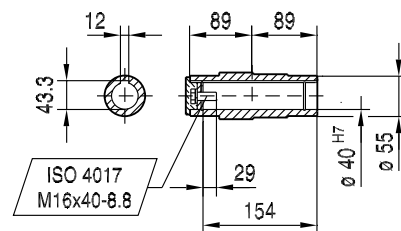
33 126 00 16



Ø 35 H7



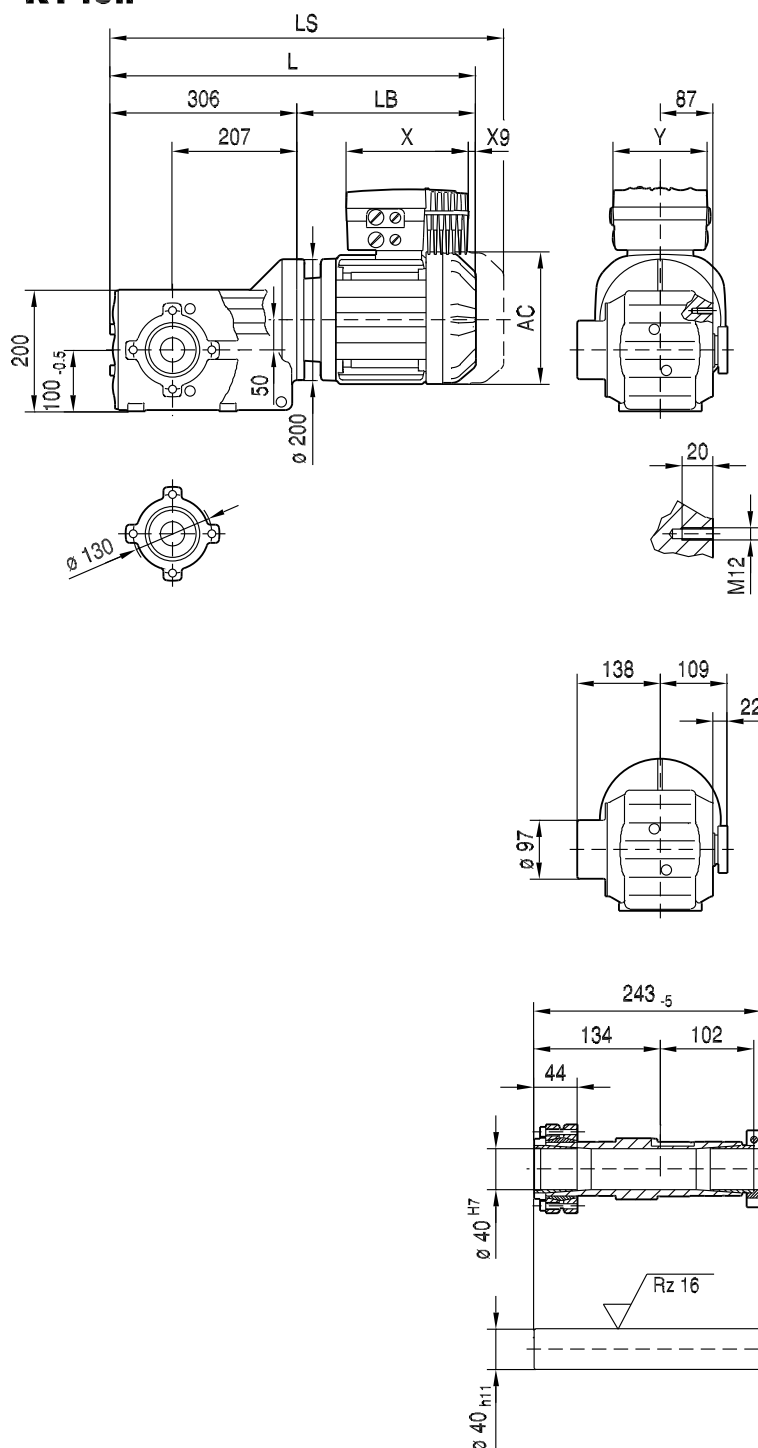
Ø 40 H7



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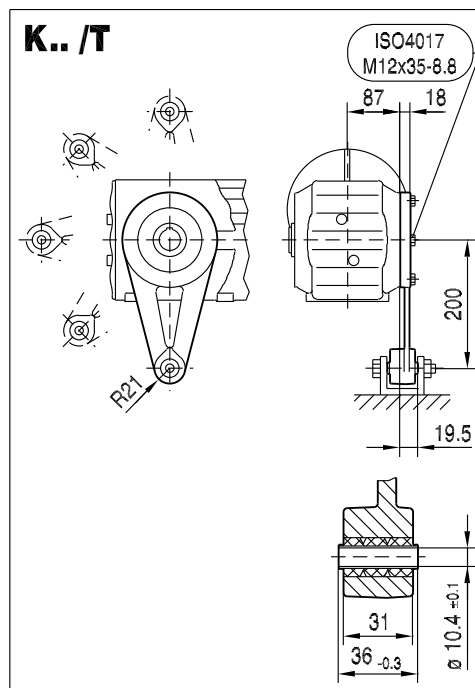
(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	521	574	576	576	608	608	604	654	685
LS	588	655	669	669	701	701	698	748	797
LB	215	268	270	270	302	302	298	348	379
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

KT49..



33 127 00 16

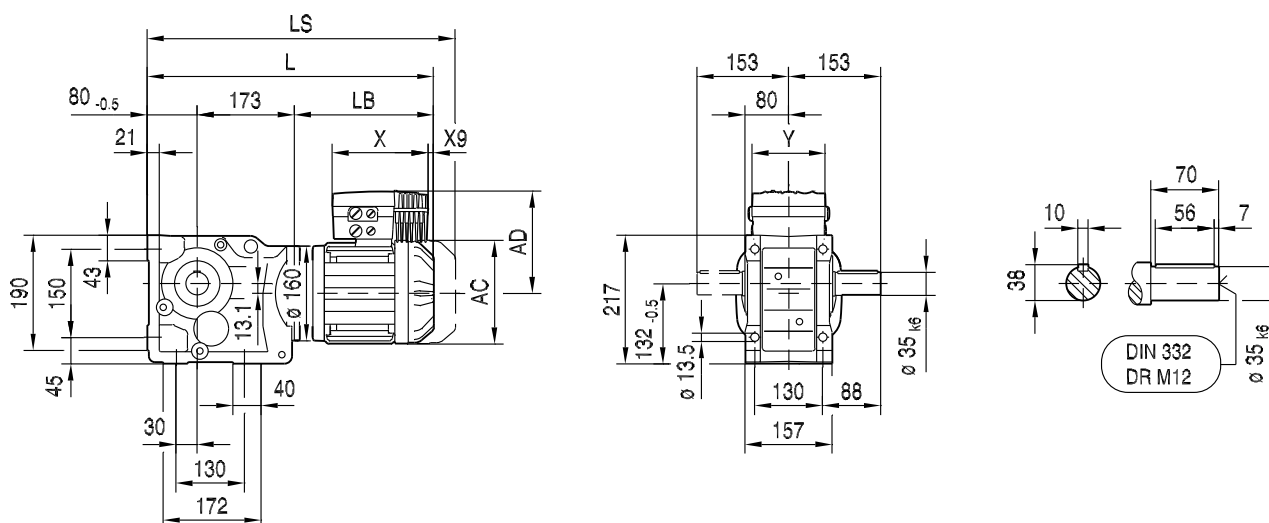
K.. /T



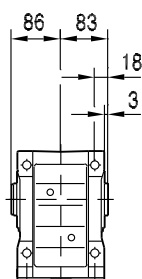
(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	521	574	576	576	608	608	604	654	685
LS	588	655	669	669	701	701	698	748	797
LB	215	268	270	270	302	302	298	348	379
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

K57..

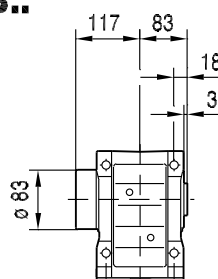
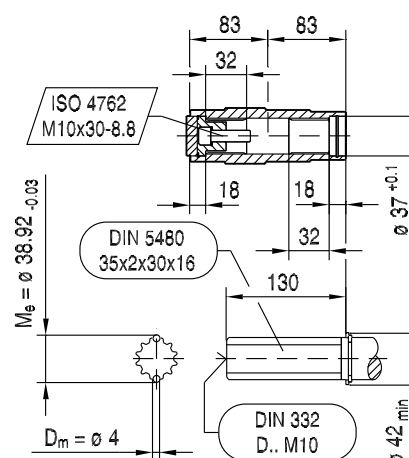
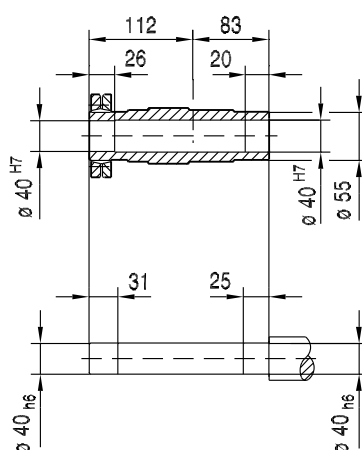
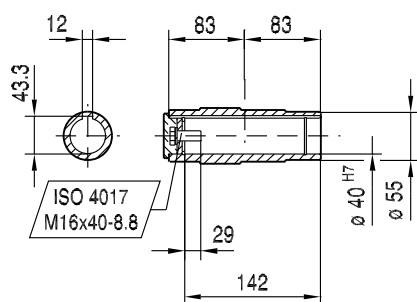
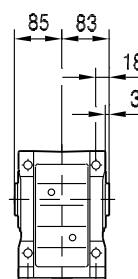
33 128 00 16



KA57B..



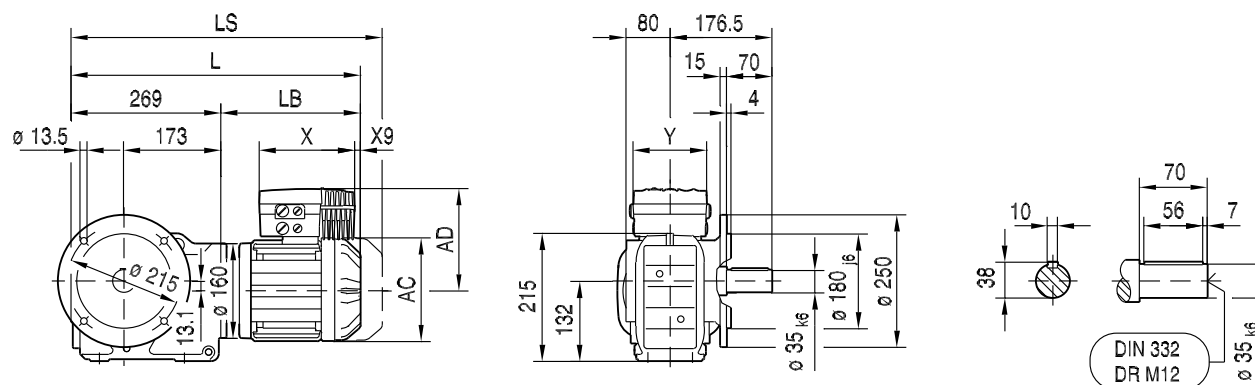
KH57B..

**KV57B..**

(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	449	474	528	530	530	562	562	558	608	639
LS	516	541	609	623	623	655	655	652	702	751
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

KF57..

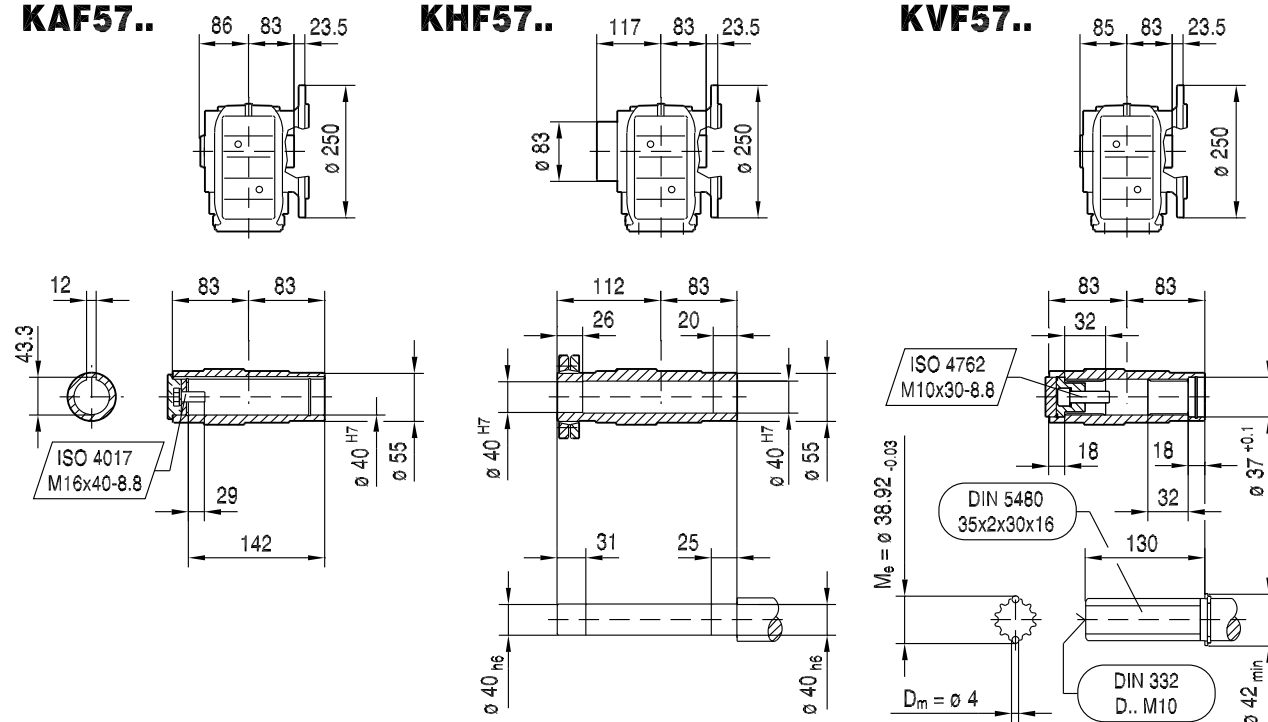
33 129 00 16



KAF57..

KHF57..

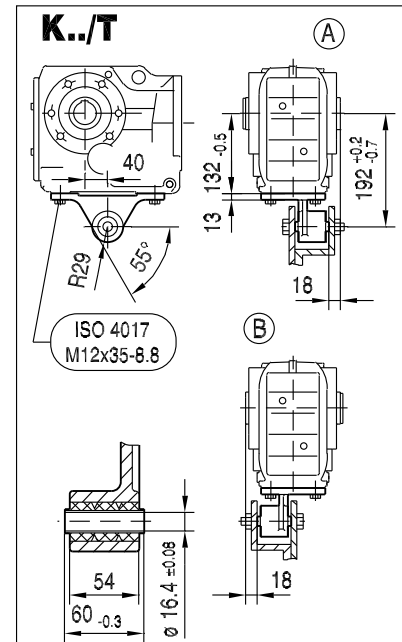
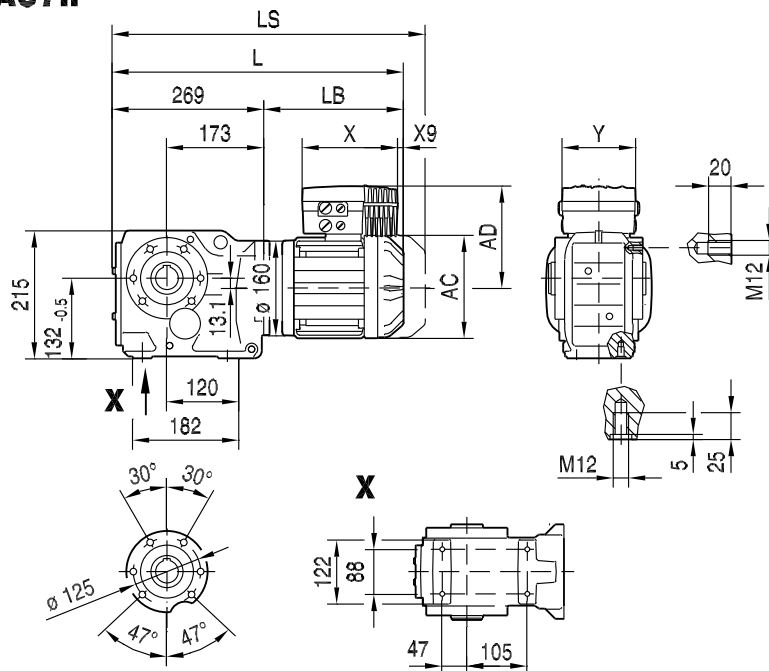
KVF57..



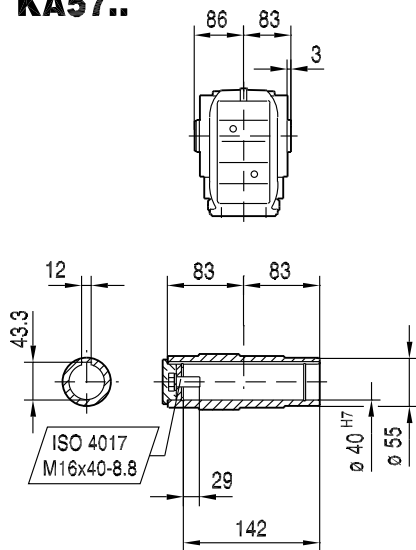
(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	465	490	544	546	546	578	578	574	624	655
LS	532	557	625	639	639	671	671	668	718	767
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

33 130 00 16

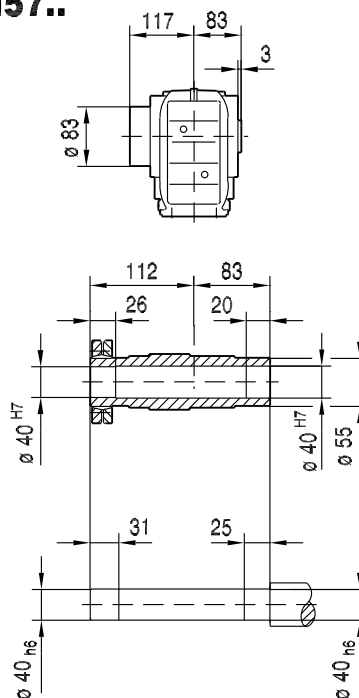
KA57..



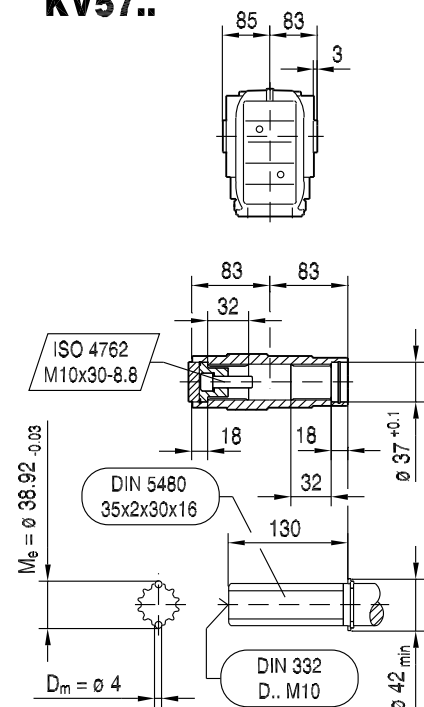
KA57..



KH57..

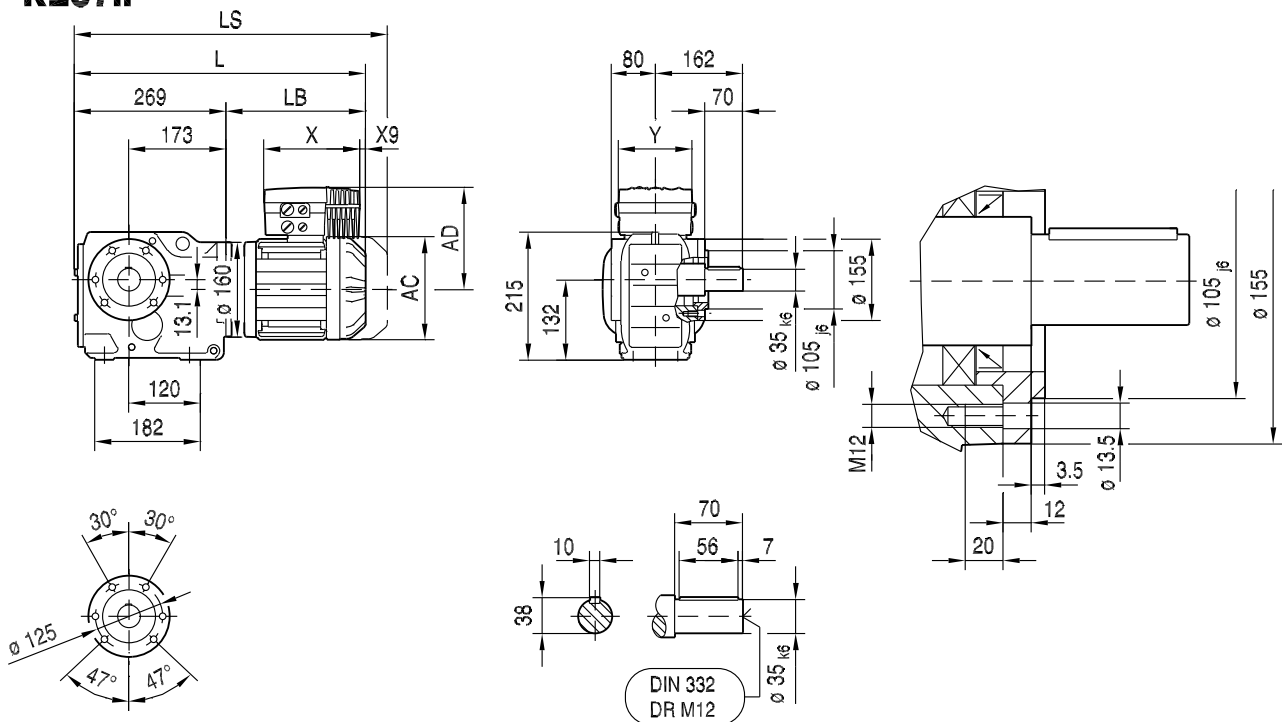


KV57..



(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	465	490	544	546	546	578	578	574	624	655
LS	532	557	625	639	639	671	671	668	718	767
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

33 132 00 16

KZ57..

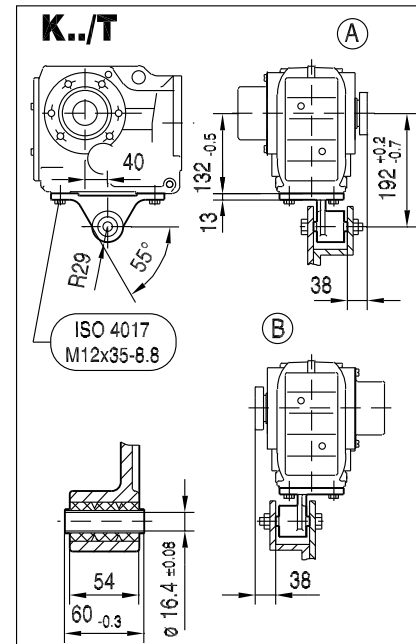
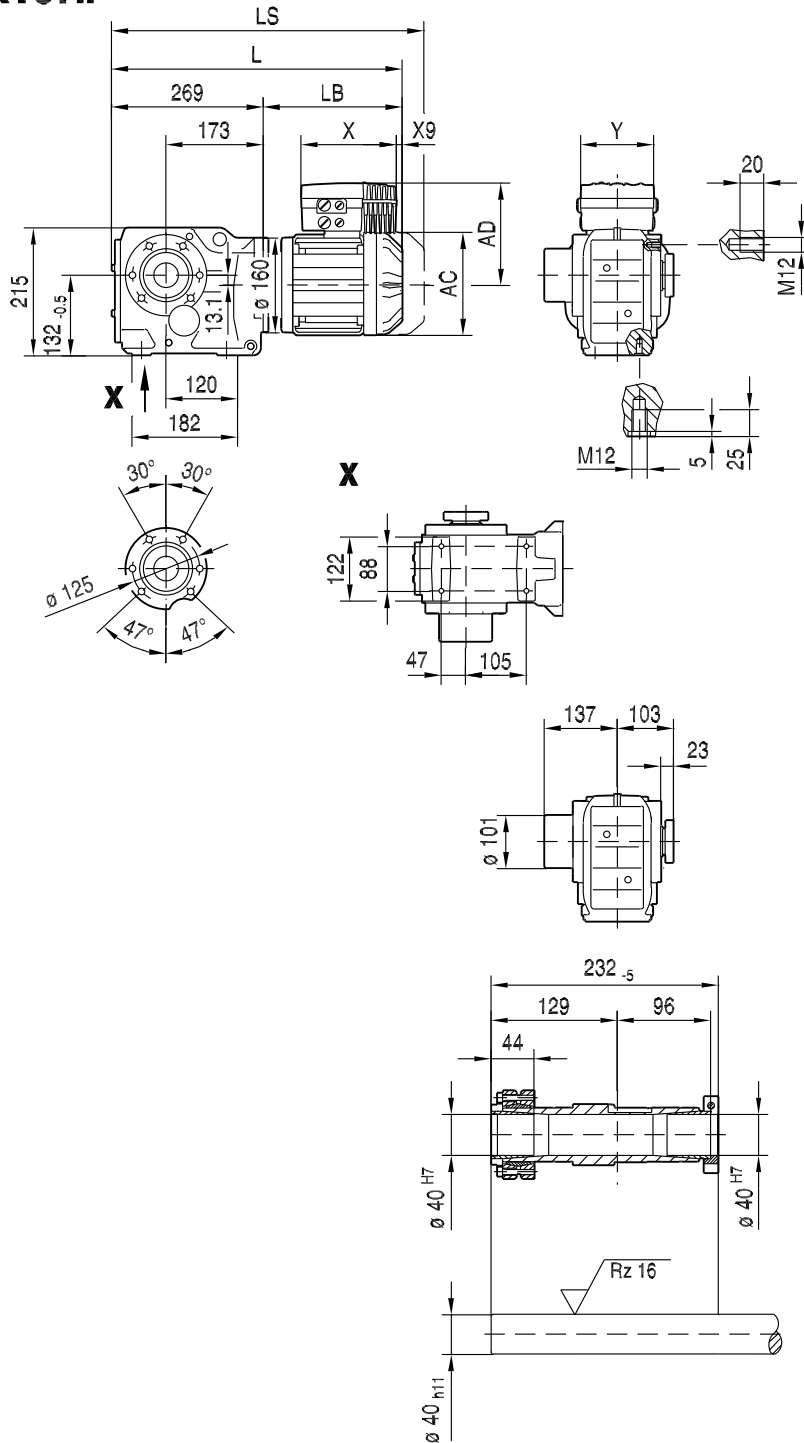
10

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(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	465	490	544	546	546	578	578	574	624	655
LS	532	557	625	639	639	671	671	668	718	767
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

KT57..

33 133 00 16

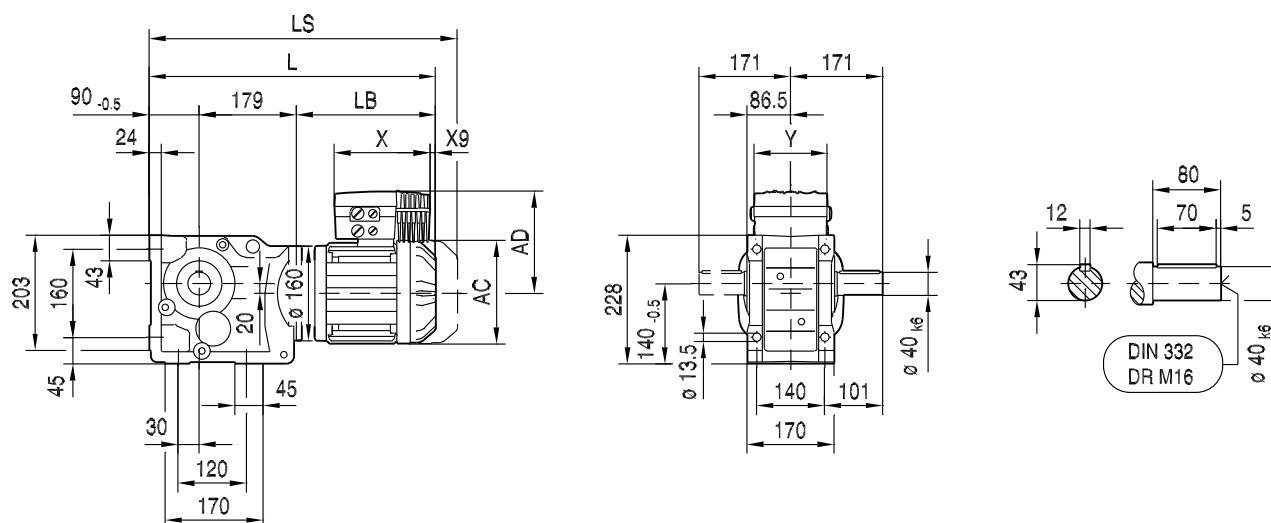


(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	465	490	544	546	546	578	578	574	624	655
LS	532	557	625	639	639	671	671	668	718	767
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

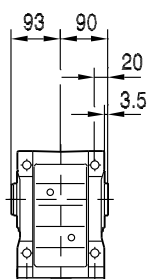
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K67..

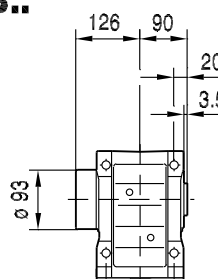
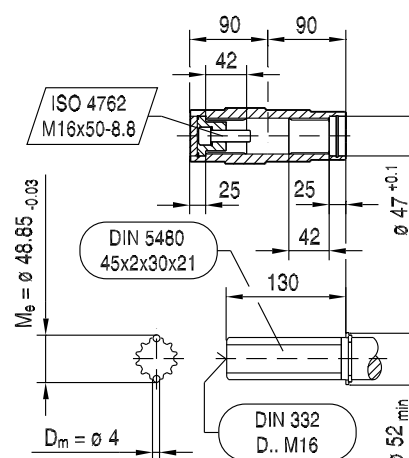
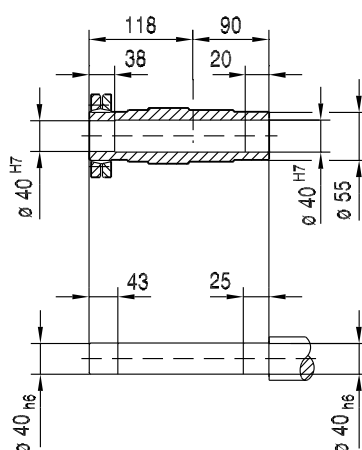
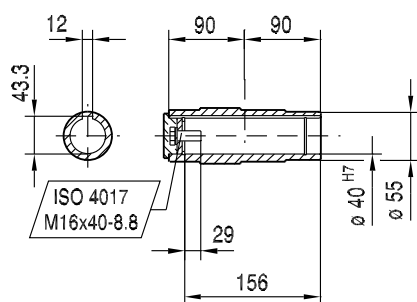
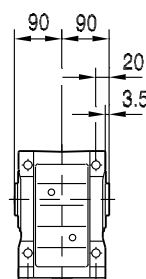
33 134 00 16



KA67B..



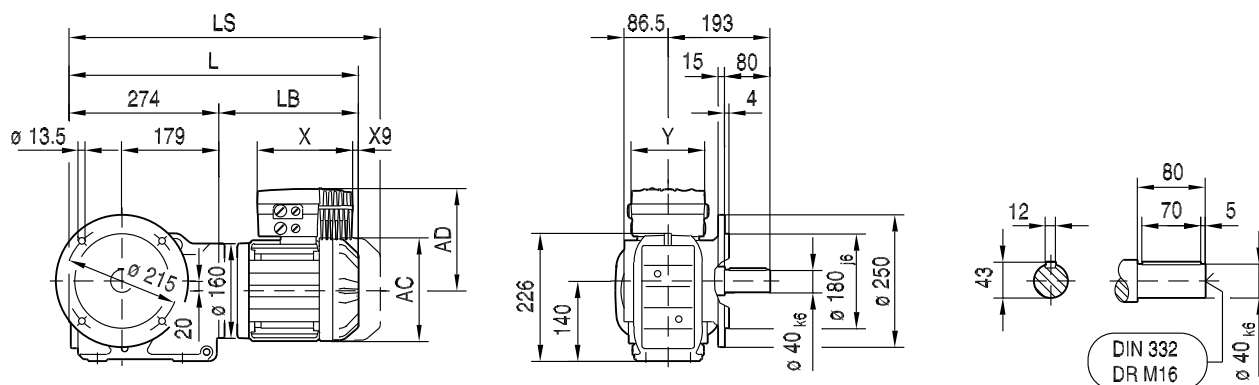
KH67B..

**KV67B..**

(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	465	490	544	546	546	578	578	574	624	655
LS	532	557	625	639	639	671	671	668	718	767
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

KF67..

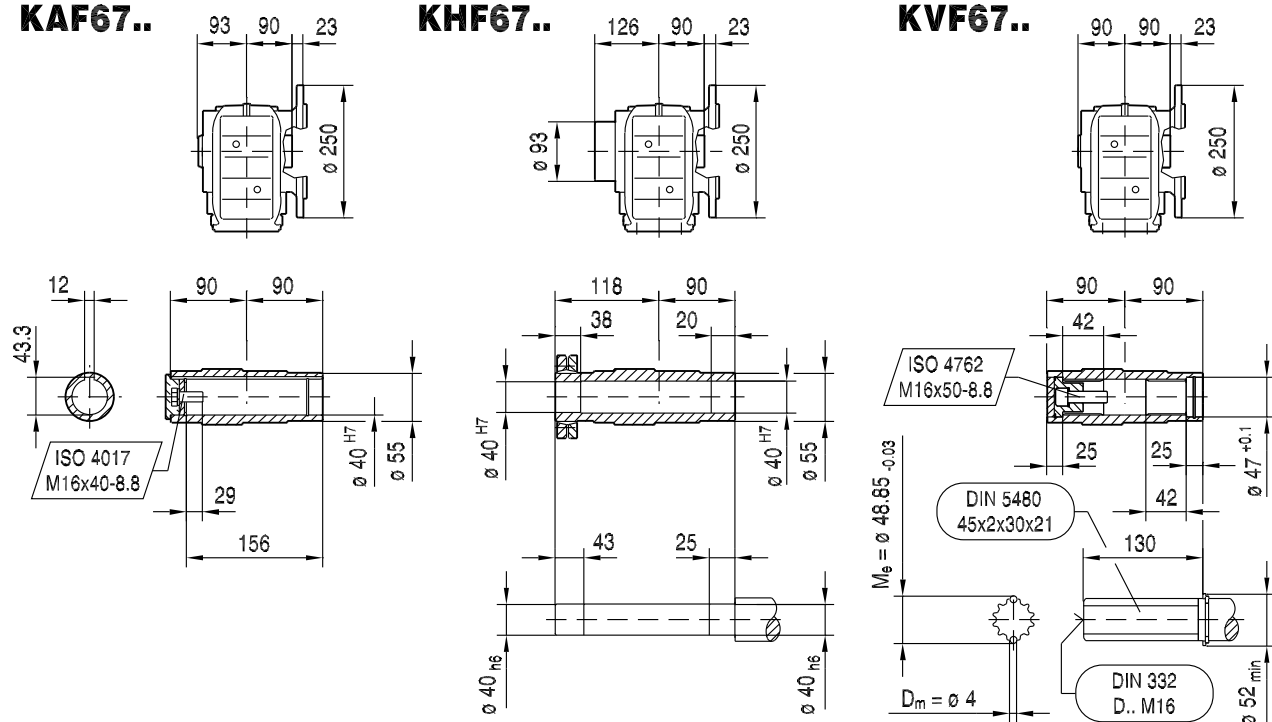
33 135 00 16



KAF67..

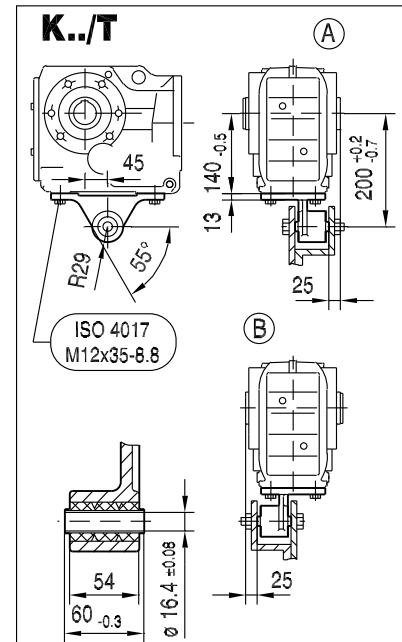
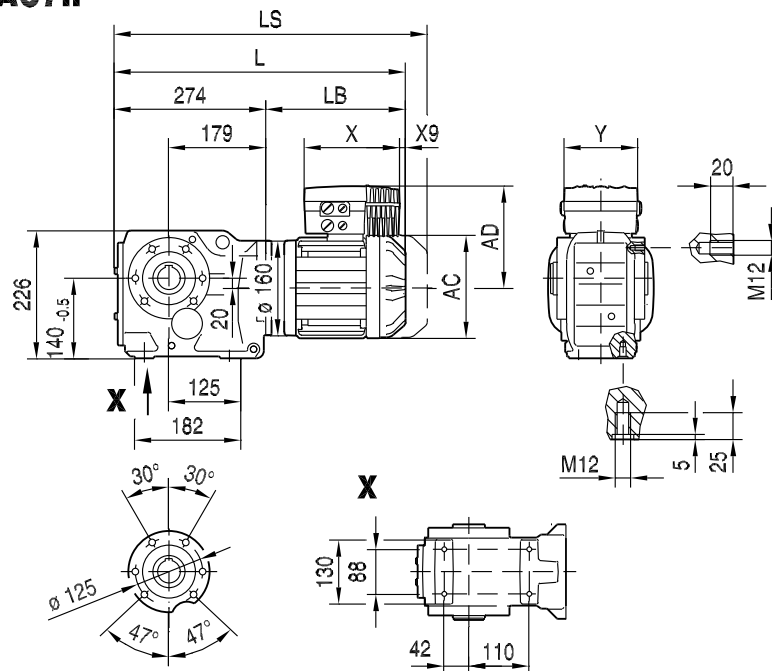
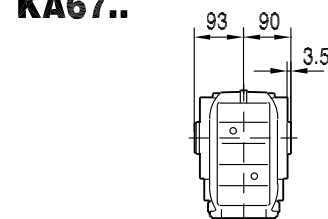
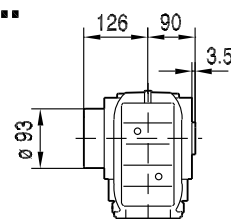
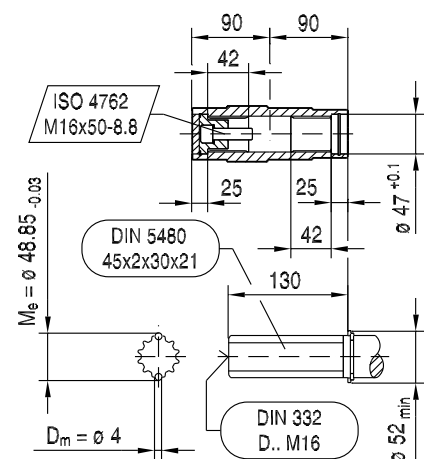
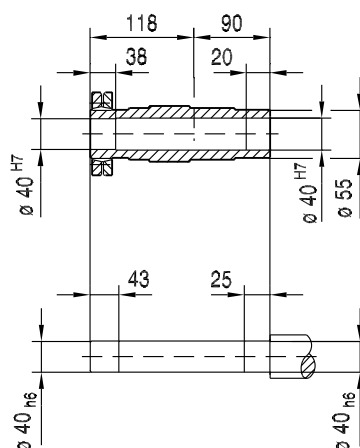
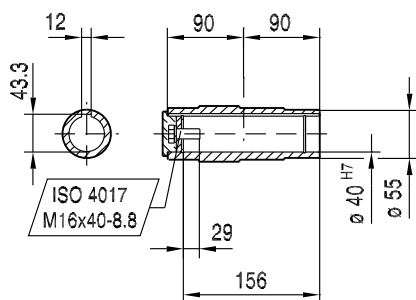
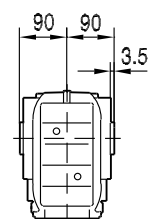
KHF67..

KVF67..



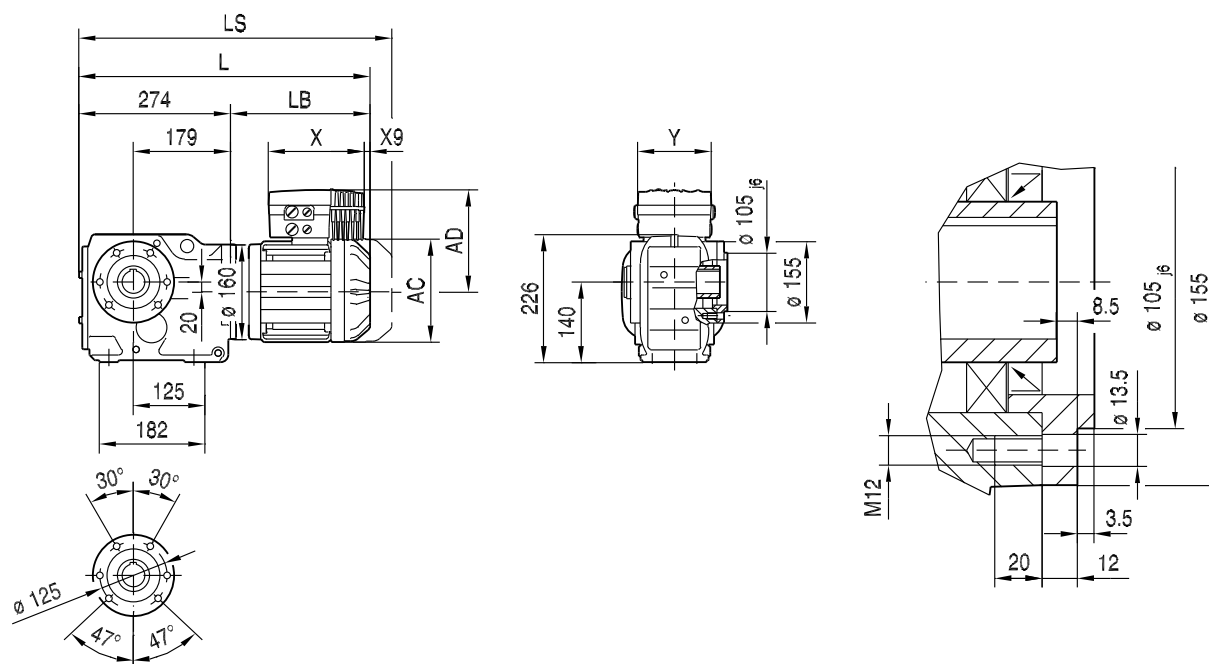
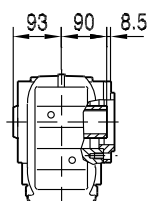
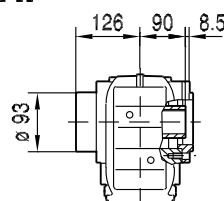
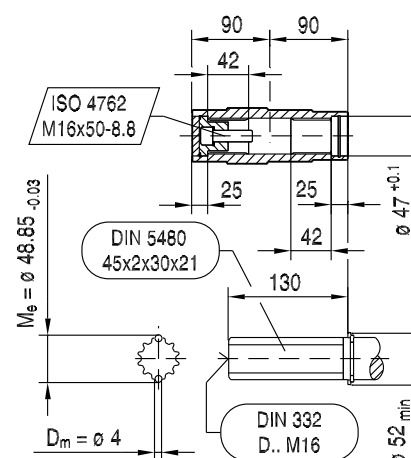
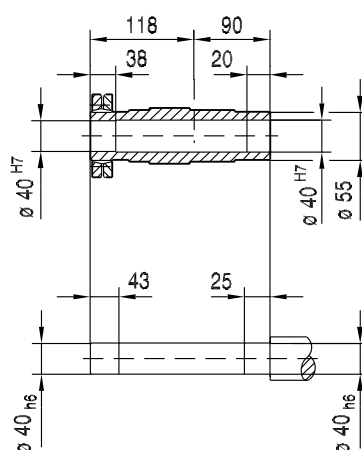
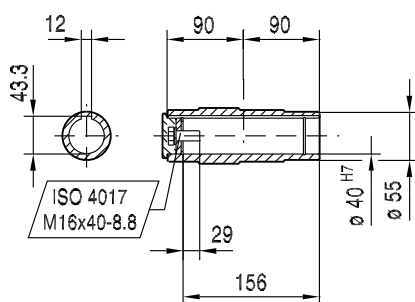
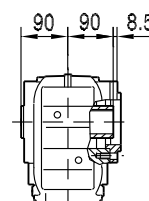
(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	470	495	549	551	551	583	583	579	629	660
LS	537	562	630	644	644	676	676	673	723	772
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

33 136 00 16

KA67..**KA67..****KH67..****KV67..**

(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	470	495	549	551	551	583	583	579	629	660
LS	537	562	630	644	644	676	676	673	723	772
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

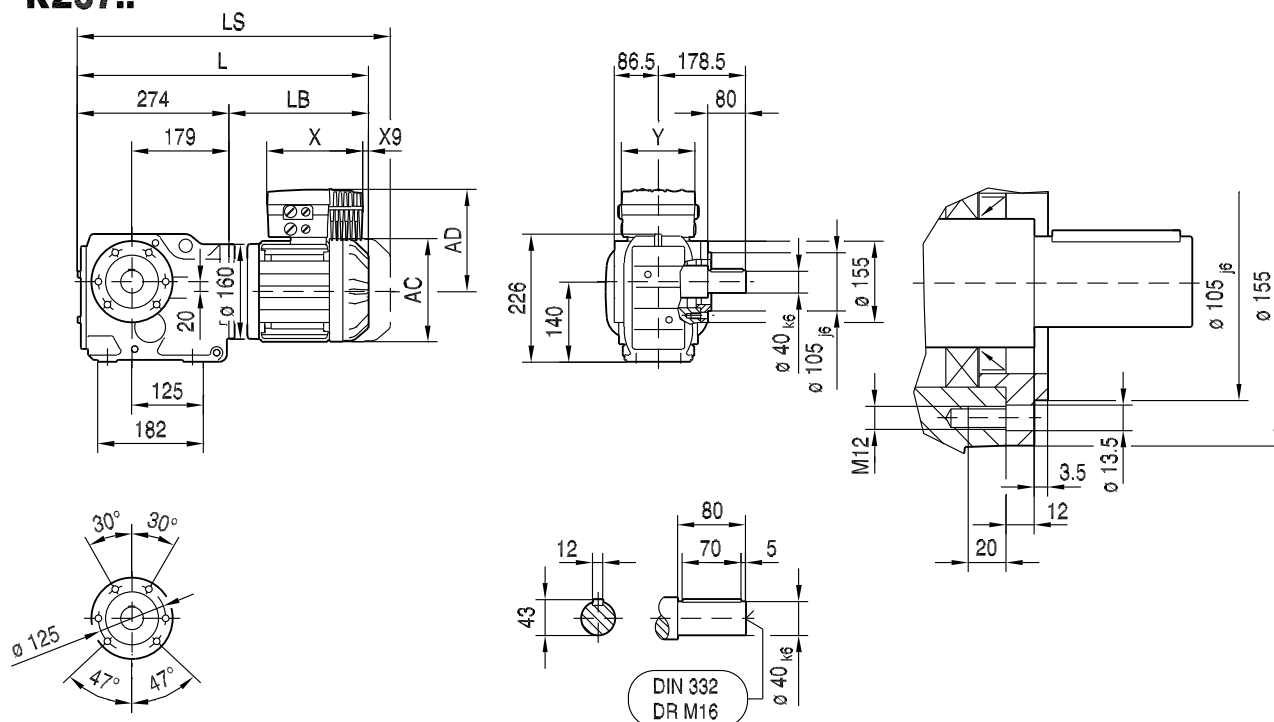
33 137 00 16

KAZ67..**KAZ67..****KHZ67..****KVZ67..**

(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	470	495	549	551	551	583	583	579	629	660
LS	537	562	630	644	644	676	676	673	723	772
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

33 138 00 16

KZ67..



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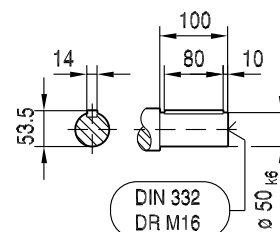
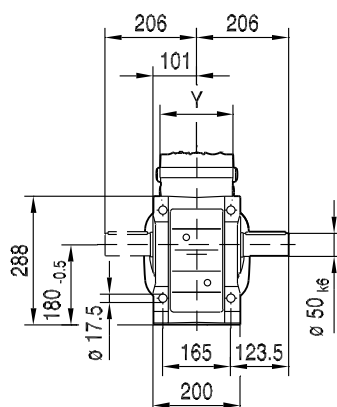
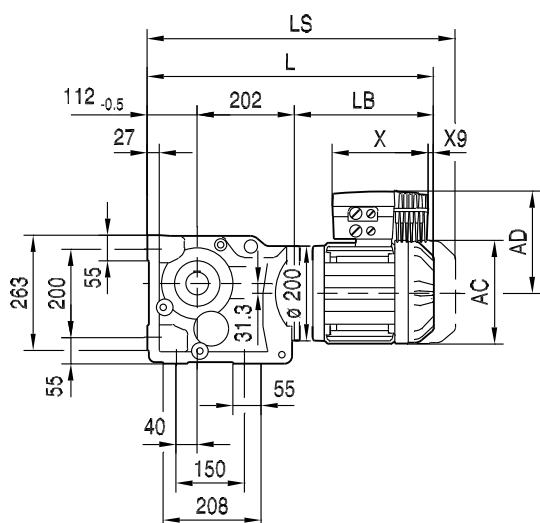
(→ 149)	DR71S. MM..	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	139	156	179	179	179	179	197	197	221
AD	185	185	197	208	208	208	208	216	216	230
L	470	495	549	551	551	583	583	579	629	660
LS	537	562	630	644	644	676	676	673	723	772
LB	196	221	275	277	277	309	309	305	355	386
X	182	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	148	186	148	186	186	186	186

Technical drawing of a DIN 509 F1x0.2 screw. The drawing shows a side view of the screw with dimensions: a total length of 237.5, a head diameter of 103, and a thread diameter of 48. The screw is labeled 'DIN509 F1x0.2'.

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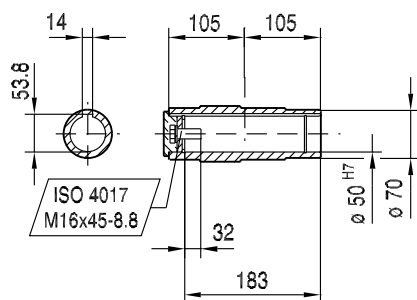
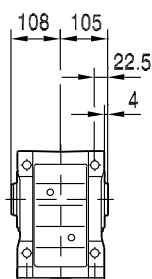
33 140 00 16

K77..

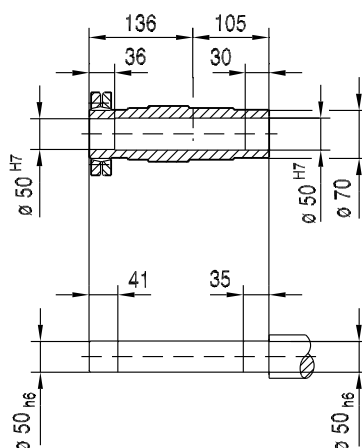
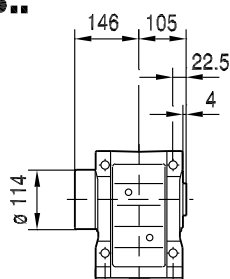


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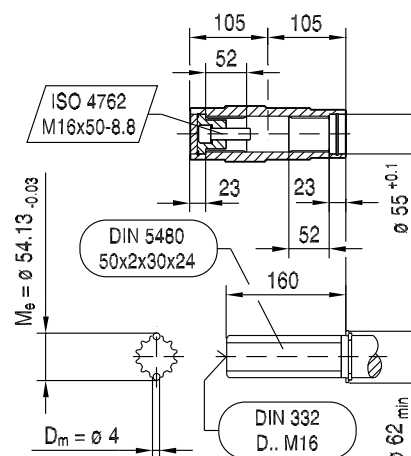
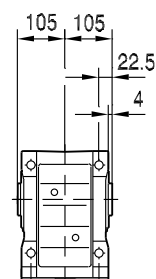
KA77B..



KH77B..



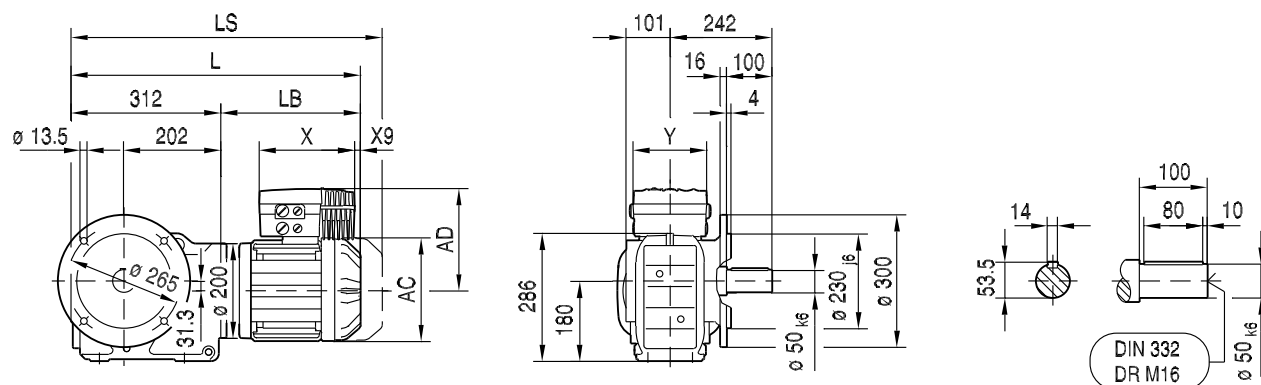
KV77B..



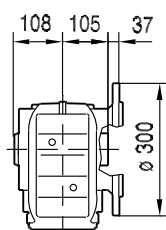
(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	529	582	584	584	616	616	612	662	693
LS	596	663	677	677	709	709	706	756	805
LB	215	268	270	270	302	302	298	348	379
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

33 141 00 16

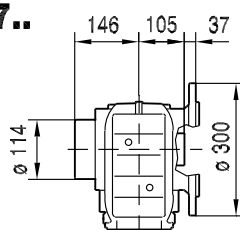
KF77..



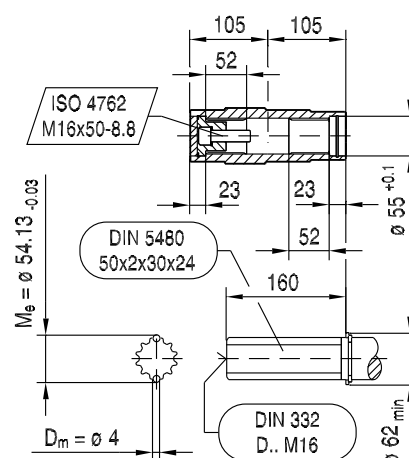
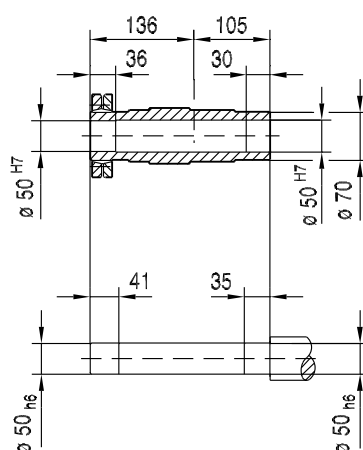
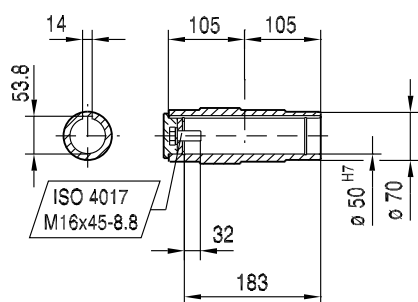
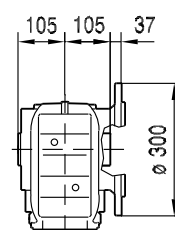
KAF77..



KHF77..



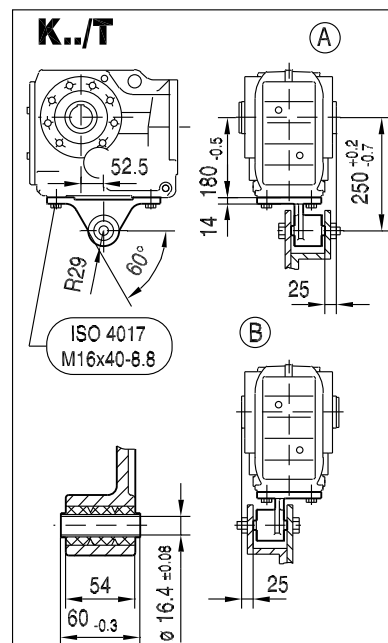
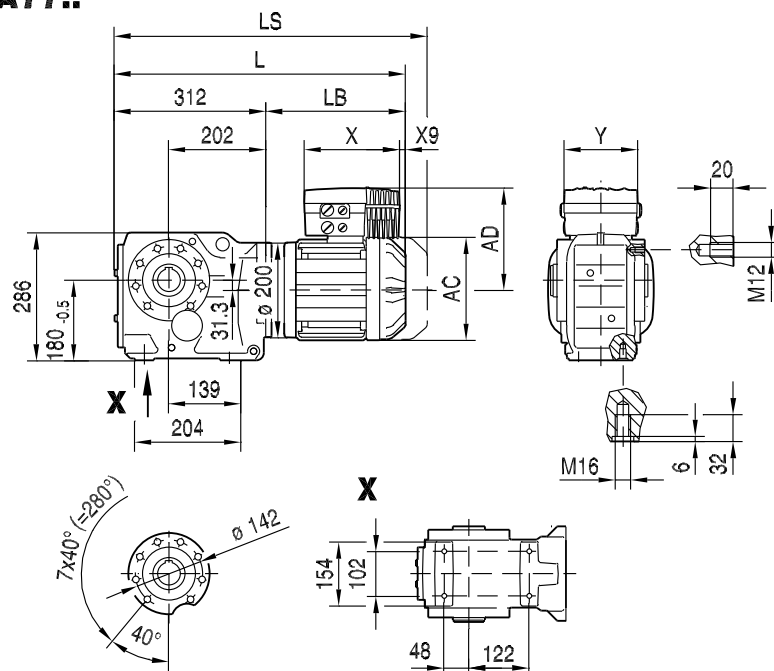
KVF77..



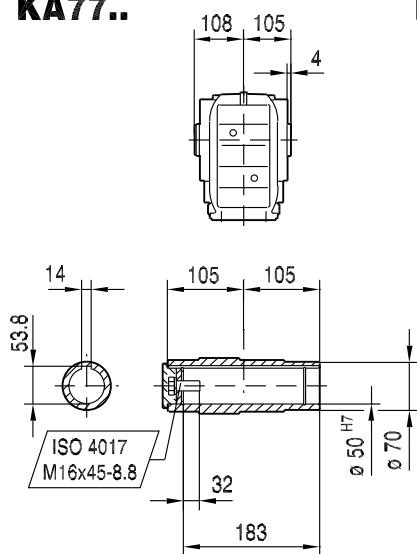
(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	527	580	582	582	614	614	610	660	691
LS	594	661	675	675	707	707	704	754	803
LB	215	268	270	270	302	302	298	348	379
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

KA77..

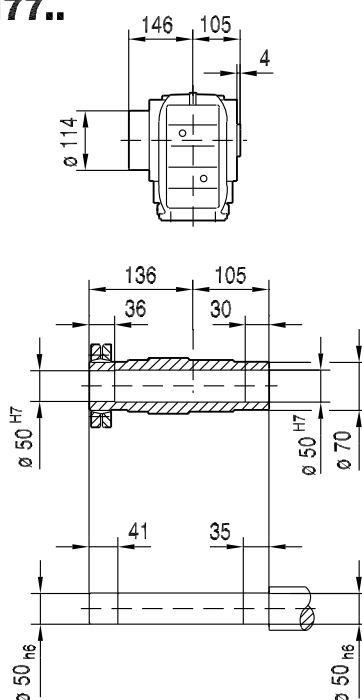
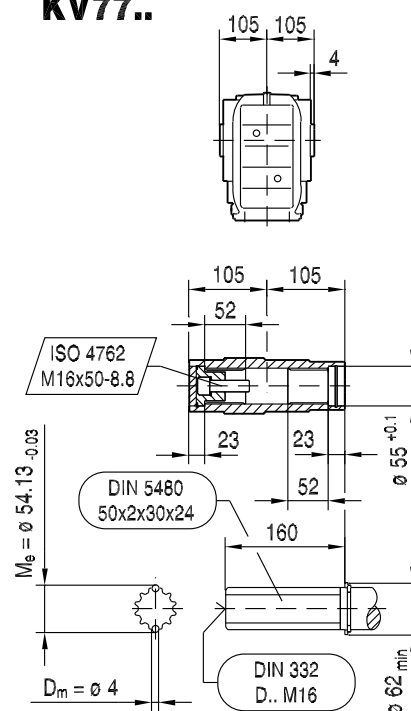
33 142 00 16



KA77..

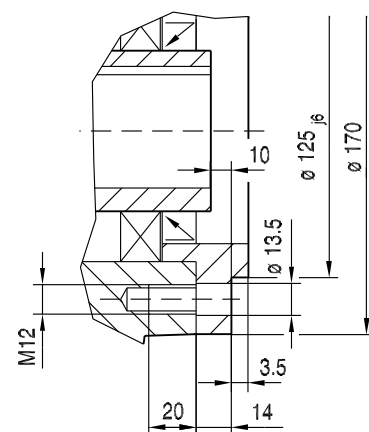
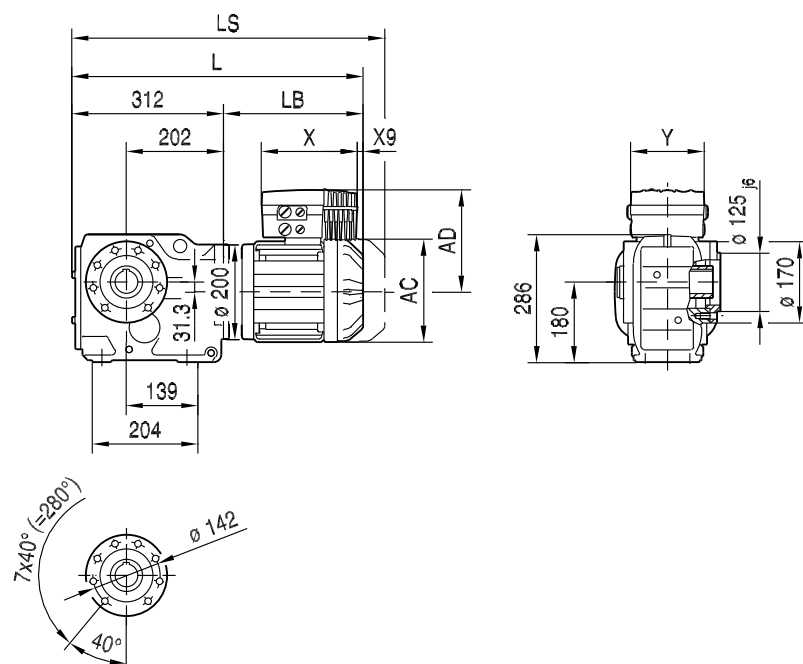
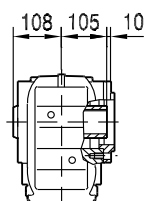
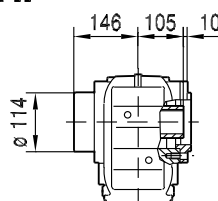
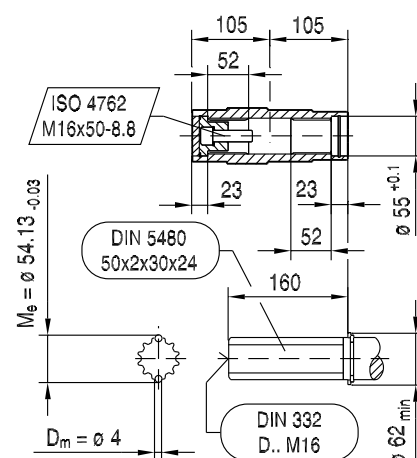
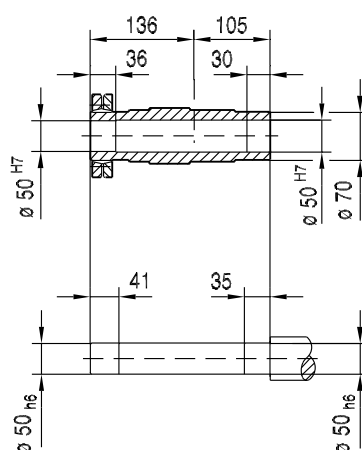
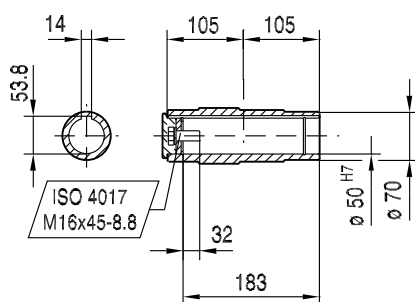
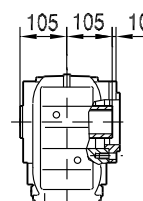


KH77..

**KV77...**

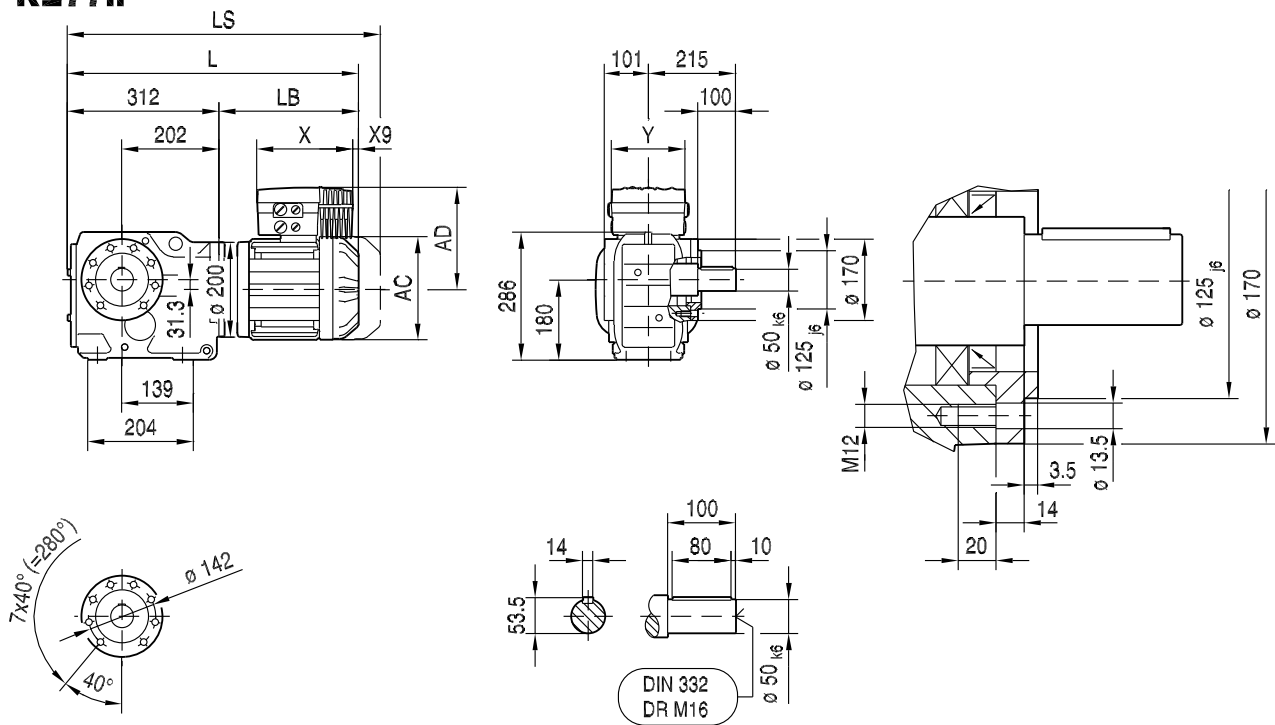
(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	527	580	582	582	614	614	610	660	691
LS	594	661	675	675	707	707	704	754	803
LB	215	268	270	270	302	302	298	348	379
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

33 143 00 16

KAZ77..**KAZ77..****KHZ77..****KVZ77..**

(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	527	580	582	582	614	614	610	660	691
LS	594	661	675	675	707	707	704	754	803
LB	215	268	270	270	302	302	298	348	379
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

33 144 00 16

KZ77..

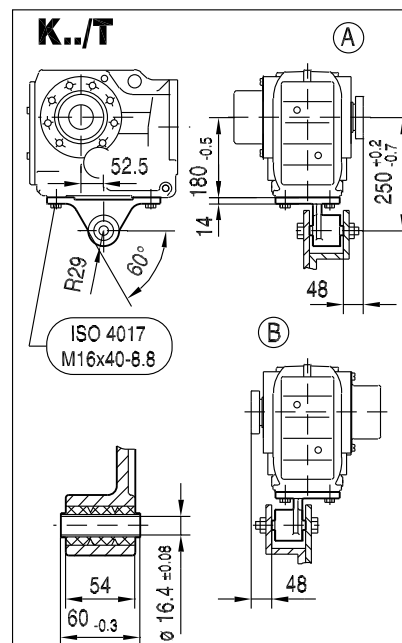
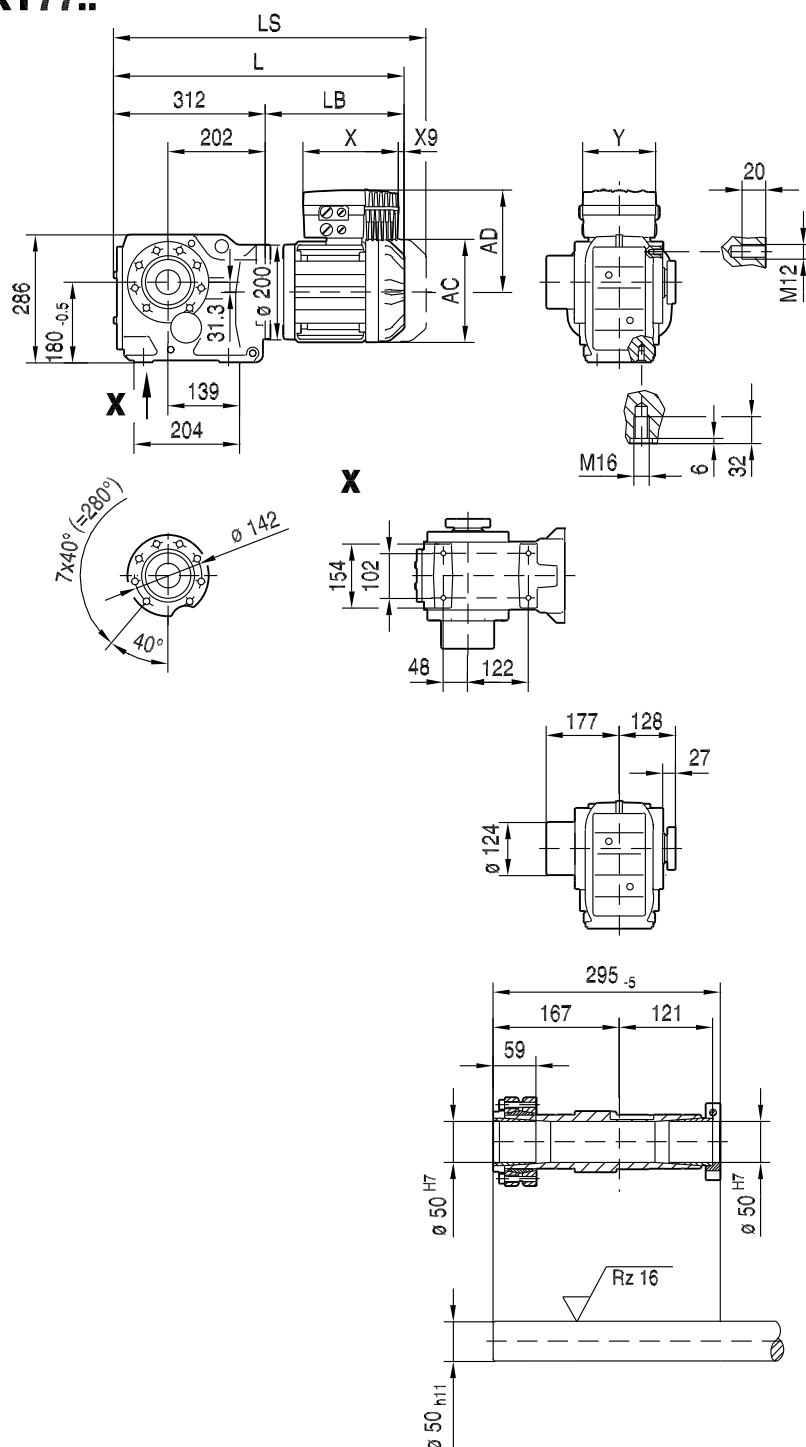
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(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	527	580	582	582	614	614	610	660	691
LS	594	661	675	675	707	707	704	754	803
LB	215	268	270	270	302	302	298	348	379
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

KT77..

33 145 00 16

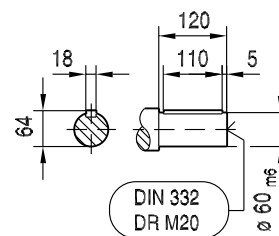
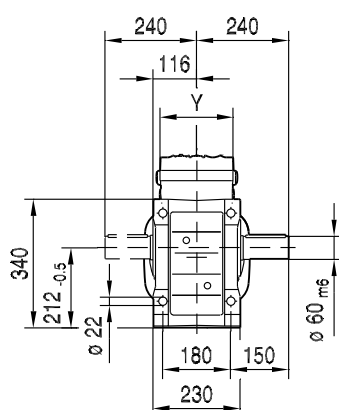
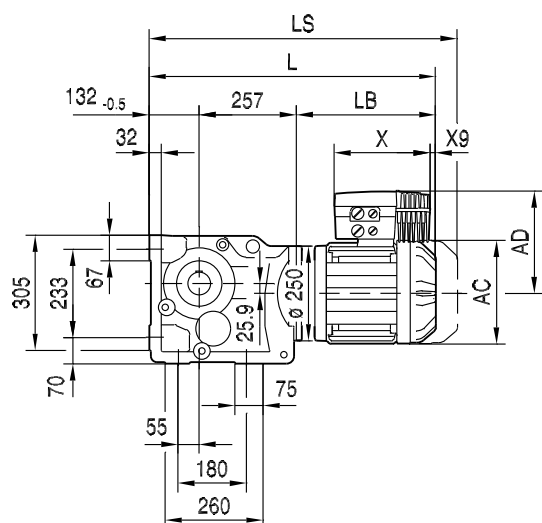


(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	527	580	582	582	614	614	610	660	691
LS	594	661	675	675	707	707	704	754	803
LB	215	268	270	270	302	302	298	348	379
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

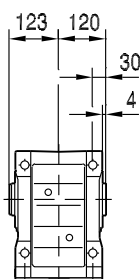
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K87..

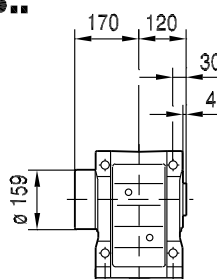
33 146 00 16



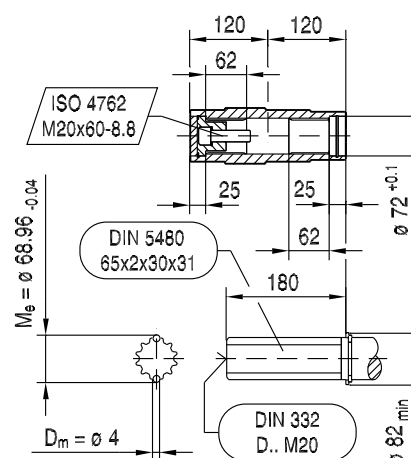
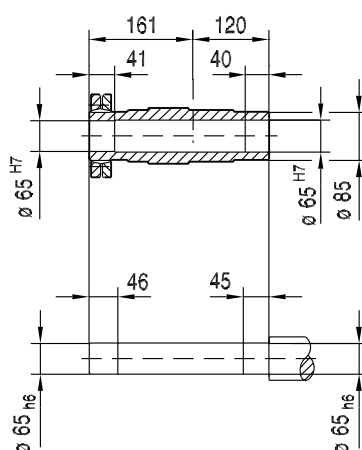
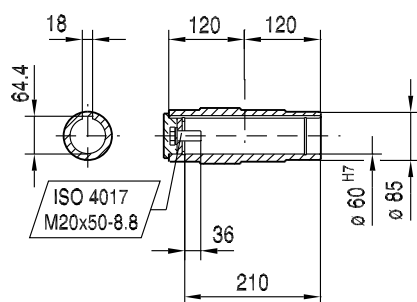
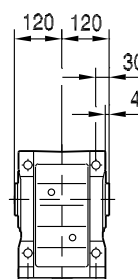
KA87B..



KH87B..



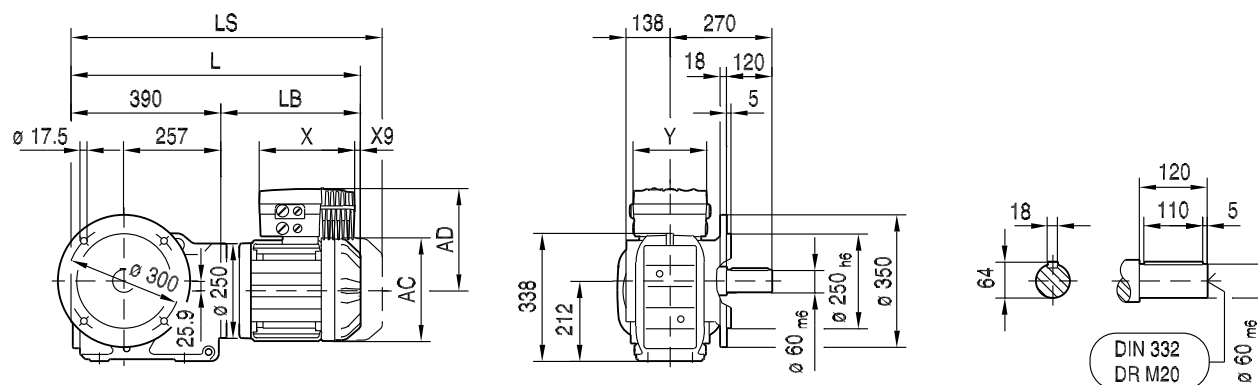
KV87B..



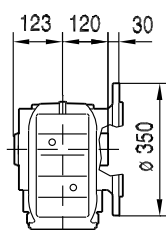
(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	598	652	654	654	686	686	682	732	763
LS	665	733	747	747	779	779	776	826	875
LB	209	263	265	265	297	297	293	343	374
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

33 147 00 16

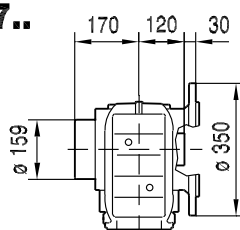
KF87..



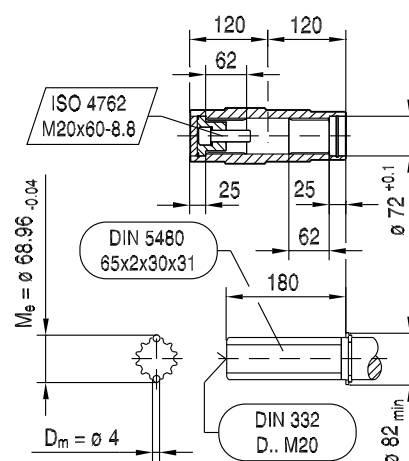
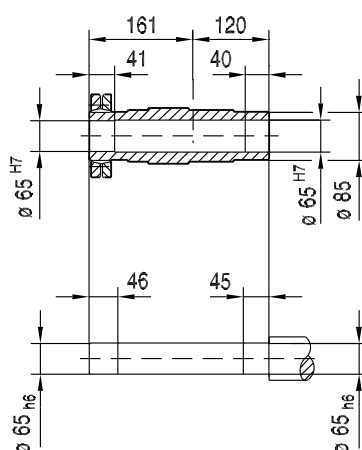
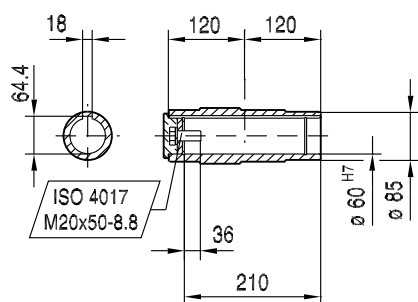
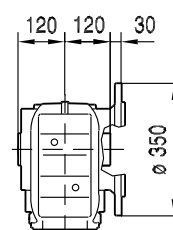
KAF87..



KHF87..



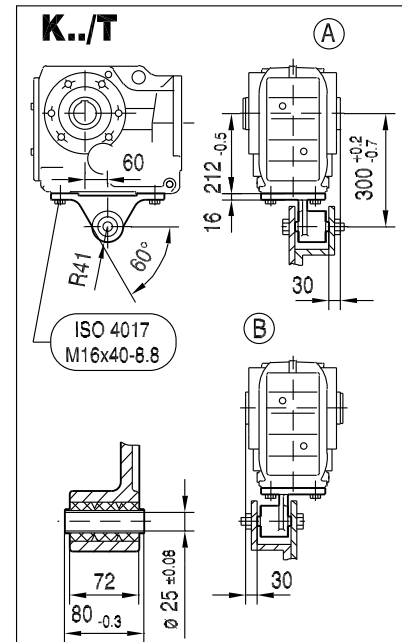
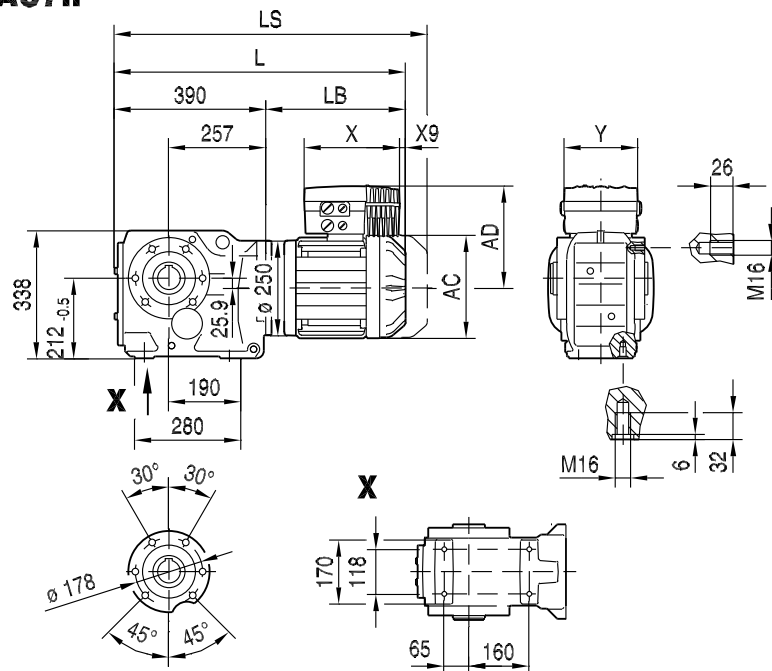
KVF87..



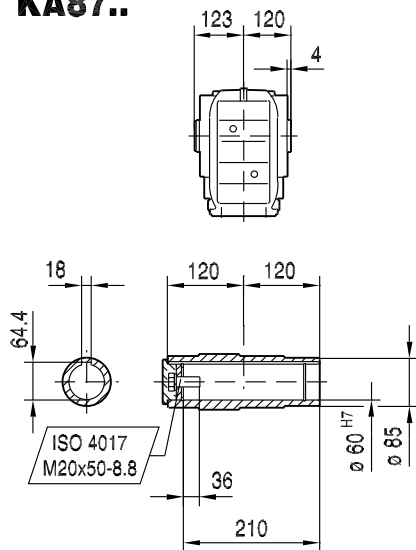
(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	599	653	655	655	687	687	683	733	764
LS	666	734	748	748	780	780	777	827	876
LB	209	263	265	265	297	297	293	343	374
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

33 148 00 16

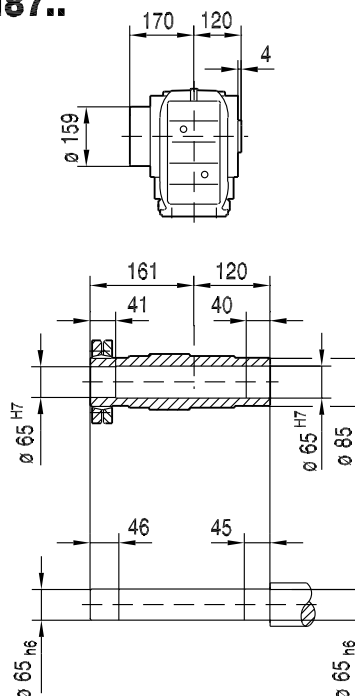
KA87..



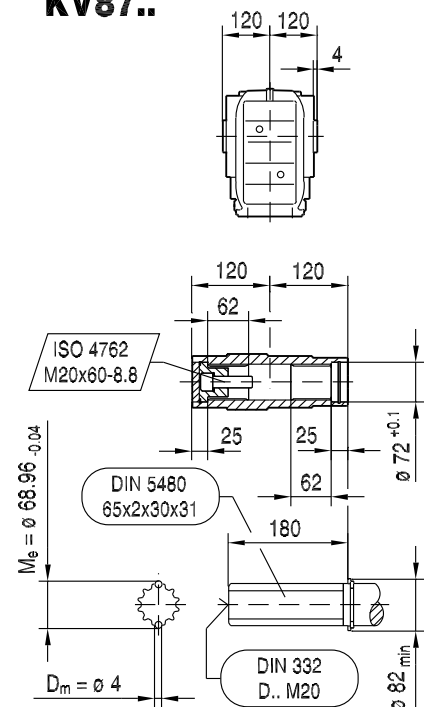
KA87..



KH87..

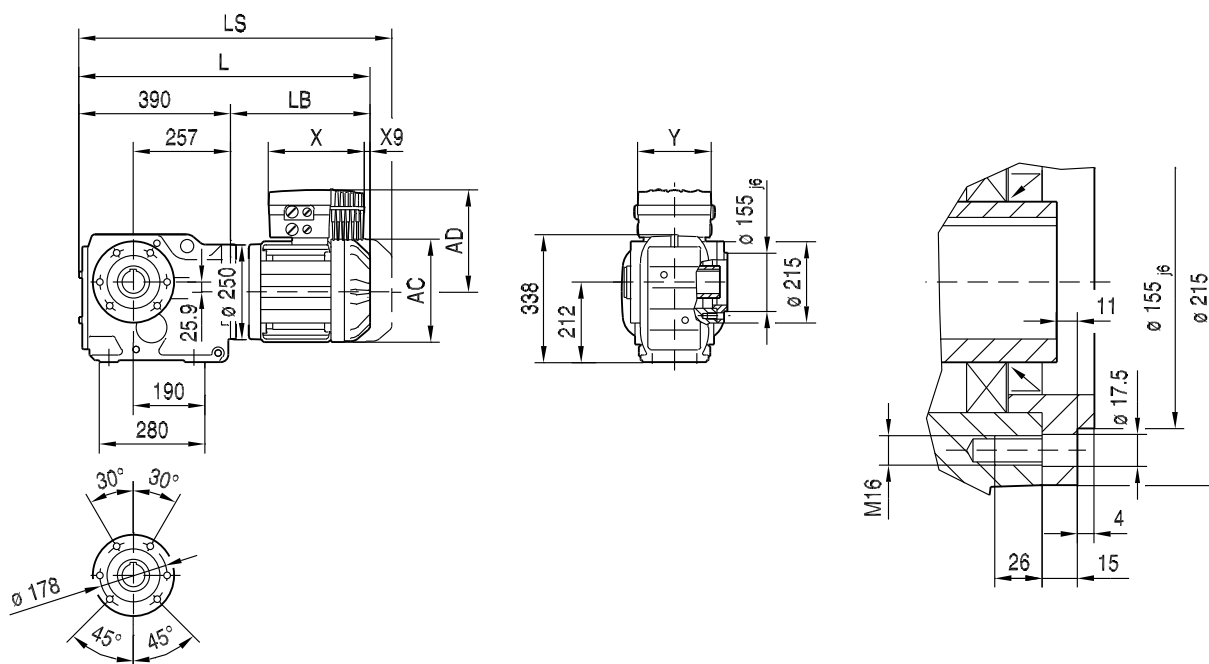
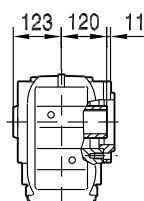
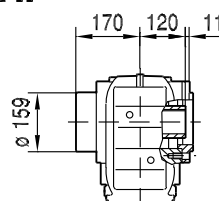
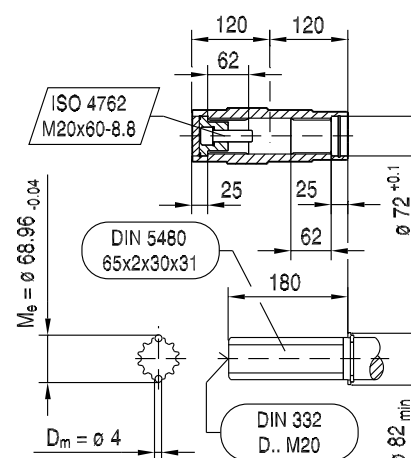
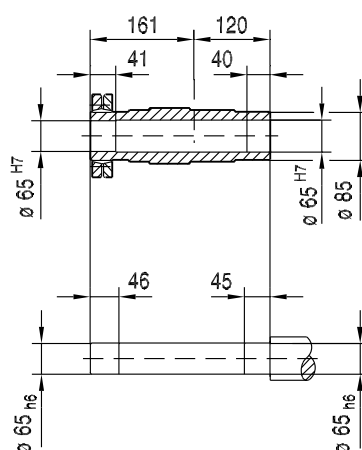
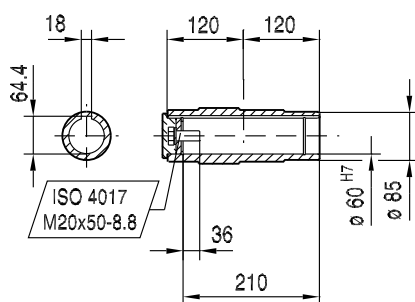
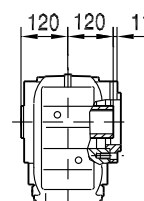


KV87..



(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	599	653	655	655	687	687	683	733	764
LS	666	734	748	748	780	780	777	827	876
LB	209	263	265	265	297	297	293	343	374
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

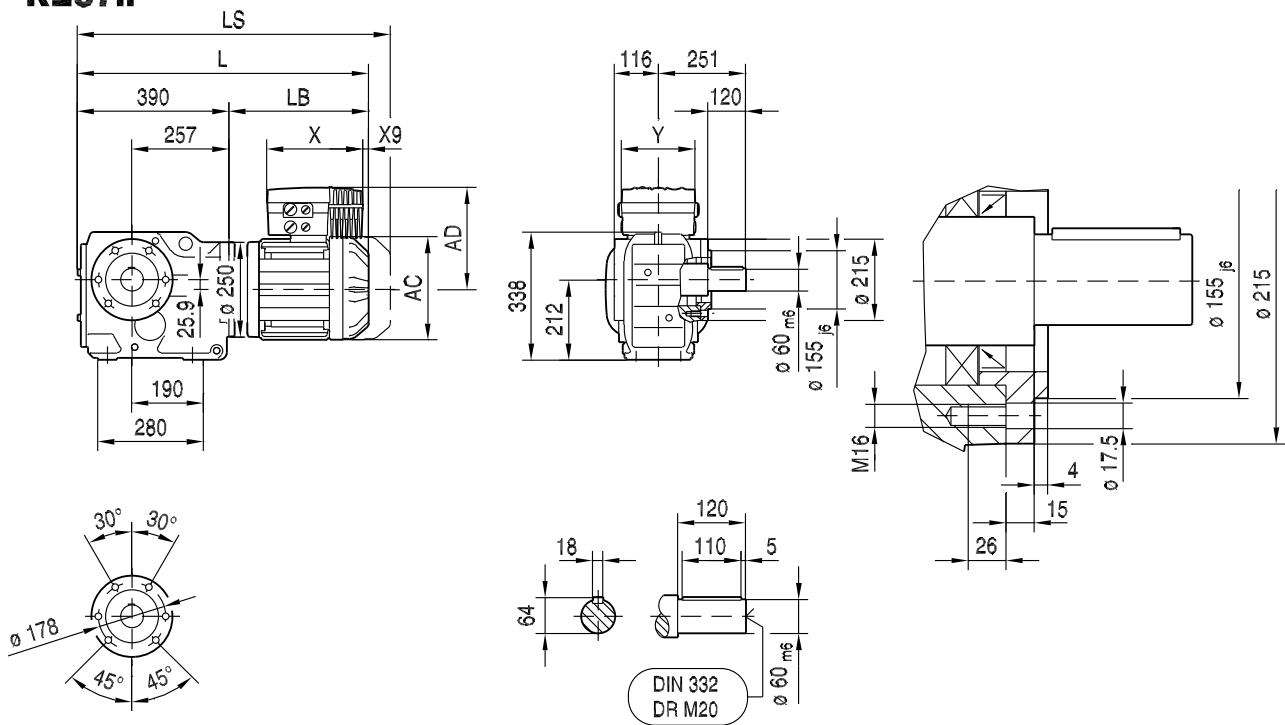
33 149 00 16

KAZ87..**KAZ87..****KHZ87..****KVZ87..**

(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	599	653	655	655	687	687	683	733	764
LS	666	734	748	748	780	780	777	827	876
LB	209	263	265	265	297	297	293	343	374
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

33 150 00 16

KZ87..



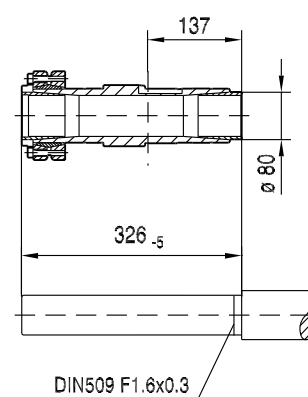
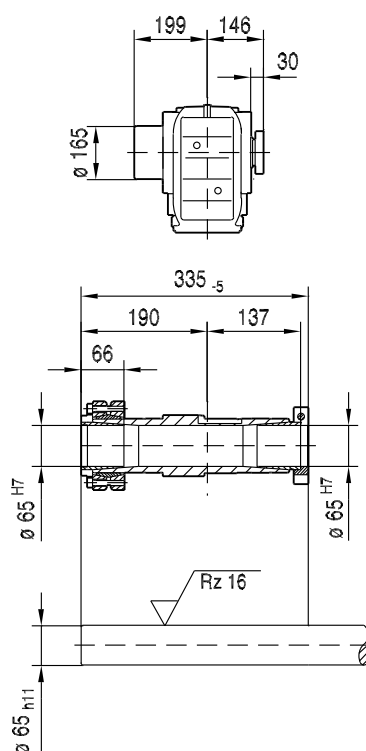
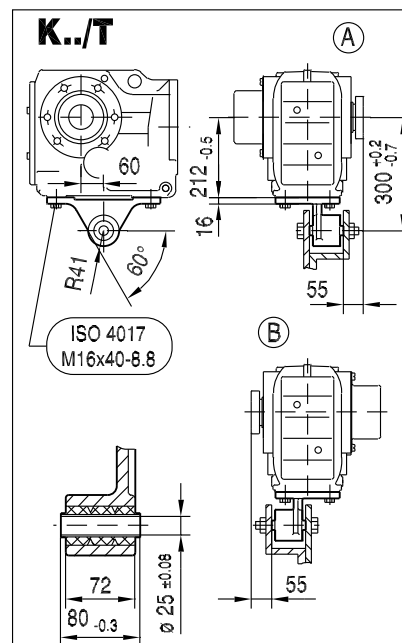
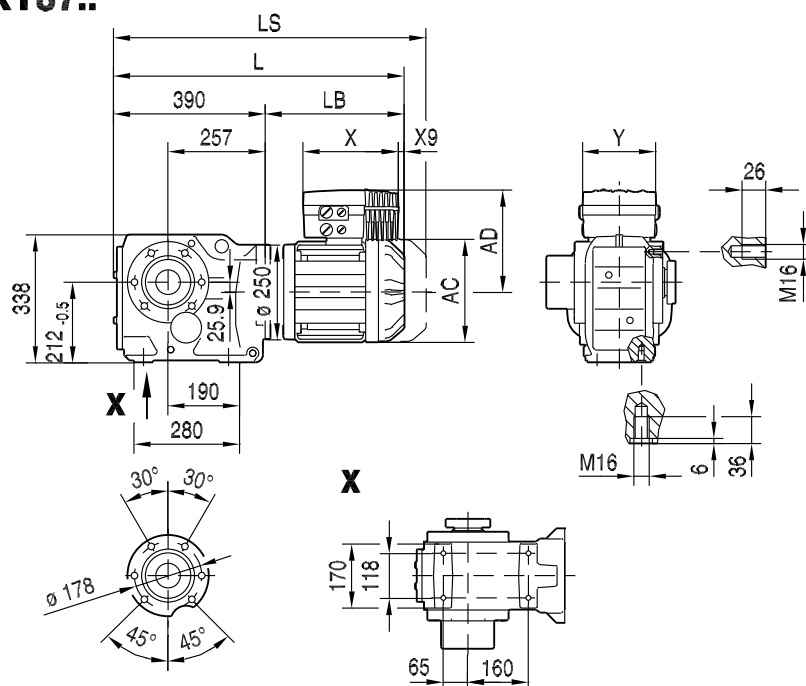
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(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	599	653	655	655	687	687	683	733	764
LS	666	734	748	748	780	780	777	827	876
LB	209	263	265	265	297	297	293	343	374
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

KT87..

33 151 00 16

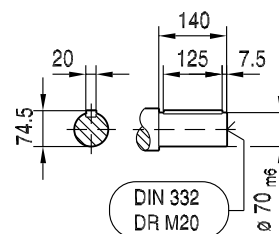
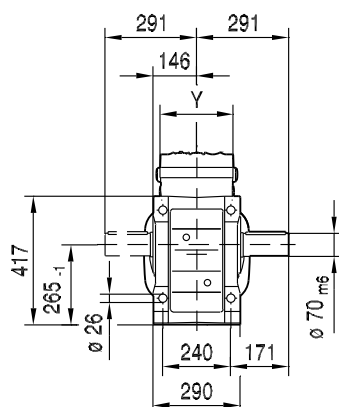
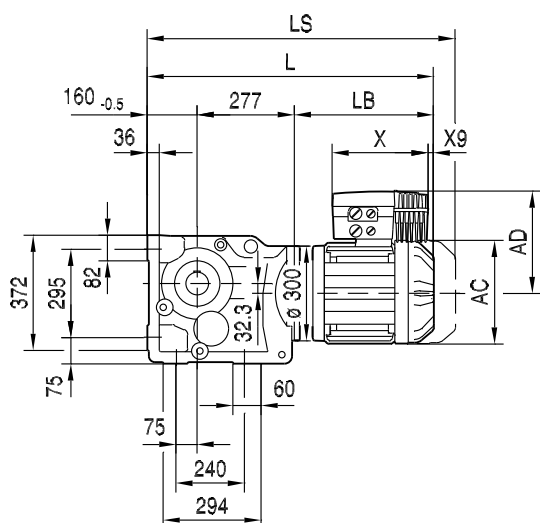


(→ 149)	DR71M. MM..	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	139	156	179	179	179	179	197	197	221
AD	185	197	208	208	208	208	216	216	230
L	599	653	655	655	687	687	683	733	764
LS	666	734	748	748	780	780	777	827	876
LB	209	263	265	265	297	297	293	343	374
X	182	182	182	228	182	228	228/254	228/254	254
X9	-14	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	148	186	148	186	186	186	186

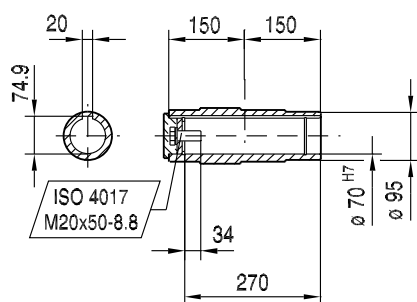
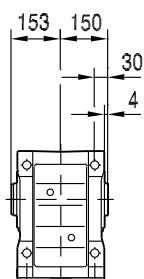
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33 152 00 16

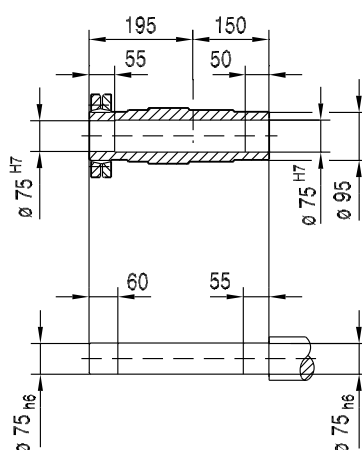
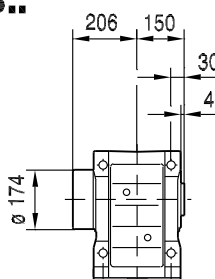
K97..



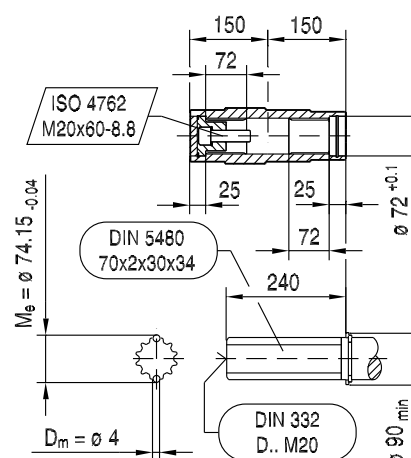
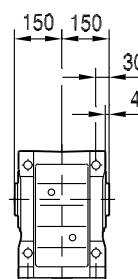
KA97B..



KH97B..



KV97B..

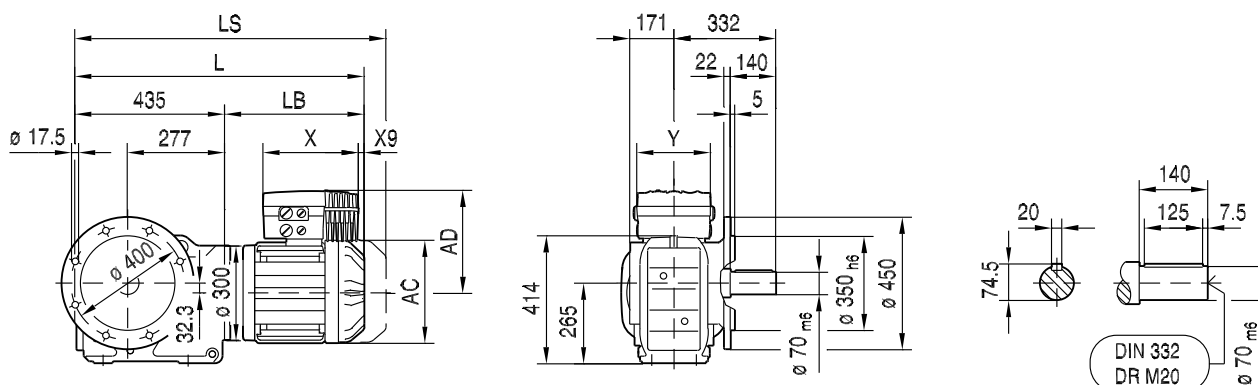


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(→ 149)	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	156	179	179	179	179	197	197	221
AD	197	208	208	208	208	216	216	230
L	695	697	697	729	729	725	775	806
LS	776	790	790	822	822	819	869	918
LB	258	260	260	292	292	288	338	369
X	182	182	228	182	228	228/254	228/254	254
X9	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	186	148	186	186	186	186

KF97..

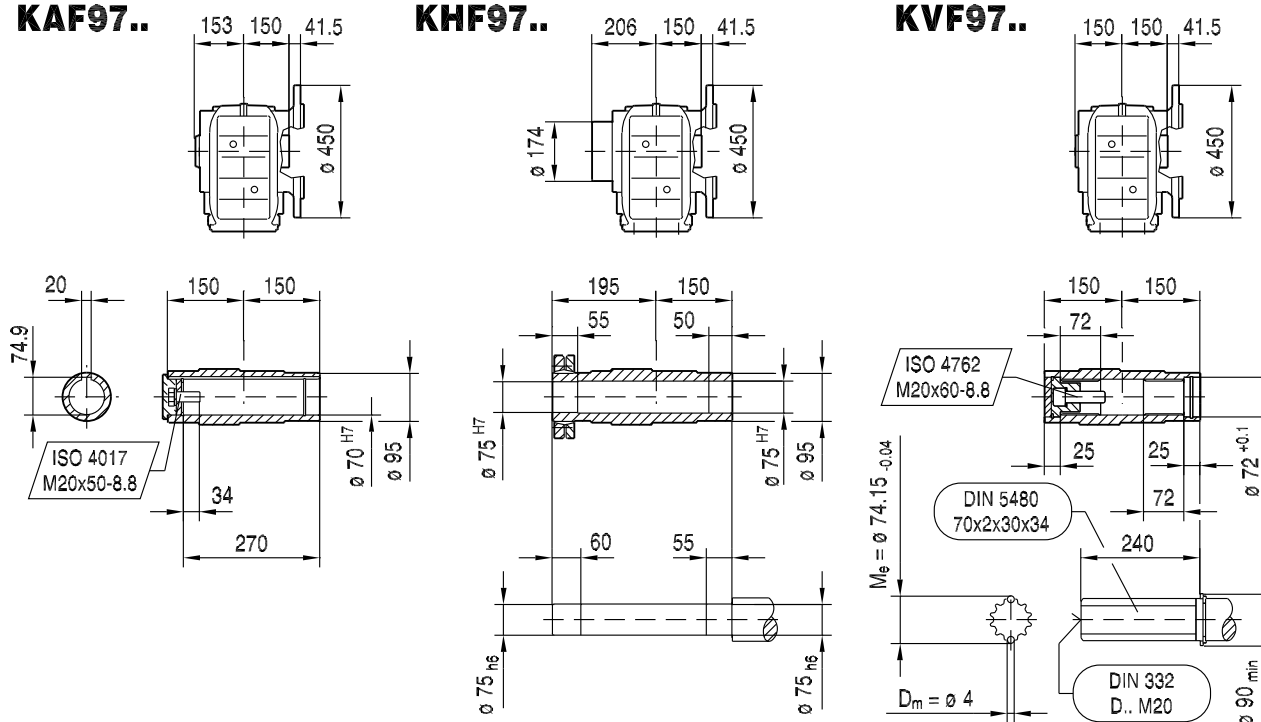
33 153 00 16



KAF97..

KHF97..

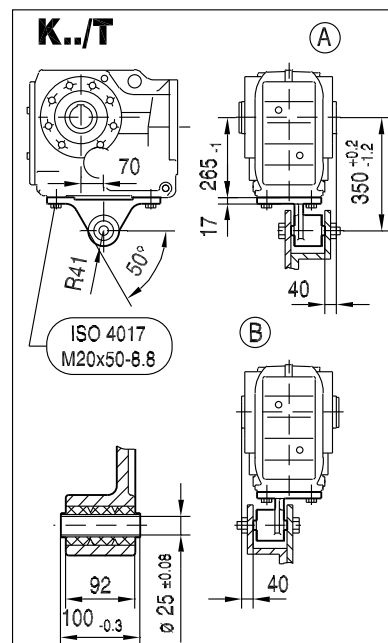
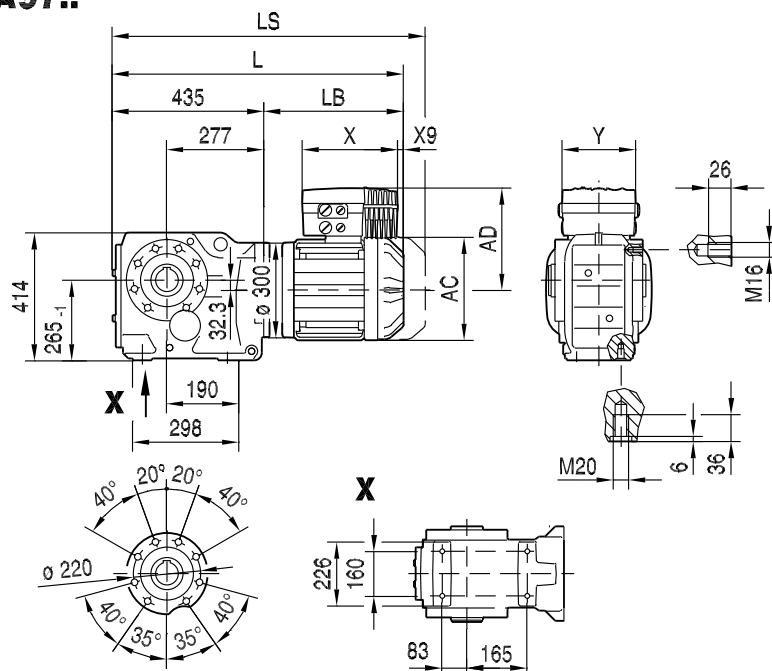
KVF97..



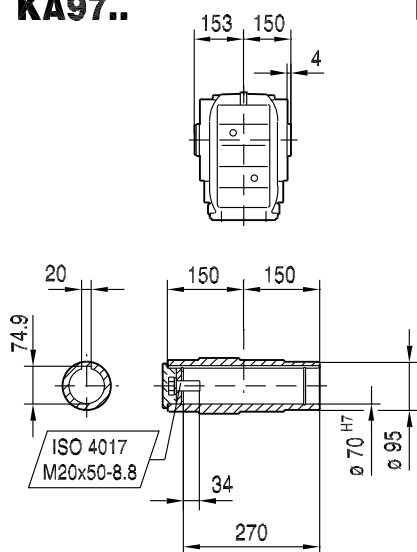
(→ 149)	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	156	179	179	179	179	197	197	221
AD	197	208	208	208	208	216	216	230
L	693	695	695	727	727	723	773	804
LS	774	788	788	820	820	817	867	916
LB	258	260	260	292	292	288	338	369
X	182	182	228	182	228	228/254	228/254	254
X9	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	186	148	186	186	186	186

KA97..

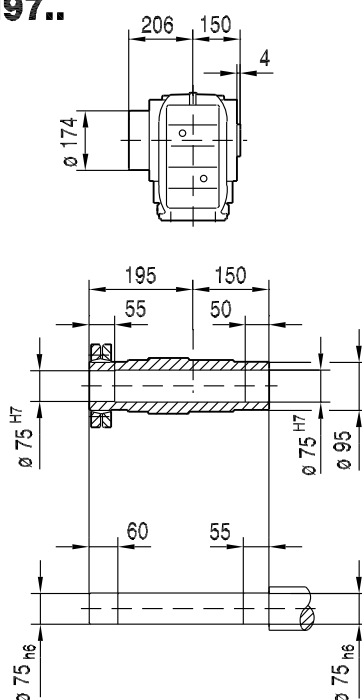
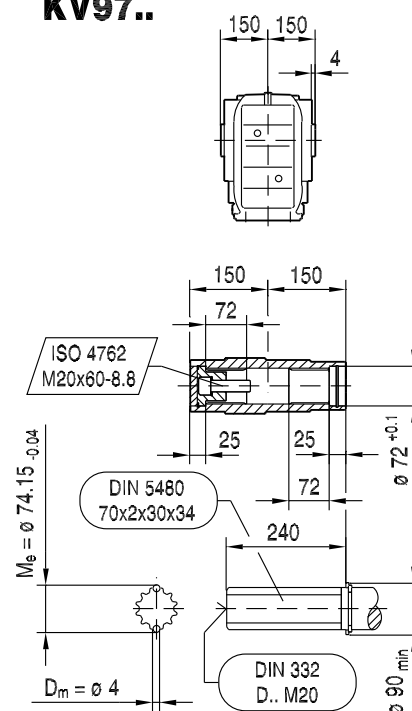
33 154 00 16



KA97..

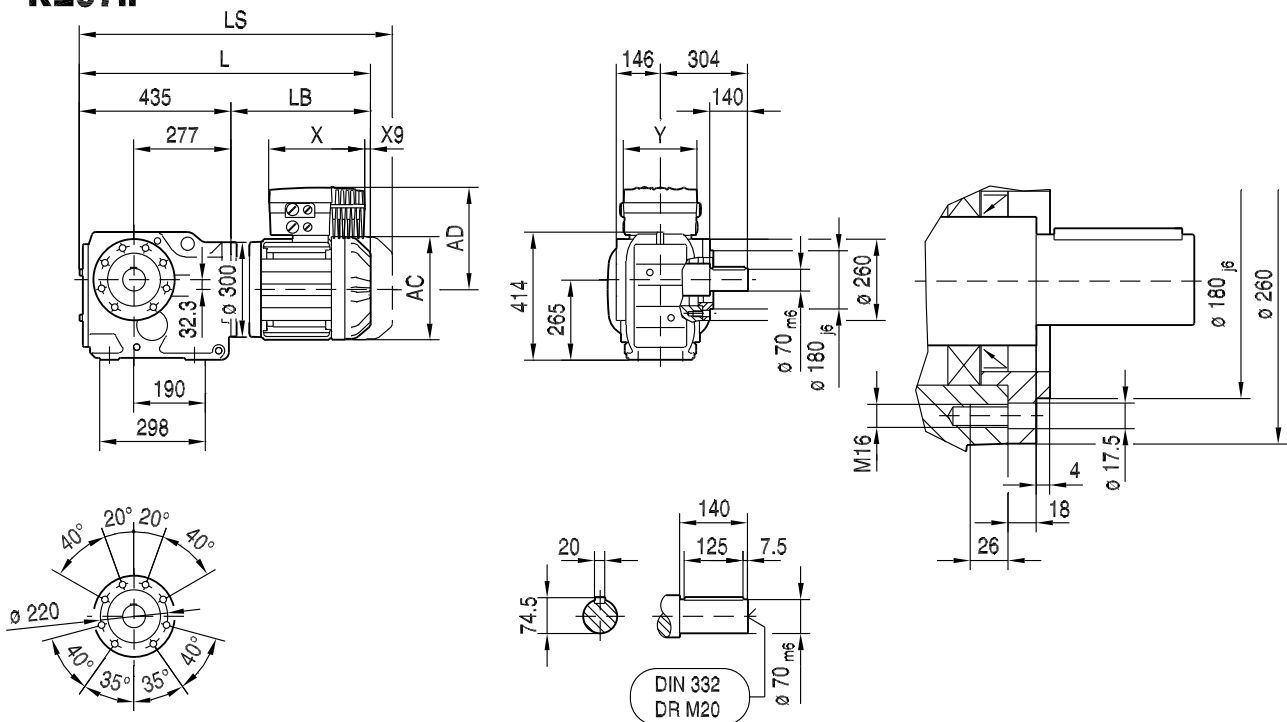


KH97..

**KV97..**

(→ 149)	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	156	179	179	179	179	197	197	221
AD	197	208	208	208	208	216	216	230
L	693	695	695	727	727	723	773	804
LS	774	788	788	820	820	817	867	916
LB	258	260	260	292	292	288	338	369
X	182	182	228	182	228	228/254	228/254	254
X9	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	186	148	186	186	186	186

33 156 00 16

KZ97..

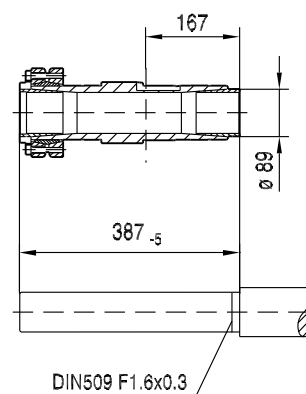
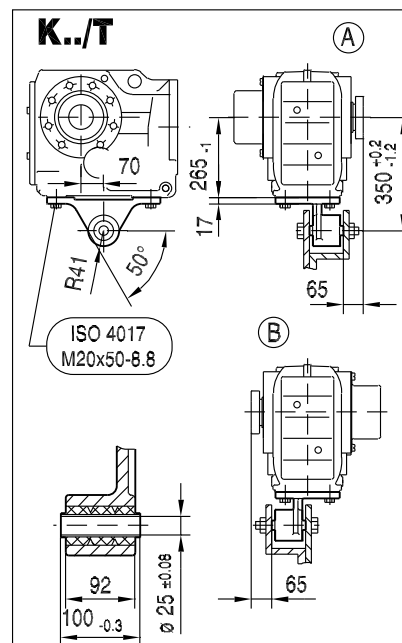
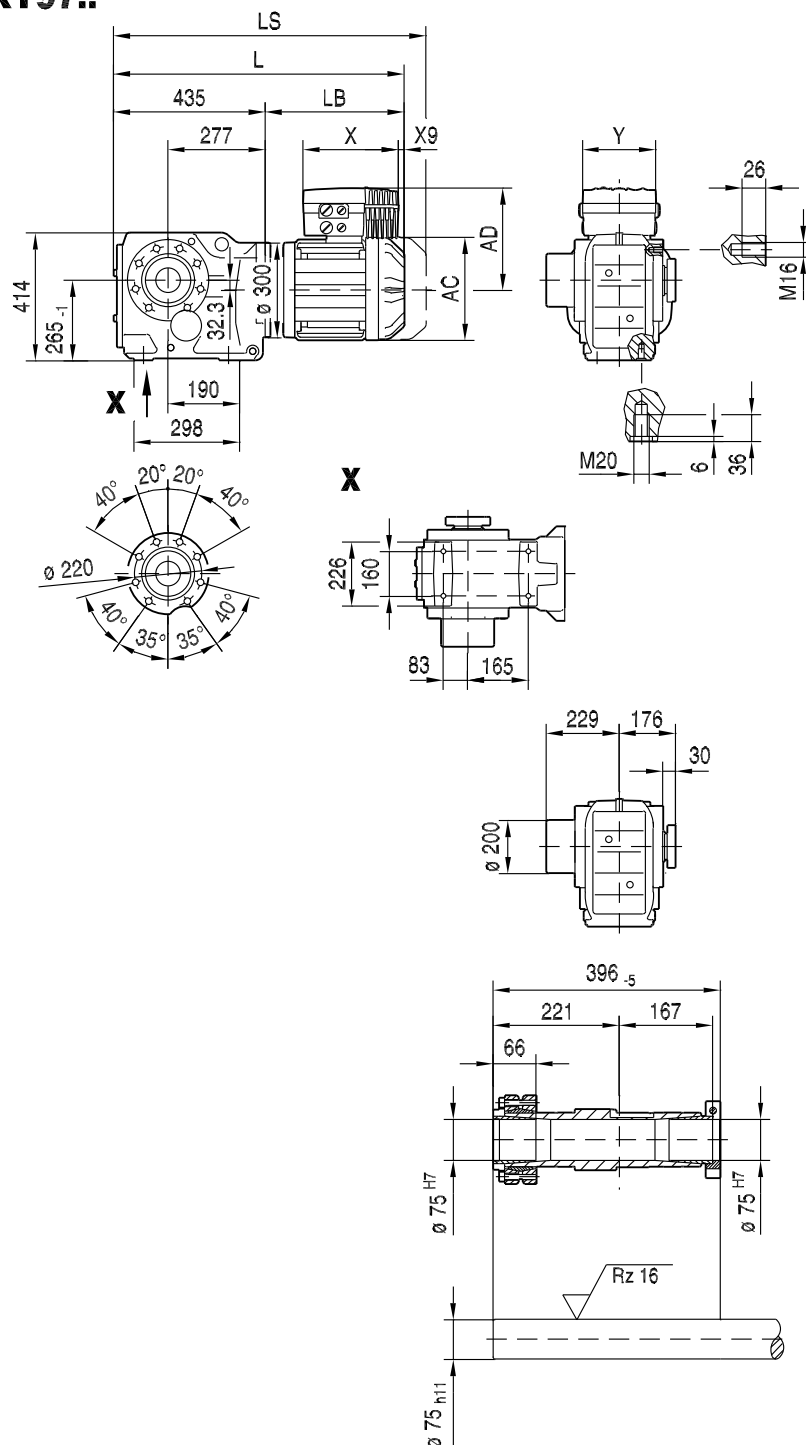
10

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(→ 149)	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	156	179	179	179	179	197	197	221
AD	197	208	208	208	208	216	216	230
L	693	695	695	727	727	723	773	804
LS	774	788	788	820	820	817	867	916
LB	258	260	260	292	292	288	338	369
X	182	182	228	182	228	228/254	228/254	254
X9	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	186	148	186	186	186	186

KT97..

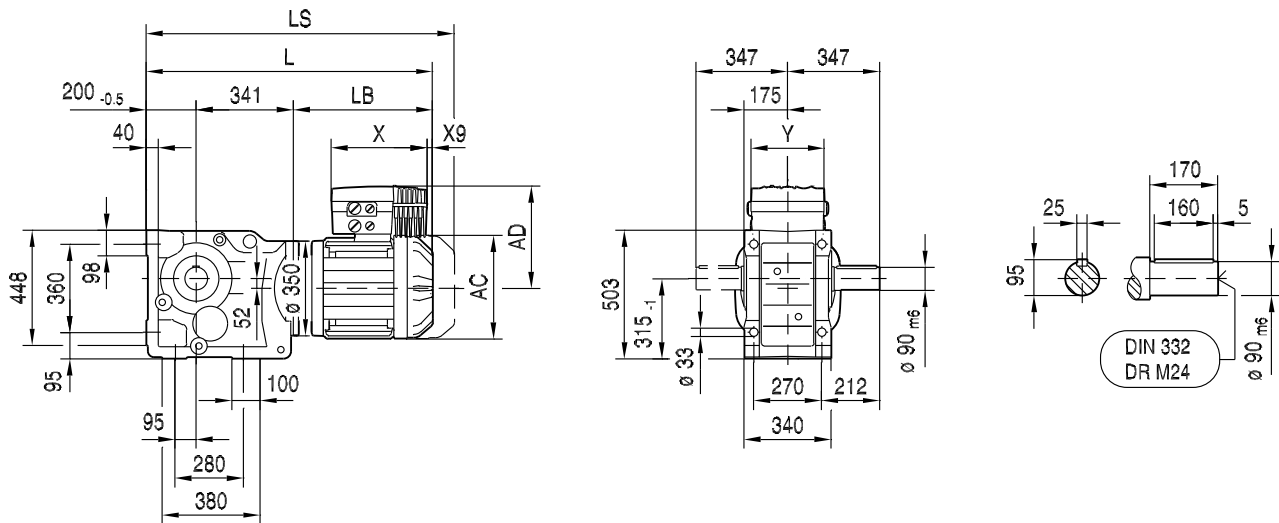
33 157 00 16



(→ 149)	DRN80M. MM..	DRN90S. MM11/15	DRN90S. MM22	DRN90L. MM15	DRN90L. MM22/30	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..
AC	156	179	179	179	179	197	197	221
AD	197	208	208	208	208	216	216	230
L	693	695	695	727	727	723	773	804
LS	774	788	788	820	820	817	867	916
LB	258	260	260	292	292	288	338	369
X	182	182	228	182	228	228/254	228/254	254
X9	-7	-1	-16	-1	-16	-18/-44	-18/-44	-23
Y	148	148	186	148	186	186	186	186

33 158 00 16

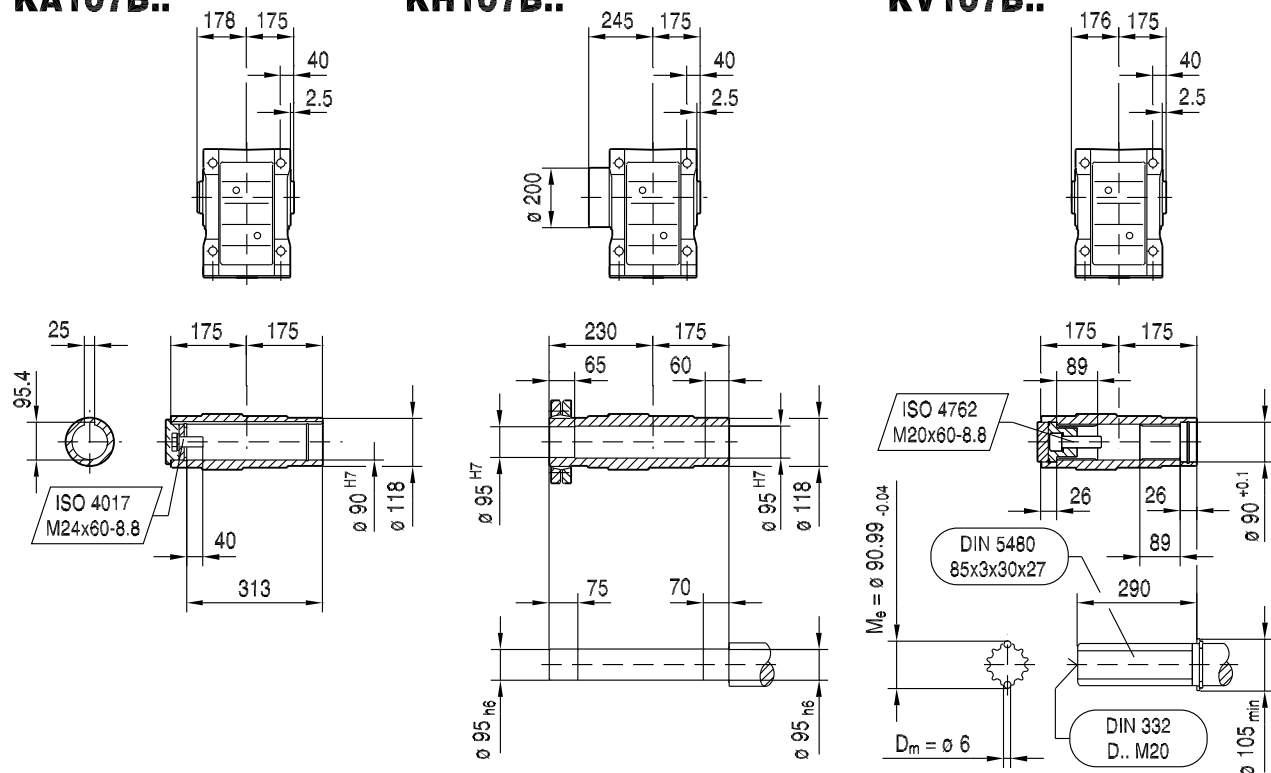
K107..



KA107B..

KH107B..

KV107B..

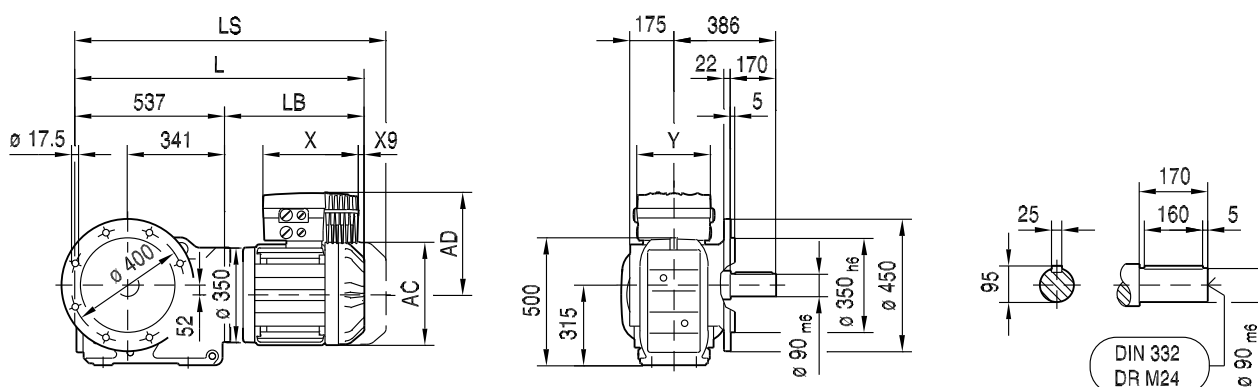


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(→ ■ 149)	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..					
AC	197	197	221					
AD	216	216	230					
L	823	873	904					
LS	917	967	1016					
LB	282	332	363					
X	228/254	228/254	254					
X9	-18/-44	-18/-44	-23					
Y	186	186	186					

KF107..

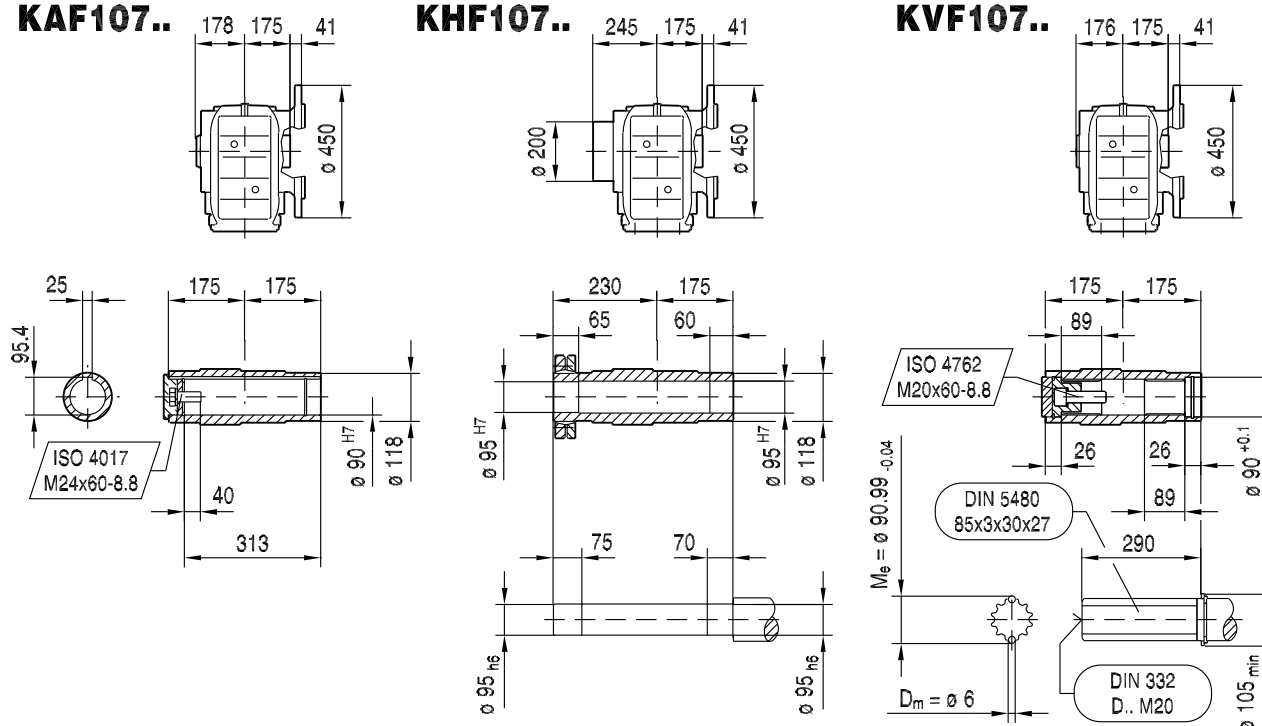
33 159 00 16



KAF107..

KHF107..

KVF107..

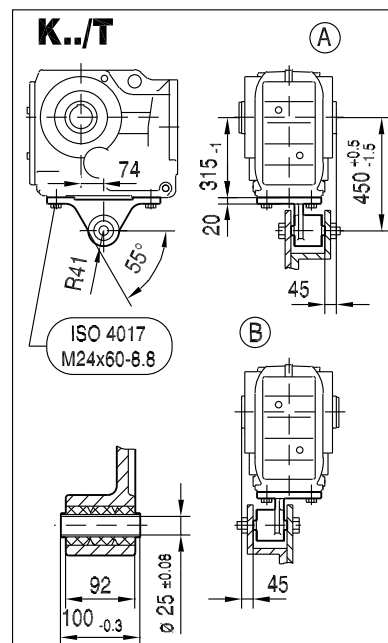
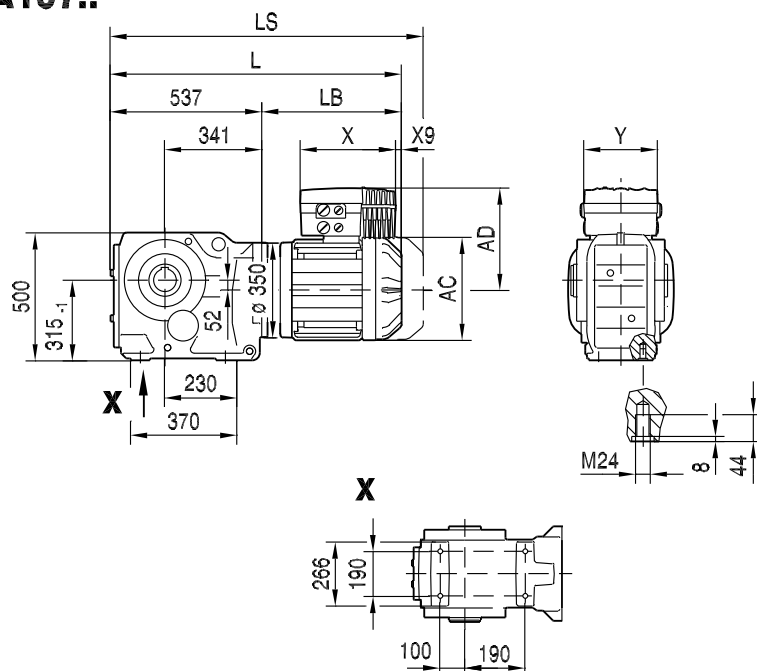


(→ 149)	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..					
AC	197	197	221					
AD	216	216	230					
L	819	869	900					
LS	913	963	1012					
LB	282	332	363					
X	228/254	228/254	254					
X9	-18/-44	-18/-44	-23					
Y	186	186	186					

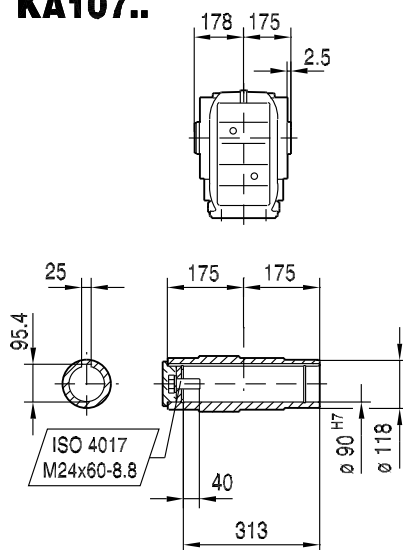
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KA107..

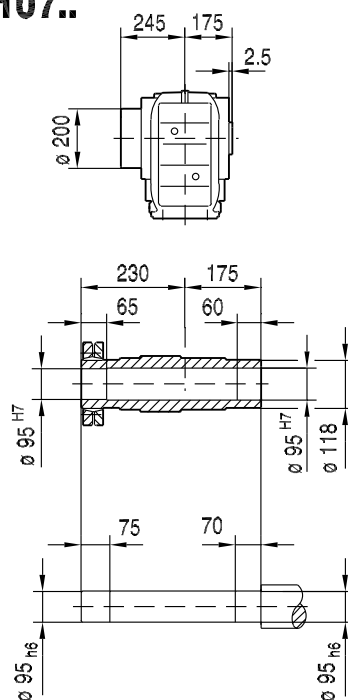
33 160 00 16



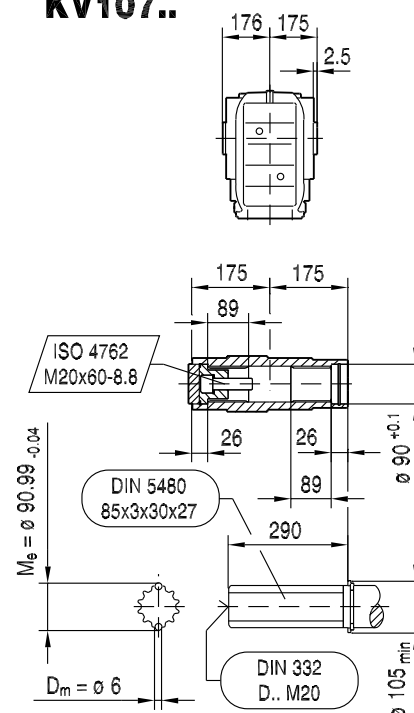
KA107..



KH107..

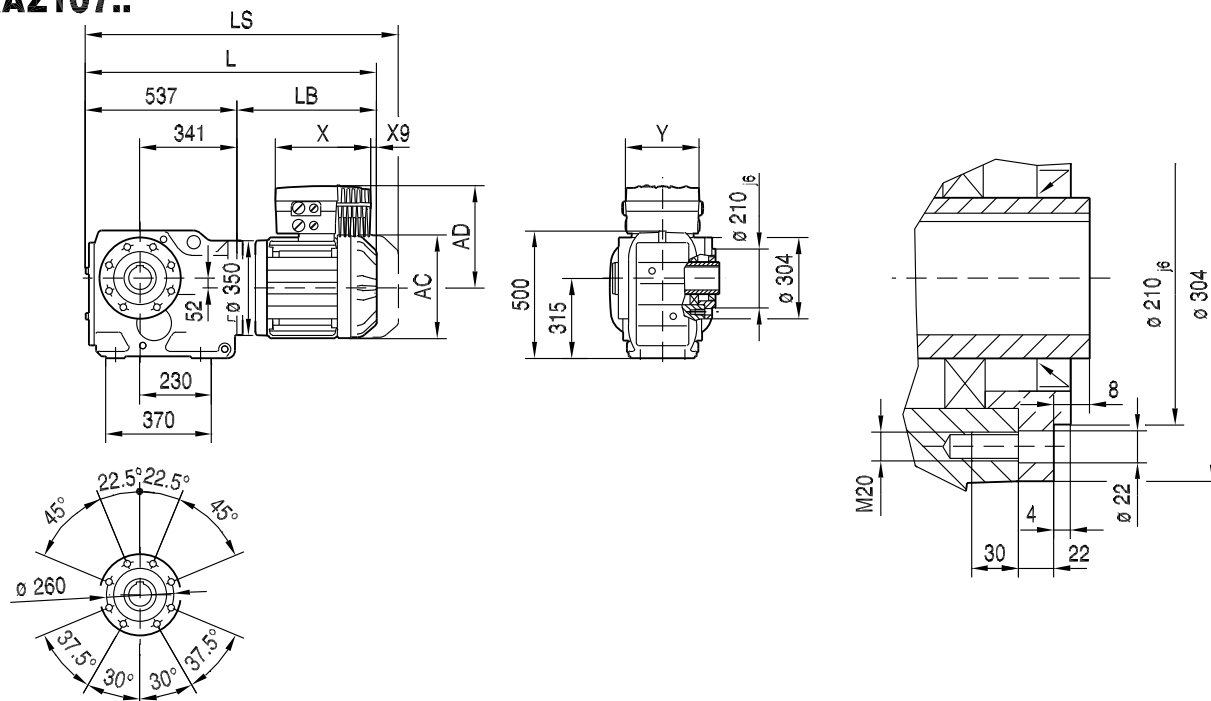
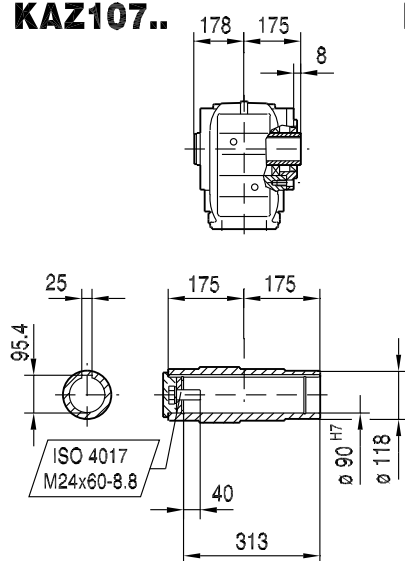
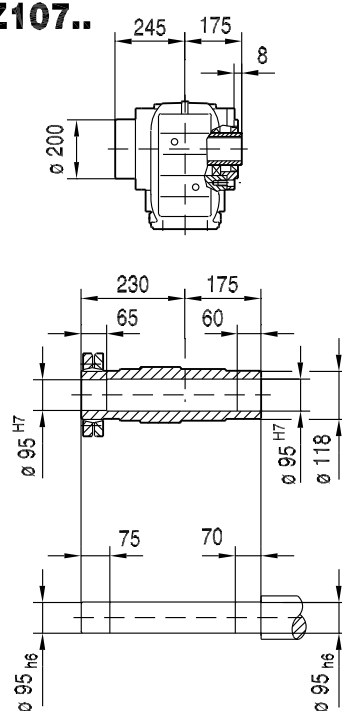
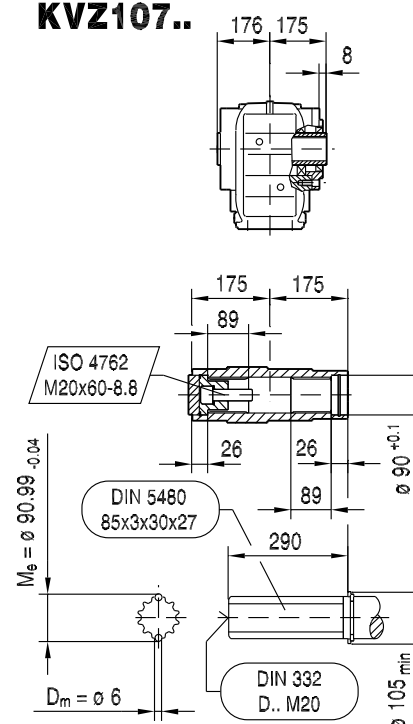


KV107..



(→ 149)	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..					
AC	197	197	221					
AD	216	216	230					
L	819	869	900					
LS	913	963	1012					
LB	282	332	363					
X	228/254	228/254	254					
X9	-18/-44	-18/-44	-23					
Y	186	186	186					

33 161 00 16

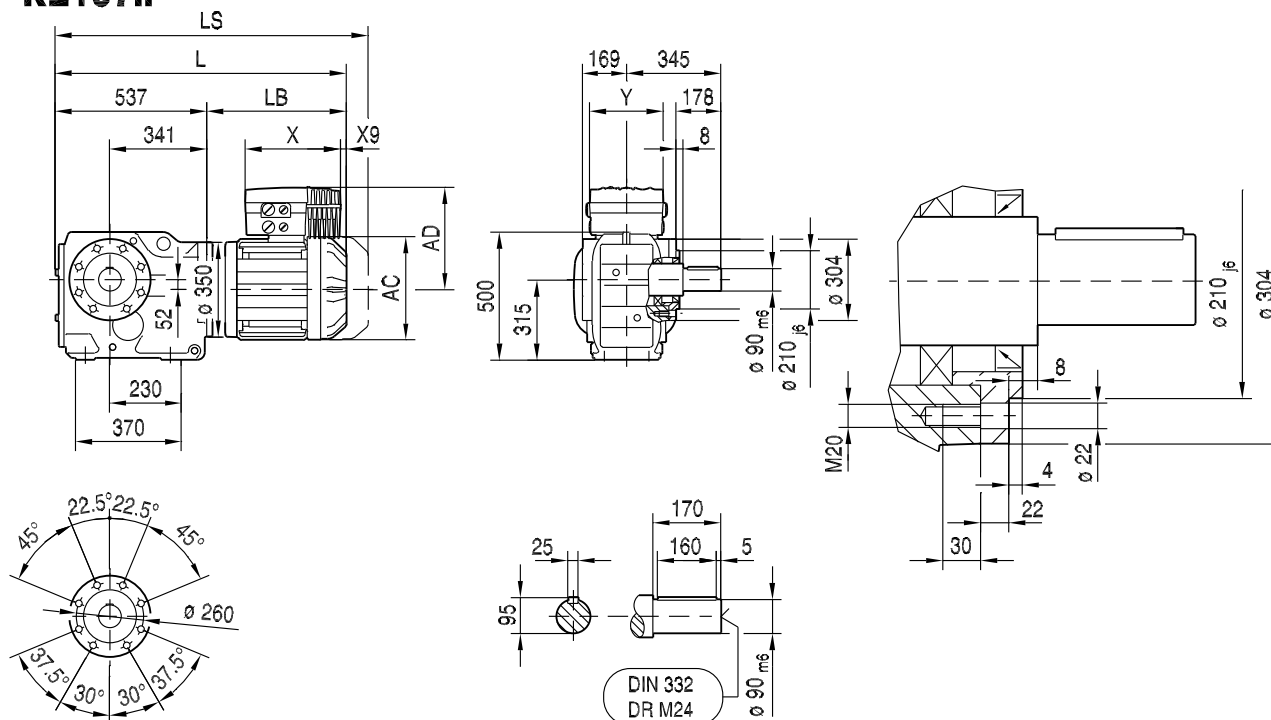
KAZ107..**KAZ107..****KHZ107..****KVZ107..**

(→ 149)	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..					
AC	197	197	221					
AD	216	216	230					
L	819	869	900					
LS	913	963	1012					
LB	282	332	363					
X	228/254	228/254	254					
X9	-18/-44	-18/-44	-23					
Y	186	186	186					

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33 162 00 16

KZ107..



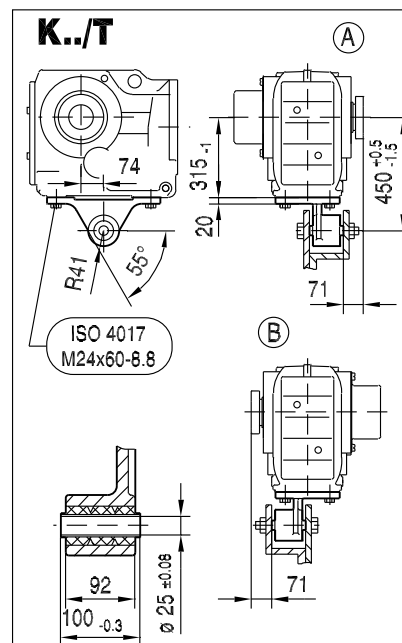
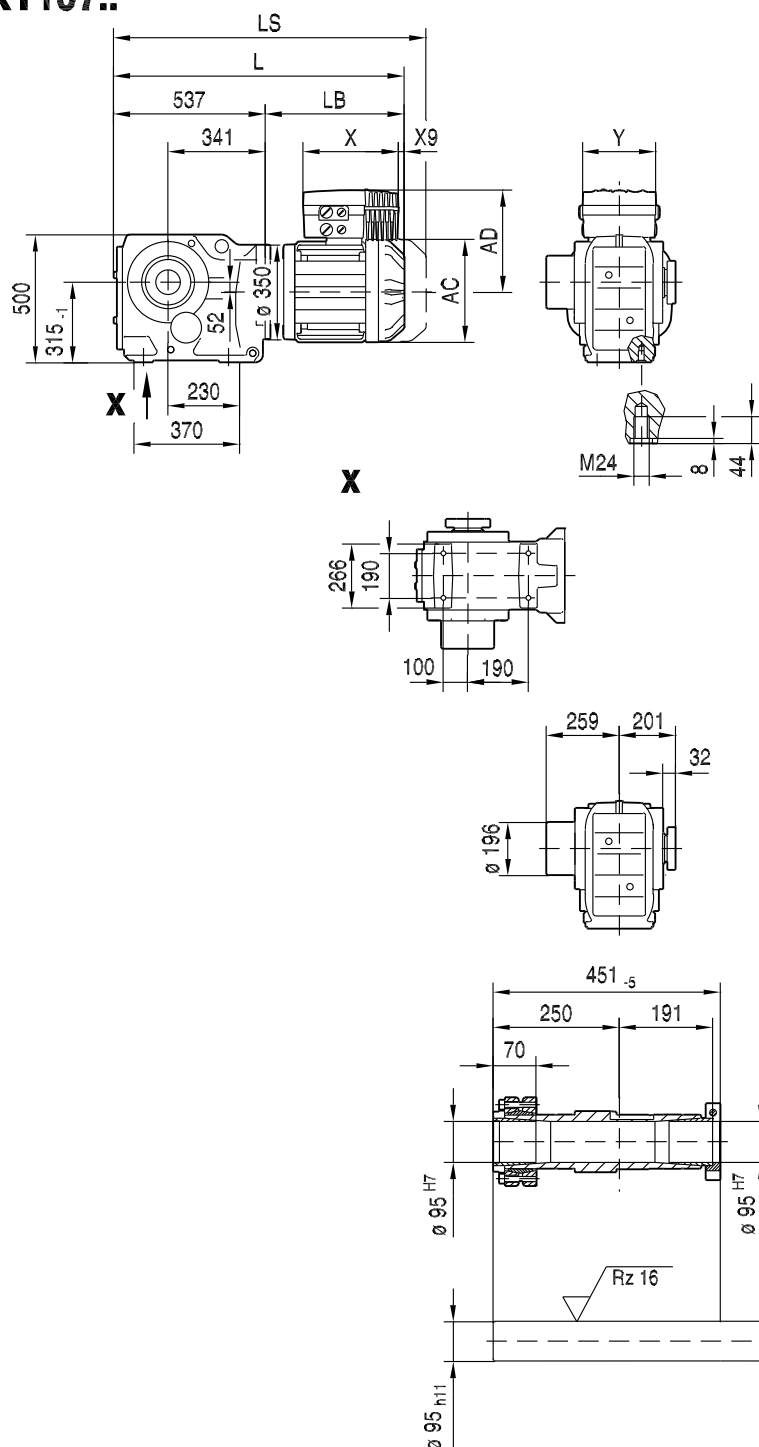
10

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(→ 149)	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..					
AC	197	197	221					
AD	216	216	230					
L	819	869	900					
LS	913	963	1012					
LB	282	332	363					
X	228/254	228/254	254					
X9	-18/-44	-18/-44	-23					
Y	186	186	186					

KT107..

33 163 00 16



(→ 149)	DRN100LS. MM..	DRN100L. MM..	DRN112M. MM..					
AC	197	197	221					
AD	216	216	230					
L	819	869	900					
LS	913	963	1012					
LB	282	332	363					
X	228/254	228/254	254					
X9	-18/-44	-18/-44	-23					
Y	186	186	186					

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