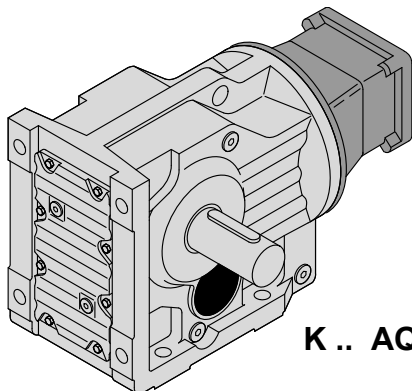


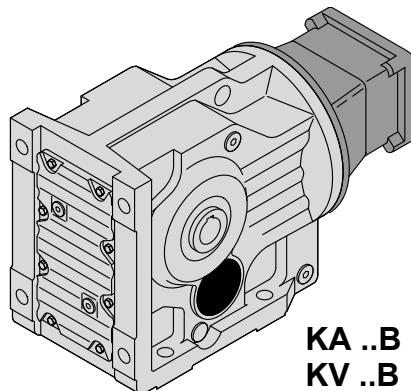
K..
K.. AQ..

10 K..

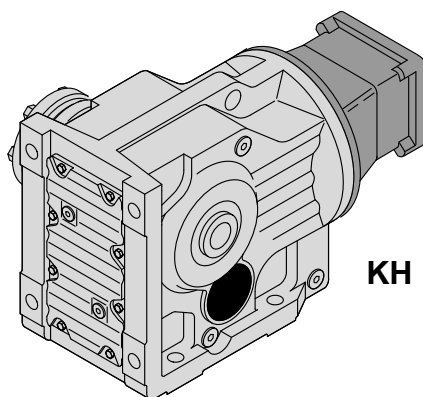
10.1 K.. AQ..



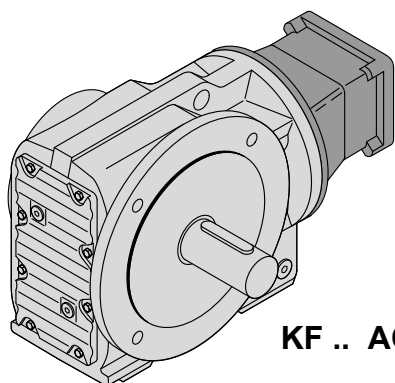
K .. AQ..



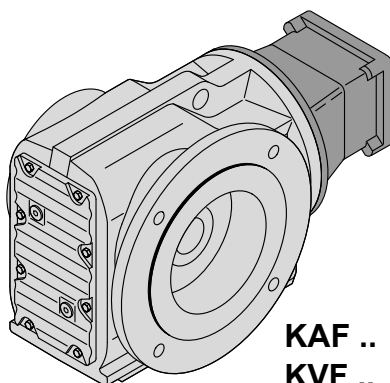
KA ..B AQ..
KV ..B AQ..



KH ..B AQ..

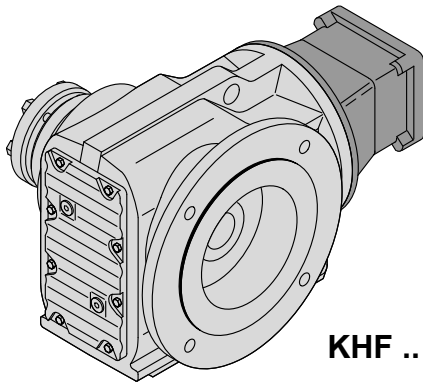
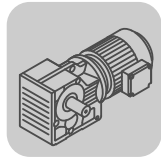


KF .. AQ..

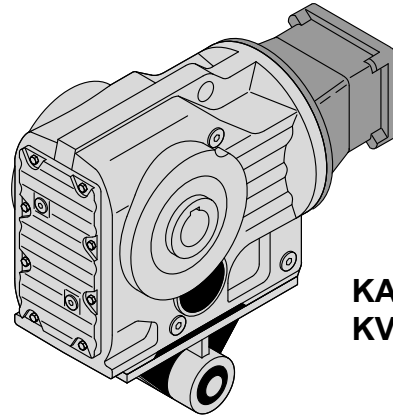


KAF .. AQ..
KVF .. AQ..

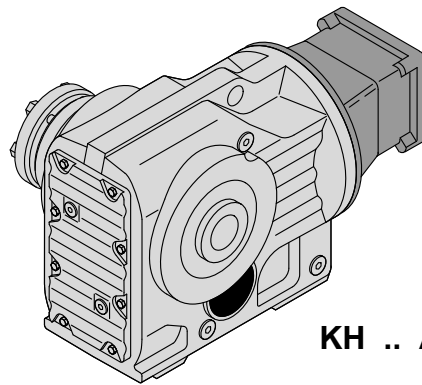
50407AXX



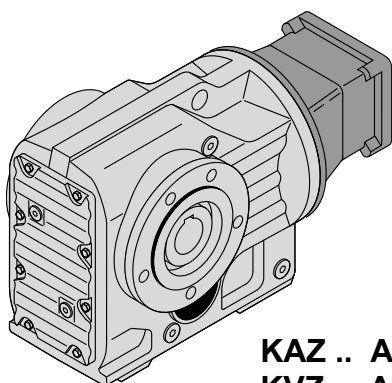
KHF .. AQ..



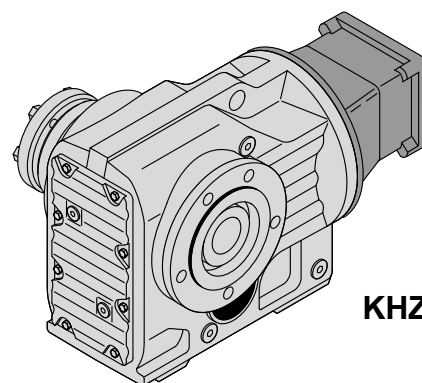
KA../T AQ..
KV../T AQ..



KH .. AQ..

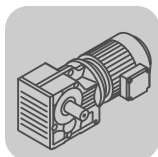


KAZ .. AQ..
KVZ .. AQ..



KHZ .. AQ..

50408AXX



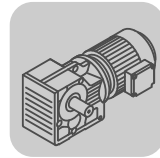
10.2 K.. AQ..

10.2.1 K 37 AQ.. [Nm]

[Nm]		AQ. M _{amax} M _{apk} M _{aNotaus}											
	i	80/1-3			100/1-4			115/1-2			115/3		
K37  3	3.98	67	67	131	67	67	135	67	67	135	125	183	183
	5.36	91	91	176	91	91	182	91	91	182	140	199	235
	6.37	108	108	210	108	108	215	108	108	215	145	199	245
	6.80	115	115	220	115	115	230	115	115	230	150	199	255
	7.96	135	135	260	135	135	260	135	135	260	155	199	260
	8.91	151	151	270	151	151	270	151	151	270	160	199	270
	10.49	160	178	270	160	178	270	160	178	270	160	199	270
	12.14	160	199	270	160	199	270	160	199	270	160	199	270
	13.08	165	220	280	165	220	280	165	220	280	165	240	280
	15.31	175	240	295	175	240	295	175	240	295	175	240	295
	17.15	180	240	305	180	240	305	180	240	305	180	240	305
	20.19	185	240	315	185	240	315	185	240	315	185	240	315
	23.36	195	240	330	195	240	330	195	240	330	195	240	330
	24.99	200	240	340	200	240	340	200	240	340	200	240	340
	28.83	200	240	340	200	240	340	200	240	340	200	240	340
	29.96	200	230	340	200	230	340	200	230	340	200	230	340
	35.57	200	230	340	200	230	340	200	230	340	200	230	340
	37.97	200	230	340	200	230	340	200	230	340	200	230	340
	44.46	200	230	340	200	230	340	200	230	340	200	230	340
	49.79	200	230	340	200	230	340	200	230	340	200	230	340
	58.60	200	230	340	200	230	340	200	230	340	200	230	340
	67.80	200	230	340	200	230	340	200	230	340	200	230	340
	72.54	200	230	340	200	230	340	200	230	340	200	230	340
	83.69	200	230	340	200	230	340	200	230	340	200	230	340
	97.81	200	230	340	200	230	340	200	230	340	200	230	340
	106.38	200	230	340	200	230	340	200	230	340	200	230	340

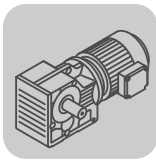
m [kg]		AQ.			
	s	80/1-3	100/1-4	115/1-2	115/3
K37	 3	15	16	16	16
KF: + 2.3 kg / KA: + 0.2 kg / KAF: + 1.5 kg					

		AQ.			
		80/1-3	100/1-4	115/1-2	115/3
J _A 10 ⁻⁴	[kgm ²]	0.77	1.4	1.4	3.1
c _{TA}	[Nm/°]	0.25	0.25	0.25	0.625



K37 $n_e = 1400$							F_{Ramax}				F_{Rapk}			
	i	M_{amax} [Nm]	M_{apk} [Nm]	$M_{aNotaus}$ [Nm]	n_{ak} [1/min]	$J_G 10^{-4}$ [kgm ²]	K [N]	KF [N]	KA [N]	KAF [N]	K [N]	KF [N]	KA [N]	KAF [N]
K37  3	3.98	125	187	213	377	2.6	1660	2130	2310	2310	5780	5710	7000	7000
	5.36	140	199	238	317	1.7	1810	2340	2530	2530	5650	5640	7000	7000
	6.37	145	199	247	314	1.3	1950	2500	2720	2720	5650	5640	7000	7000
	6.80	150	199	255	294	1.1	1980	2540	2760	2760	5650	5640	7000	7000
	7.96	155	199	264	276	0.85	2110	2700	2940	2940	5650	5640	7000	7000
	8.91	160	199	272	258	0.70	2200	2810	3070	3070	5650	5640	7000	7000
	10.49	160	199	272	276	0.51	2410	3030	3340	3340	5650	5640	7000	7000
	12.14	160	199	272	297	0.40	2600	3240	3600	3600	5650	5640	7000	7000
	13.08	165	240	281	420	1.0	2650	3310	3660	3660	4100	4100	7000	7000
	15.31	175	240	298	346	0.76	2780	3480	3850	3850	4100	4100	7000	7000
	17.15	180	240	306	315	0.62	2900	3630	4020	4020	4100	4100	7000	7000
	20.19	185	240	315	287	0.46	3110	3870	4300	4300	4100	4100	7000	7000
	23.36	195	240	332	240	0.37	3260	4060	4510	4510	4100	4100	7000	7000
	24.99	200	240	340	220	0.33	3330	4150	4600	4600	4100	4100	7000	7000
	28.83	200	240	340	222	0.26	3580	4420	4940	4940	4100	4100	7000	7000
	29.96	200	230	340	157	0.76	3650	4500	5030	5030	5140	5140	7000	7000
	35.57	200	230	340	157	0.60	3970	4860	5460	5460	5140	5140	7000	7000
	37.97	200	230	340	158	0.54	4100	5000	5630	5630	5140	5140	7000	7000
	44.46	200	230	340	157	0.42	4420	5350	6060	6060	5140	5140	7000	7000
	49.79	200	230	340	141	0.36	4660	5610	6380	6380	5140	5140	7000	7000
	58.60	200	230	340	119	0.27	5020	5630	6860	6860	5140	5140	7000	7000
	67.80	200	230	340	103	0.23	5360	5630	7000	7000	5140	5140	7000	7000
	72.54	200	230	340	96	0.21	5520	5630	7000	7000	5140	5140	7000	7000
	83.69	200	230	340	84	0.17	5640	5630	7000	7000	5140	5140	7000	7000
	97.81	200	230	340	72	0.13	5640	5630	7000	7000	5140	5140	7000	7000
	106.38	200	230	340	66	0.12	5640	5630	7000	7000	5140	5140	7000	7000

AQ.								
	i	n_{epk} [1/min]	η [%]	K [Nm/']	C_{TG} KF [Nm/']	KA [Nm/']	KAF [Nm/']	ϕ /R [']
K37  3	3.98	4500	96	13	13	29	29	13
	5.36	4500	96	13	13	29	29	13
	6.37	4500	96	13	13	29	29	13
	6.80	4500	96	13	13	29	29	13
	7.96	4500	96	13	13	29	29	13
	8.91	4500	96	13	13	29	29	12
	10.49	4500	96	13	13	29	29	12
	12.14	4500	96	13	13	29	29	12
	13.08	4500	96	17	17	63	63	9
	15.31	4500	96	17	17	63	63	9
	17.15	4500	96	17	17	63	63	8
	20.19	4500	96	17	17	63	63	8
	23.36	4500	96	17	17	63	63	8
	24.99	4500	96	17	17	63	63	8
	28.83	4500	96	17	17	63	63	8
	29.96	4500	94	18	19	85	85	7
	35.57	4500	94	18	19	85	85	7
	37.97	4500	94	18	19	85	85	7
	44.46	4500	94	18	19	85	85	7
	49.79	4500	94	18	19	85	85	7
	58.60	4500	94	18	19	85	85	7
	67.80	4500	94	18	19	85	85	7
	72.54	4500	94	18	19	85	85	7
	83.69	4500	93	18	19	85	85	7
	97.81	4500	93	18	19	85	85	7
	106.38	4500	93	18	19	85	85	7

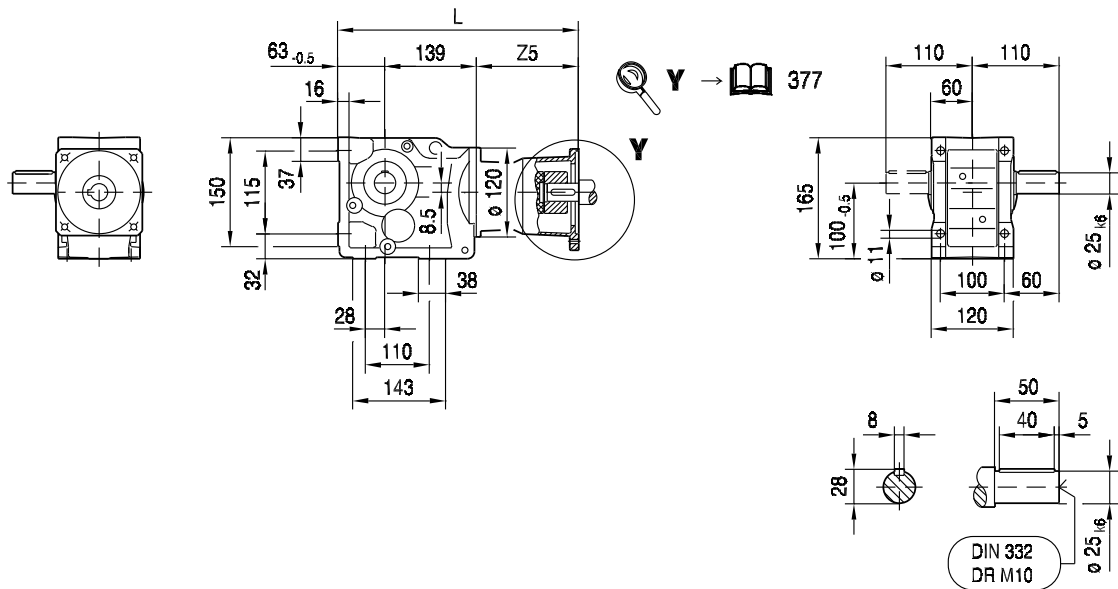


K..
K.. AQ..

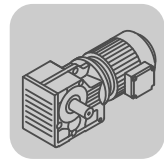
10.2.2 K 37 AQ.. [mm]

K37..

33 099 00 08^L

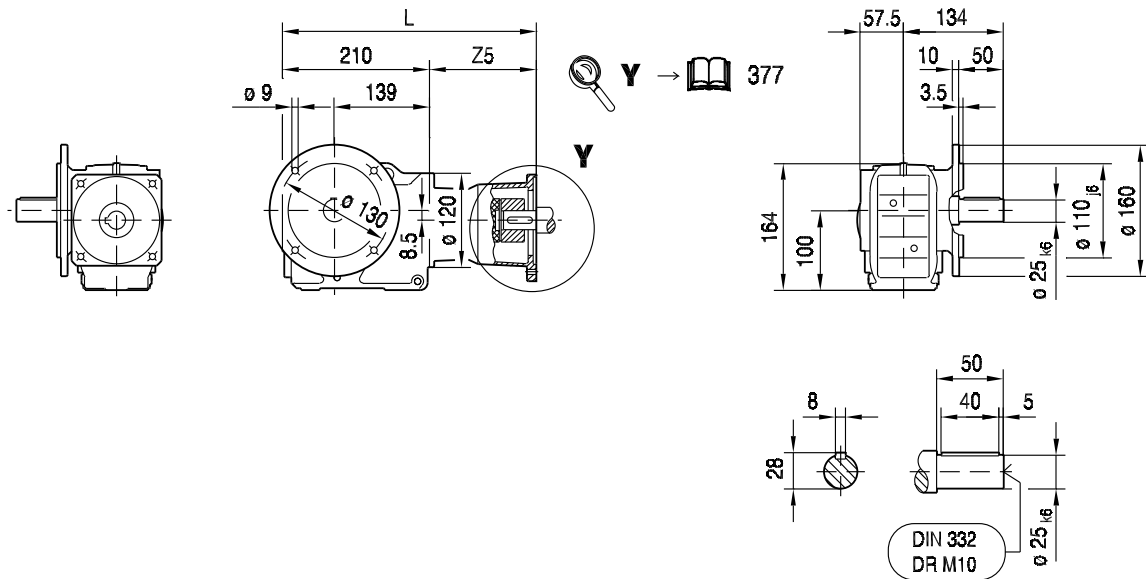


(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3				
L	307	332	346	355				
Z5	104.5	129.5	143.5	152.5				



33 100 00 08^L

KF37..

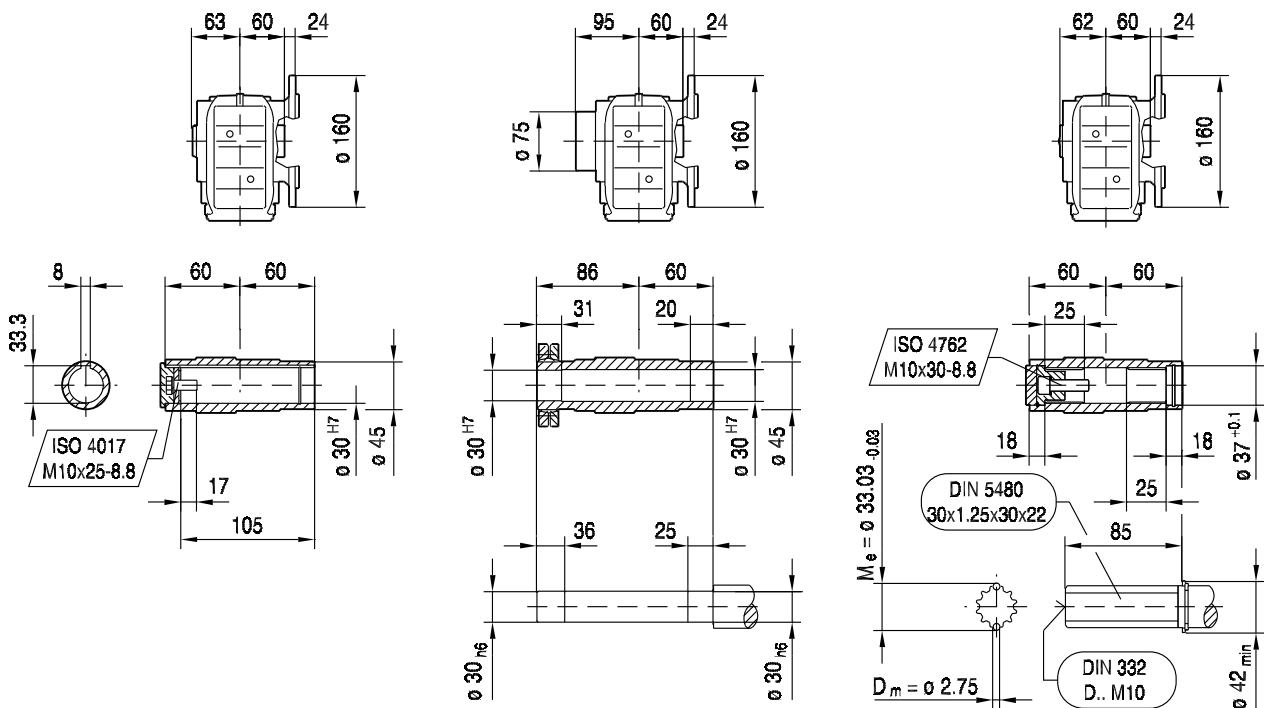


KAF37..

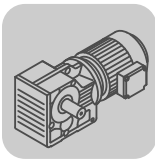
KHF37..

KVF37..

10

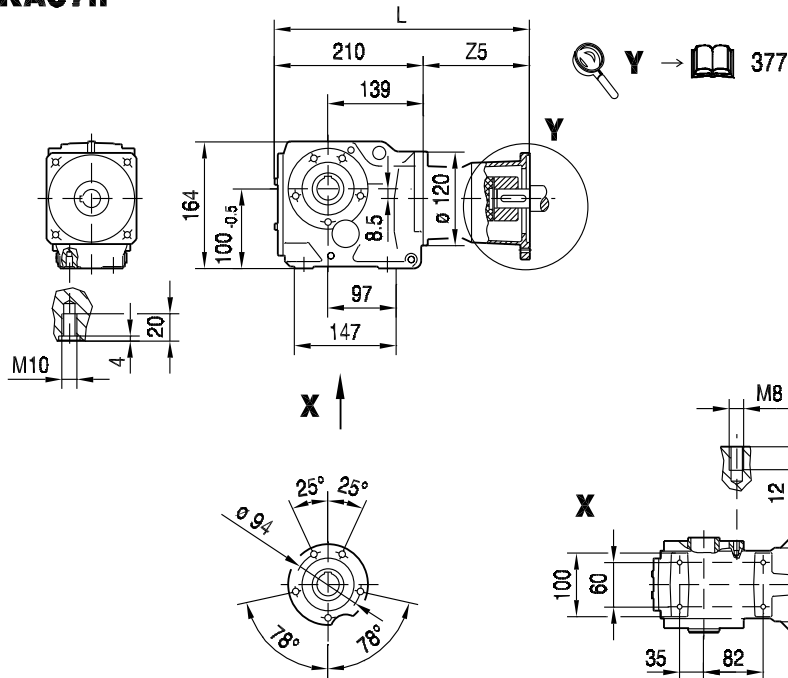


(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3				
L	315	340	354	363				
Z5	104.5	129.5	143.5	152.5				

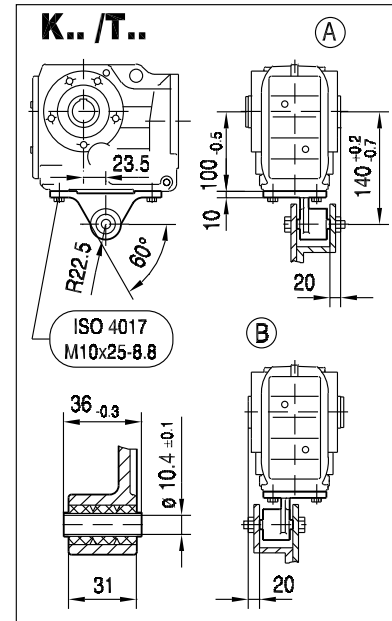


K..
K.. AQ..

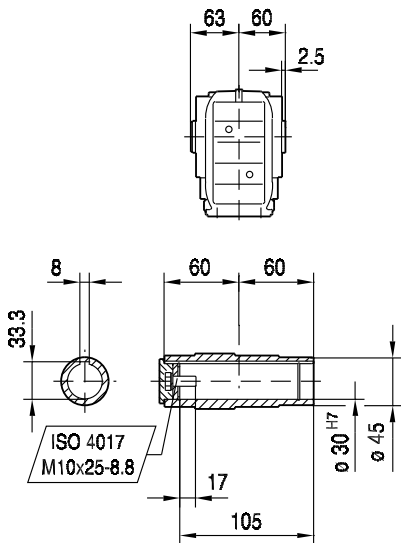
KA37..



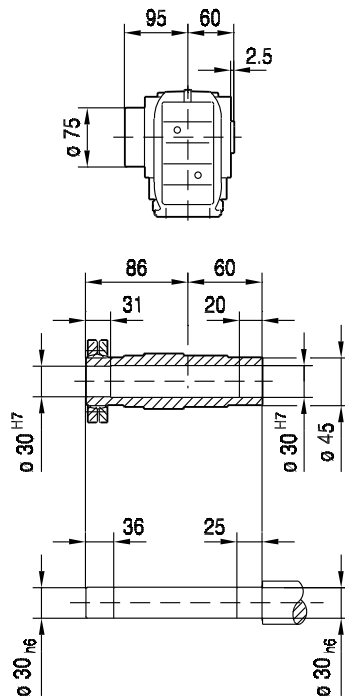
33 101 00 08^L



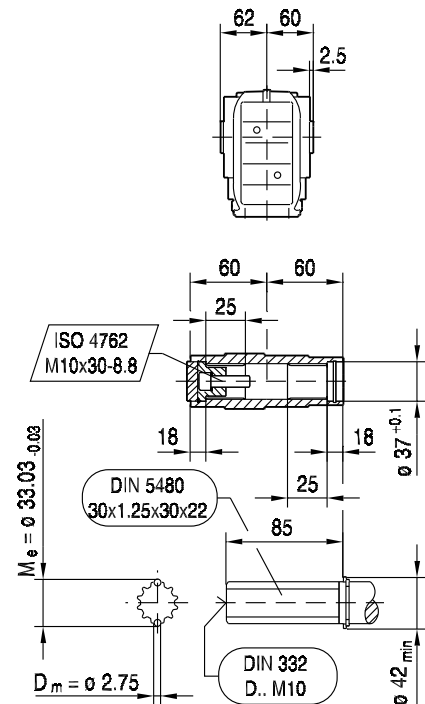
KA37..



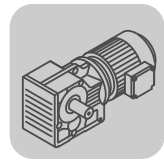
KH37..



KV37..

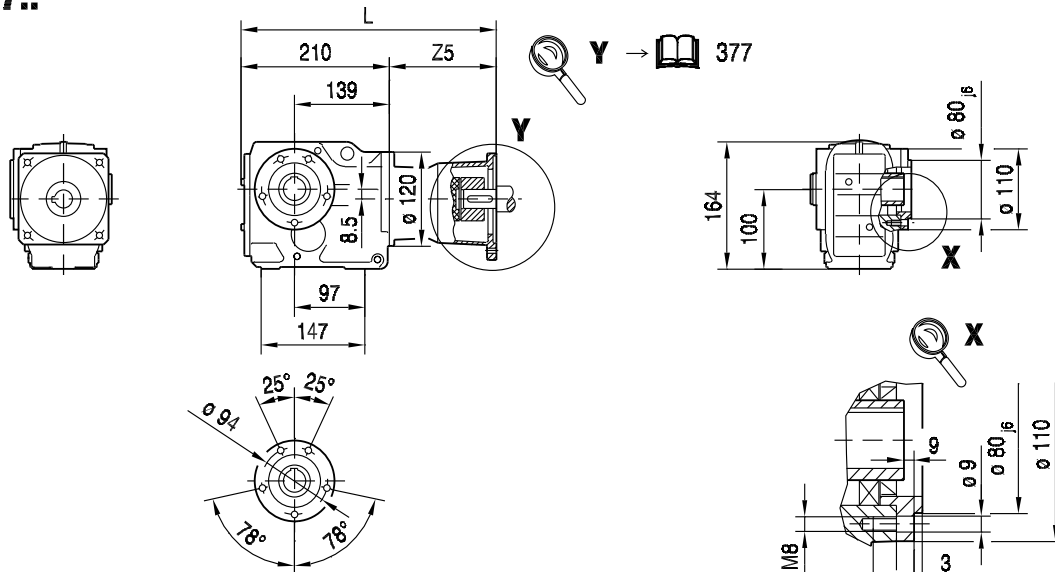


(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3				
L	315	340	354	363				
Z5	104.5	129.5	143.5	152.5				



33 103 00 08

KAZ37..

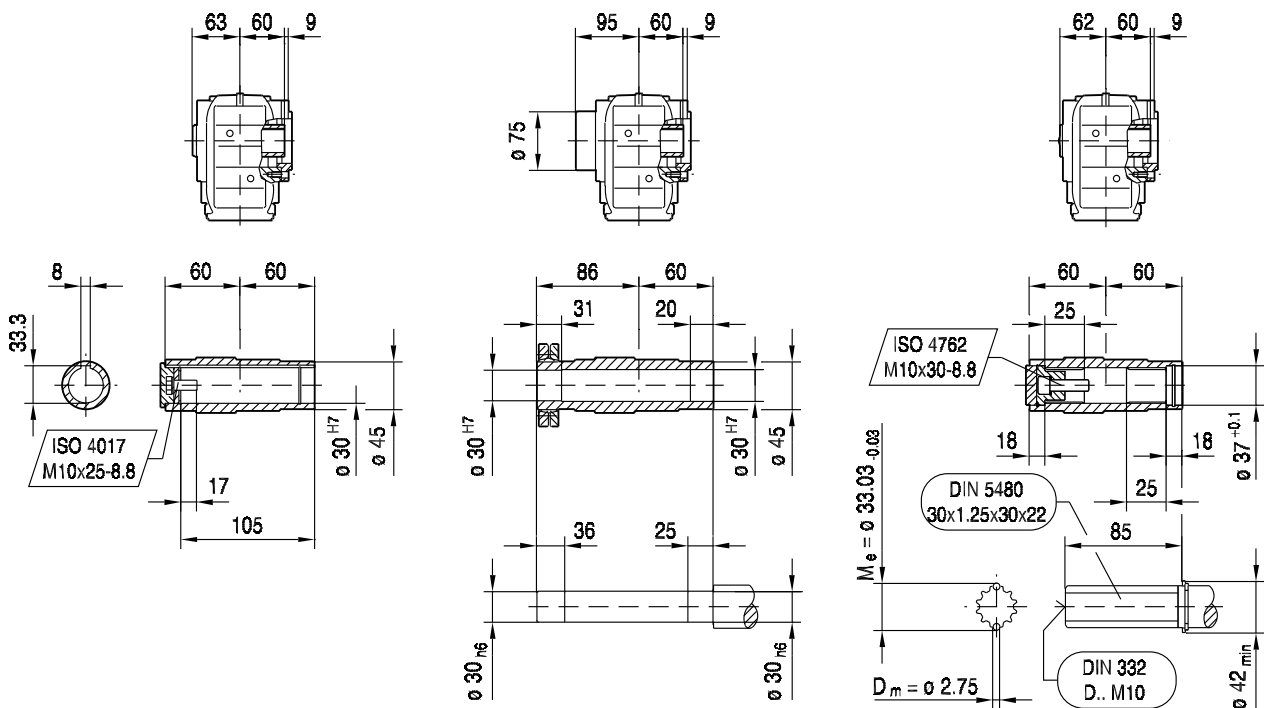


KAZ37..

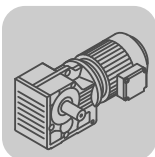
KHZ37..

KVZ37..

10

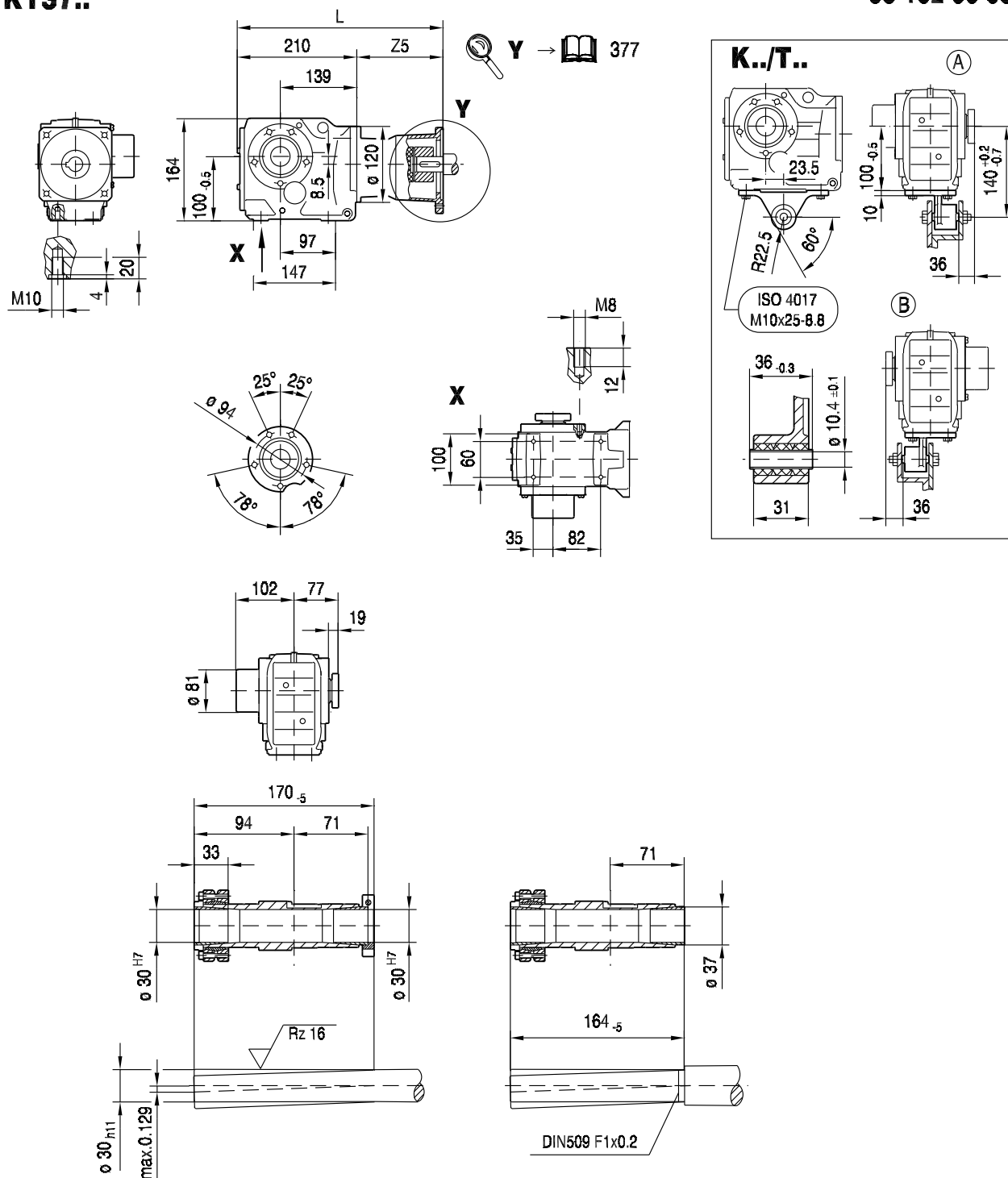


(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3				
L	315	340	354	363				
Z5	104.5	129.5	143.5	152.5				

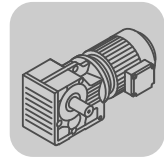


KT37..

33 102 00 08



(→  144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3				
L	315	340	354	363				
Z5	104.5	129.5	143.5	152.5				

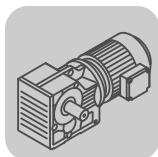


10.2.3 K 47 AQ.. [Nm]

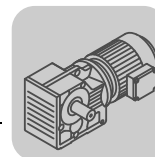
[Nm]	i	AQ. M _{amax} M _{apk} M _{aNotaus}																				
		80/1-3			100/1-4			115/1-2			115/3			140/1			140/2-4			160/1		
K47  3	4.64	78	78	153	78	78	157	78	78	157	205	210	210	205	275	345	205	300	345	205	300	345
	5.81	98	98	191	98	98	197	98	98	197	230	265	265	230	305	390	230	305	390	230	305	390
	6.58	111	111	215	111	111	220	111	111	220	240	300	300	240	310	405	240	310	405	240	310	405
	7.36	125	125	240	125	125	250	125	125	250	250	310	335	250	310	425	250	310	425	250	310	425
	8.56	145	145	280	145	145	290	145	145	290	270	310	390	270	310	455	270	310	455	270	310	455
	9.10	154	154	300	154	154	305	154	154	305	280	310	415	280	310	475	280	310	475	280	310	475
	10.56	179	179	345	179	179	355	179	179	355	280	315	475	280	315	475	280	315	475	280	315	475
	11.77	200	200	385	200	200	400	200	200	400	280	315	475	280	315	475	280	315	475	280	315	475
	12.19	205	205	400	205	205	410	205	205	410	350	435	560	350	435	595	350	435	595	350	435	595
	13.65	230	230	450	230	230	460	230	230	460	360	435	610	360	435	610	360	435	610	360	435	610
	15.86	265	265	520	265	265	535	265	265	535	380	435	645	380	435	645	380	435	645	380	435	645
	16.86	285	285	555	285	285	570	285	285	570	380	435	645	380	435	645	380	435	645	380	435	645
	19.58	330	330	645	330	330	665	330	330	665	400	435	680	400	435	680	400	435	680	400	435	680
	21.81	370	370	680	370	370	680	370	370	680	400	435	680	400	435	680	400	435	680	400	435	680
	24.06	400	405	680	400	405	680	400	405	680	400	435	680	400	435	680	400	435	680	400	435	680
	25.91	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680
	29.32	400	435	680	400	435	680	400	435	680	400	435	680									
	31.30	400	435	680	400	435	680	400	435	680	400	435	680									
	35.39	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680
	39.61	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680
	46.03	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680
	48.95	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680
	56.83	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680
	63.30	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680
	69.84	400	435	680	400	435	680	400	435	680	400	435	680									
	75.20	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680	400	435	680
	85.12	400	435	680	400	435	680	400	435	680	400	435	680									
	90.86	400	435	680	400	435	680	400	435	680	400	435	680									
	104.37	400	435	680	400	435	680	400	435	680	400	435	680									
	121.48	400	435	680	400	435	680	400	435	680	400	435	680									
	131.87	400	435	680	400	435	680	400	435	680	400	435	680									

m [kg]		AQ.							
	s	80/1-3	100/1-4	115/1-2	115/3	140/1	140/2-4	160/1	
K47	 3	22	23	23	23	28	28	28	
KF: + 3.2 kg / KA: + -0.9 kg / KAF: + 2.0 kg									

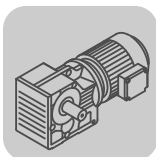
		AQ.						
		80/1-3	100/1-4	115/1-2	115/3	140/1	140/2-4	160/1
J _A 10 ⁻⁴	[kgm ²]	0.77	1.4	1.4	3.1	5.1	10.0	10.0
c _{TA}	[Nm/°]	0.25	0.25	0.25	0.625	0.625	1.0	1.0



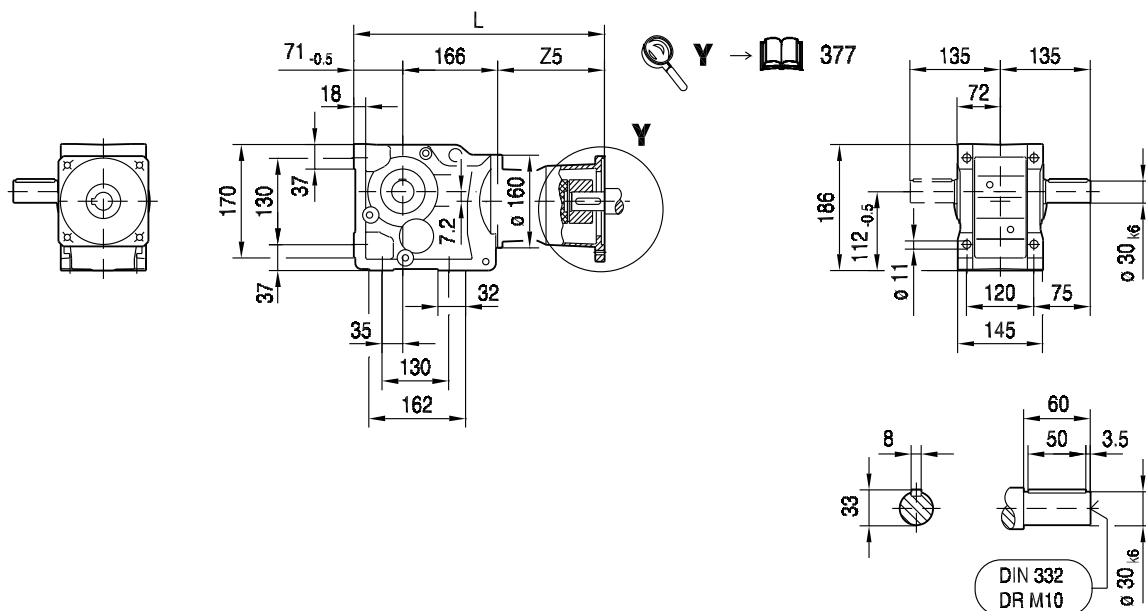
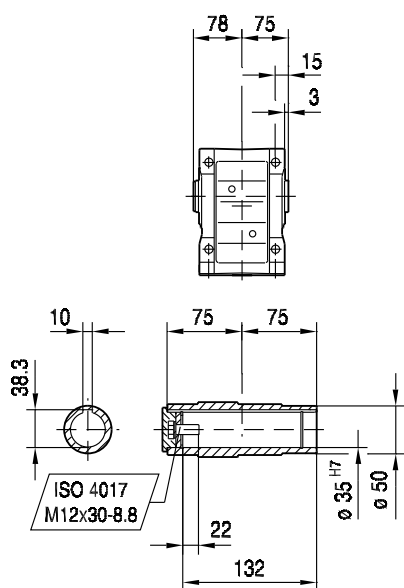
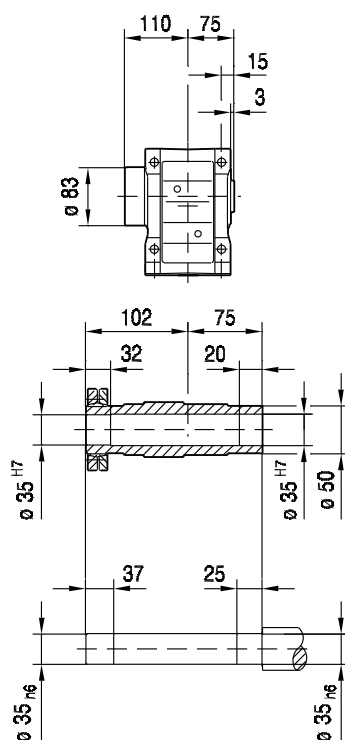
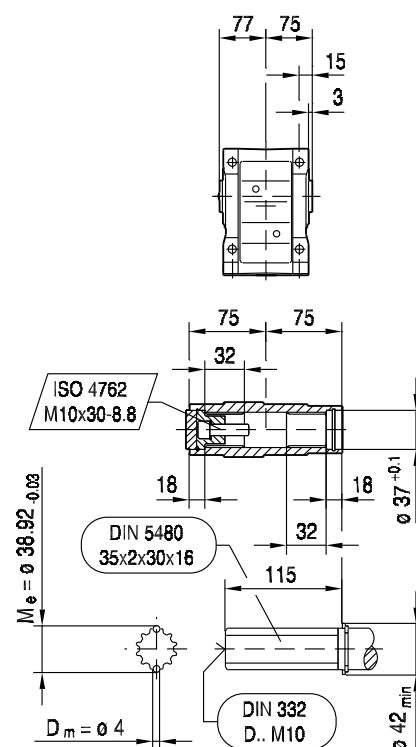
K47 $\eta_e = 1400$							F_{Ramax}				F_{Rapk}			
	i	M_{amax} [Nm]	M_{apk} [Nm]	$M_{aNotaus}$ [Nm]	n_{ak} [1/min]	$J_G \cdot 10^{-4}$ [kgm ²]	K [N]	KF [N]	KA [N]	KAF [N]	K [N]	KF [N]	KA [N]	KAF [N]
K47  3	4.64	205	300	349	302	4.4	2980	2970	2040	2040	7060	7060	10000	10000
	5.81	230	305	391	258	3.6	3140	3140	2100	2100	7020	7020	10000	10000
	6.58	240	310	408	228	2.8	3270	3270	2190	2190	6970	6970	10000	10000
	7.36	250	310	425	217	2.3	3380	3390	2270	2270	6970	6970	10000	10000
	8.56	270	310	459	175	1.8	3500	3520	2310	2310	6970	6970	10000	10000
	9.10	280	310	476	165	1.6	3540	3560	2310	2310	6970	6970	10000	10000
	10.56	280	315	476	170	1.2	3830	3840	2580	2580	6920	6920	10000	10000
	11.77	280	315	476	178	1.0	4060	4050	2770	2770	6920	6920	10000	10000
	12.19	350	435	595	279	2.4	3720	3770	2330	2330	900	900	10000	10000
	13.65	360	435	612	249	2.0	3890	3940	2450	2450	900	900	10000	10000
	15.86	380	435	646	208	1.6	4080	4130	2570	2570	900	900	10000	10000
	16.86	380	435	646	214	1.4	4220	4270	2690	2690	900	900	10000	10000
	19.58	400	435	680	179	1.1	4440	4480	2820	2820	900	900	10000	10000
	21.81	400	435	680	179	0.91	4710	4740	3070	3070	900	900	10000	10000
	24.06	400	435	680	179	0.75	4970	4990	3300	3300	900	900	10000	10000
	25.91	400	435	680	178	0.68	5170	5180	3470	3470	900	900	10000	10000
	29.32	400	435	680	177	0.55	5520	5500	3780	3780	900	900	10000	10000
	31.30	400	435	680	179	0.50	5700	5680	3940	3940	900	900	10000	10000
	35.39	400	435	680	93	1.3	5920	5920	4270	4270	900	900	10000	10000
	39.61	400	435	680	96	1.1	5920	5920	4580	4580	900	900	10000	10000
	46.03	400	435	680	100	0.88	5920	5920	5000	5000	900	900	10000	10000
	48.95	400	435	680	100	0.80	5920	5920	5190	5190	900	900	10000	10000
	56.83	400	435	680	104	0.64	5920	5920	5640	5640	900	900	10000	10000
	63.30	400	435	680	104	0.54	5920	5920	5990	5990	900	900	10000	10000
	69.84	400	435	680	100	0.45	5920	5920	6320	6320	900	900	10000	10000
	75.20	400	435	680	93	0.42	5920	5920	6570	6570	900	900	10000	10000
	85.12	400	435	680	82	0.35	5920	5920	7000	7000	900	900	10000	10000
	90.86	400	435	680	77	0.32	5920	5920	7240	7240	900	900	10000	10000
	104.37	400	435	680	67	0.26	5920	5920	7760	7760	900	900	10000	10000
	121.48	400	435	680	58	0.21	5920	5920	8360	8360	900	900	10000	10000
	131.87	400	435	680	53	0.18	5920	5920	8700	8700	900	900	10000	10000



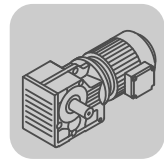
AQ.		n _{epk} [1/min]	η [%]	C _{TG}				Φ /R [°]
				K [Nm/°]	KF [Nm/°]	KA [Nm/°]	KAF [Nm/°]	
K47  3	4.64	4500	96	26	23	50	50	12
	5.81	4500	96	26	23	50	50	12
	6.58	4500	96	26	23	50	50	12
	7.36	4500	96	26	23	50	50	11
	8.56	4500	96	26	23	50	50	11
	9.10	4500	96	26	23	50	50	11
	10.56	4500	96	26	23	50	50	11
	11.77	4500	96	26	23	50	50	10
	12.19	4500	96	33	29	90	90	8
	13.65	4500	96	33	29	90	90	8
	15.86	4500	96	33	29	90	90	8
	16.86	4500	96	33	29	90	90	8
	19.58	4500	96	33	29	90	90	8
	21.81	4500	96	33	29	90	90	8
	24.06	4500	96	33	29	90	90	8
	25.91	4500	96	33	29	90	90	8
	29.32	4500	96	33	29	90	90	8
	31.30	4500	96	33	29	90	90	7
	35.39	4500	94	36	32	117	117	7
	39.61	4500	94	36	32	117	117	7
	46.03	4500	94	36	32	117	117	7
	48.95	4500	94	36	32	117	117	7
	56.83	4500	94	36	32	117	117	7
	63.30	4500	94	36	32	117	117	7
	69.84	4500	94	36	32	117	117	6
	75.20	4500	94	36	32	117	117	6
	85.12	4500	94	36	32	117	117	6
	90.86	4500	94	36	32	117	117	6
	104.37	4500	93	36	32	117	117	6
	121.48	4500	93	36	32	117	117	6
	131.87	4500	93	36	32	117	117	6



10.2.4 K 47 AQ.. [mm]

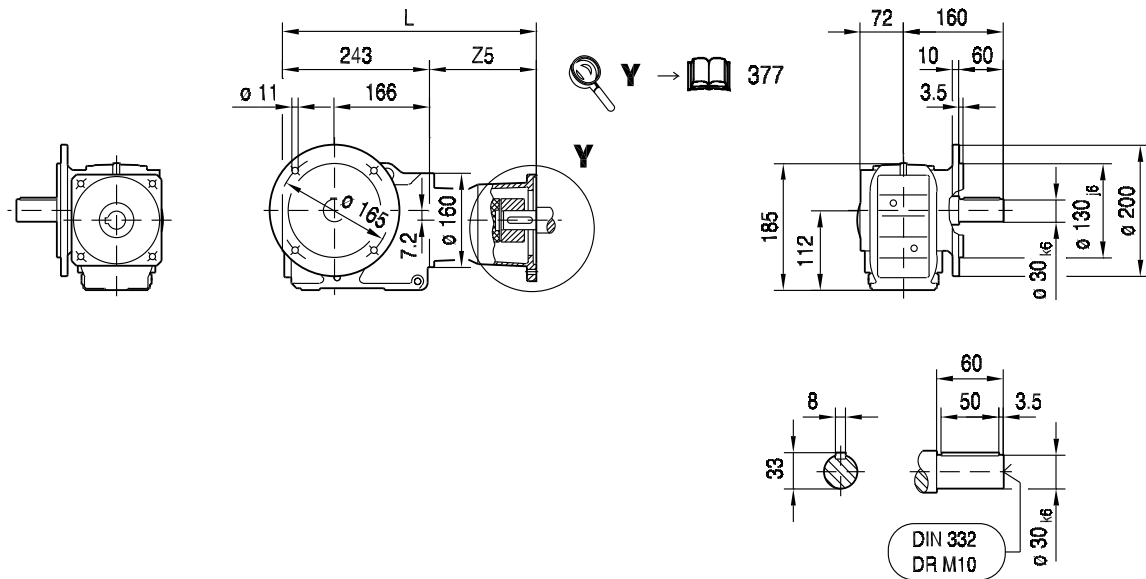
33 104 00 08^L**K47..****KA47B..****KH47B..****KV47B..**

(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	
L	335	360	374	383	412	425	425	
Z5	98	123	137	146	175	188	188	



33 105 00 08^L

KF47..

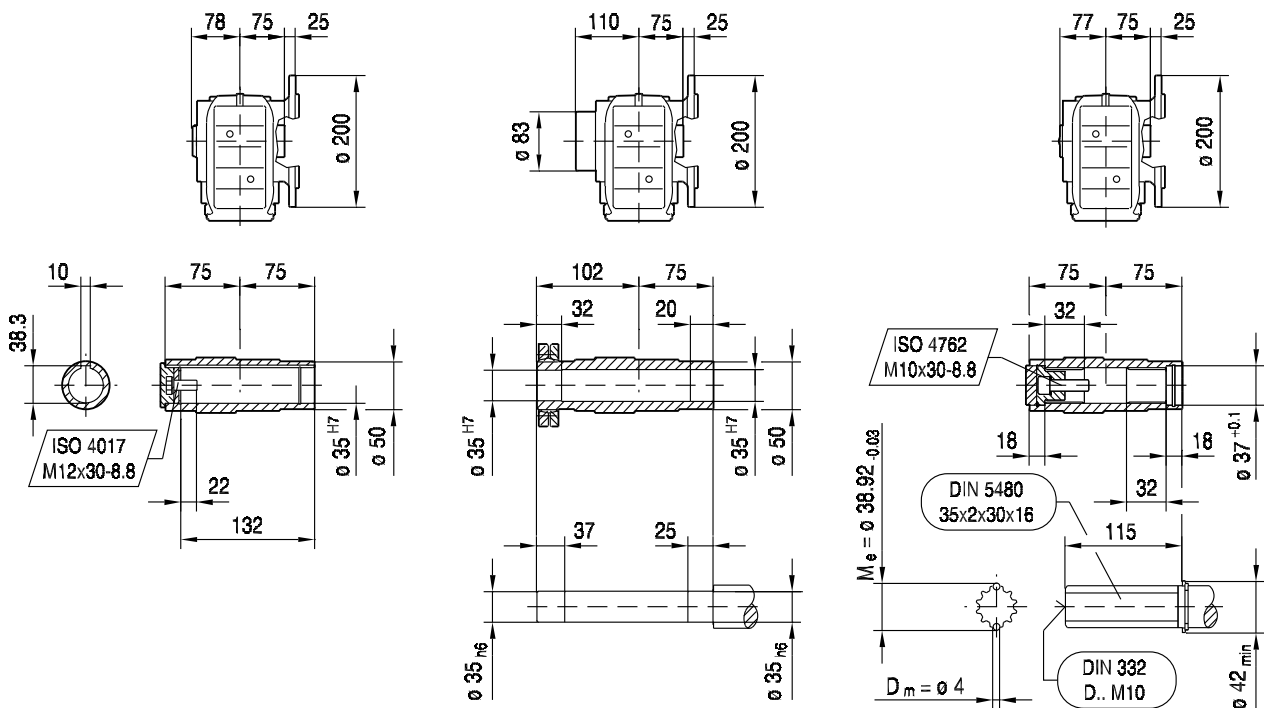


KAF47..

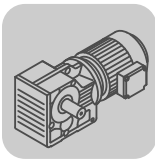
KHF47..

KVF47..

10

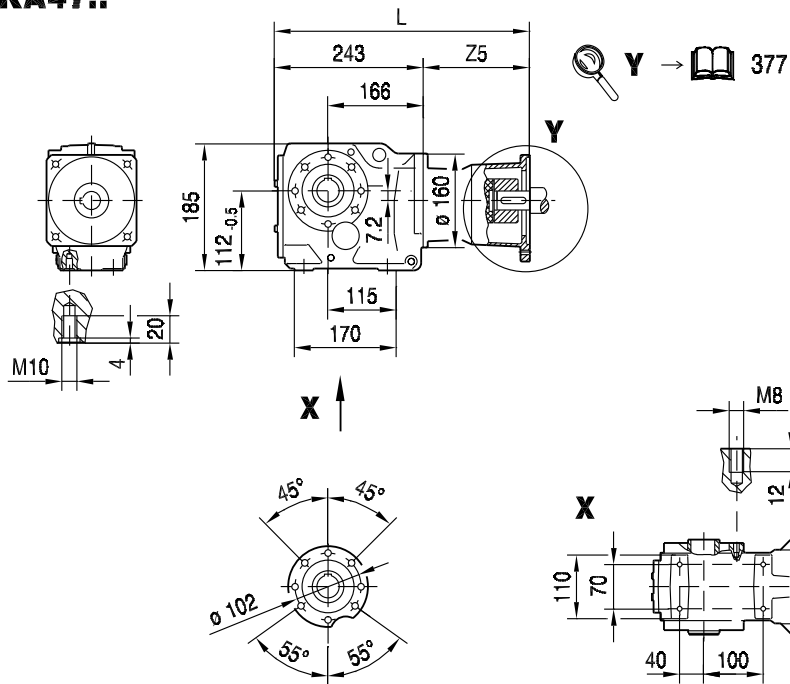


(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	
L	341	366	380	389	418	431	431	
Z5	98	123	137	146	175	188	188	

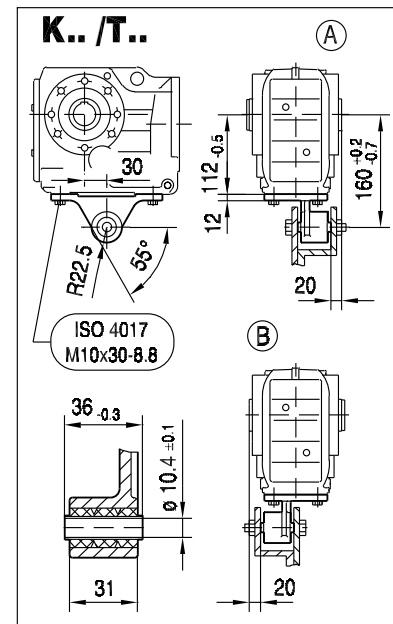


K..
K.. AQ..

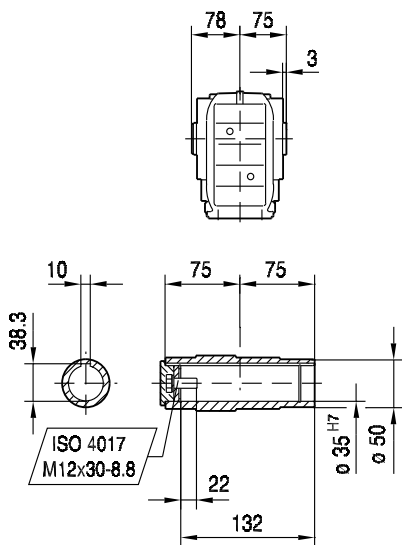
KA47..



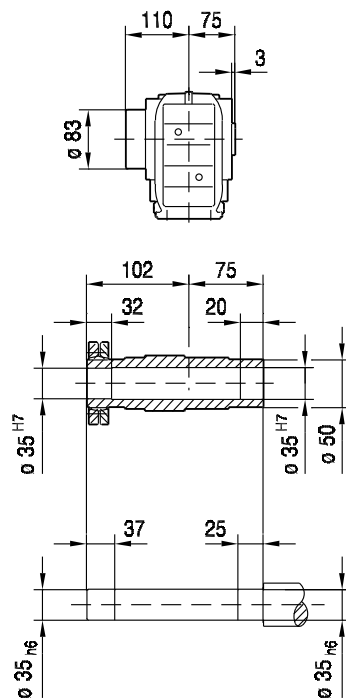
33 106 00 08^L



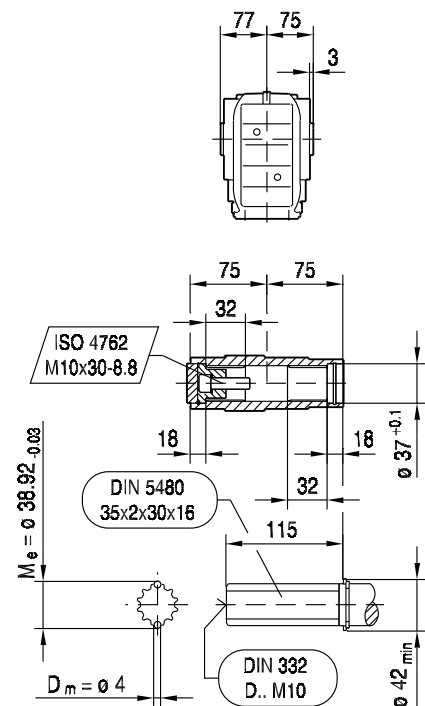
KA47..



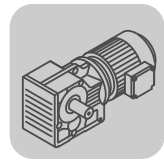
KH47..



KV47..

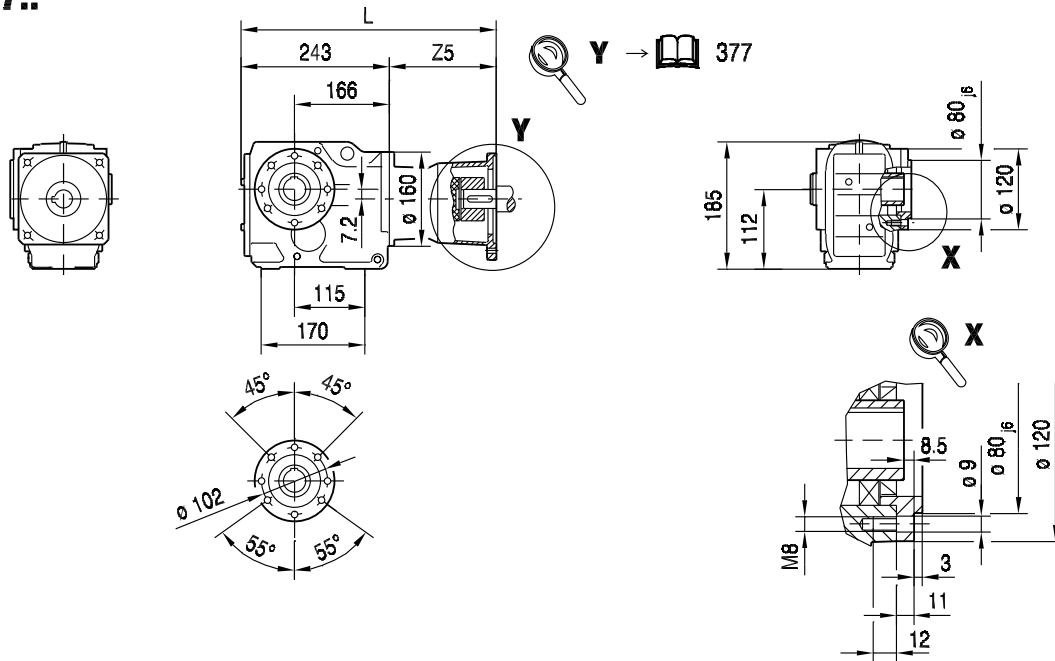


(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	
L	341	366	380	389	418	431	431	
Z5	98	123	137	146	175	188	188	



33 108 00 08

KAZ47..

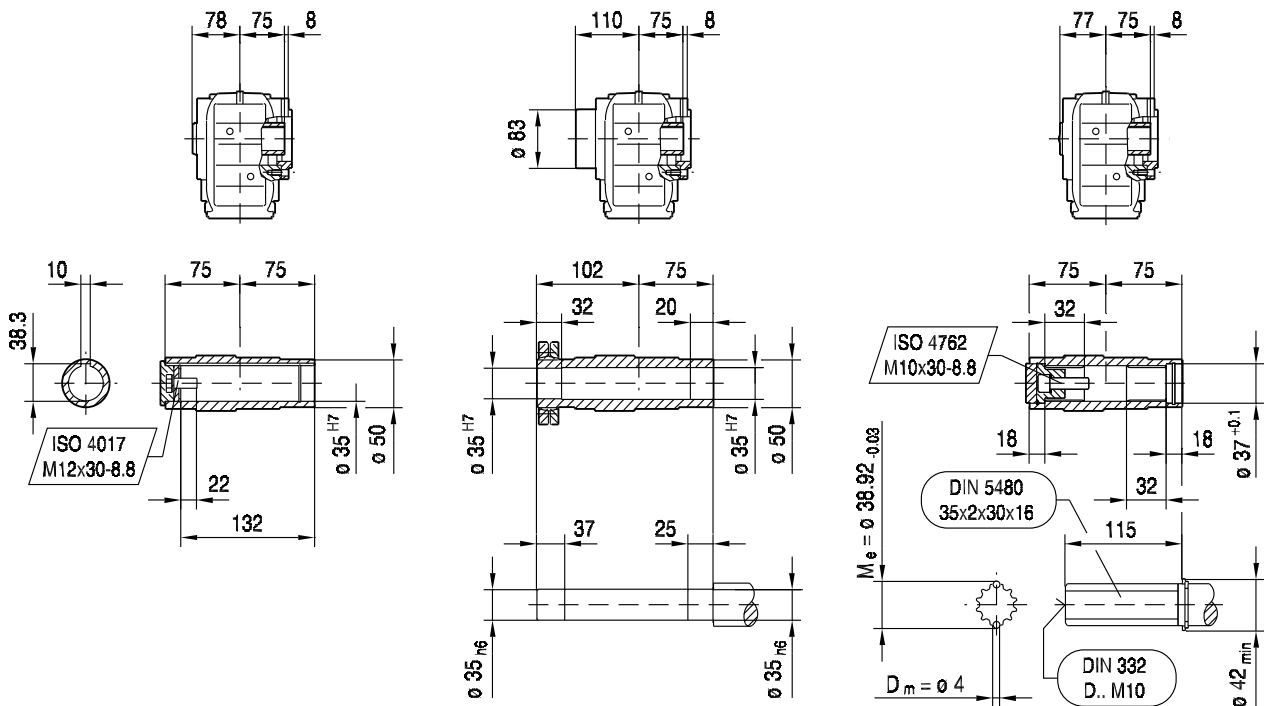


KAZ47..

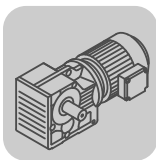
KHZ47..

KVZ47..

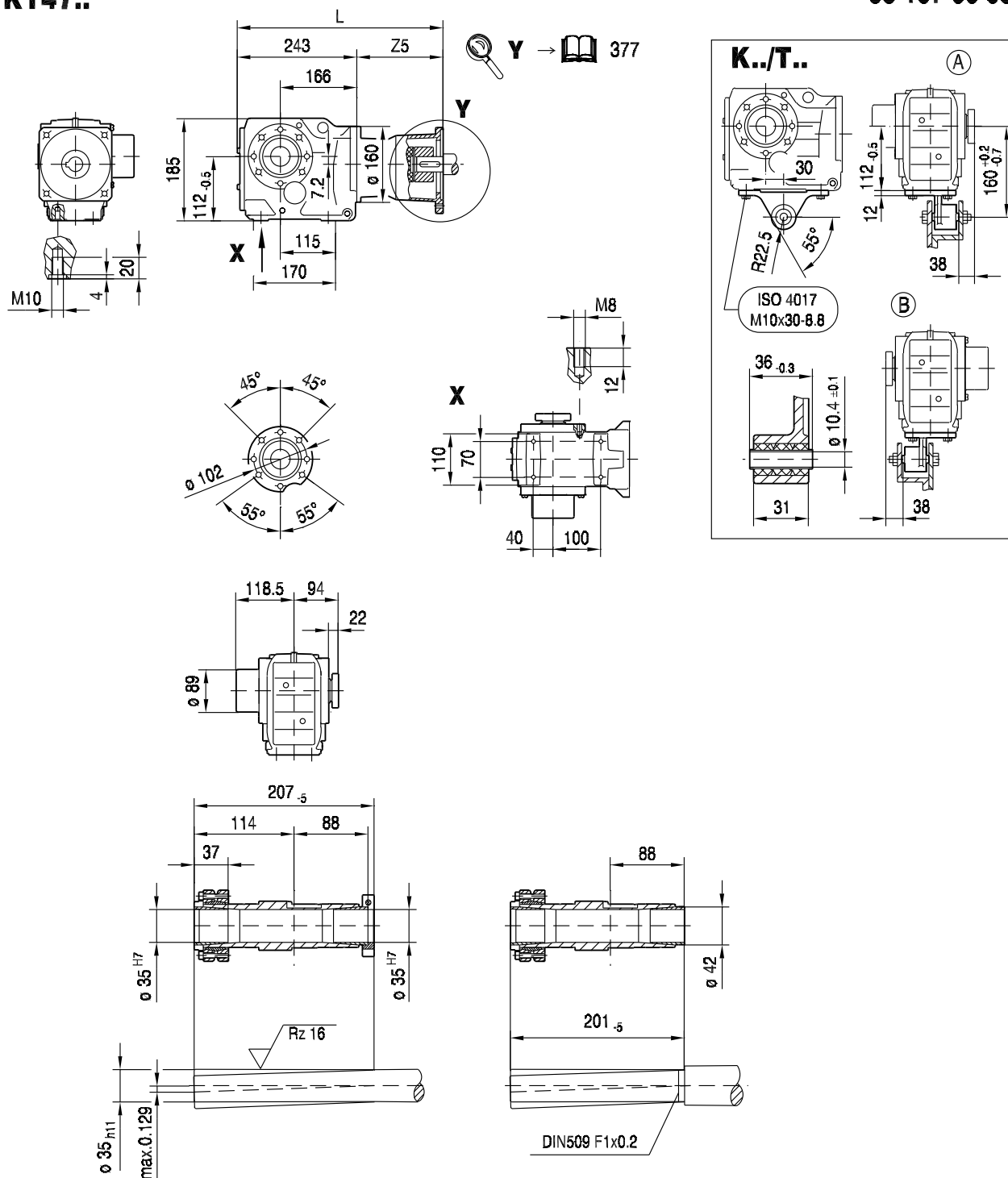
10



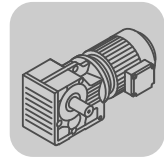
(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	
L	341	366	380	389	418	431	431	
Z5	98	123	137	146	175	188	188	



KT47..

33 107 00 08^L

(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	
L	341	366	380	389	418	431	431	
Z5	98	123	137	146	175	188	188	

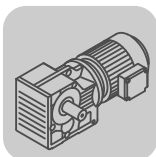


10.2.5 K 57 AQ.. [Nm]

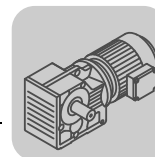
[Nm]		AQ. M _{amax} M _{apk} M _{aNotaus}																							
	i	80/1-3			100/1-4			115/1-2			115/3			140/1			140/2-4			160/1			190/1-3		
K57  3	4.69	79	79	154	79	79	159	79	79	159	215	215	215	280	280	465	300	450	465	300	450	465	300	450	510
	6.57	111	111	215	111	111	220	111	111	220	300	300	300	345	390	585	345	515	585	345	515	585	345	515	585
	7.55	128	128	245	128	128	255	128	128	255	345	345	345	365	450	620	365	545	620	365	545	620	365	545	620
	8.71	148	148	285	148	148	295	148	148	295	390	400	400	390	520	660	390	585	660	390	585	660	390	585	660
	9.59	163	163	315	163	163	325	163	163	325	405	440	440	405	575	685	405	585	685	405	585	685	405	585	685
	11.26	191	191	370	191	191	380	191	191	380	415	515	515	415	585	705	415	585	705	415	585	705	415	585	705
	11.92	200	200	390	200	200	405	200	200	405	415	545	545	415	585	705	415	585	705	415	585	705	415	585	705
	13.25	225	225	435	225	225	450	225	225	450	510	605	605	510	665	860	510	665	860	510	665	860	510	665	860
	15.22	255	255	500	255	255	515	255	255	515	535	665	700	535	665	910	535	665	910	535	665	910	535	665	910
	17.57	295	295	575	295	295	595	295	295	595	555	665	800	555	665	940	555	665	940	555	665	940	555	665	940
	19.34	325	325	635	325	325	655	325	325	655	575	665	880	575	665	970	575	665	970	575	665	970	575	665	970
	22.71	385	385	745	385	385	770	385	385	770	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020
	24.05	405	405	790	405	405	810	405	405	810	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020
	27.34	460	460	900	460	460	920	460	460	920	600	665	1020	600	665	1020	600	665	1020	600	665	1020			
	30.28	510	510	990	510	510	1020	510	510	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020			
	35.70	600	605	1020	600	605	1020	600	605	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020			
	38.49	600	650	1020	600	650	1020	600	650	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020
	44.43	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020
	48.89	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020
	57.42	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020
	60.81	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020
	69.12	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020			
	76.56	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020			
	90.26	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020	600	665	1020			
	102.88	600	665	1020	600	665	1020	600	665	1020	600	665	1020												
	108.29	600	665	1020	600	665	1020	600	665	1020	600	665	1020												
	123.85	600	665	1020	600	665	1020	600	665	1020	600	665	1020												
	145.14	600	665	1020	600	665	1020	600	665	1020	600	665	1020												

m [kg]		AQ.								
	s	80/1-3	100/1-4	115/1-2	115/3	140/1	140/2-4	160/1	190/1-3	
K57	 3	28	28	29	29	34	34	34	43	
KF: + 4.7 kg / KA: + 2.1 kg / KAF: + 3.6 kg										

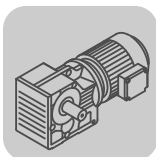
		AQ.							
		80/1-3	100/1-4	115/1-2	115/3	140/1	140/2-4	160/1	190/1-3
J _A 10 ⁻⁴	[kgm ²]	0.77	1.4	1.4	3.1	5.1	10.0	10.0	25.0
c _{TA}	[Nm/°]	0.25	0.25	0.25	0.625	0.625	1.0	1.0	2.08



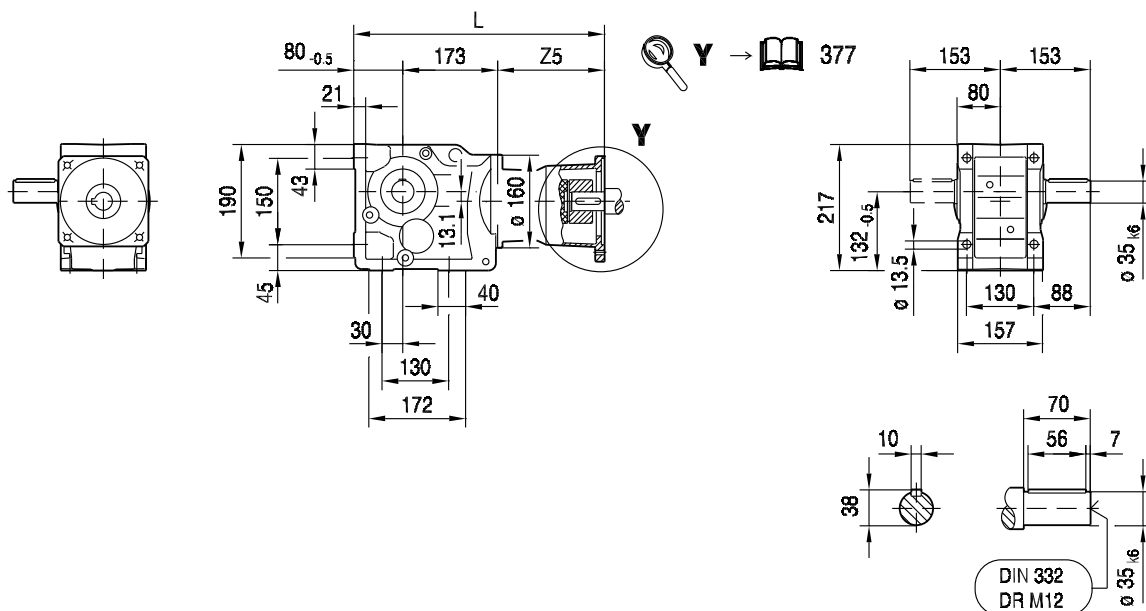
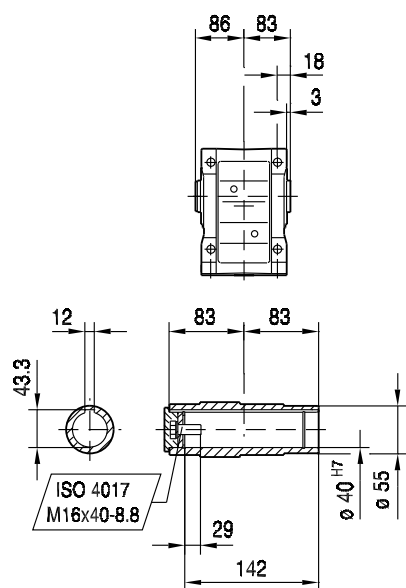
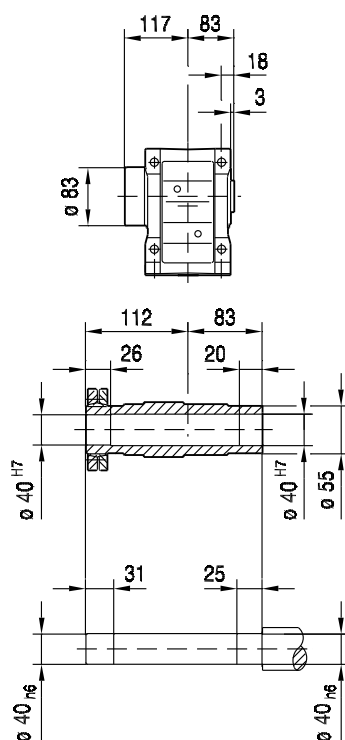
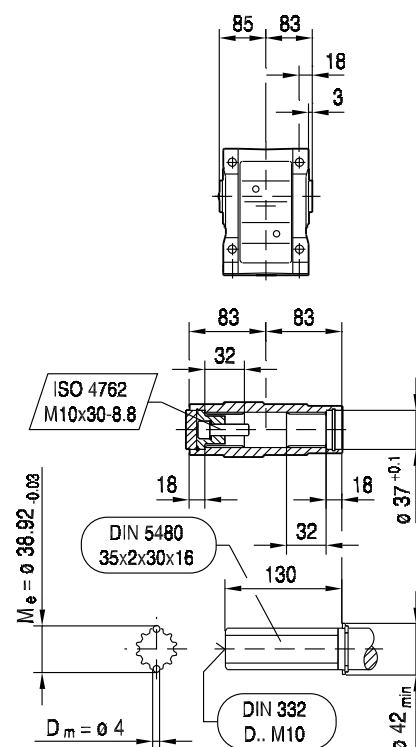
K57 $n_e = 1400$							$F_{R_{max}}$				$F_{R_{apk}}$			
	i	M_{amax} [Nm]	M_{apk} [Nm]	$M_{aNotaus}$ [Nm]	n_{ak} [1/min]	$J_G \cdot 10^{-4}$ [kgm ²]	K [N]	KF [N]	KA [N]	KAF [N]	K [N]	KF [N]	KA [N]	KAF [N]
K57  3	4.69	300	450	510	320	9.0	3800	3980	2580	2580	8520	8520	11500	11500
	6.57	345	517	587	244	5.6	4180	4400	2800	2800	7990	8110	11500	11500
	7.55	365	547	621	225	4.4	4360	4580	2900	2900	7740	7920	11500	11500
	8.71	390	585	663	195	3.5	4520	4760	2980	2980	7420	7660	11500	11500
	9.59	405	585	689	177	3.0	4650	4900	3050	3050	7420	7660	11500	11500
	11.26	415	585	706	178	2.3	4990	5250	3340	3340	7420	7660	11500	11500
	11.92	415	585	706	176	2.1	5150	5400	3470	3470	7420	7660	11500	11500
	13.25	510	665	867	226	4.8	5190	5350	3240	3240	4700	4700	11500	11500
	15.22	535	665	910	197	3.8	5430	5600	3390	3390	4700	4700	11500	11500
	17.57	555	665	944	171	3.0	5740	5910	3610	3610	4700	4700	11500	11500
	19.34	575	665	978	155	2.6	5910	6080	3710	3710	4700	4700	11500	11500
	22.71	600	665	1020	132	2.0	6280	6460	3970	3970	4700	4700	11500	11500
	24.05	600	665	1020	133	1.9	6480	6650	4140	4140	4700	4700	11500	11500
	27.34	600	665	1020	132	1.5	6930	7090	4550	4550	4700	4700	11500	11500
	30.28	600	665	1020	132	1.2	7300	7460	4880	4880	4700	4700	11500	11500
	35.70	600	665	1020	134	0.95	7630	7720	5440	5440	4700	4700	11500	11500
	38.49	600	665	1020	70	2.3	7630	7720	5710	5710	4700	4700	11500	11500
	44.43	600	665	1020	72	1.9	7630	7720	6240	6240	4700	4700	11500	11500
	48.89	600	665	1020	74	1.6	7630	7720	6610	6610	4700	4700	11500	11500
	57.42	600	665	1020	75	1.3	7630	7720	7260	7260	4700	4700	11500	11500
	60.81	600	665	1020	76	1.2	7630	7720	7490	7490	4700	4700	11500	11500
	69.12	600	665	1020	77	0.98	7630	7720	8040	8040	4700	4700	11500	11500
	76.56	600	665	1020	78	0.85	7630	7720	8500	8500	4700	4700	11500	11500
	90.26	600	665	1020	78	0.67	7630	7720	9260	9260	4700	4700	11500	11500
	102.88	600	665	1020	68	0.46	7630	7720	9900	9900	4700	4700	11500	11500
	108.29	600	665	1020	65	0.41	7630	7720	10200	10200	4700	4700	11500	11500
	123.85	600	665	1020	57	0.33	7630	7720	10900	10900	4700	4700	11500	11500
	145.14	600	665	1020	48	0.27	7630	7720	11500	11500	4700	4700	11500	11500



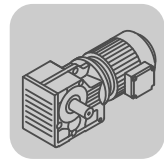
AQ.		n _{epk} [1/min]	η [%]	K [Nm/']	C _{TG}		KA [Nm/']	KAF [Nm/']	φ /R [°]
	i				KF [Nm/']				
K57  3	4.69	4045	96	34	33		81	81	11
	6.57	4500	96	34	33		81	81	10
	7.55	4500	96	34	33		81	81	10
	8.71	4500	96	34	33		81	81	10
	9.59	4500	96	34	33		81	81	10
	11.26	4500	96	34	33		81	81	9
	11.92	4500	96	34	33		81	81	9
	13.25	4500	96	41	39		135	135	7
	15.22	4500	96	41	39		135	135	7
	17.57	4500	96	41	39		135	135	7
	19.34	4500	96	41	39		135	135	7
	22.71	4500	96	41	39		135	135	7
	24.05	4500	96	41	39		135	135	7
	27.34	4500	96	41	39		135	135	7
	30.28	4500	96	41	39		135	135	7
	35.70	4500	96	41	39		135	135	7
	38.49	4500	94	43	40		150	150	6
	44.43	4500	94	43	40		150	150	6
	48.89	4500	94	43	40		150	150	6
	57.42	4500	94	43	40		150	150	6
	60.81	4500	94	43	40		150	150	6
	69.12	4500	94	43	40		150	150	6
	76.56	4500	94	43	40		150	150	6
	90.26	4500	94	43	40		150	150	6
	102.88	4500	94	43	40		150	150	6
	108.29	4500	94	43	40		150	150	6
	123.85	4500	93	43	40		150	150	6
	145.14	4500	93	43	40		150	150	6



10.2.6 K 57 AQ.. [mm]

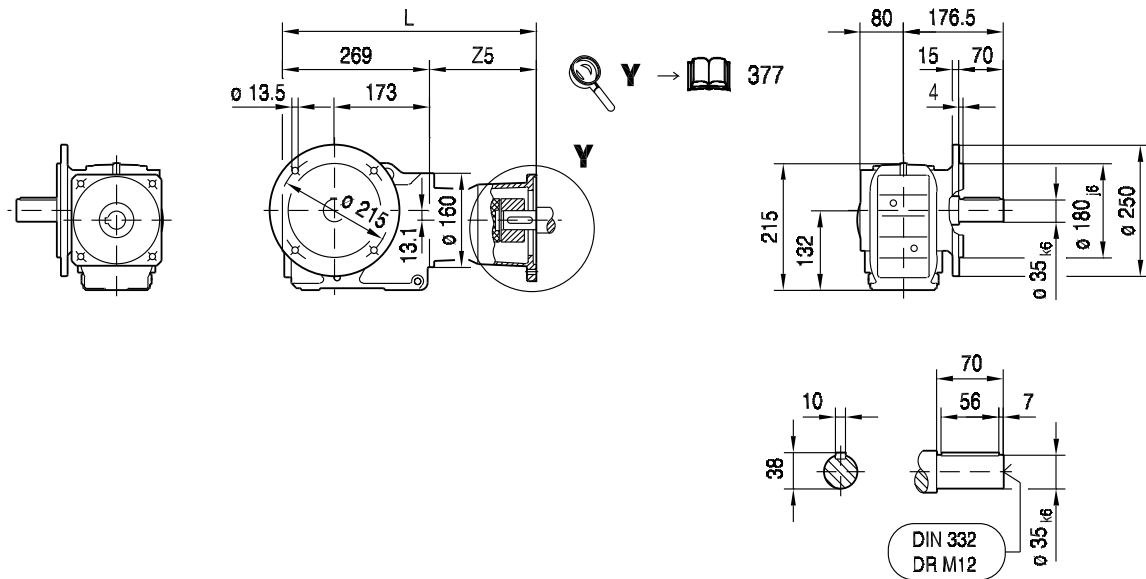
33 109 00 08^L**K57..****KA57B..****KH57B..****KV57B..**

(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	351	376	390	399	428	441	441	491	515
Z5	98	123	137	146	175	188	188	237.5	261.5



33 110 00 08^L

KF57..

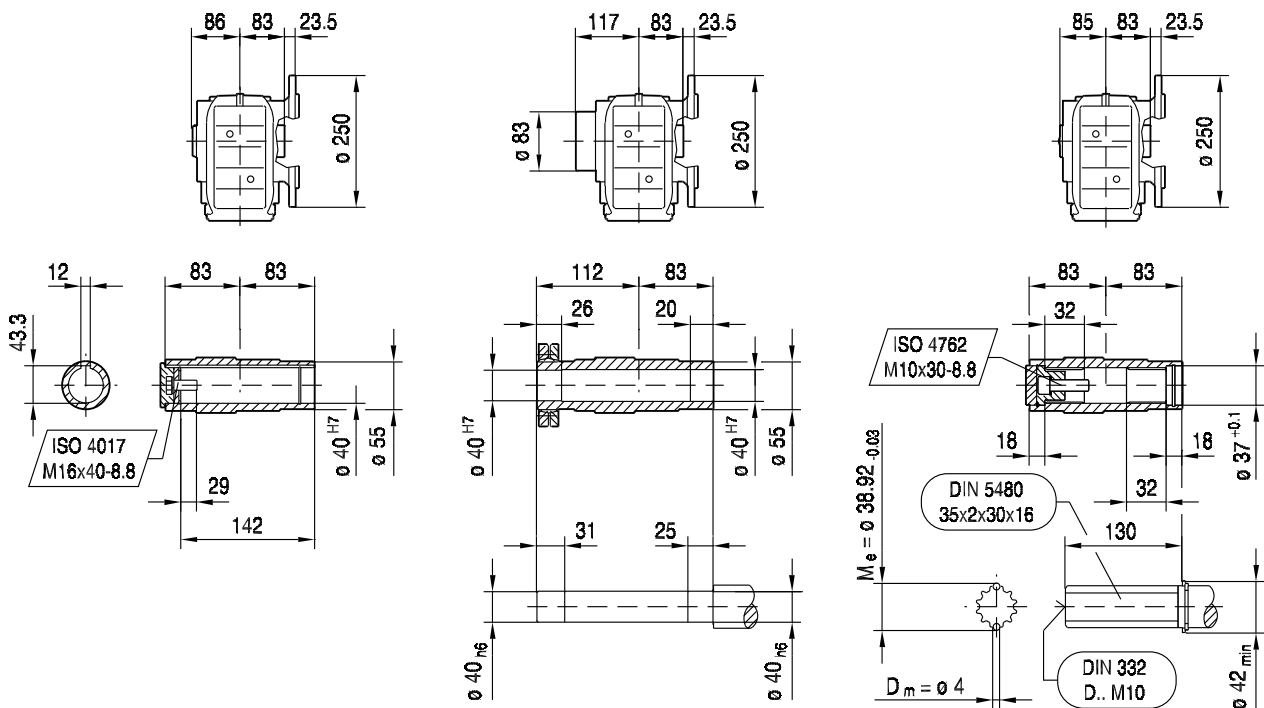


KAF57..

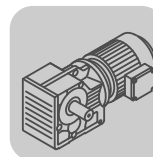
KHF57..

KVF57..

10

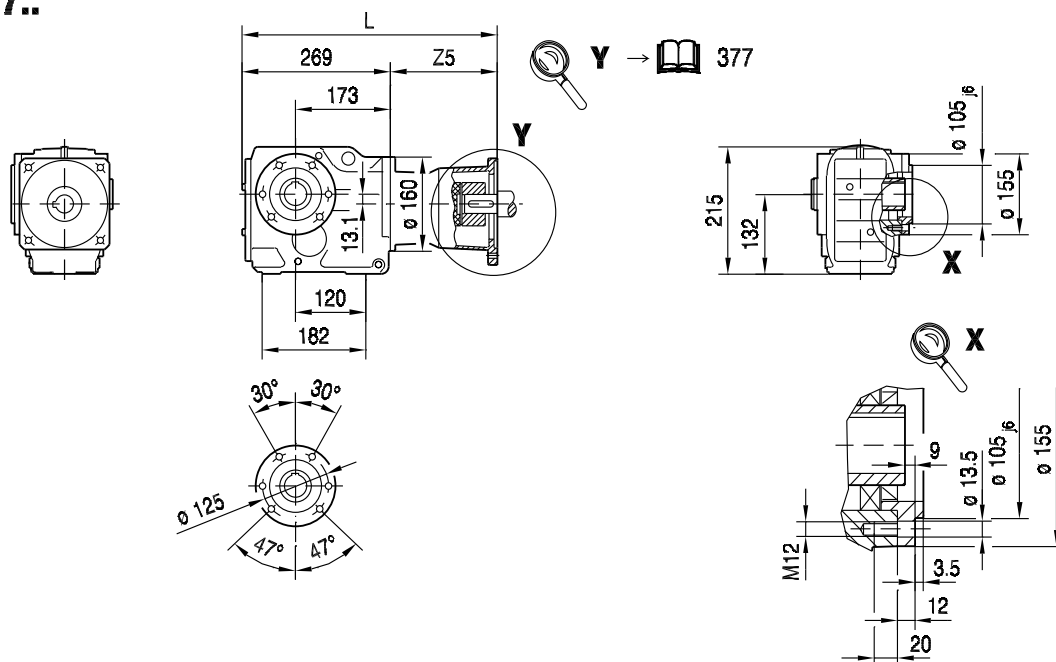


(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	367	392	406	415	444	457	457	507	531
Z5	98	123	137	146	175	188	188	237.5	261.5



33 113 00 08

KAZ57..

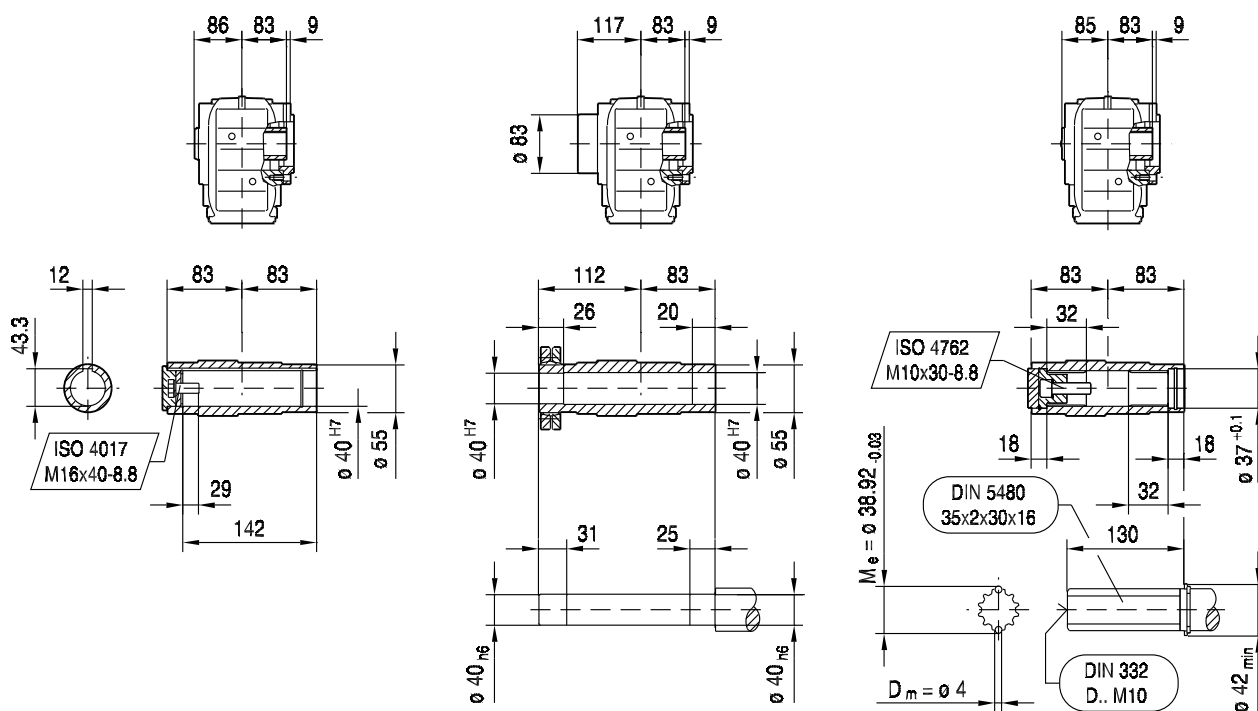


KAZ57..

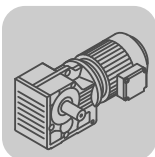
KHZ57..

KVZ57..

10

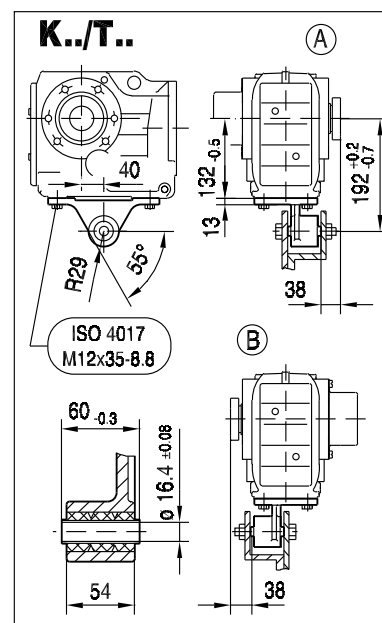
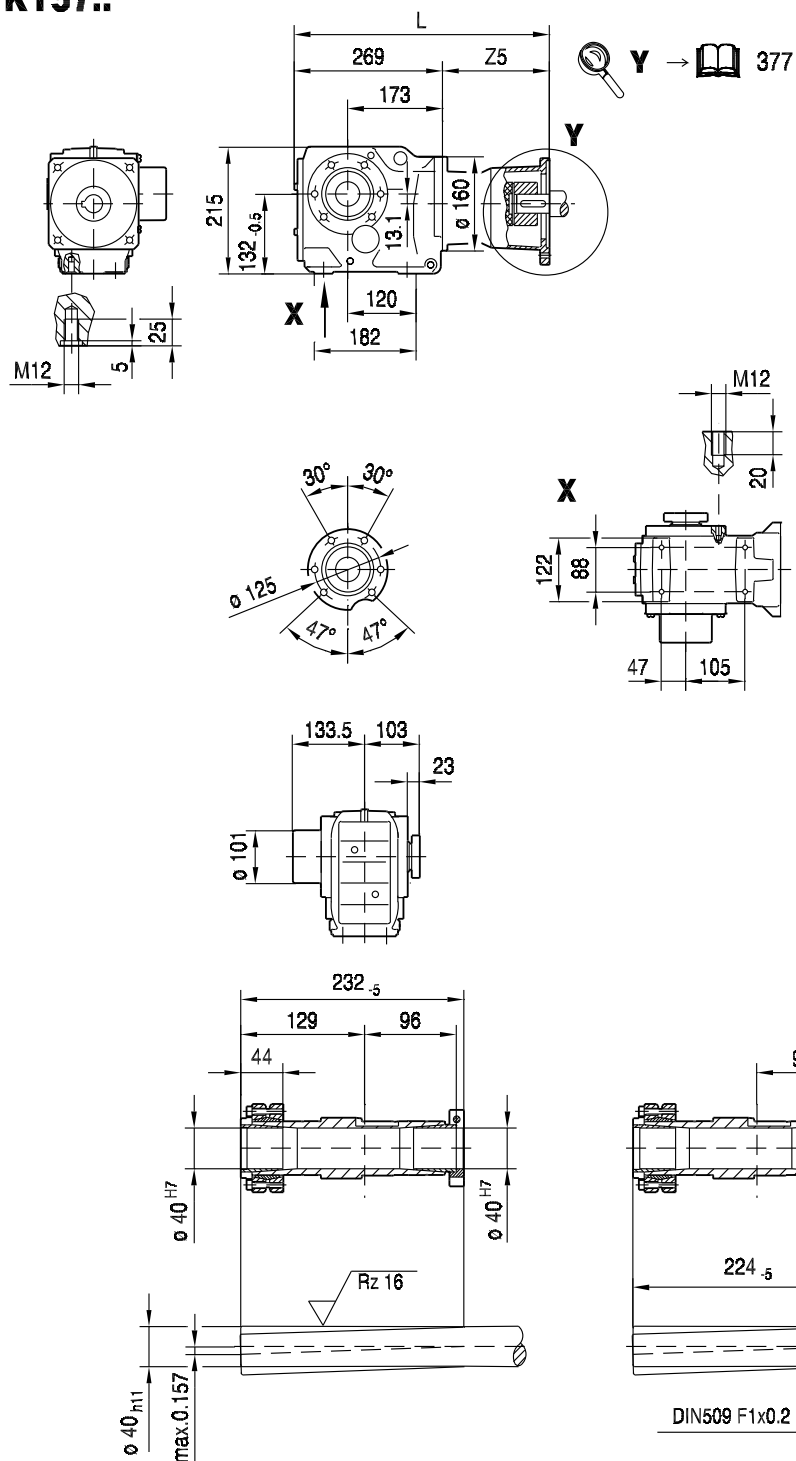


(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	367	392	406	415	444	457	457	507	531
Z5	98	123	137	146	175	188	188	237.5	261.5

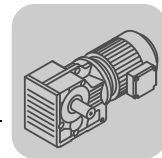


KT57..

33 112 00 08



(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	367	392	406	415	444	457	457	507	531
Z5	98	123	137	146	175	188	188	237.5	261.5

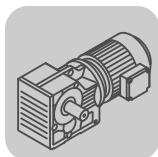


10.2.7 K 67 AQ.. [Nm]

[Nm]		AQ.																							
		M _{amax} M _{apk} M _{aNotaus}																							
	i	80/1-3			100/1-4			115/1-2			115/3			140/1			140/2-4			160/1			190/1-3		
K67  3	5.20	88	88	171	88	88	176	88	88	176	235	235	235	310	310	520	350	520	520	350	520	520	350	525	595
	7.28	123	123	240	123	123	245	123	123	245	330	330	330	420	435	710	420	630	710	420	630	710	420	630	710
	8.37	142	142	275	142	142	280	142	142	280	385	385	385	440	500	745	440	660	745	440	660	745	440	660	745
	9.66	164	164	315	164	164	325	164	164	325	440	440	440	480	575	810	480	685	810	480	685	810	480	685	810
	10.63	180	180	350	180	180	360	180	180	360	485	485	485	500	635	850	500	690	850	500	690	850	500	690	850
	12.48	210	210	410	210	210	420	210	210	420	530	570	570	530	695	900	530	695	900	530	695	900	530	695	900
	13.22	220	220	435	220	220	445	220	220	445	605	605	605	670	790	1130	670	920	1130	670	920	1130	670	920	1130
	15.19	255	255	500	255	255	515	255	255	515	695	695	695	700	910	1190	700	920	1190	700	920	1190	700	920	1190
	17.54	295	295	575	295	295	595	295	295	595	740	800	800	740	920	1250	740	920	1250	740	920	1250	740	920	1250
	19.30	325	325	635	325	325	655	325	325	655	760	880	880	760	920	1290	760	920	1290	760	920	1290	760	920	1290
	22.66	385	385	745	385	385	770	385	385	770	780	920	1040	780	920	1320	780	920	1320	780	920	1320	780	920	1320
	24.00	405	405	790	405	405	810	405	405	810	800	920	1100	800	920	1360	800	920	1360	800	920	1360	800	920	1360
	27.28	460	460	900	460	460	920	460	460	920	820	920	1250	820	920	1390	820	920	1390	820	920	1390	820	920	1390
	30.22	510	510	990	510	510	1020	510	510	1020	820	920	1390	820	920	1390	820	920	1390	820	920	1390			
	35.62	605	605	1170	605	605	1210	605	605	1210	820	920	1390	820	920	1390	820	920	1390	820	920	1390			
	38.39	650	650	1260	650	650	1300	650	650	1300	800	920	1360	800	920	1360	800	920	1360	800	920	1360	800	920	1360
	44.32	750	750	1390	750	750	1390	750	750	1390	820	920	1390	820	920	1390	820	920	1390	820	920	1390	820	920	1390
	48.77	820	820	1390	820	820	1390	820	820	1390	820	920	1390	820	920	1390	820	920	1390	820	920	1390	820	920	1390
	57.28	820	820	1390	820	820	1390	820	820	1390	820	920	1390	820	920	1390	820	920	1390	820	920	1390	820	920	1390
	60.66	820	820	1390	820	820	1390	820	820	1390	820	920	1390	820	920	1390	820	920	1390	820	920	1390	820	920	1390
	68.95	820	820	1390	820	820	1390	820	820	1390	820	920	1390	820	920	1390	820	920	1390	820	920	1390			
	76.37	820	820	1390	820	820	1390	820	820	1390	820	920	1390	820	920	1390	820	920	1390	820	920	1390			
	90.04	820	820	1390	820	820	1390	820	820	1390	820	920	1390	820	920	1390	820	920	1390	820	920	1390			
	102.62	820	820	1390	820	820	1390	820	820	1390	820	920	1390	820	920	1390									
	108.03	820	820	1390	820	820	1390	820	820	1390	820	920	1390	820	920	1390									
	123.54	820	820	1390	820	820	1390	820	820	1390	820	920	1390	820	920	1390									
	144.79	820	820	1390	820	820	1390	820	820	1390	820	920	1390	820	920	1390									

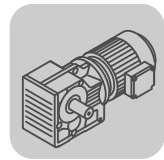
m [kg]		AQ.							
	s	80/1-3	100/1-4	115/1-2	115/3	140/1	140/2-4	160/1	190/1-3
K67  3		34	34	35	35	40	40	40	48
KF: + 5.6 kg / KA: + -2.7 kg / KAF: + 3.0 kg									

		AQ.							
		80/1-3	100/1-4	115/1-2	115/3	140/1	140/2-4	160/1	190/1-3
J_A 10⁻⁴	[kgm²]	0.77	1.4	1.4	3.1	5.1	10.0	10.0	25.0
c_{TA}	[Nm/°]	0.25	0.25	0.25	0.625	0.625	1.0	1.0	2.08

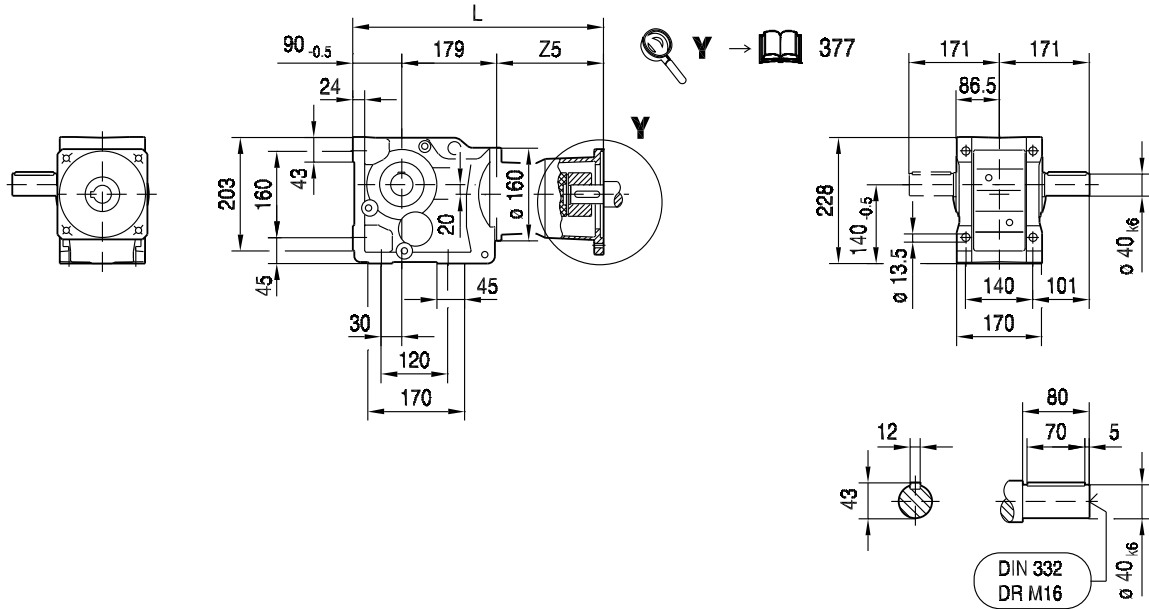


K67 $n_e = 1400$							F_{Rmax}				F_{Rapk}			
	i	M_{amax} [Nm]	M_{apk} [Nm]	$M_{aNotaus}$ [Nm]	n_{ak} [1/min]	$J_G \cdot 10^{-4}$ [kgm ²]	K [N]	KF [N]	KA [N]	KAF [N]	K [N]	KF [N]	KA [N]	KAF [N]
K67  3	5.20	350	525	595	192	11	9860	10000	2450	2450	12300	12300	13000	13000
	7.28	420	630	714	206	6.3	10700	10900	2480	2480	11700	11700	13000	13000
	8.37	440	660	748	179	4.9	11100	11400	2590	2590	11500	11500	13000	13000
	9.66	480	685	816	155	3.8	11500	11700	2550	2550	11400	11400	13000	13000
	10.63	500	690	850	141	3.2	11800	12000	2590	2590	11300	11300	13000	13000
	12.48	530	695	901	120	2.5	12300	12300	2710	2710	11300	11300	13000	13000
	13.22	670	920	1139	113	5.6	11500	11500	2420	2420	9310	9310	13000	13000
	15.19	700	920	1190	105	4.4	11300	11300	2550	2550	9310	9310	13000	13000
	17.54	740	920	1258	97	3.4	11000	11000	2630	2630	9310	9310	13000	13000
	19.30	760	920	1292	93	2.9	10800	10800	2740	2740	9310	9310	13000	13000
	22.66	780	920	1326	93	2.2	10700	10700	3070	3070	9310	9310	13000	13000
	24.00	800	920	1360	88	2.0	10500	10500	3090	3090	9310	9310	13000	13000
	27.28	820	920	1394	84	1.6	10300	10300	3340	3340	9310	9310	13000	13000
	30.22	820	920	1394	86	1.3	10300	10300	3680	3680	9310	9310	13000	13000
	35.62	820	920	1394	90	1.0	10300	10300	4260	4260	9310	9310	13000	13000
	38.39	800	920	1360	52	2.4	10500	10500	4690	4690	9310	9310	13000	13000
	44.32	820	920	1394	50	1.9	10300	10300	5070	5070	9310	9310	13000	13000
	48.77	820	920	1394	49	1.7	10300	10300	5440	5440	9310	9310	13000	13000
	57.28	820	920	1394	52	1.4	10300	10300	6100	6100	9310	9310	13000	13000
	60.66	820	920	1394	53	1.2	10300	10300	6340	6340	9310	9310	13000	13000
	68.95	820	920	1394	52	1.0	10300	10300	6900	6900	9310	9310	13000	13000
	76.37	820	920	1394	54	0.87	10300	10300	7360	7360	9310	9310	13000	13000
	90.04	820	920	1394	54	0.68	10300	10300	8140	8140	9310	9310	13000	13000
	102.62	820	920	1394	56	0.47	10300	10300	8800	8800	9310	9310	13000	13000
	108.03	820	920	1394	56	0.42	10300	10300	9060	9060	9310	9310	13000	13000
	123.54	820	920	1394	56	0.34	10300	10300	9770	9770	9310	9310	13000	13000
	144.79	820	920	1394	48	0.28	10300	10300	10700	10700	9310	9310	13000	13000

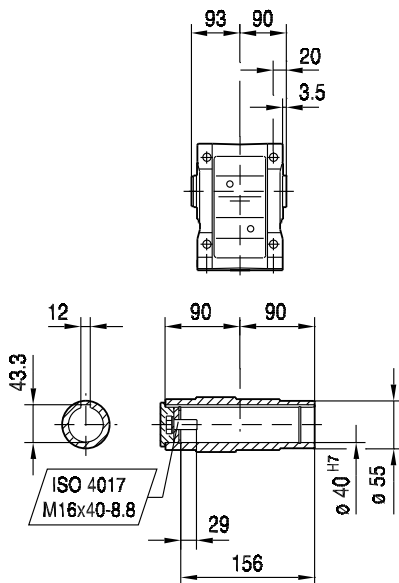
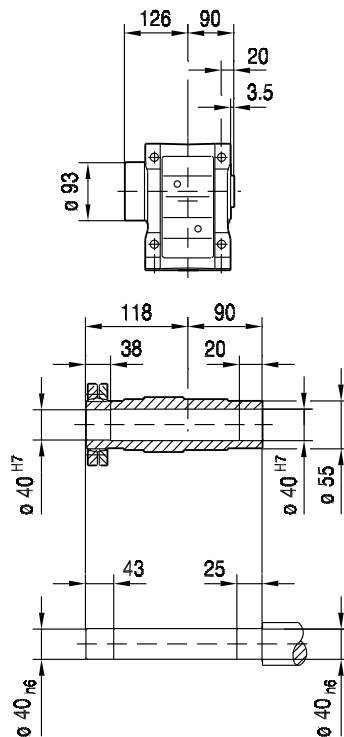
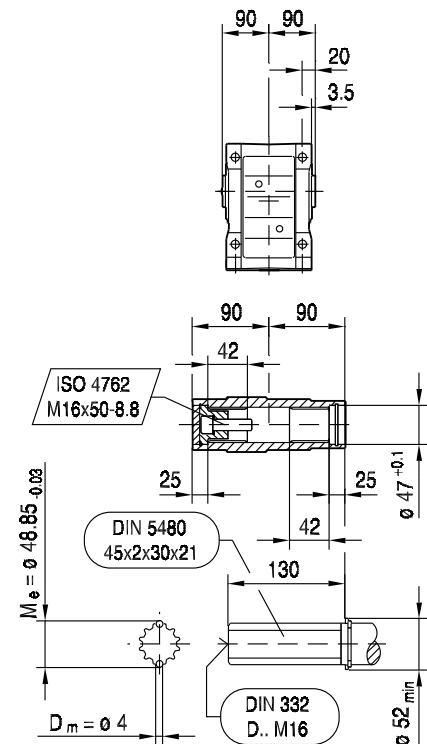
AQ.		n_{epk} [1/min]	η [%]	K [Nm/']	c_{TG}			φ /R [°]
	i				KF [Nm/']	KA [Nm/']	KAF [Nm/']	
K67  3	5.20	3862	96	58	54	96	96	10
	7.28	4500	96	58	54	96	96	9
	8.37	4500	96	58	54	96	96	9
	9.66	4500	96	58	54	96	96	9
	10.63	4500	96	58	54	96	96	9
	12.48	4500	96	58	54	96	96	9
	13.22	4500	96	73	66	146	146	8
	15.19	4500	96	73	66	146	146	8
	17.54	4500	96	73	66	146	146	7
	19.30	4500	96	73	66	146	146	7
	22.66	4500	96	73	66	146	146	7
	24.00	4500	96	73	66	146	146	7
	27.28	4500	96	73	66	146	146	7
	30.22	4500	96	73	66	146	146	7
	35.62	4500	96	73	66	146	146	7
	38.39	4500	94	77	70	165	165	6
	44.32	4500	94	77	70	165	165	6
	48.77	4500	94	77	70	165	165	6
	57.28	4500	94	77	70	165	165	6
	60.66	4500	94	77	70	165	165	6
	68.95	4500	95	77	70	165	165	6
	76.37	4500	95	77	70	165	165	6
	90.04	4500	94	77	70	165	165	6
	102.62	4500	94	77	70	165	165	6
	108.03	4500	94	77	70	165	165	6
	123.54	4500	94	77	70	165	165	6
	144.79	4500	94	77	70	165	165	6



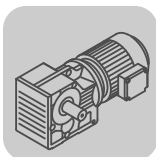
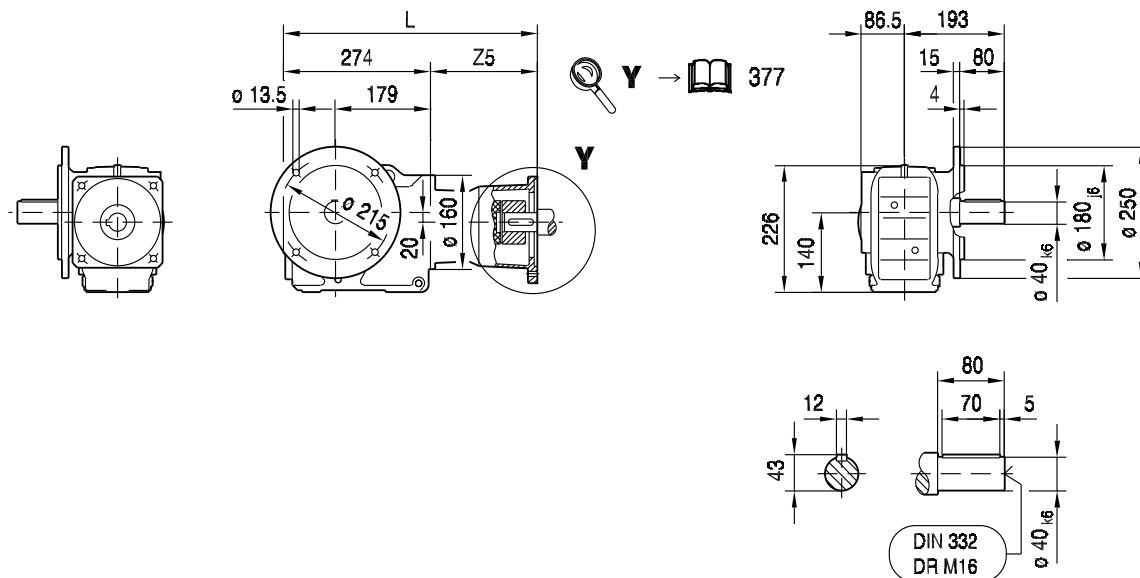
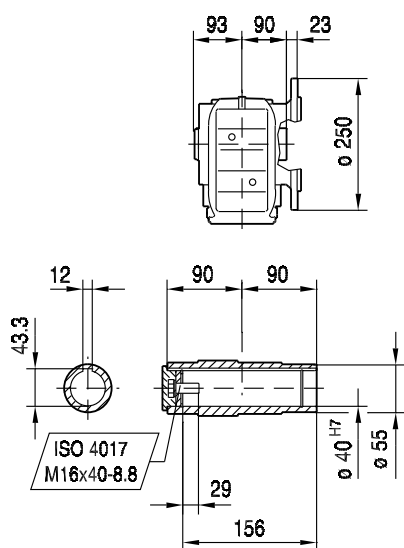
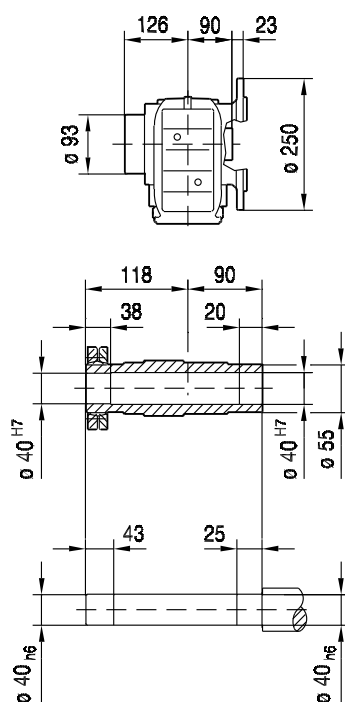
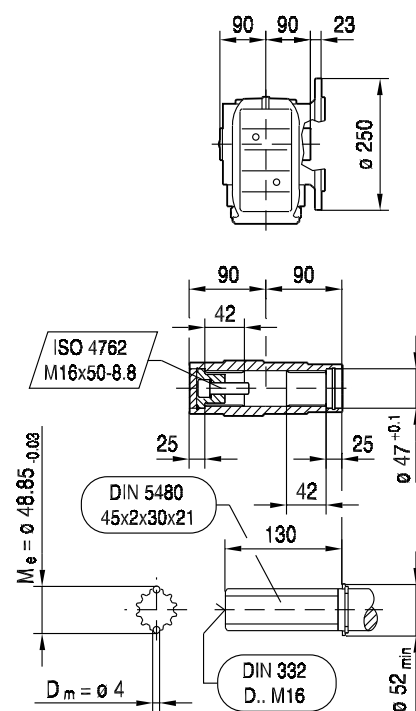
10.2.8 K 67 AQ.. [mm]

33 114 00 08^L**K67..**

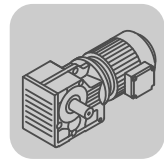
10

KA67B..**KH67B..****KV67B..**

(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	367	392	406	415	444	457	457	507	531
Z5	98	123	137	146	175	188	188	237.5	261.5

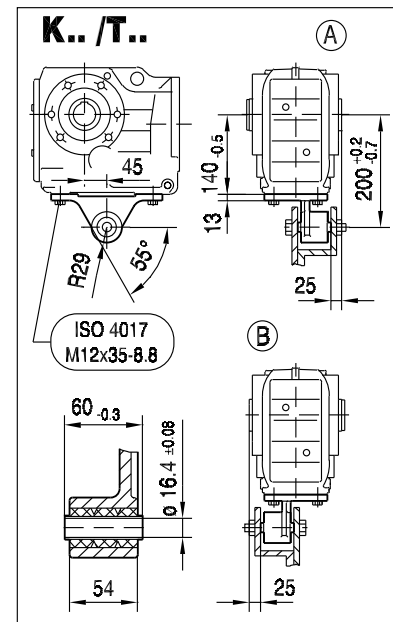
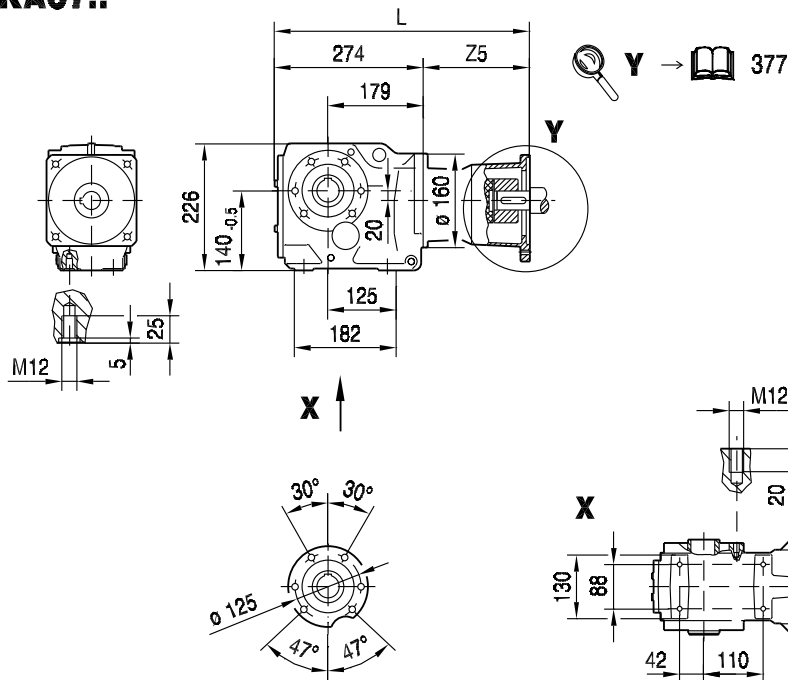
**KF67..****KAF67..****KHF67..****KVF67..**

(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	372	397	411	420	449	462	462	512	536
Z5	98	123	137	146	175	188	188	237.5	261.5



KA67..

33 116 00 08^L

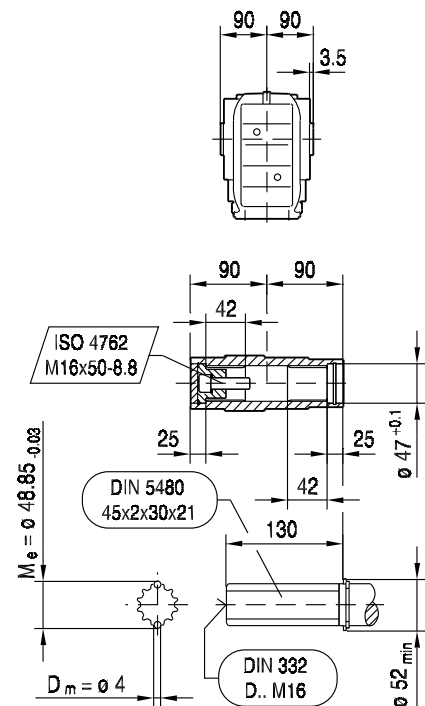
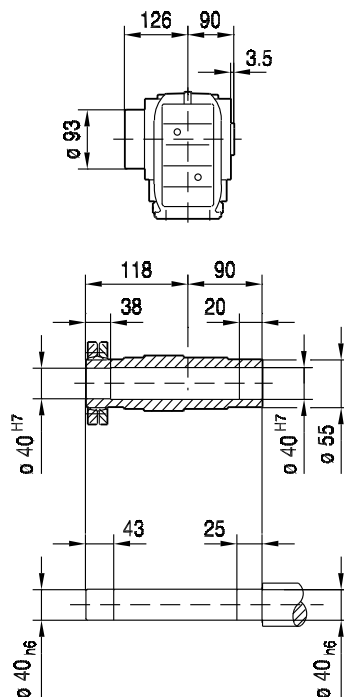
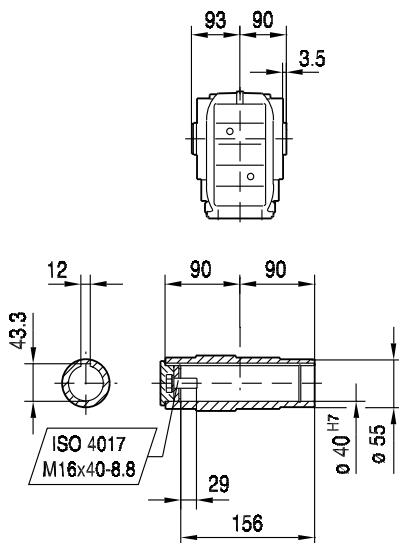


KA67..

KH67..

KV67..

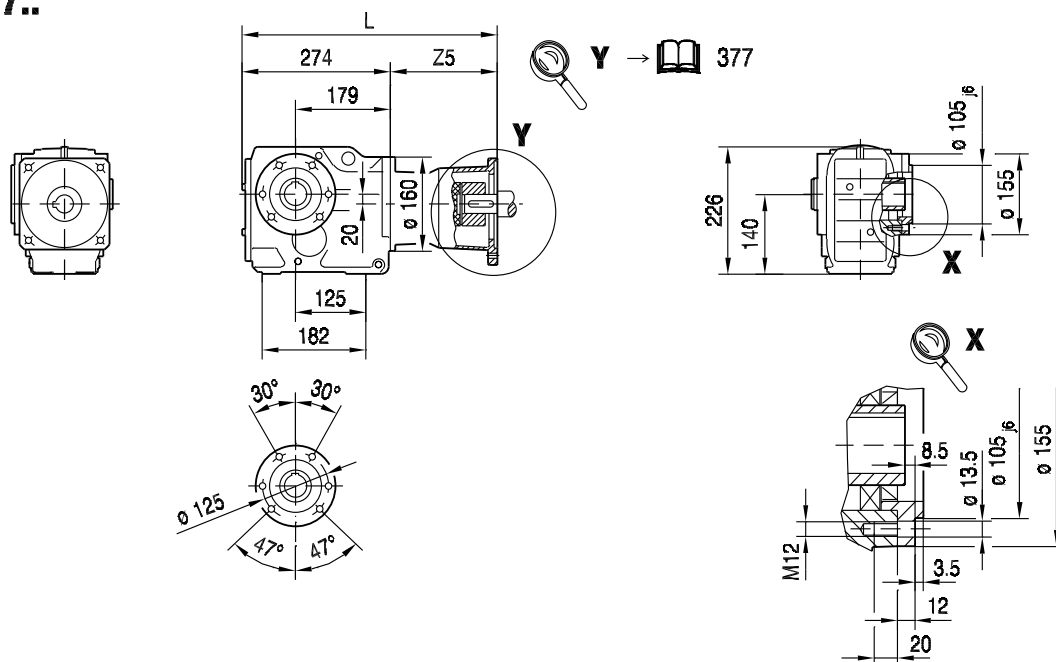
10



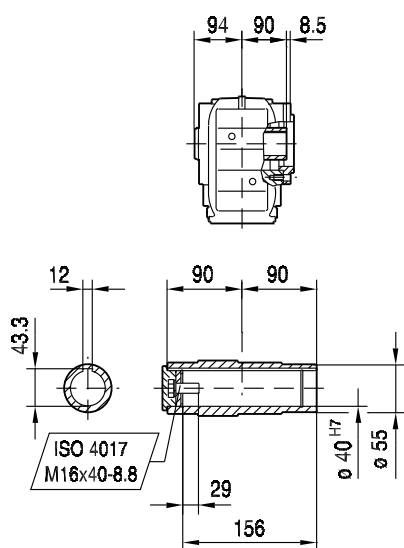
(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	372	397	411	420	449	462	462	512	536
Z5	98	123	137	146	175	188	188	237.5	261.5

33 118 00 08

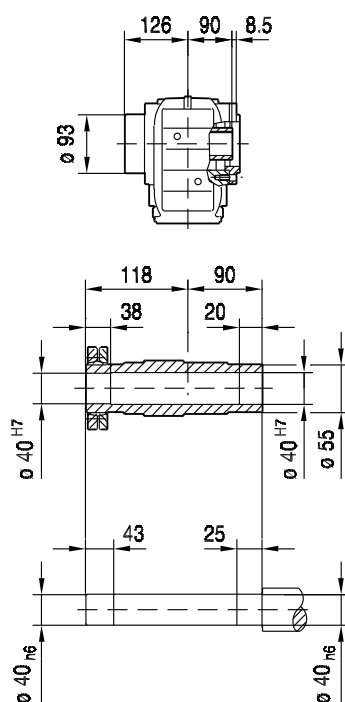
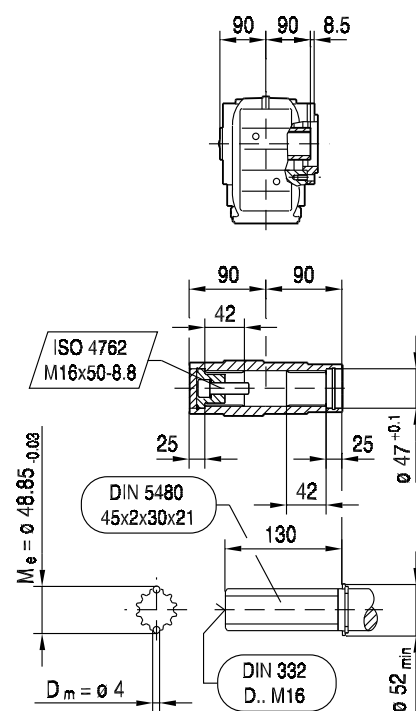
KAZ67..



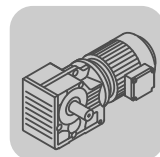
KAZ67..



KHZ67..

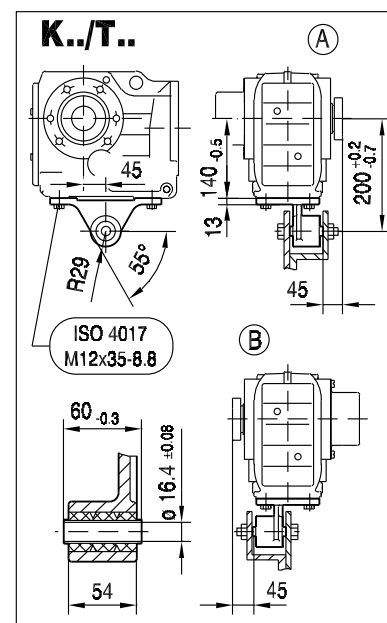
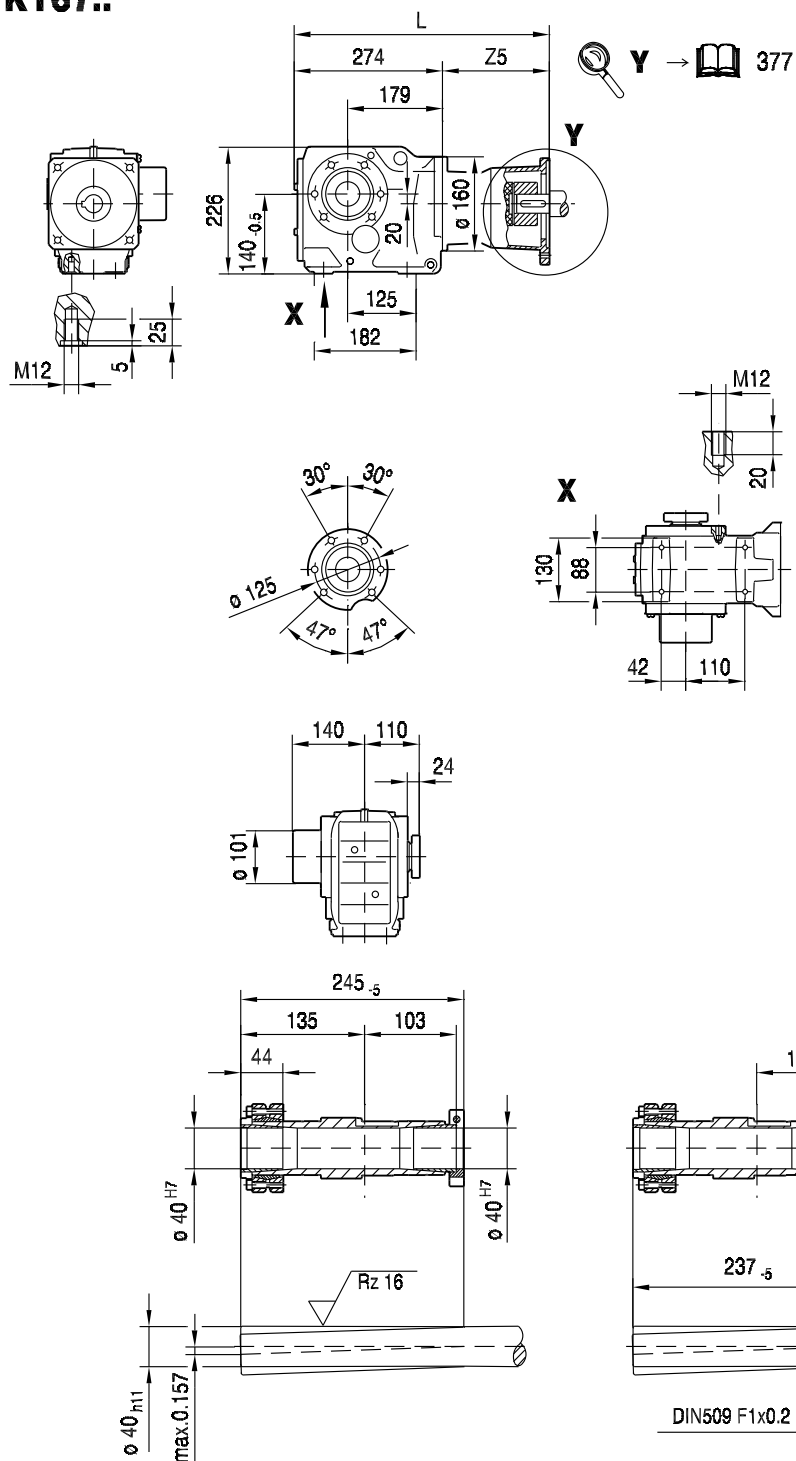
**KVZ67..**

(→  144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	372	397	411	420	449	462	462	512	536
Z5	98	123	137	146	175	188	188	237.5	261.5

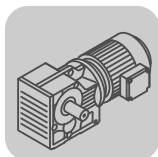


KT67..

33 117 00 08^L



(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	372	397	411	420	449	462	462	512	536
Z5	98	123	137	146	175	188	188	237.5	261.5

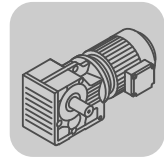


10.2.9 K 77 AQ.. [Nm]

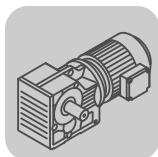
[Nm]		AQ. M _{amax} M _{apk} M _{aNotaus}																							
	i	80/1-3			100/1-4			115/1-2			115/3			140/1			140/2-4			160/1			190/1-3		
K77 	7.24	123	123	235	123	123	245	123	123	245	330	330	330	430	430	720	720	720	720	720	720	720	720	720	720
	8.48	144	144	275	144	144	285	144	144	285	390	390	390	505	505	840	840	840	840	840	840	840	840	840	840
	9.56	162	162	315	162	162	325	162	162	325	435	435	435	570	570	950	940	950	950	940	950	950	940	1160	1520
	10.84	184	184	355	184	184	365	184	184	365	495	495	495	650	650	1080	990	1080	1080	990	1080	1080	990	1170	1680
	12.36	210	210	405	210	210	420	210	210	420	565	565	565	740	740	1230	1000	1170	1230	1000	1170	1230	1000	1170	1700
	13.52	225	225	445	225	225	455	225	225	455	620	620	620	810	810	1350	1340	1350	1350	1340	1350	1350	1340	1550	2160
	15.84	265	265	520	265	265	535	265	265	535	725	725	725	950	950	1580	1400	1550	1580	1400	1550	1580	1400	1550	2380
	17.87	300	300	585	300	300	605	300	300	605	820	820	820	1070	1070	1780	1450	1550	1780	1450	1550	1780	1450	1550	2460
	20.25	340	340	665	340	340	685	340	340	685	930	930	930	1210	1210	2020	1500	1550	2020	1500	1550	2020	1500	1550	2550
	23.08	390	390	760	390	390	780	390	390	780	1060	1060	1060	1380	1380	2300	1550	1550	2300	1550	1550	2300	1550	1550	2630
	25.62	435	435	840	435	435	870	435	435	870	1170	1170	1170	1530	1530	2560	1550	1550	2560	1550	1550	2560	1550	1550	2630
	29.27	495	495	960	495	495	990	495	495	990	1340	1340	1340	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630
	30.89	525	525	1010	525	525	1050	525	525	1050	1420	1420	1420	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630
	35.20	595	595	1160	595	595	1190	595	595	1190	1550	1550	1610	1550	1550	2630	1550	1550	2630	1550	1550	2630			
	38.39	650	650	1260	650	650	1300	650	650	1300	1500	1550	1760	1500	1550	2550	1500	1550	2550	1500	1550	2550			
	40.04	680	680	1320	680	680	1360	680	680	1360	1550	1550	1840	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630
	45.16	765	765	1490	765	765	1530	765	765	1530	1550	1550	2070	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630
	51.18	870	870	1680	870	870	1740	870	870	1740	1550	1550	2350	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630
	58.34	990	990	1920	990	990	1980	990	990	1980	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630
	64.75	1100	1100	2130	1100	1100	2200	1100	1100	2200	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630
	73.99	1250	1250	2440	1250	1250	2510	1250	1250	2510	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630
	78.07	1320	1320	2570	1320	1320	2630	1320	1320	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630
	88.97	1510	1510	2630	1510	1510	2630	1510	1510	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630			
	97.05	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630			
	113.56	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630			
	128.52	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630												
	135.28	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630												
	154.02	1550	1550	2630	1550	1550	2630	1550	1550	2630	1550	1550	2630												
	179.37	1450	1550	2460	1450	1550	2460	1450	1550	2460	1450	1550	2460												
	192.18	1450	1550	2460	1450	1550	2460	1450	1550	2460	1450	1550	2460												

m [kg]		AQ.							
	s	80/1-3	100/1-4	115/1-2	115/3	140/1	140/2-4	160/1	190/1-3
K77		58	59	60	60	64	64	64	73
KF: + 8.3 kg / KA: + 7.5 kg / KAF: + 0.4 kg									

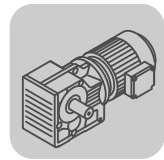
		AQ.							
		80/1-3	100/1-4	115/1-2	115/3	140/1	140/2-4	160/1	190/1-3
J_A 10⁻⁴	[kgm²]	0.77	1.4	1.4	3.1	5.1	10.0	10.0	25.0
c_{TA}	[Nm/°]	0.25	0.25	0.25	0.625	0.625	1.0	1.0	2.08



K77 $n_e = 1400$							F_{Ramax}				F_{Rapk}			
	i	M_{amax} [Nm]	M_{apk} [Nm]	$M_{aNotaus}$ [Nm]	n_{ak} [1/min]	$J_G \cdot 10^{-4}$ [kgm ²]	K [N]	KF [N]	KA [N]	KAF [N]	K [N]	KF [N]	KA [N]	KAF [N]
K77  3	7.24	820	1150	1394	207	17	13100	13800	2490	2490	17700	17700	20000	20000
	8.48	890	1160	1513	177	13	13500	14300	2430	2430	17600	17700	20000	20000
	9.56	940	1160	1598	157	10	13900	14700	2430	2430	17600	17700	20000	20000
	10.84	990	1170	1683	138	8.2	14400	15200	2460	2460	17600	17700	20000	20000
	12.36	1000	1170	1700	121	6.5	15100	16000	2820	2820	17600	17700	20000	20000
	13.52	1340	1550	2278	155	15	14800	15800	1850	1850	15400	16600	20000	20000
	15.84	1400	1550	2380	145	11	15500	16600	2030	2030	15400	16600	20000	20000
	17.87	1450	1550	2465	140	9.0	16100	16900	2160	2160	15400	16600	20000	20000
	20.25	1500	1550	2550	128	7.2	15700	16800	2330	2330	15400	16600	20000	20000
	23.08	1550	1550	2635	126	5.8	15400	16600	2550	2550	15400	16600	20000	20000
	25.62	1550	1550	2635	133	5.0	15400	16600	2990	2990	15400	16600	20000	20000
	29.27	1550	1550	2635	137	4.0	15400	16600	3590	3590	15400	16600	20000	20000
	30.89	1550	1550	2635	142	3.6	15400	16600	3840	3840	15400	16600	20000	20000
	35.20	1550	1550	2635	142	2.9	15400	16600	4460	4460	15400	16600	20000	20000
	38.39	1500	1550	2550	159	2.5	15700	16800	5210	5210	15400	16600	20000	20000
	40.04	1550	1550	2635	37	6.0	15400	16600	5100	5100	15400	16600	20000	20000
	45.16	1550	1550	2635	33	4.9	15400	16600	5720	5720	15400	16600	20000	20000
	51.18	1550	1550	2635	29	4.1	15400	16600	6390	6390	15400	16600	20000	20000
	58.34	1550	1550	2635	31	3.3	15400	16600	7130	7130	15400	16600	20000	20000
	64.75	1550	1550	2635	31	3.0	15400	16600	7740	7740	15400	16600	20000	20000
	73.99	1550	1550	2635	31	2.4	15400	16600	8550	8550	15400	16600	20000	20000
	78.07	1550	1550	2635	32	2.3	15400	16600	8890	8890	15400	16600	20000	20000
	88.97	1550	1550	2635	33	1.9	15400	16600	9730	9730	15400	16600	20000	20000
	97.05	1550	1550	2635	32	1.6	15400	16600	10300	10300	15400	16600	20000	20000
	113.56	1550	1550	2635	33	1.3	15400	16600	11400	11400	15400	16600	20000	20000
	128.52	1550	1550	2635	33	0.90	15400	16600	12300	12300	15400	16600	20000	20000
	135.28	1550	1550	2635	33	0.81	15400	16600	12700	12700	15400	16600	20000	20000
	154.02	1550	1550	2635	33	0.66	15400	16600	13700	13700	15400	16600	20000	20000
	179.37	1450	1550	2465	39	0.53	16100	16900	15600	15600	15400	16600	20000	20000
	192.18	1450	1550	2465	36	0.46	16100	16900	16200	16200	15400	16600	20000	20000



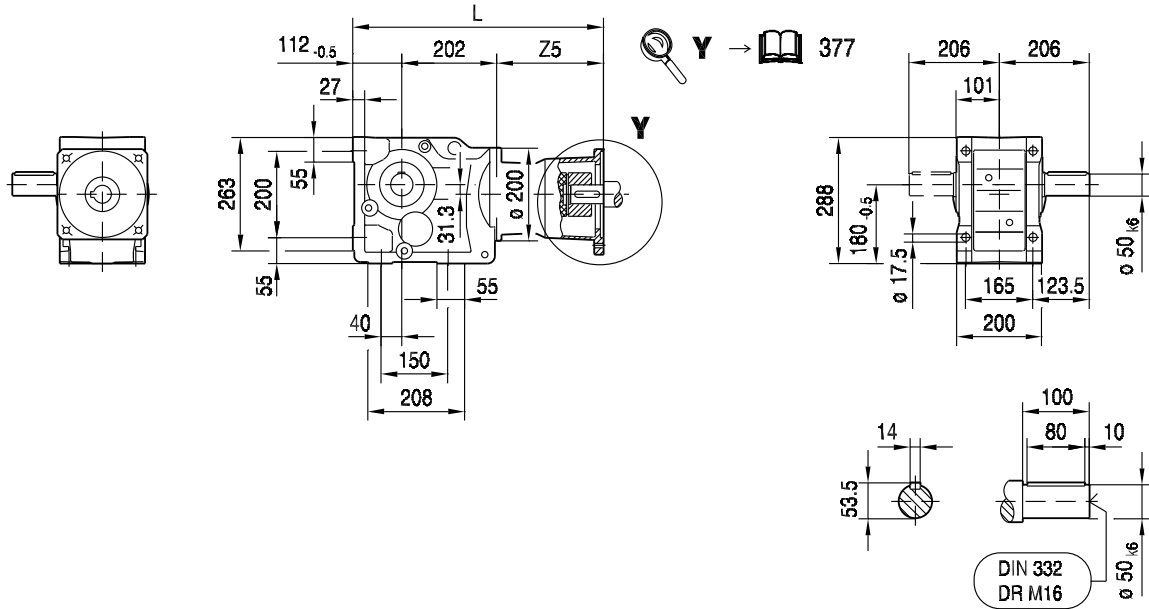
AQ.		n _{epk} [1/min]	η [%]	K [Nm/']	C _{TG}		KAF [Nm/']	φ /R [°]
	i				KF [Nm/']	KA [Nm/']		
K77  3	7.24	4500	96	110	91	188	188	8
	8.48	4500	96	110	91	188	188	8
	9.56	4500	96	110	91	188	188	8
	10.84	4500	96	110	91	188	188	8
	12.36	4500	96	110	91	188	188	8
	13.52	4500	96	141	112	300	300	7
	15.84	4500	96	141	112	300	300	6
	17.87	4500	96	141	112	300	300	6
	20.25	4500	96	141	112	300	300	6
	23.08	4500	96	141	112	300	300	6
	25.62	4500	96	141	112	300	300	6
	29.27	4500	96	141	112	300	300	6
	30.89	4500	96	141	112	300	300	6
	35.20	4500	96	141	112	300	300	6
	38.39	4500	96	141	112	300	300	6
	40.04	4500	95	150	118	348	348	6
	45.16	4500	95	150	118	348	348	6
	51.18	4500	95	150	118	348	348	6
	58.34	4500	95	150	118	348	348	6
	64.75	4500	95	150	118	348	348	5
	73.99	4500	95	150	118	348	348	5
	78.07	4500	95	150	118	348	348	5
	88.97	4500	95	150	118	348	348	5
	97.05	4500	95	150	118	348	348	5
	113.56	4500	94	150	118	348	348	5
	128.52	4500	94	150	118	348	348	5
	135.28	4500	94	150	118	348	348	5
	154.02	4500	94	150	118	348	348	5
	179.37	4500	94	150	118	348	348	5
	192.18	4500	93	150	118	348	348	5



10.2.10 K 77 AQ.. [mm]

33 119 00 08^L

K77..

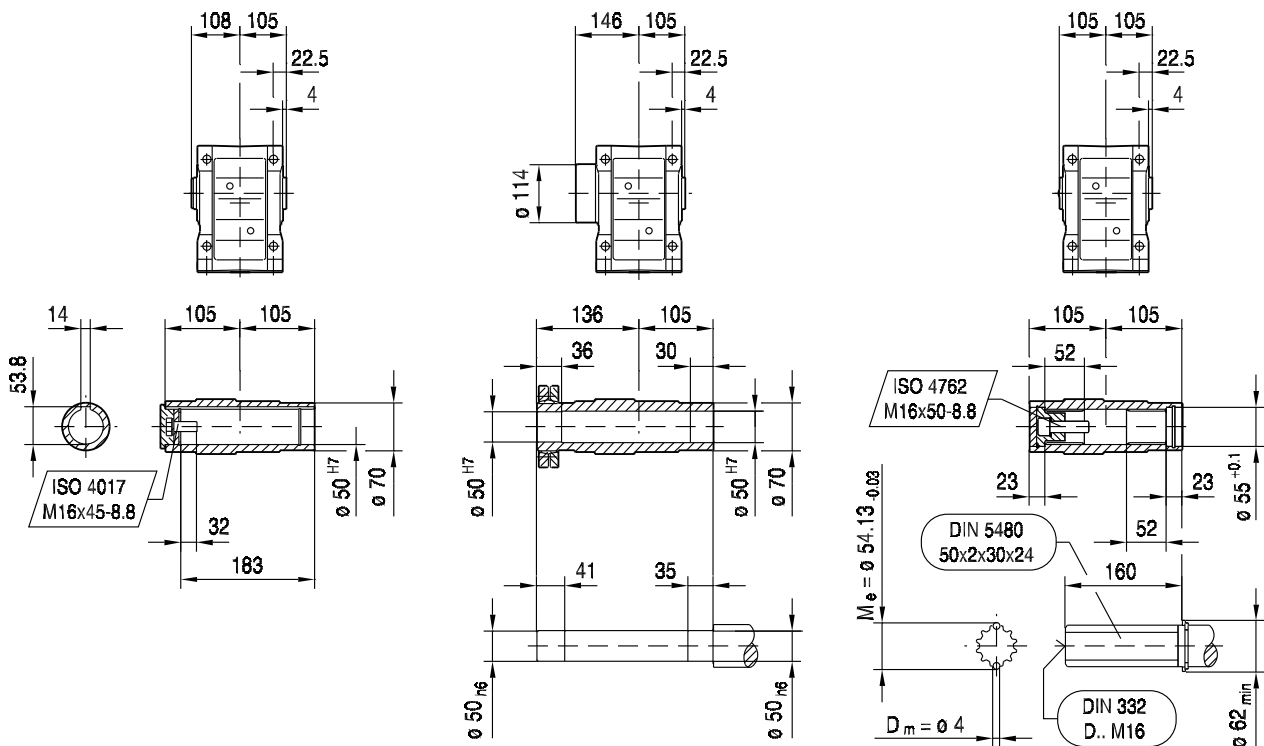


10

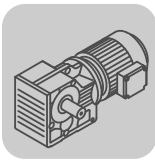
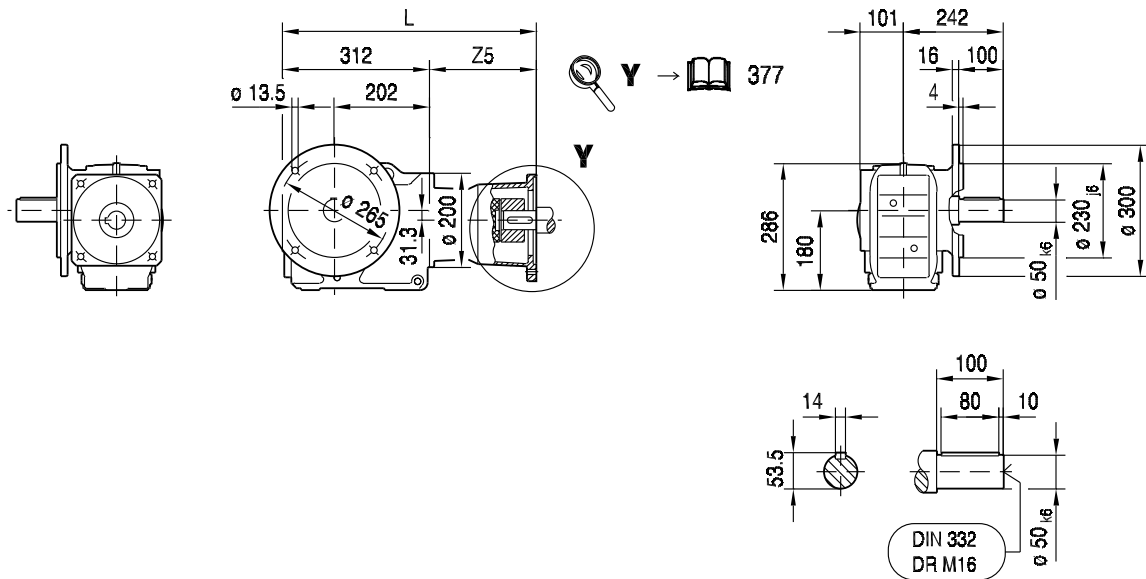
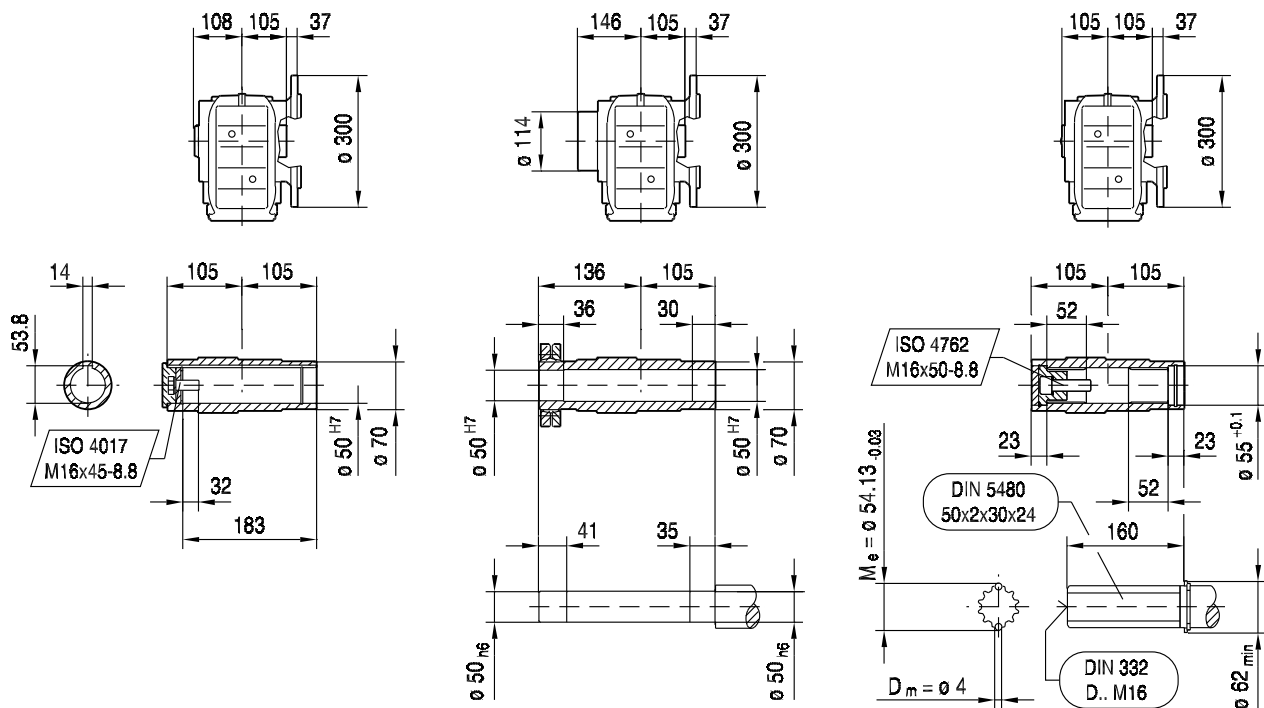
KA77B..

KH77B..

KV77B..



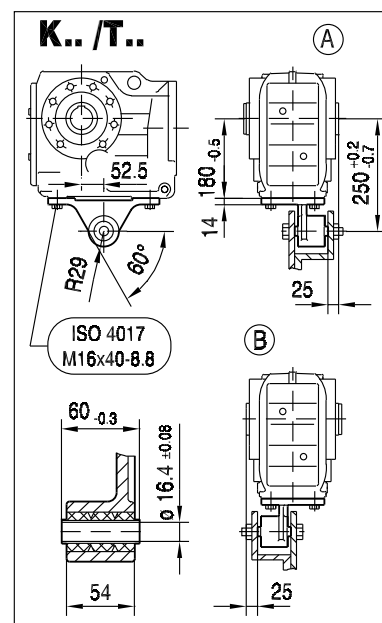
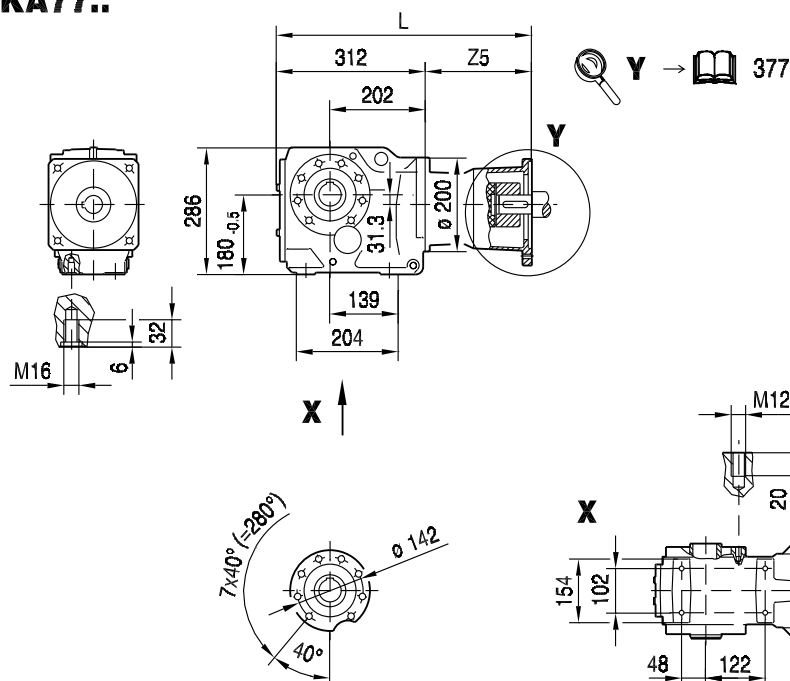
(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	406	430	444	453	481	494	494	540	564
Z5	92	116	130	139	167	180	180	225.5	249.5

**KF77..****KAF77..****KHF77..****KVF77..**

(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	404	428	442	451	479	492	492	538	562
Z5	92	116	130	139	167	180	180	225.5	249.5

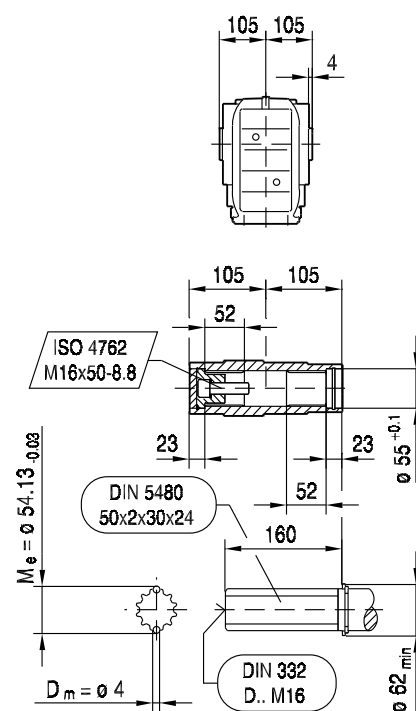
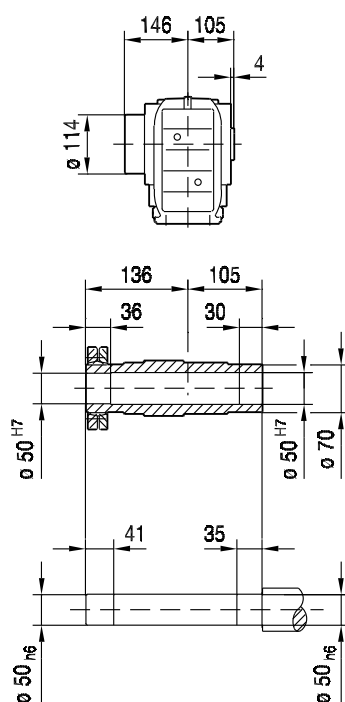
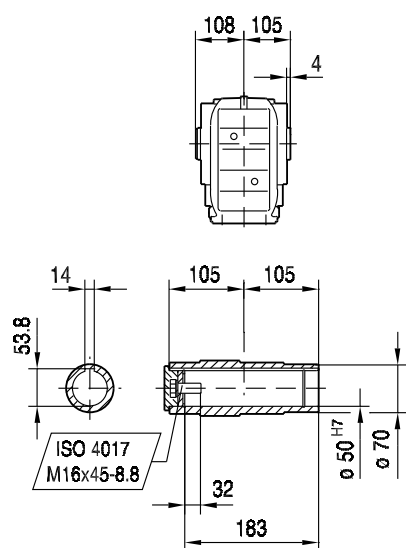
KA77..

33 121 00 08

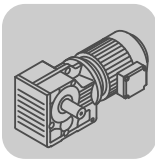


KA77..

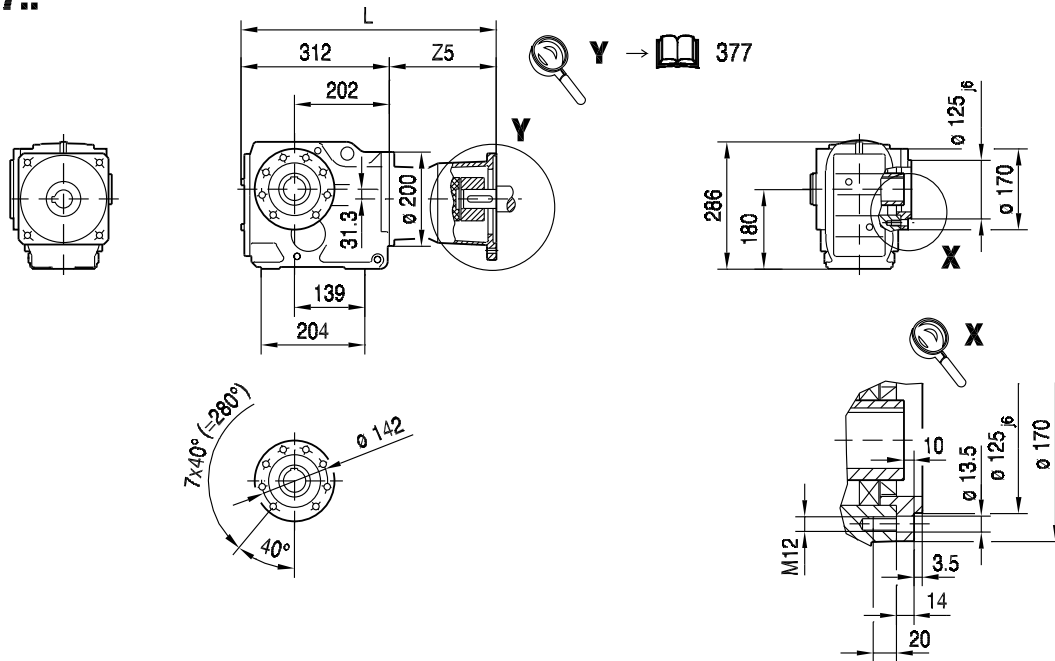
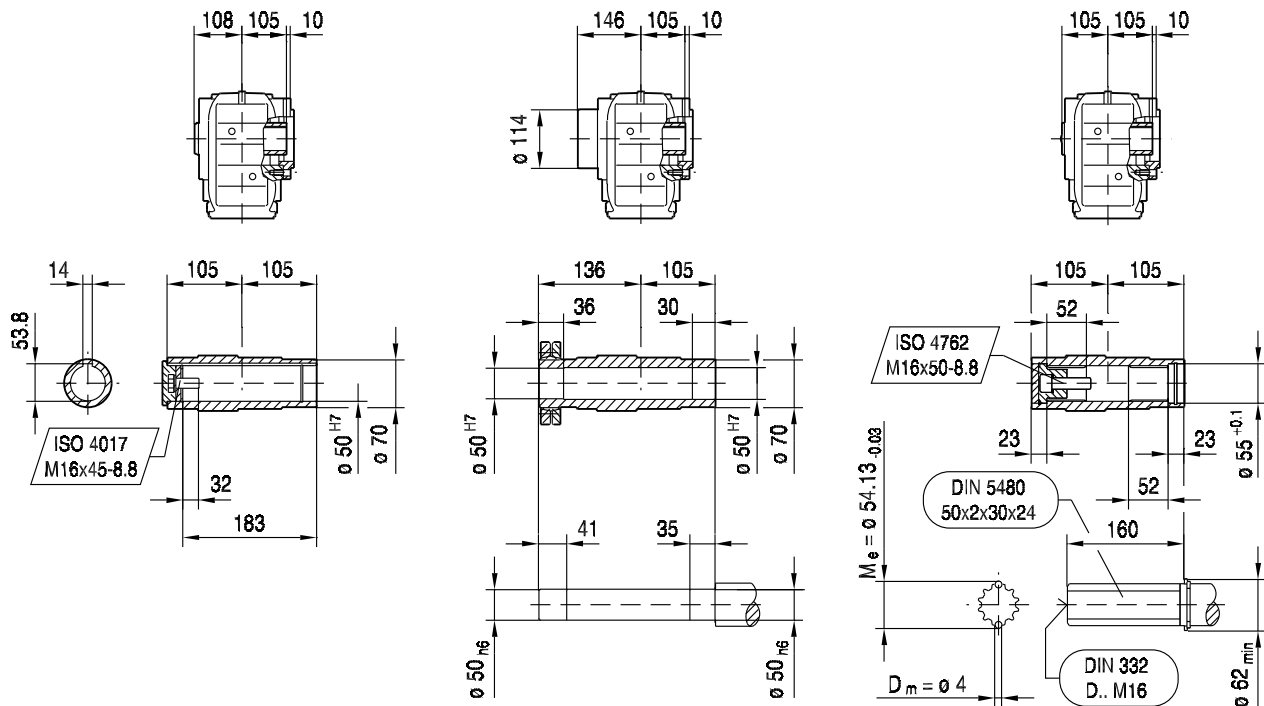
KH77..

KV77..

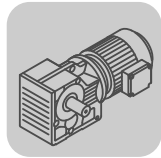
(→  144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	404	428	442	451	479	492	492	538	562
Z5	92	116	130	139	167	180	180	225.5	249.5



33 123 00 08

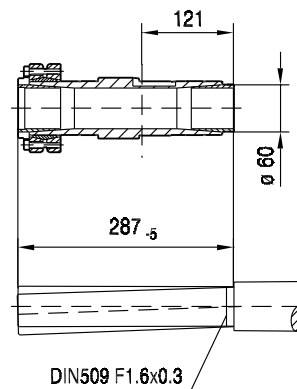
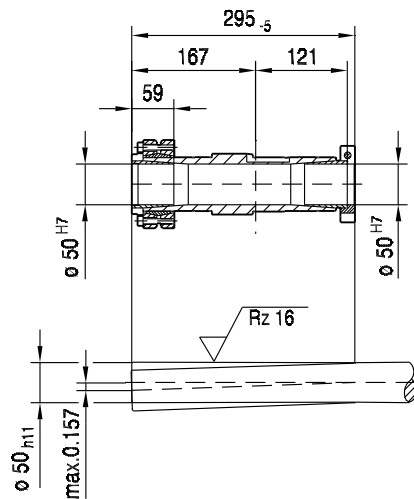
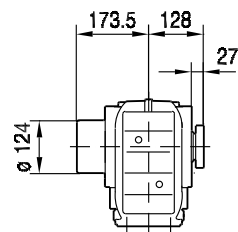
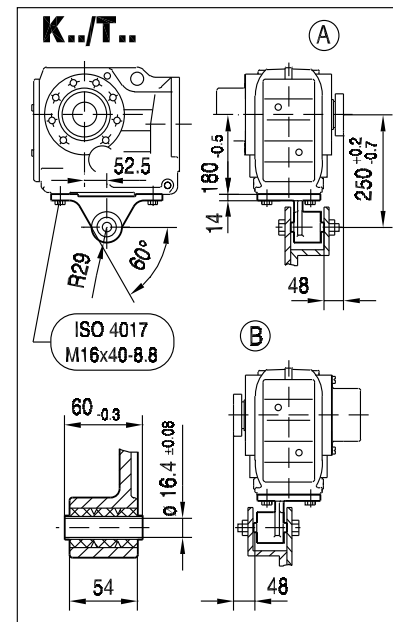
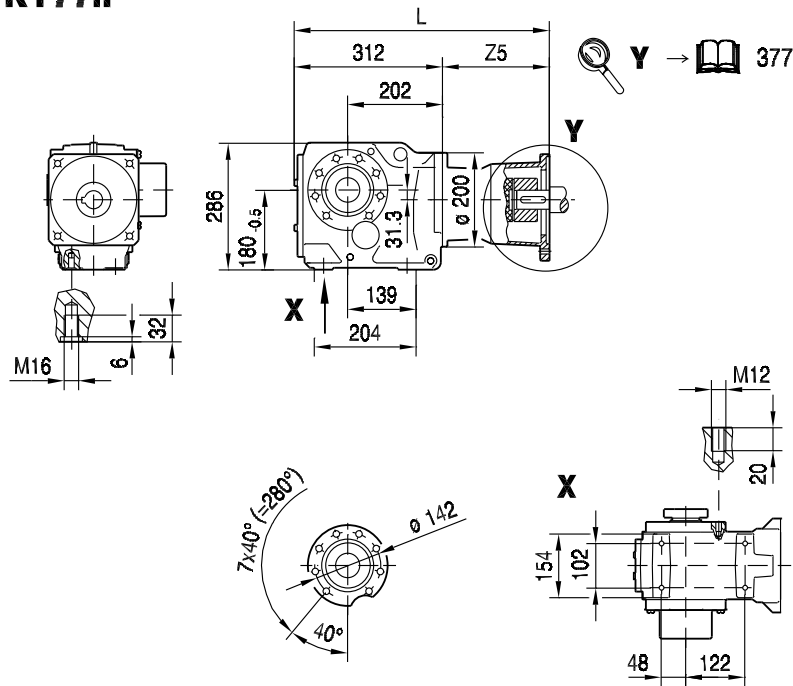
KAZ77..**KAZ77..****KHZ77..****KVZ77..**

(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	404	428	442	451	479	492	492	538	562
Z5	92	116	130	139	167	180	180	225.5	249.5

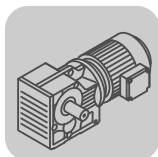


KT77..

33 122 00 08^L



(→ 144)	AQ80/1-3	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	404	428	442	451	479	492	492	538	562
Z5	92	116	130	139	167	180	180	225.5	249.5

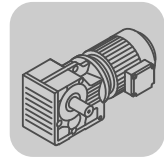


10.2.11 K 87 AQ.. [Nm]

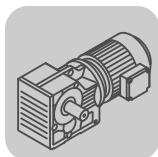
[Nm]		AQ. M _{amax} M _{apk} M _{aNotaus}																				
	i	100/1-4			115/1-2			115/3			140/1			140/2-4			160/1			190/1-3		
K87  3	7.21										430	430	720	720	720	720	720	720	1150	1150	1150	
	8.29	140	140	280	140	140	280	380	380	380	495	495	820	820	820	820	820	820	1320	1320	1320	
	10.00	170	170	340	170	170	340	460	460	460	600	600	1000	1000	1000	1000	1000	1000	1500	1600	1600	
	11.17	189	189	375	189	189	375	510	510	510	670	670	1110	1110	1110	1110	1110	1110	1500	1780	1780	
	12.56										750	750	1250	1250	1250	1250	1250	1250	2000	2000	2000	
	14.45	245	245	490	245	245	490	660	660	660	860	860	1440	1440	1440	1440	1440	1440	2100	2310	2310	
	16.00	270	270	540	270	270	540	735	735	735	960	960	1600	1600	1600	1600	1600	1600	1800	2270	2560	
	17.42	295	295	590	295	295	590	800	800	800	1040	1040	1740	1740	1740	1740	1740	1740	2200	2780	2780	
	19.45	330	330	660	330	330	660	890	890	890	1160	1160	1940	1940	1940	1940	1940	1940	2300	3110	3110	
	22.41	380	380	760	380	380	760	1030	1030	1030	1340	1340	2240	2240	2240	2240	2240	2240	2300	3240	3580	
	24.92	420	420	840	420	420	840	1140	1140	1140	1490	1490	2490	2490	2490	2490	2490	2490	2500	3240	3980	
	27.88	470	470	940	470	470	940	1280	1280	1280	1670	1670	2780	2600	2780	2780	2600	2780	2600	3240	4420	
	31.39	530	530	1060	530	530	1060	1440	1440	1440	1880	1880	3130	2700	3130	3130	2700	3130	2700	3240	4590	
	36.52	620	620	1240	620	620	1240	1670	1670	1670	2190	2190	3650	2500	3240	3650	2500	3240	2500	3240	4250	
	44.02	745	745	1490	745	745	1490	2020	2020	2020	2600	2640	4400	2600	3240	4400	2600	3240	2600	3240	4420	
	49.16	830	830	1670	830	830	1670	2260	2260	2260	2700	2940	4590	2700	3240	4590	2700	3240	2700	3240	4590	
	56.64	960	960	1920	960	960	1920	2600	2600	2600	2700	3240	4590	2700	3240	4590	2700	3240	2700	3240	4590	
	63.00	1070	1070	2140	1070	1070	2140	2700	2890	2890	2700	3240	4590	2700	3240	4590	2700	3240	2700	3240	4590	
	70.46	1190	1190	2390	1190	1190	2390	2700	3240	3240	2700	3240	4590	2700	3240	4590	2700	3240	2700	3240	4590	
	79.34	1340	1340	2690	1340	1340	2690	2700	3240	3640	2700	3240	4590	2700	3240	4590	2700	3240	2700	3240	4590	
	86.34	1460	1460	2930	1460	1460	2930	2700	3240	3970	2700	3240	4590	2700	3240	4590	2700	3240	2700	3240	4590	
	102.71	1740	1740	3490	1740	1740	3490	2700	3240	4590	2700	3240	4590	2700	3240	4590	2700	3240	2700	3240	4590	
	115.82	1960	1960	3930	1960	1960	3930	2700	3240	4590	2700	3240	4590	2700	3240	4590	2700	3240	4590			
	126.91	2150	2150	4310	2150	2150	4310	2700	3240	4590	2700	3240	4590	2700	3240	4590	2700	3240	4590			
	147.32	2500	2500	4590	2500	2500	4590	2700	3240	4590	2700	3240	4590	2700	3240	4590	2700	3240	4590			
	164.34	2700	2790	4590	2700	2790	4590	2700	3240	4590												
	174.19	2700	2960	4590	2700	2960	4590	2700	3240	4590												
	197.37	2700	3240	4590	2700	3240	4590	2700	3240	4590												

m [kg]		AQ.						
s		100/1-4	115/1-2	115/3	140/1	140/2-4	160/1	190/1-3
K87		95	95	95	100	100	100	110
KF: + 9.2 kg / KA: + -12.1 kg / KAF: + 1.1 kg								

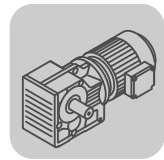
		AQ.							
		100/1-4		115/1-2		115/3		140/1	
J_A 10⁻⁴	[kgm²]	1.4		1.4		3.1		5.1	
c_{TA}	[Nm/°]	0.25		0.25		0.625		0.625	



K87 $n_e = 1400$							F_{Ramax}				F_{Rapk}			
	i	M_{amax} [Nm]	M_{apk} [Nm]	$M_{aNotaus}$ [Nm]	n_{ak} [1/min]	$J_G 10^{-4}$ [kgm ²]	K [N]	KF [N]	KA [N]	KAF [N]	K [N]	KF [N]	KA [N]	KAF [N]
K87  3	7.21	1300	1950	2210	250	46	13200	15100	4970	4970	28100	27000	30000	30000
	8.29	1400	2100	2380	205	35	13500	15600	4960	4960	27900	26900	30000	30000
	10.00	1500	2240	2550	180	26	14200	16400	5210	5210	27800	26700	30000	30000
	11.17	1500	2250	2550	188	22	14900	17100	5770	5770	27800	26700	30000	30000
	12.56	2000	3000	3400	223	42	14800	17000	5030	5030	26900	25900	30000	30000
	14.45	2100	3150	3570	201	32	15300	17700	5240	5240	26700	25700	30000	30000
	16.00	1800	2270	3060	119	12	16000	18500	5810	5810	27700	26700	30000	30000
	17.42	2200	3240	3740	189	24	16300	18800	5770	5770	26500	25600	30000	30000
	19.45	2300	3240	3910	170	20	16800	19300	5890	5890	26500	25600	30000	30000
	22.41	2300	3240	3910	178	16	17900	20600	6790	6790	26500	25600	30000	30000
	24.92	2500	3240	4250	140	14	18000	20700	6390	6390	26500	25600	30000	30000
	27.88	2600	3240	4420	122	12	18500	21400	6600	6600	26500	25600	30000	30000
	31.39	2700	3240	4590	108	9.6	19200	22100	6900	6900	26500	25600	30000	30000
	36.52	2500	3240	4250	41	20	21400	24500	9140	9140	26500	25600	30000	30000
	44.02	2600	3240	4420	39	16	22800	26000	10100	10100	26500	25600	30000	30000
	49.16	2700	3240	4590	35	14	23500	26300	10400	10400	26500	25600	30000	30000
	56.64	2700	3240	4590	35	11	25000	26300	11600	11600	26500	25600	30000	30000
	63.00	2700	3240	4590	35	9.8	26200	26300	12600	12600	26500	25600	30000	30000
	70.46	2700	3240	4590	35	8.4	27300	26300	13700	13700	26500	25600	30000	30000
	79.34	2700	3240	4590	37	7.1	27300	26300	14800	14800	26500	25600	30000	30000
	86.34	2700	3240	4590	37	6.3	27300	26300	15700	15700	26500	25600	30000	30000
	102.71	2700	3240	4590	38	4.9	27300	26300	17500	17500	26500	25600	30000	30000
	115.82	2700	3240	4590	38	4.0	27300	26300	18800	18800	26500	25600	30000	30000
	126.91	2700	3240	4590	39	3.5	27300	26300	19900	19900	26500	25600	30000	30000
	147.32	2700	3240	4590	39	2.8	27300	26300	21600	21600	26500	25600	30000	30000
	164.34	2700	3240	4590	39	1.8	27300	26300	23000	23000	26500	25600	30000	30000
	174.19	2700	3240	4590	39	1.6	27300	26300	23700	23700	26500	25600	30000	30000
	197.37	2700	3240	4590	35	1.3	27300	26300	25400	25400	26500	25600	30000	30000



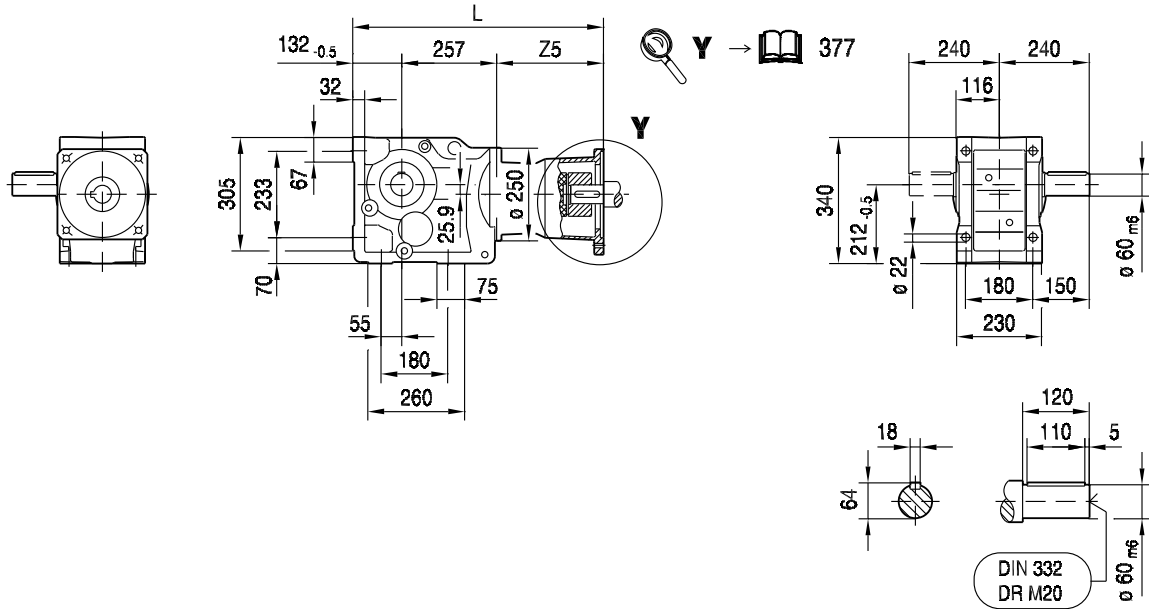
AQ.		n _{epk} [1/min]	η [%]	K [Nm/']	c _{TG}		KAF [Nm/']	φ /R [°]
	i				KF [Nm/']	KA [Nm/']		
K87  3	7.21	4378	96	169	156	411	411	7
	8.29	4500	96	169	156	411	411	7
	10.00	4500	96	169	156	411	411	7
	11.17	4500	96	169	156	411	411	7
	12.56	4378	96	198	181	640	640	6
	14.45	4500	96	198	181	640	640	6
	16.00	4500	96	169	156	411	411	6
	17.42	4500	96	198	181	640	640	6
	19.45	4500	96	198	181	640	640	6
	22.41	4500	96	198	181	640	640	6
	24.92	4500	96	198	181	640	640	6
	27.88	4500	96	198	181	640	640	6
	31.39	4500	96	198	181	640	640	6
	36.52	4500	95	207	188	744	744	6
	44.02	4500	95	207	188	744	744	6
	49.16	4500	95	207	188	744	744	5
	56.64	4500	95	207	188	744	744	5
	63.00	4500	95	207	188	744	744	5
	70.46	4500	95	207	188	744	744	5
	79.34	4500	95	207	188	744	744	5
	86.34	4500	95	207	188	744	744	5
	102.71	4500	95	207	188	744	744	5
	115.82	4500	95	207	188	744	744	5
	126.91	4500	95	207	188	744	744	5
	147.32	4500	94	207	188	744	744	5
	164.34	4500	94	207	188	744	744	5
	174.19	4500	94	207	188	744	744	5
	197.37	4500	94	207	188	744	744	5



10.2.12 K 87 AQ.. [mm]

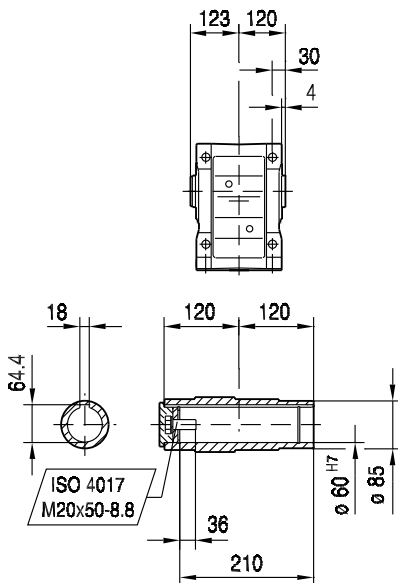
33 124 00 08^L

K87..

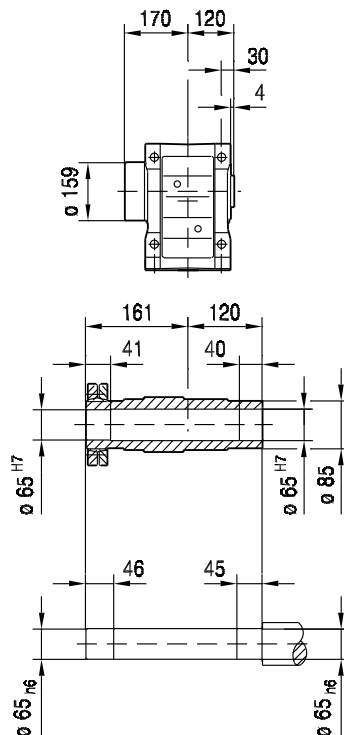


10

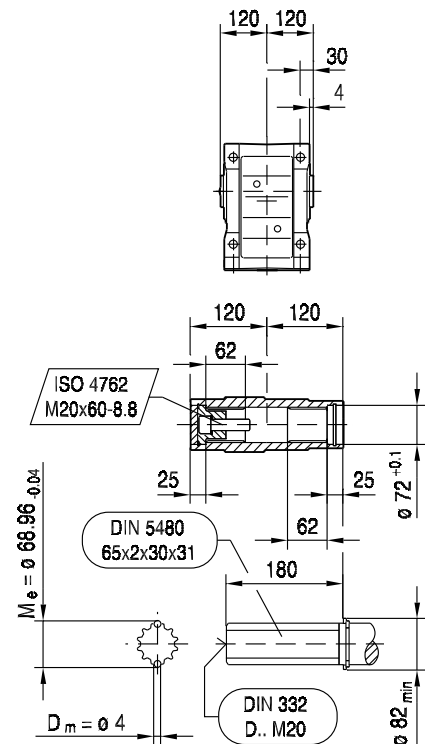
KA87B..



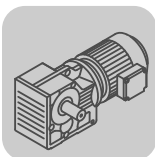
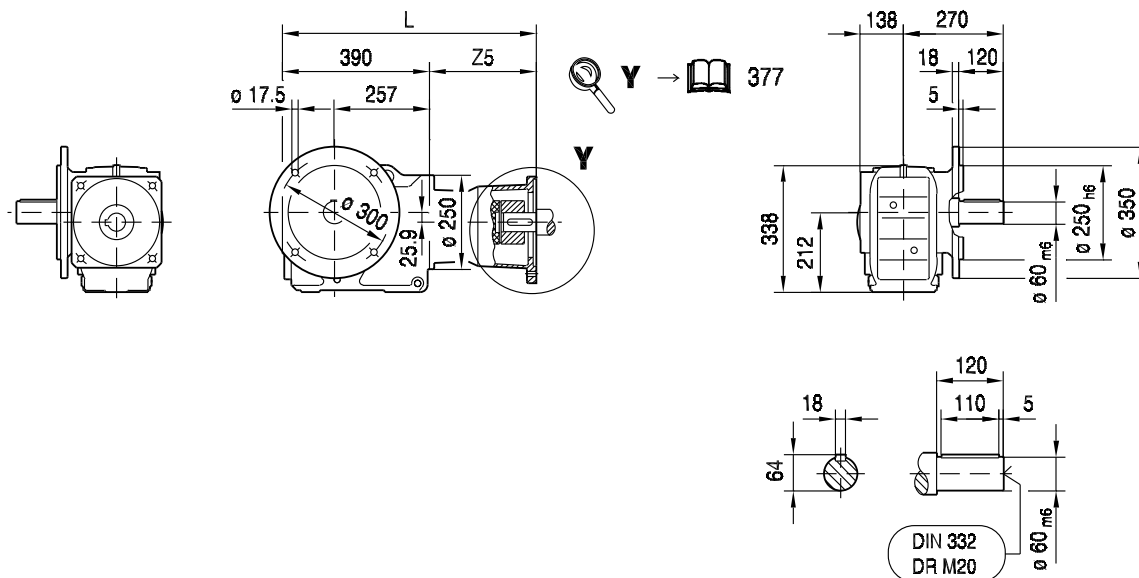
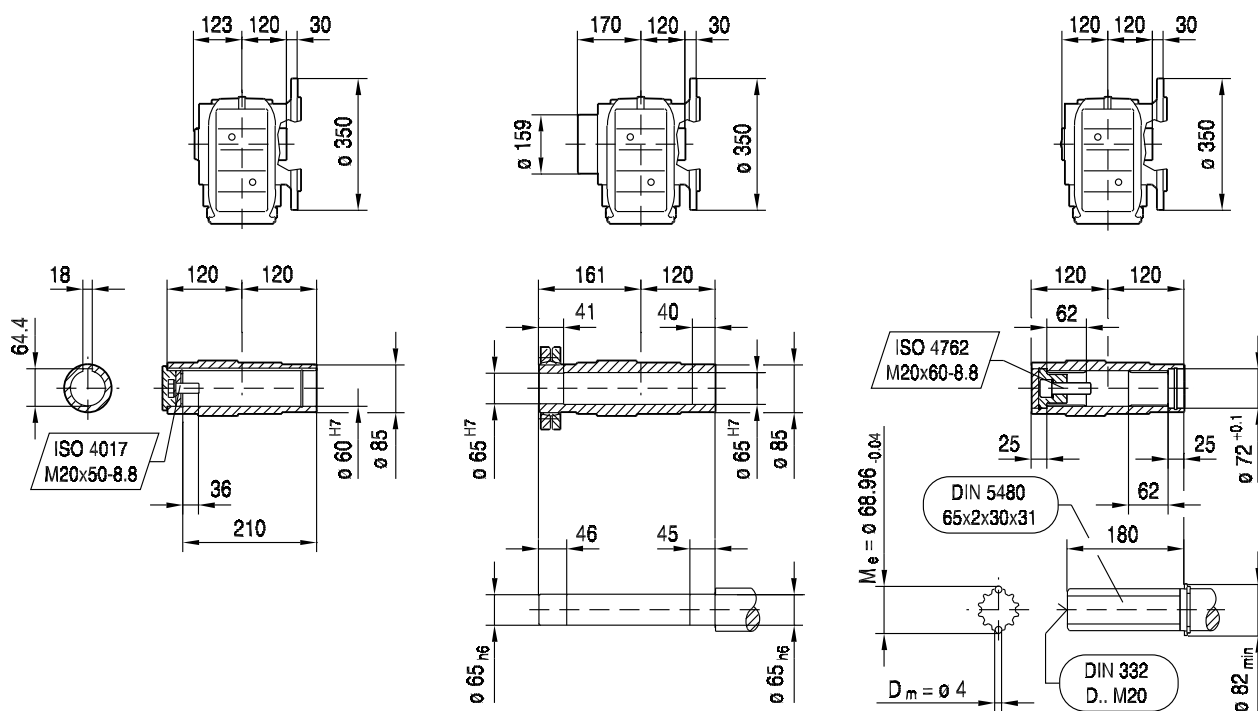
KH87B..



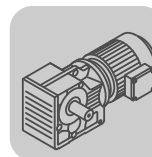
KV87B..



(→ 144)	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	500	514	523	551	564	564	610	634
Z5	111	125	134	162	175	175	220.5	244.5

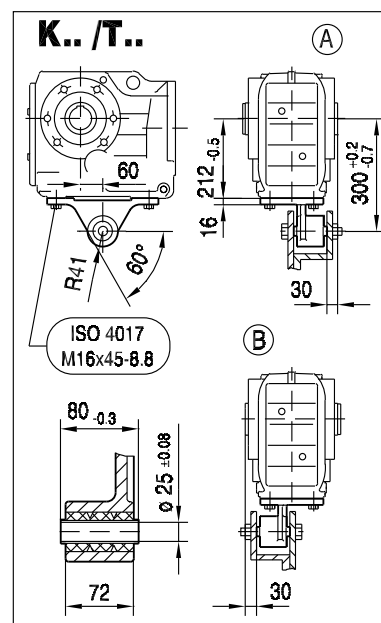
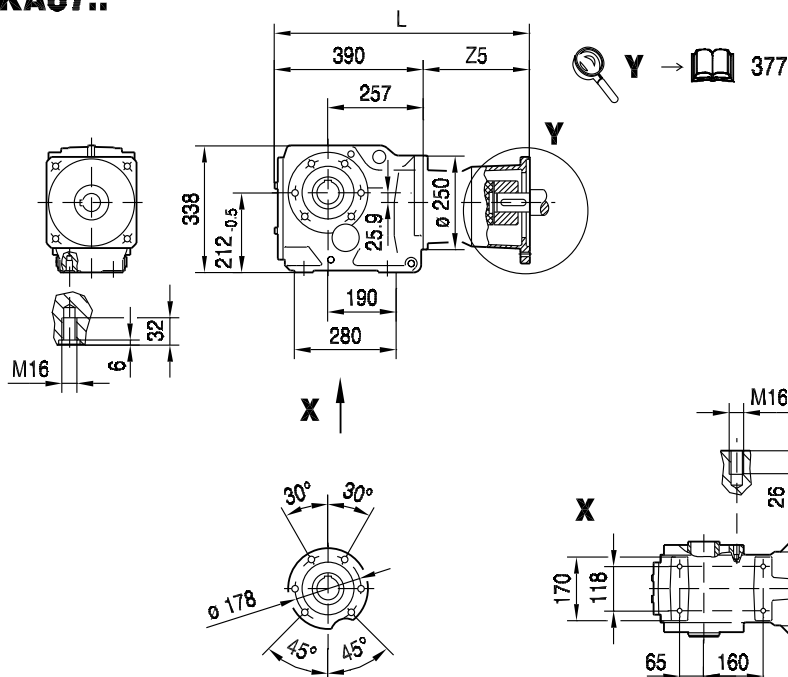
33 125 00 08^L**KF87..****KAF87..****KHF87..****KVF87..**

(→ 144)	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	501	515	524	552	565	565	611	635
Z5	111	125	134	162	175	175	220.5	244.5



KA87..

33 126 00 08^L

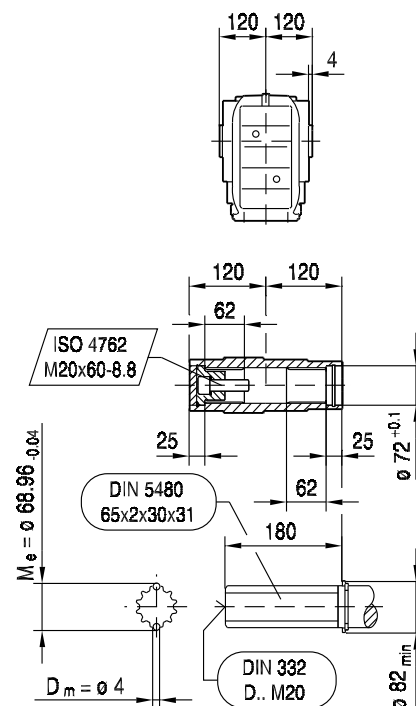
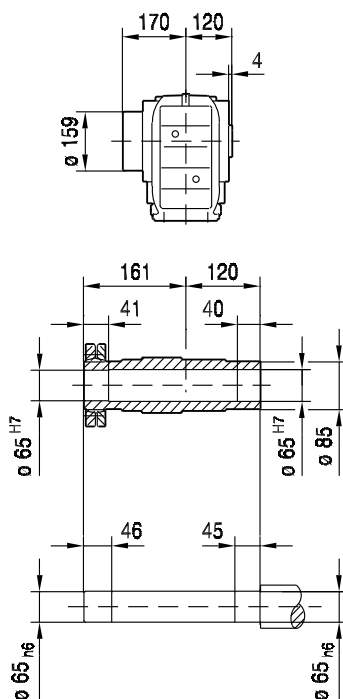
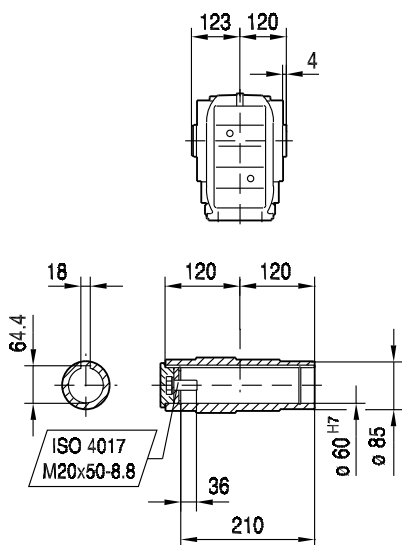


KA87..

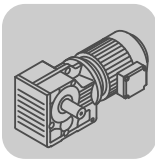
KH87..

KV87..

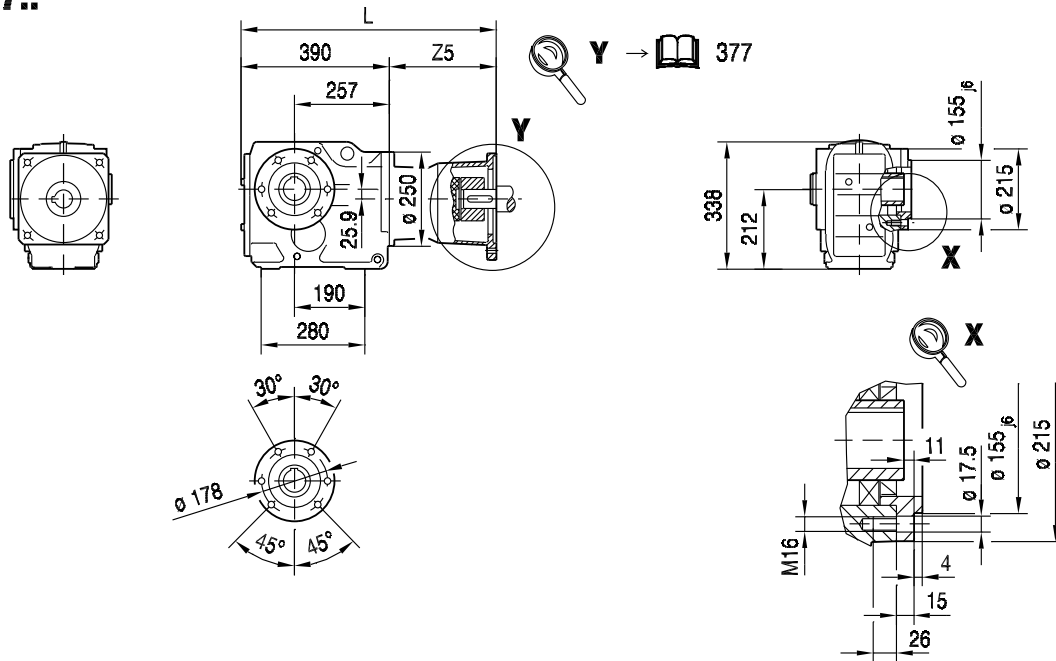
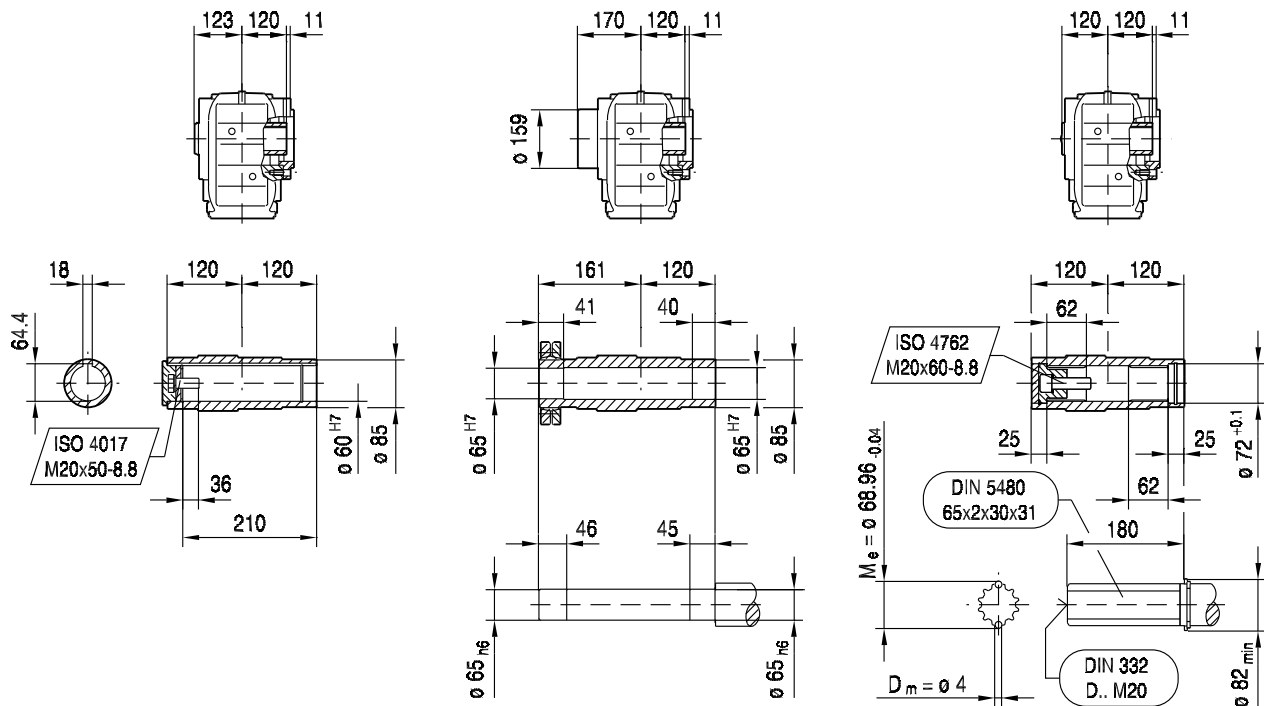
10



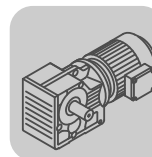
(→ 144)	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	501	515	524	552	565	565	611	635
Z5	111	125	134	162	175	175	220.5	244.5



33 128 00 08

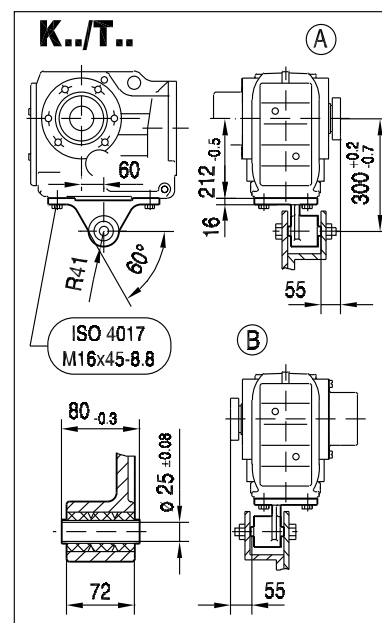
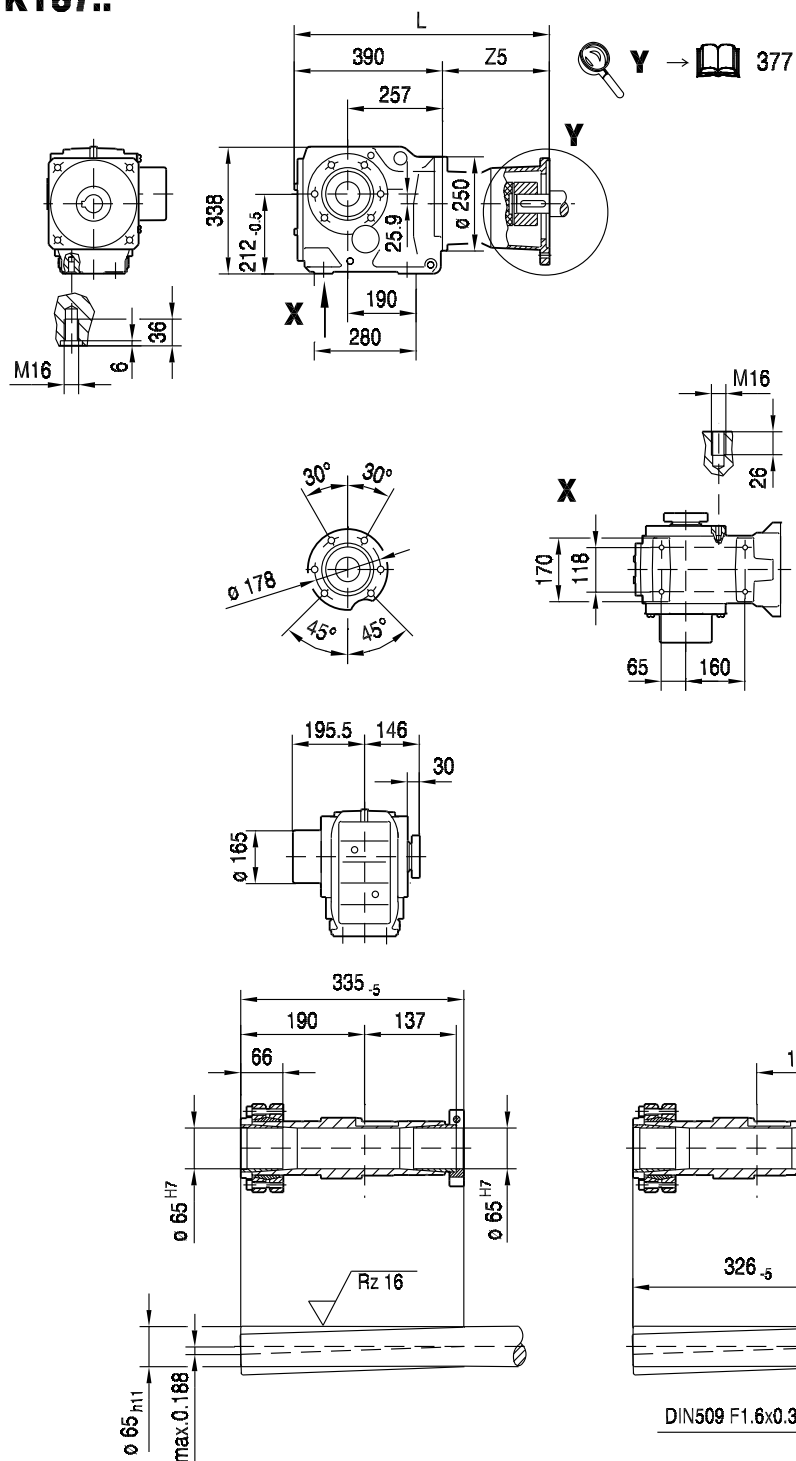
KAZ87..**KAZ87..****KHZ87..****KVZ87..**

(→ 144)	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	501	515	524	552	565	565	611	635
Z5	111	125	134	162	175	175	220.5	244.5

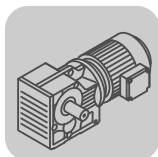


KT87..

33 127 00 08^L



(→ 144)	AQ100/1-2	AQ100/3-4	AQ115/1-3	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3
L	501	515	524	552	565	565	611	635
Z5	111	125	134	162	175	175	220.5	244.5

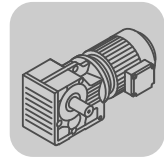


10.2.13 K 97 AQ.. [Nm]

[Nm]		AQ. M _{amax} M _{apk} M _{aNotaus}											
	i	140/1			140/2-4			160/1			190/1-3		
K97  3	7.54	450	450	750	750	750	750	750	750	750	1200	1200	1200
	8.71	520	520	870	870	870	870	870	870	870	1390	1390	1390
	10.41	620	620	1040	1040	1040	1040	1040	1040	1040	1660	1660	1660
	11.99	715	715	1190	1190	1190	1190	1190	1190	1190	1910	1910	1910
	13.85	830	830	1380	1380	1380	1380	1380	1380	1380	2210	2210	2210
	16.56	990	990	1650	1650	1650	1650	1650	1650	1650	2640	2640	2640
	18.96	1130	1130	1890	1890	1890	1890	1890	1890	1890	3030	3030	3030
	22.37	1340	1340	2230	2230	2230	2230	2230	2230	2230	3570	3570	3570
	24.75	1480	1480	2470	2470	2470	2470	2470	2470	2470	3960	3960	3960
	27.91	1670	1670	2790	2790	2790	2790	2790	2790	2790	4300	4460	4460
	30.82	1840	1840	3080	3080	3080	3080	3080	3080	3080	4300	4710	4930
	34.23	2050	2050	3420	3420	3420	3420	3420	3420	3420	4300	4710	5470
	38.30	2290	2290	3830	3830	3830	3830	3830	3830	3830	4300	4710	6120
	41.87	2510	2510	4180	4180	4180	4180	4180	4180	4180	4300	4710	6690
	47.93	2870	2870	4790	4300	4710	4790	4300	4710	4790	4300	4710	7310
	56.55	3390	3390	5650	4300	4710	5650	4300	4710	5650	4300	4710	7310
	62.55	3750	3750	6250	4300	4710	6250	4300	4710	6250	4300	4710	7310
	70.54	4230	4230	7050	4300	4710	7050	4300	4710	7050	4300	4710	7310
	77.89	4300	4670	7310	4300	4710	7310	4300	4710	7310	4300	4710	7310
	86.52	4300	4710	7310	4300	4710	7310	4300	4710	7310	4300	4710	7310
	96.80	4300	4710	7310	4300	4710	7310	4300	4710	7310	4300	4710	7310
	105.13	4300	4710	7310	4300	4710	7310	4300	4710	7310	4300	4710	7310
	123.93	4300	4710	7310	4300	4710	7310	4300	4710	7310	4300	4710	7310
	140.28	4300	4710	7310	4300	4710	7310	4300	4710	7310			
	153.21	4300	4710	7310	4300	4710	7310	4300	4710	7310			
	176.05	4300	4710	7310	4300	4710	7310	4300	4710	7310			

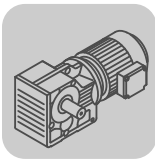
m [kg]		AQ.			
s		140/1	140/2-4	160/1	190/1-3
K97	 3	160	160	160	170
KF: + 20.1 kg / KA: + -18.2 kg / KAF: + 6.7 kg					

		AQ.											
		140/1			140/2-4			160/1			190/1-3		
J _A 10 ⁻⁴	[kgm ²]	5.1			10.0			10.0			25.0		
c _{TA}	[Nm/°]	0.625			1.0			1.0			2.08		

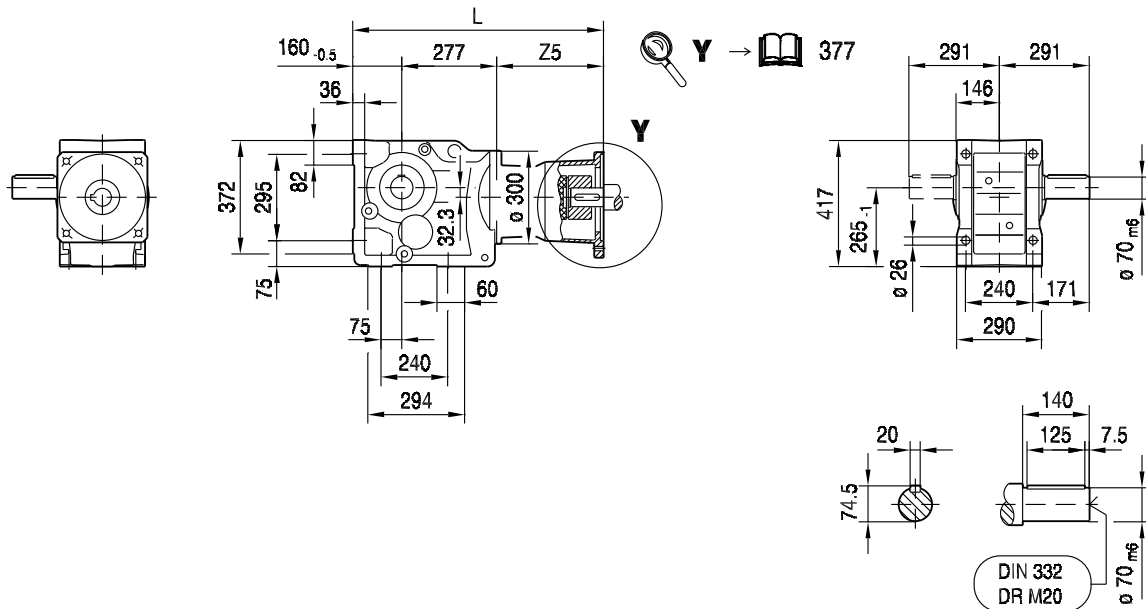
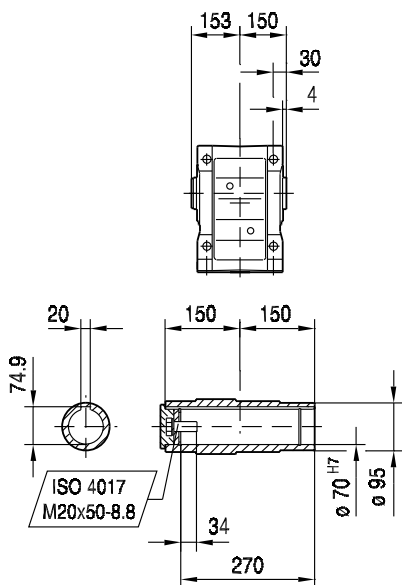
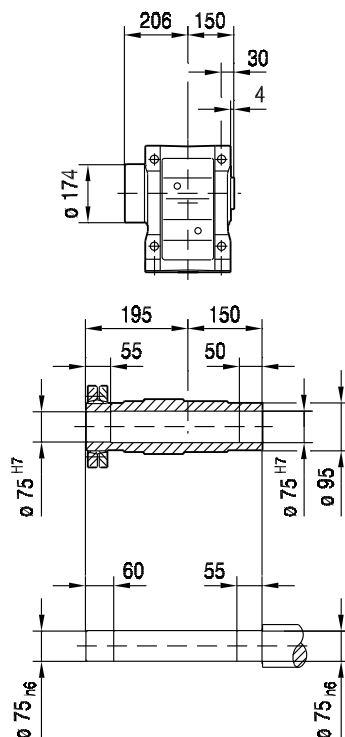
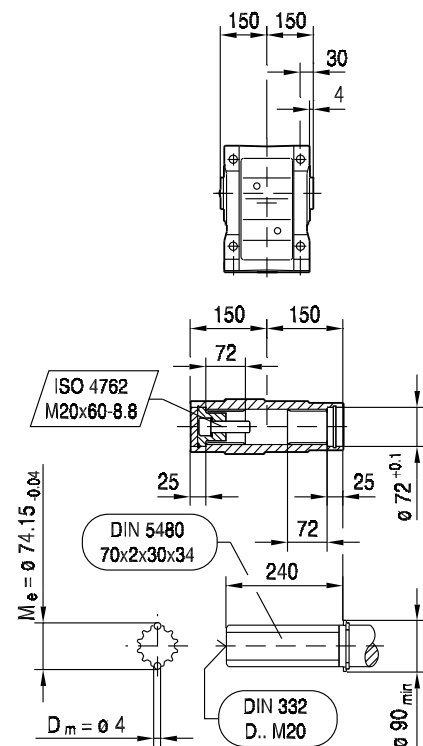


K97 $n_e = 1400$							F_{Ramax}				F_{Rapk}			
	i	M_{amax} [Nm]	M_{apk} [Nm]	$M_{aNotaus}$ [Nm]	n_{ak} [1/min]	$J_G \cdot 10^{-4}$ [kgm ²]	K [N]	KF [N]	KA [N]	KAF [N]	K [N]	KF [N]	KA [N]	KAF [N]
K97  3	7.54	2400	3560	4080	279	120	15700	18100	10200	10200	40000	39300	40000	40000
	8.71	2660	3590	4522	218	94	15800	18200	9930	9930	40000	39300	40000	40000
	10.41	2870	3610	4879	183	71	16400	19000	10300	10300	40000	39300	40000	40000
	11.99	3890	4710	6613	167	115	16200	18800	9100	9100	40000	38300	40000	40000
	13.85	4300	4710	7310	130	91	16100	18900	8520	8520	40000	38300	40000	40000
	16.56	4300	4710	7310	139	69	17800	20700	10300	10300	40000	38300	40000	40000
	18.96	4300	4710	7310	148	55	19100	22100	11700	11700	40000	38300	40000	40000
	22.37	4300	4710	7310	156	43	20900	24000	13500	13500	40000	38300	40000	40000
	24.75	4300	4710	7310	166	37	22000	25200	14700	14700	40000	38300	40000	40000
	27.91	4300	4710	7310	168	30	23300	26600	16100	16100	40000	38300	40000	40000
	30.82	4300	4710	7310	172	26	24500	27800	17300	17300	40000	38300	40000	40000
	34.23	4300	4710	7310	178	22	25700	29200	18600	18600	40000	38300	40000	40000
	38.30	4300	4710	7310	183	18	27100	30700	20100	20100	40000	38300	40000	40000
	41.87	4300	4710	7310	36	42	28300	31900	21300	21300	40000	38300	40000	40000
	47.93	4300	4710	7310	31	35	30000	33800	23300	23300	40000	38300	40000	40000
	56.55	4300	4710	7310	30	28	32300	36300	25700	25700	40000	38300	40000	40000
	62.55	4300	4710	7310	30	25	33800	37800	27300	27300	40000	38300	40000	40000
	70.54	4300	4710	7310	31	21	35600	38700	29200	29200	40000	38300	40000	40000
	77.89	4300	4710	7310	32	18	37100	38700	30900	30900	40000	38300	40000	40000
	86.52	4300	4710	7310	32	16	38800	38700	32700	32700	40000	38300	40000	40000
	96.80	4300	4710	7310	33	13	40000	38700	34700	34700	40000	38300	40000	40000
	105.13	4300	4710	7310	33	12	40000	38700	36300	36300	40000	38300	40000	40000
	123.93	4300	4710	7310	33	9.3	40000	38700	39500	39500	40000	38300	40000	40000
	140.28	4300	4710	7310	34	5.9	40000	38700	40000	40000	40000	38300	40000	40000
	153.21	4300	4710	7310	34	5.2	40000	38700	40000	40000	40000	38300	40000	40000
	176.05	4300	4710	7310	34	4.0	40000	38700	40000	40000	40000	38300	40000	40000

AQ.		n_{epk} [1/min]	η [%]	K [Nm/']	C_{TG}			φ /R [°]
	i				KF [Nm/']	KA [Nm/']	KAF [Nm/']	
K97  3	7.54	3597	96	264	237	581	581	10
	8.71	4500	96	264	237	581	581	10
	10.41	4500	96	264	237	581	581	10
	11.99	4500	96	301	267	791	791	8
	13.85	4500	96	301	267	791	791	8
	16.56	4500	96	301	267	791	791	8
	18.96	4500	96	301	267	791	791	8
	22.37	4500	96	301	267	791	791	8
	24.75	4500	96	301	267	791	791	8
	27.91	4500	96	301	267	791	791	8
	30.82	4500	96	301	267	791	791	7
	34.23	4500	96	301	267	791	791	7
	38.30	4500	96	301	267	791	791	7
	41.87	4378	93	314	278	892	892	7
	47.93	4500	94	314	278	892	892	7
	56.55	4500	94	314	278	892	892	7
	62.55	4500	94	314	278	892	892	7
	70.54	4500	94	314	278	892	892	7
	77.89	4500	94	314	278	892	892	7
	86.52	4500	94	314	278	892	892	7
	96.80	4500	94	314	278	892	892	7
	105.13	4500	94	314	278	892	892	7
	123.93	4500	94	314	278	892	892	7
	140.28	4500	94	314	278	892	892	7
	153.21	4500	94	314	278	892	892	7
	176.05	4500	94	314	278	892	892	7



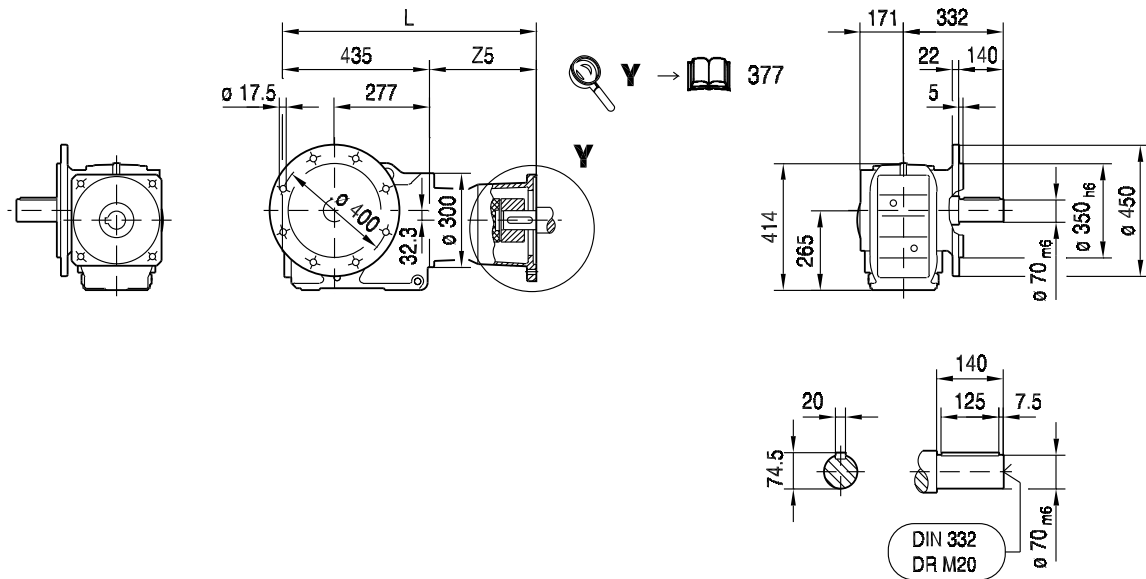
10.2.14 K 97 AQ.. [mm]

33 129 00 08^L**K97..****KA97B..****KH97B..****KV97B..**

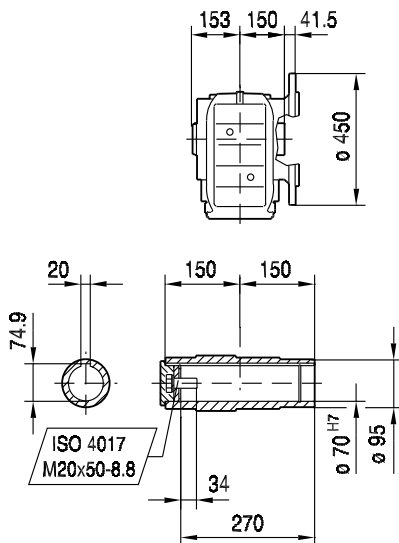
(→ 144)	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3			
L	594	607	607	653	677			
Z5	157	170	170	215.5	239.5			

33 130 00 08

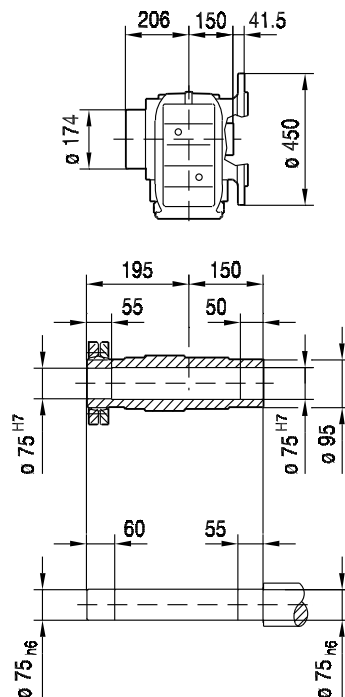
KF97..



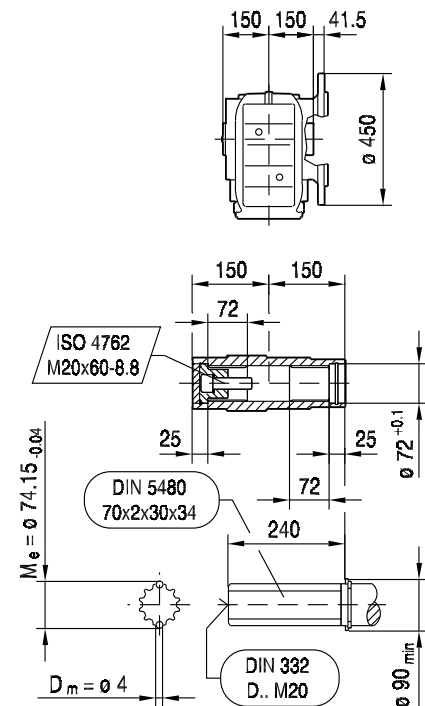
KAF97..



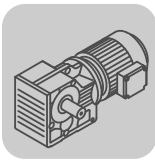
KHF97..



KVF97..

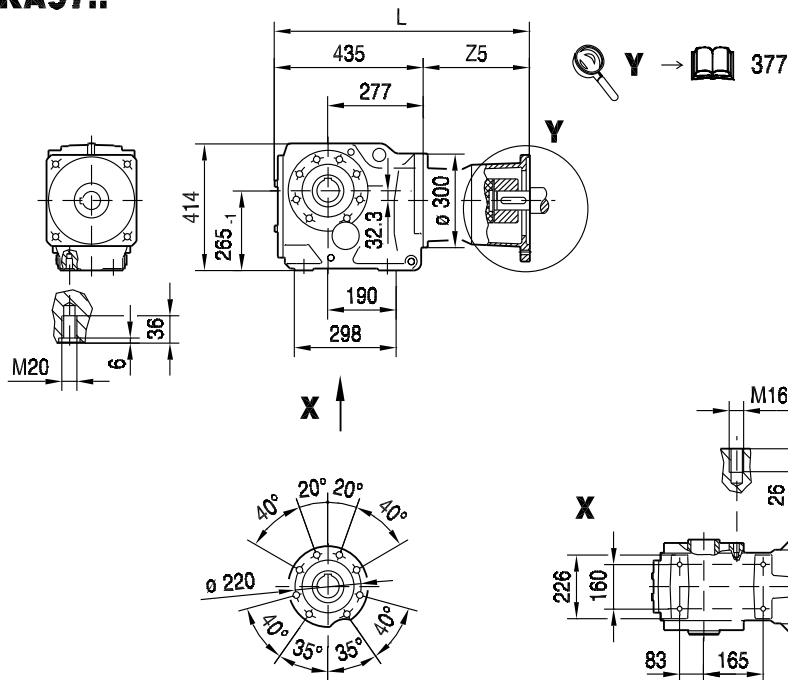


(→  144)	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3			
L	592	605	605	651	675			
Z5	157	170	170	215.5	239.5			

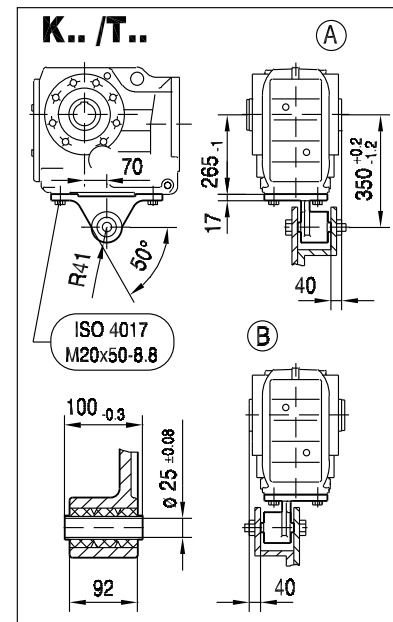


K..
K.. AQ..

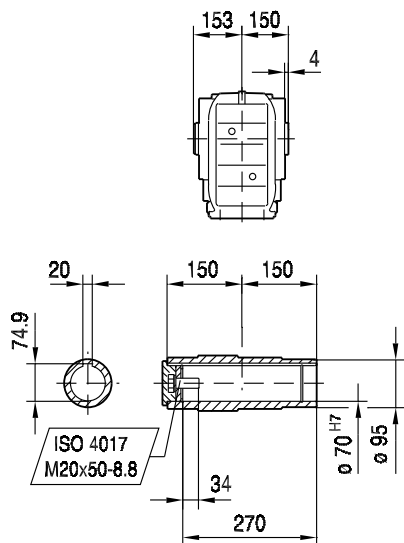
KA97..



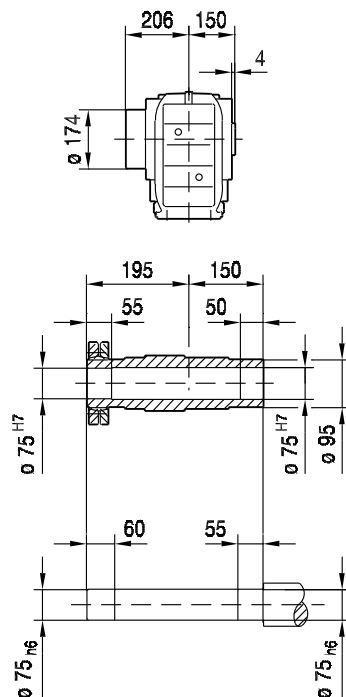
33 131 00 08^L



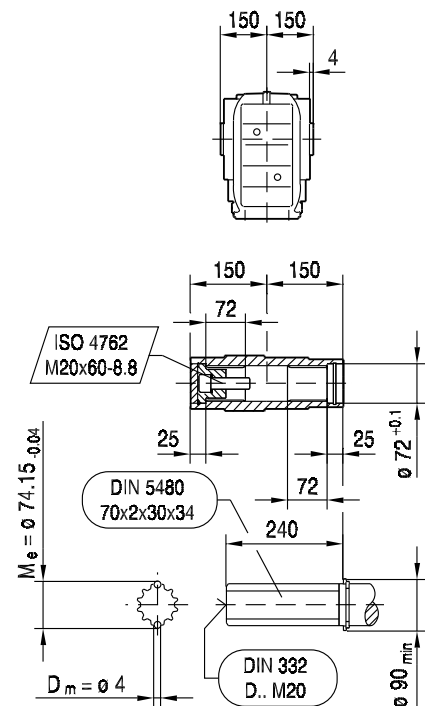
KA97..



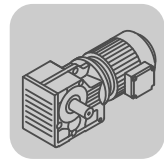
KH97..



KV97..

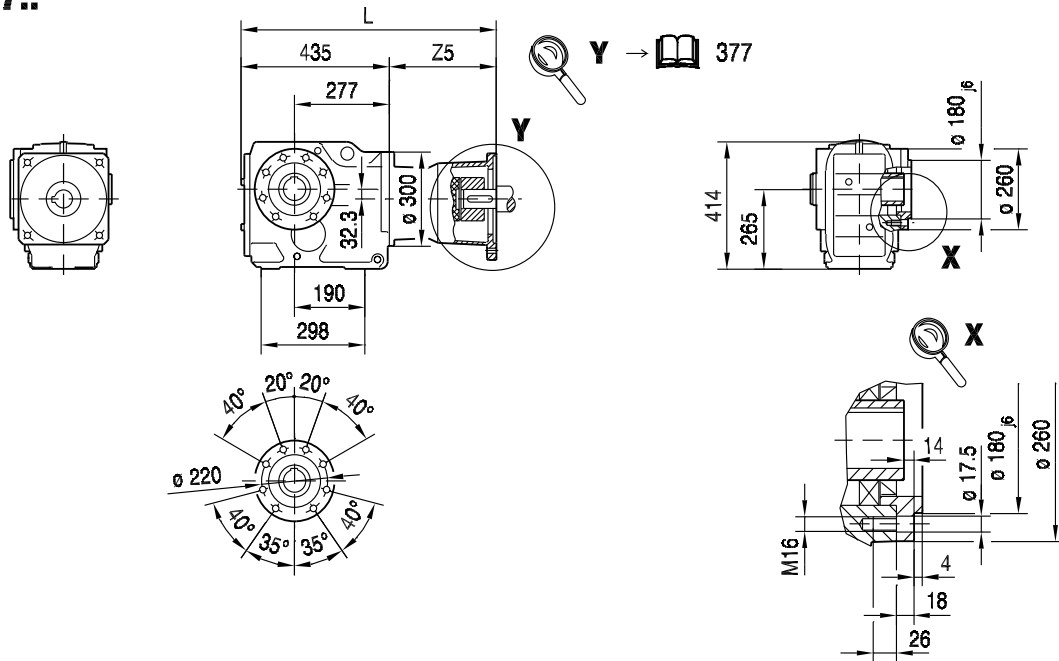


(→ 144)	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3			
L	592	605	605	651	675			
Z5	157	170	170	215.5	239.5			



33 133 00 08

KAZ97..

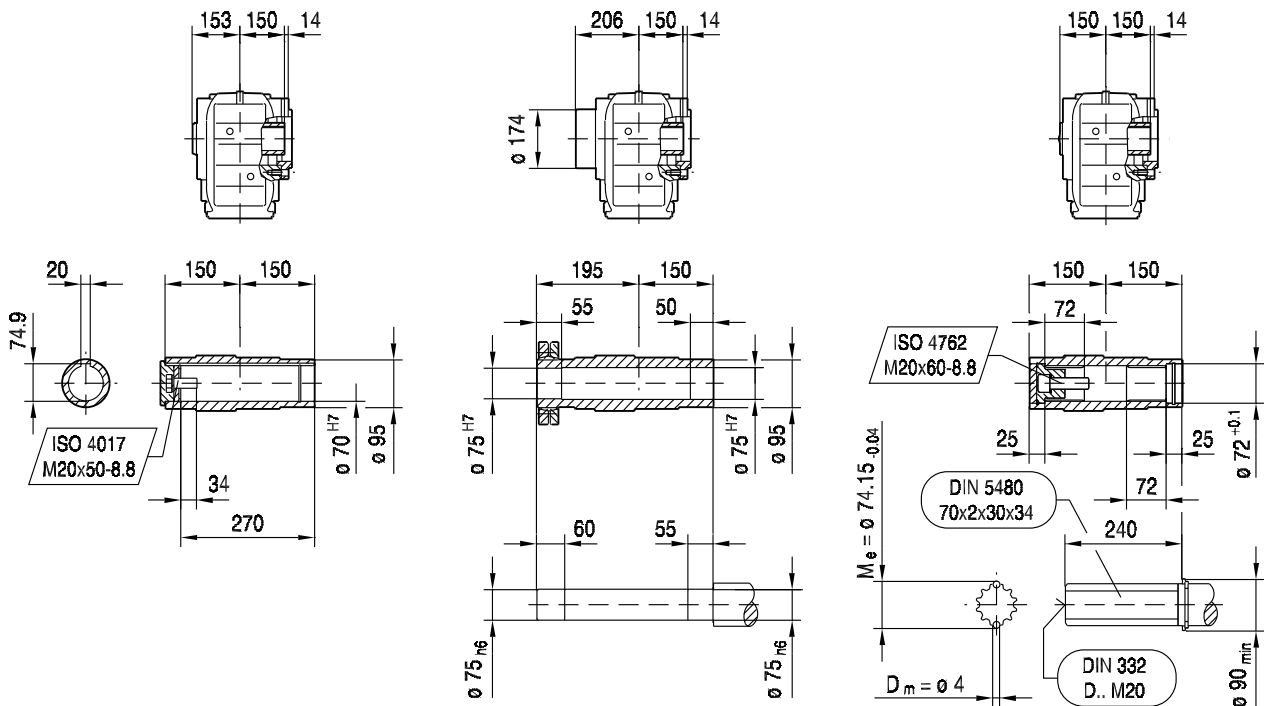


KAZ97..

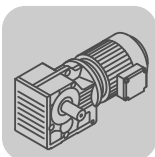
KHZ97..

KVZ97..

10

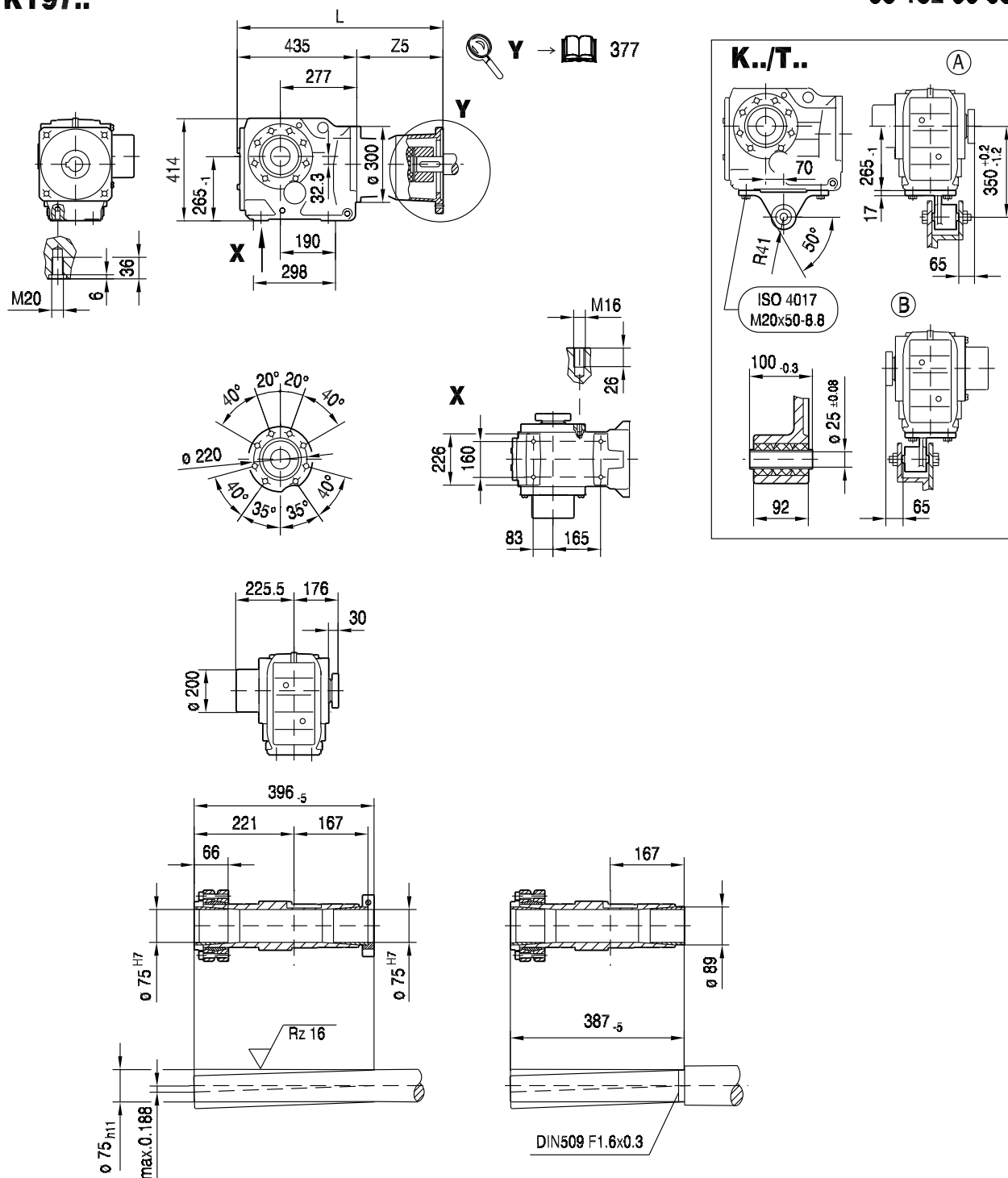


(→ 144)	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3			
L	592	605	605	651	675			
Z5	157	170	170	215.5	239.5			

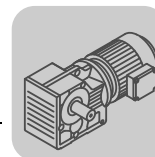


KT97..

33 132 00 08



(→  144)	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3			
L	592	605	605	651	675			
Z5	157	170	170	215.5	239.5			

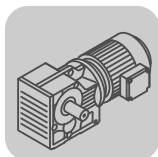


10.2.15 K 107 AQ.. [Nm]

[Nm]		AQ. $M_{amax} M_{apk} M_{aNotaus}$											
	i	140/1			140/2-4			160/1			190/1-3		
K107  3	7.35										1170	1170	1170
	8.69	520	520	860	860	860	860	860	860	860	1390	1390	1390
	9.94	595	595	990	990	990	990	990	990	990	1590	1590	1590
	11.73	700	700	1170	1170	1170	1170	1170	1170	1170	1870	1870	1870
	13.43	800	800	1340	1340	1340	1340	1340	1340	1340	2140	2140	2140
	14.64	870	870	1460	1460	1460	1460	1460	1460	1460	2340	2340	2340
	16.75	1000	1000	1670	1670	1670	1670	1670	1670	1670	2680	2680	2680
	19.74	1180	1180	1970	1970	1970	1970	1970	1970	1970	3150	3150	3150
	22.62	1350	1350	2260	2260	2260	2260	2260	2260	2260	3610	3610	3610
	26.32	1570	1570	2630	2630	2630	2630	2630	2630	2630	4210	4210	4210
	29.00	1740	1740	2900	2900	2900	2900	2900	2900	2900	4640	4640	4640
	31.28										5000	5000	5000
	32.69	1960	1960	3260	3260	3260	3260	3260	3260	3260	5230	5230	5230
	37.00	2220	2220	3700	3700	3700	3700	3700	3700	3700	5920	5920	5920
	42.33	2530	2530	4230	4230	4230	4230	4230	4230	4230	6770	6770	6770
	49.90	2990	2990	4990	4990	4990	4990	4990	4990	4990	7840	7980	7980
	57.17	3430	3430	5710	5710	5710	5710	5710	5710	5710	8000	9090	9140
	66.52	3990	3990	6650	6650	6650	6650	6650	6650	6650	8000	9090	10600
	73.30	4390	4390	7330	7330	7330	7330	7330	7330	7330	8000	9090	11700
	82.61	4950	4950	8260	8000	8260	8260	8000	8260	8260	8000	9090	13200
	90.96	5450	5450	9090	8000	9090	9090	8000	9090	9090	8000	9090	13600
	100.75	6040	6040	10000	8000	9090	10000	8000	9090	10000	8000	9090	13600
	112.41	6740	6740	11200	8000	9090	11200	8000	9090	11200	8000	9090	13600
	121.46	7280	7280	12100	8000	9090	12100	8000	9090	12100	8000	9090	13600
	143.47	8000	8600	13600	8000	9090	13600	8000	9090	13600	8000	9090	13600

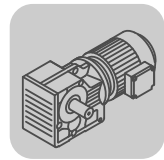
m [kg]		AQ.			
	s	140/1	140/2-4	160/1	190/1-3
K107	 3	275	275	275	285
KF: + 12.1 kg / KA: + -27.2 kg / KAF: + -3.2 kg					

		AQ.			
		140/1	140/2-4	160/1	190/1-3
$J_A 10^{-4}$	[kgm ²]	5.1	10.0	10.0	25.0
c_{TA}	[Nm/°]	0.625	1.0	1.0	2.08



K107 $\eta_e = 1400$							F_{Ramax}				F_{Rapk}			
	i	M_{amax} [Nm]	M_{apk} [Nm]	$M_{aNotaus}$ [Nm]	n_{ak} [1/min]	$J_G \cdot 10^{-4}$ [kgm ²]	K [N]	KF [N]	KA [N]	KAF [N]	K [N]	KF [N]	KA [N]	KAF [N]
K107  3	7.35	3600	4720	6120	286	231	24400	28500	9900	47100	65000	65000	65000	65000
	8.69	4070	4780	6919	207	170	24600	29100	9270	48300	65000	65000	65000	65000
	9.94	4190	4840	7123	201	136	25800	30500	10000	50500	65000	65000	65000	65000
	11.73	4300	4910	7310	196	104	27500	32300	11100	53500	65000	65000	65000	65000
	13.43	4300	4940	7310	201	82	29200	34200	12600	56500	65000	65000	65000	65000
	14.64	6890	8060	11713	123	163	19500	23000	6180	51700	65000	65000	65000	65000
	16.75	7050	8160	11985	119	131	21000	24800	7080	54200	65000	65000	65000	65000
	19.74	7200	8270	12240	117	100	23200	27300	8440	57700	65000	65000	65000	65000
	22.62	7200	8320	12240	124	80	25800	30300	10100	61200	65000	65000	65000	65000
	26.32	7200	8370	12240	129	63	28800	33600	12100	65000	65000	65000	65000	65000
	29.00	7200	8400	12240	134	54	30700	35800	13400	65000	65000	65000	65000	65000
	31.28	6800	9090	11560	48	112	34200	39700	16100	65000	65000	65000	65000	65000
	32.69	7200	8430	12240	138	45	33200	38600	15100	65000	65000	65000	65000	65000
	37.00	7200	9090	12240	41	86	35800	41500	17000	65000	65000	65000	65000	65000
	42.33	7360	9090	12512	38	72	37900	44000	18400	65000	65000	65000	65000	65000
	49.90	7840	9090	13328	30	58	39300	45600	19200	65000	65000	65000	65000	65000
	57.17	8000	9090	13600	30	48	41700	48400	20900	65000	65000	65000	65000	65000
	66.52	8000	9090	13600	30	40	45400	52500	23600	65000	65000	65000	65000	65000
	73.30	8000	9090	13600	30	35	47900	55300	25400	65000	65000	65000	65000	65000
	82.61	8000	9090	13600	30	29	50900	58700	27700	65000	65000	65000	65000	65000
	90.96	8000	9090	13600	31	25	53500	61600	29600	65000	65000	65000	65000	65000
	100.75	8000	9090	13600	32	20	56200	64700	31700	65000	65000	65000	65000	65000
	112.41	8000	9090	13600	32	17	59300	65000	34000	65000	65000	65000	65000	65000
	121.46	8000	9090	13600	32	15	61500	65000	35700	65000	65000	65000	65000	65000
	143.47	8000	9090	13600	32	12	65000	65000	39600	65000	65000	65000	65000	65000

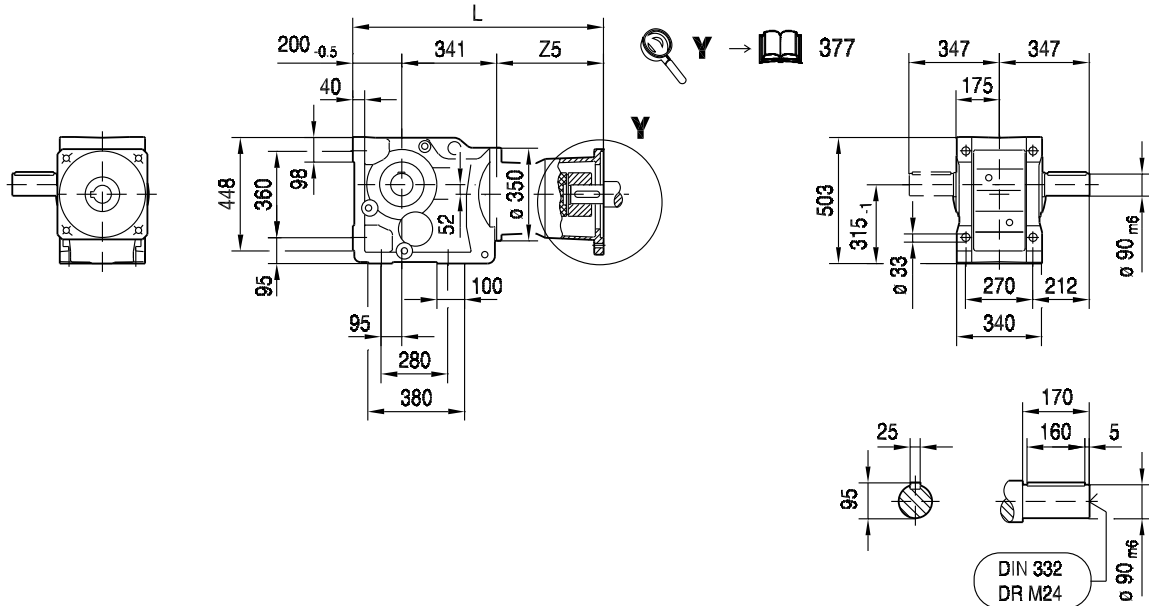
AQ.		n_{epk} [1/min]	η [%]	K [Nm/']	KF [Nm/']	c_{TG} KA [Nm/']	KAF [Nm/']	φ /R [']
	i							
K107  3	7.35	3197	96	519	488	862	862	9
	8.69	3597	96	519	488	862	862	9
	9.94	4500	96	519	488	862	862	9
	11.73	4500	96	519	488	862	862	9
	13.43	4500	96	519	488	862	862	9
	14.64	4500	96	661	612	1341	1341	7
	16.75	4500	96	661	612	1341	1341	7
	19.74	4500	96	661	612	1341	1341	6
	22.62	4500	96	661	612	1341	1341	6
	26.32	4500	96	661	612	1341	1341	6
	29.00	4500	96	661	612	1341	1341	6
	31.28	3197	94	730	670	1660	1660	6
	32.69	4500	96	661	612	1341	1341	6
	37.00	3597	94	730	670	1660	1660	6
	42.33	3924	94	730	670	1660	1660	6
	49.90	4378	94	730	670	1660	1660	6
	57.17	4500	94	730	670	1660	1660	6
	66.52	4500	94	730	670	1660	1660	6
	73.30	4500	94	730	670	1660	1660	6
	82.61	4500	94	730	670	1660	1660	6
	90.96	4500	94	730	670	1660	1660	6
	100.75	4500	94	730	670	1660	1660	6
	112.41	4500	94	730	670	1660	1660	6
	121.46	4500	94	730	670	1660	1660	6
	143.47	4500	94	730	670	1660	1660	6



10.2.16 K 107 AQ.. [mm]

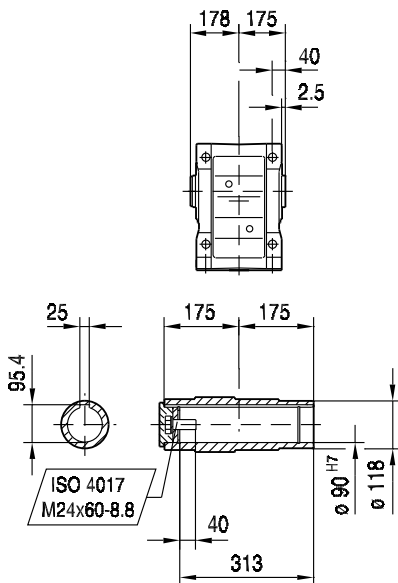
33 134 00 08^L

K107..

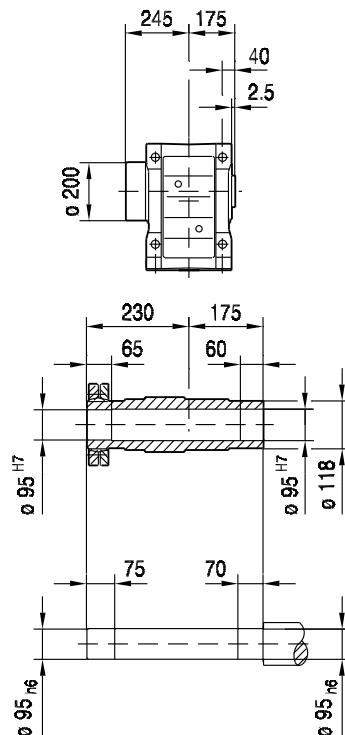


10

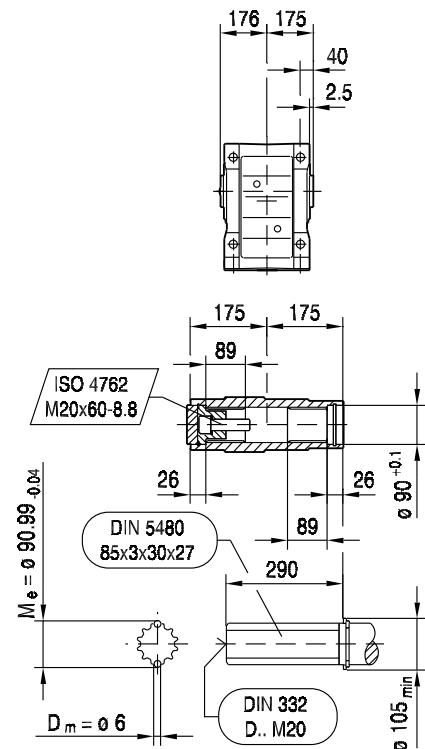
KA107B..



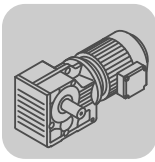
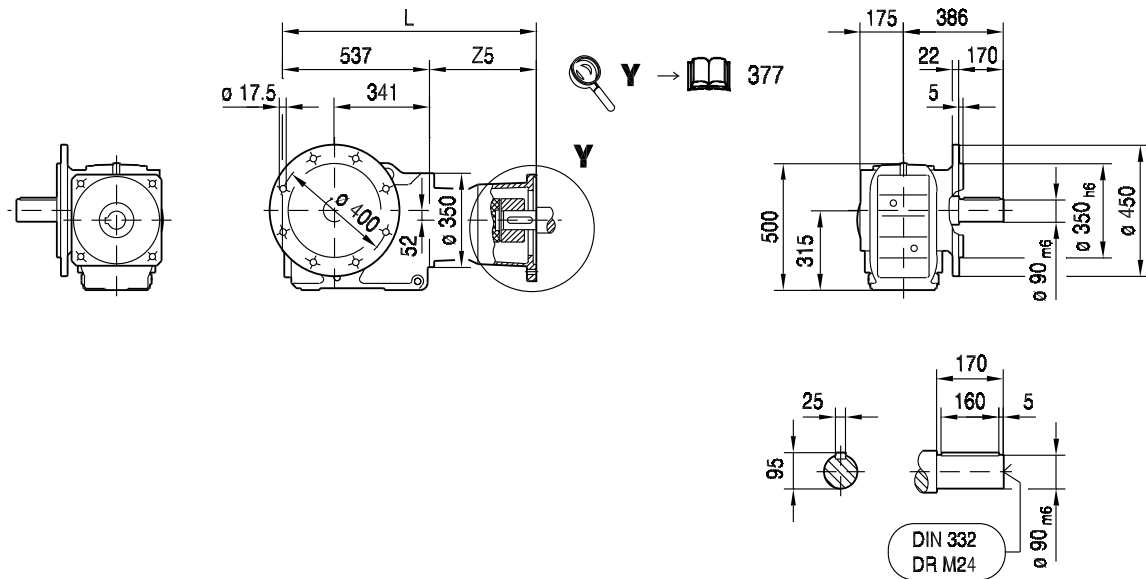
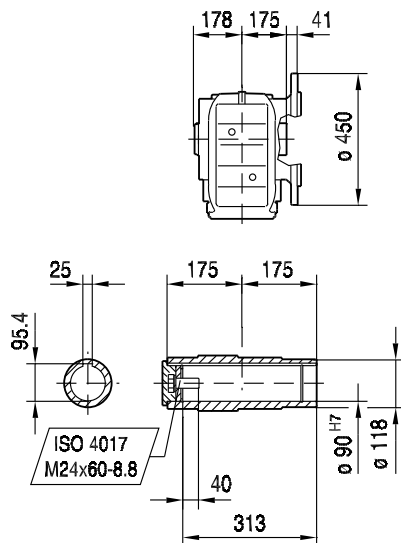
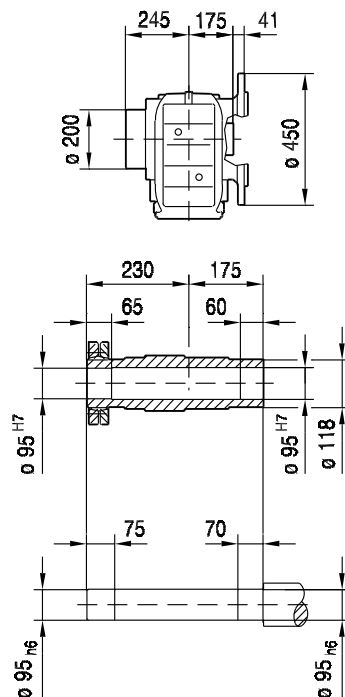
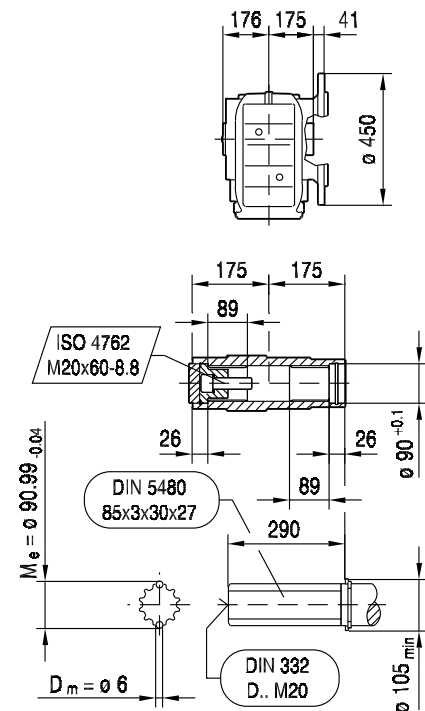
KH107B..



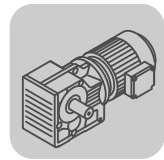
KV107B..



(→ 144)	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3			
L	692	705	705	751	775			
Z5	151	164	164	209.5	233.5			

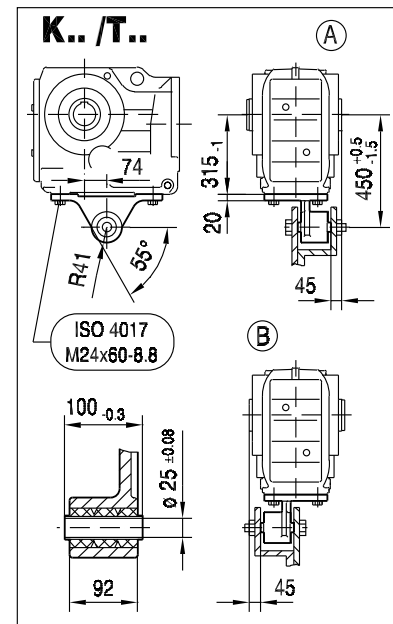
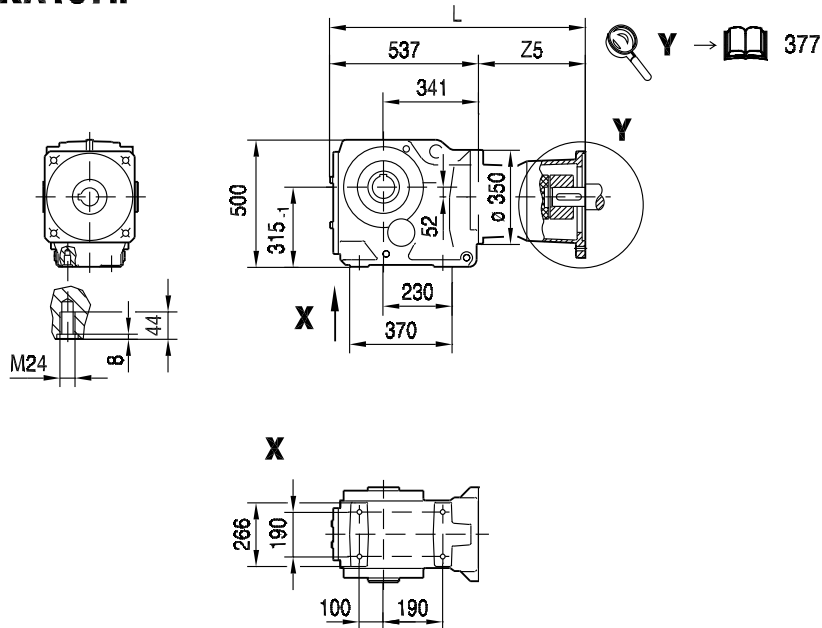
**KF107..****KAF107..****KHF107..****KVF107..**

(→ 144)	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3			
L	688	701	701	747	771			
Z5	151	164	164	209.5	233.5			



KA107..

33 136 00 08

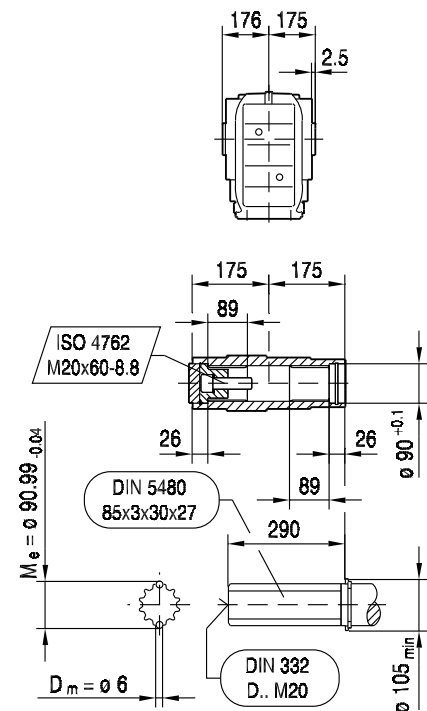
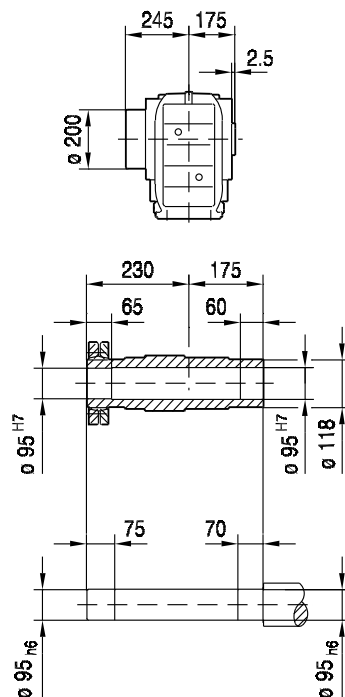
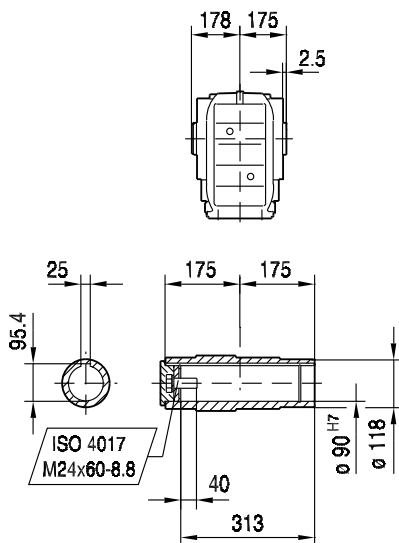


KA107..

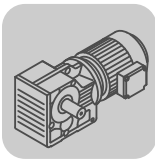
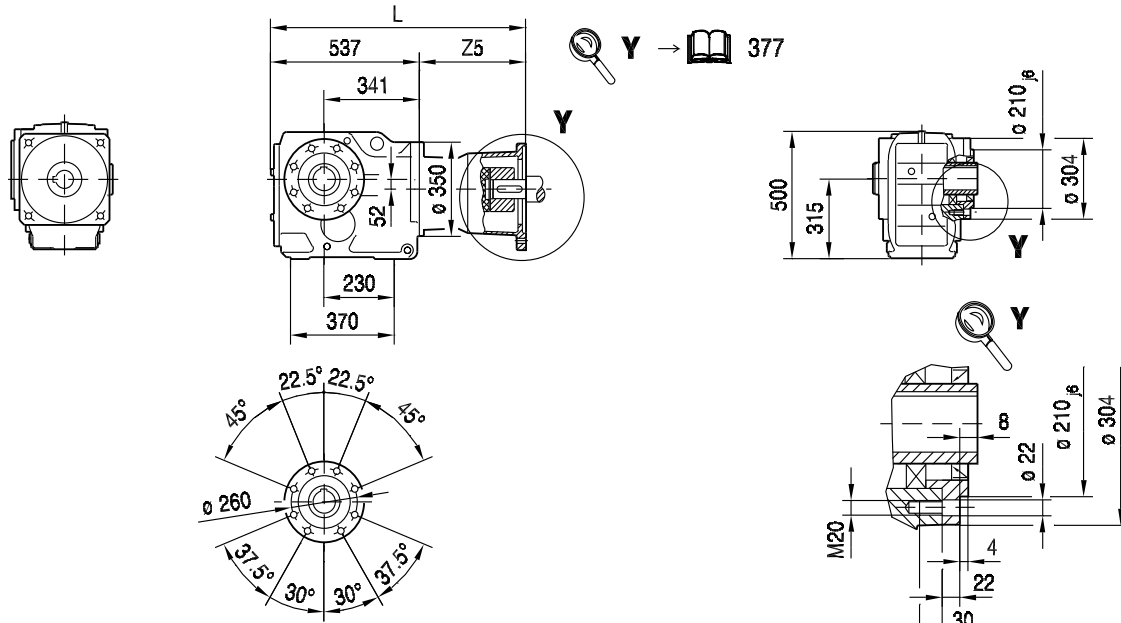
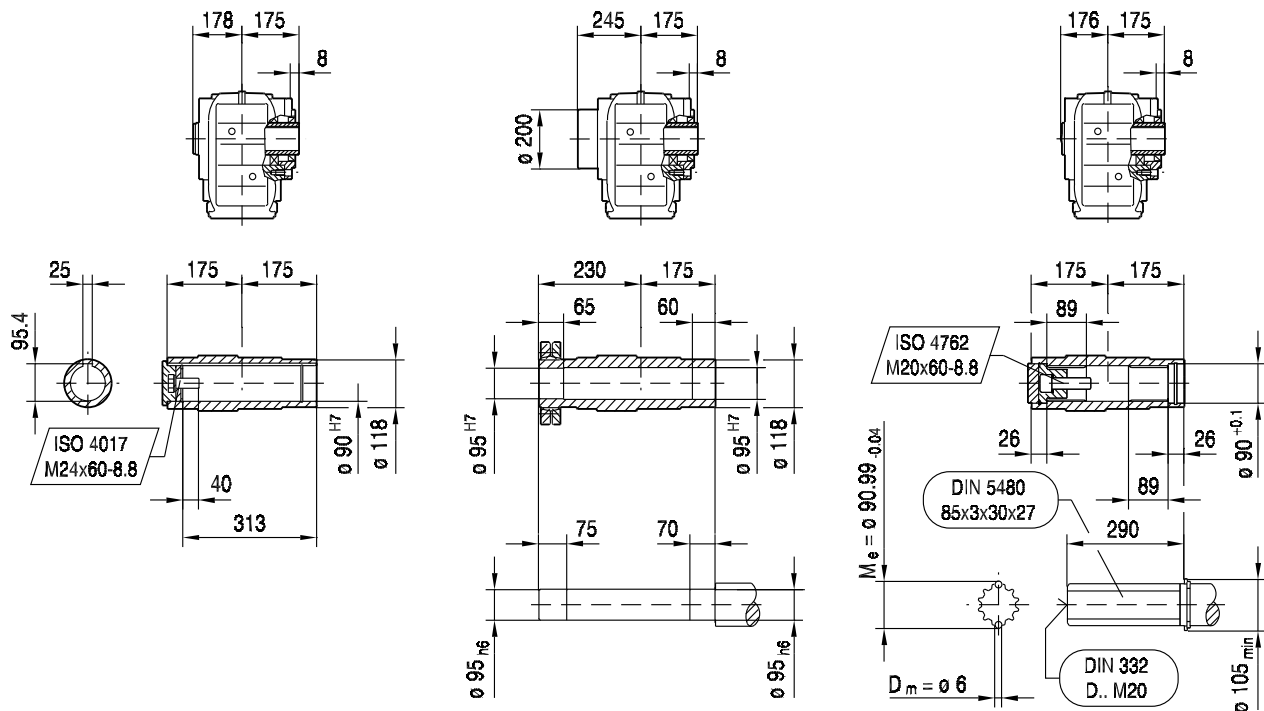
KH107..

KV107..

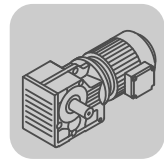
10



(→ 144)	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3			
L	688	701	701	747	771			
Z5	151	164	164	209.5	233.5			

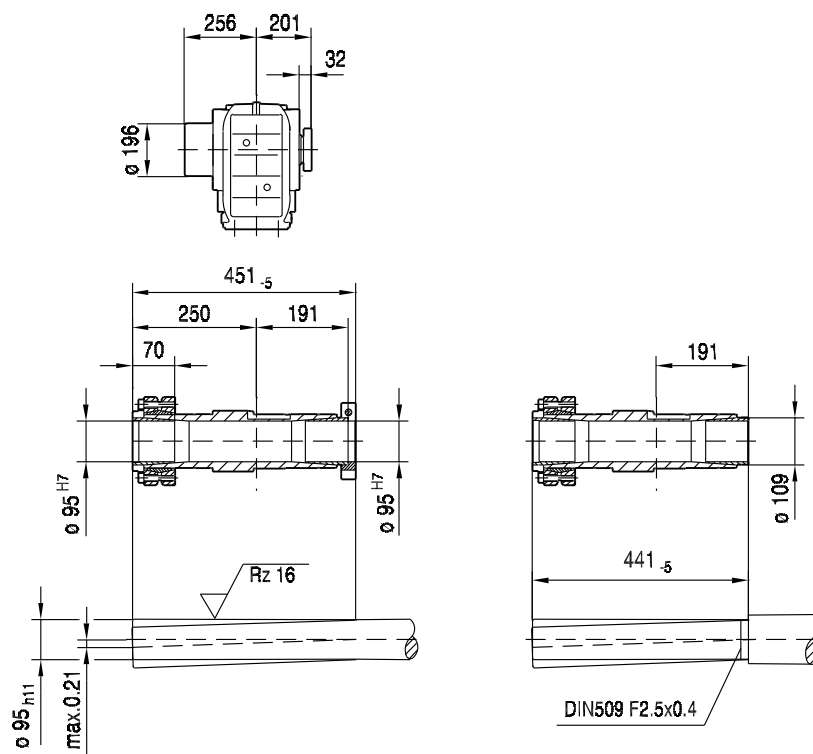
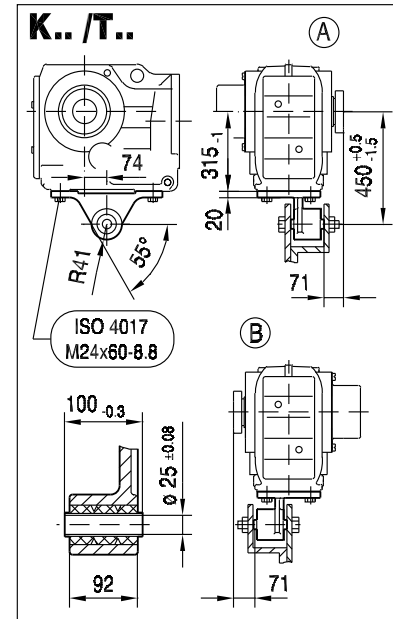
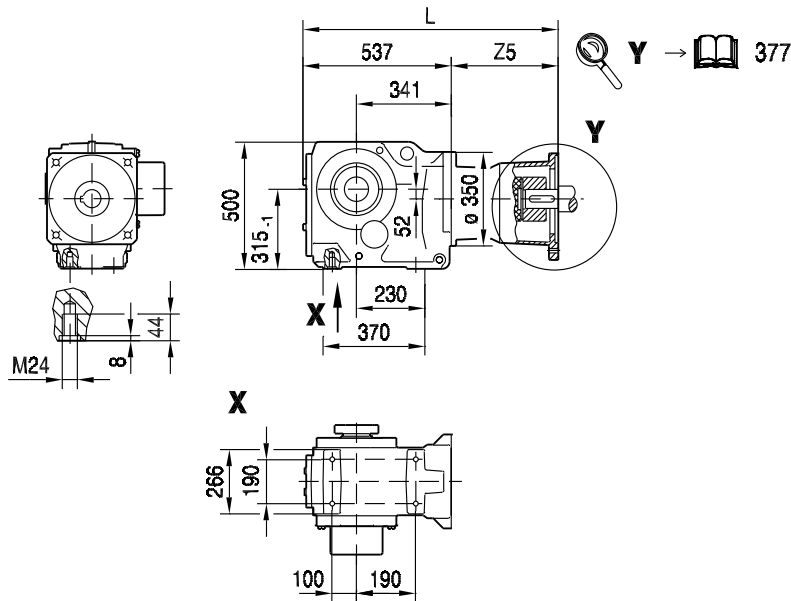
33 137 00 08^L**KAZ107..****KAZ107..****KHZ107..****KVZ107..**

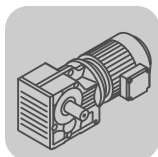
(→ 144)	AQ140/1-2	AQ140/3-4	AQ160/1	AQ190/1-2	AQ190/3			
L	688	701	701	747	771			
Z5	151	164	164	209.5	233.5			



33 150 00 08^L

KT107..





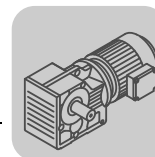
10.2.17 K 127 AQ.. [Nm]

[Nm]		AQ. M_{amax} M_{apk} $M_{aNotaus}$		
	i	190/1-3		
K127  3	8.68			
	10.74	1710	1710	1710
	12.79	2040	2040	2040
	14.35			
	17.77	2840	2840	2840
	21.15	3380	3380	3380
	23.91	3820	3820	3820
	27.68	4420	4420	4420
	31.37	5010	5010	5010
	36.25	5800	5800	5800
	40.19	6430	6430	6430
	47.82	7650	7650	7650
	54.07	8650	8650	8650
	62.60	10000	10000	10000
	70.95	11300	11300	11300
	81.98	13000	13100	13100
	89.89	13000	14300	14300
	110.18	13000	14800	17600
	122.48	13000	14800	19500
	136.14	13000	14800	21700
	146.07	13000	14800	22100

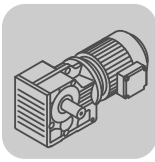
m [kg]		AQ.
	s	190/1-3
K127	 3	440
KF: + 42.3 kg / KA: + -28.2 kg / KAF: + 9.2 kg		

		AQ. 190/1-3	
$J_A 10^{-4}$	[kgm ²]	25.0	
c_{TA}	[Nm/°]	2.08	

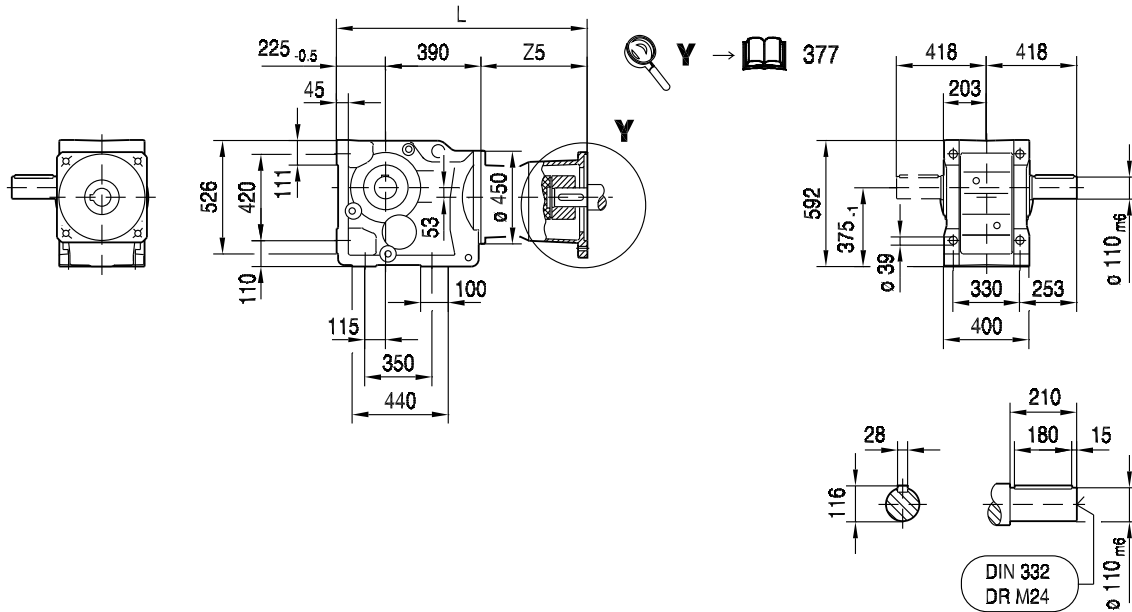
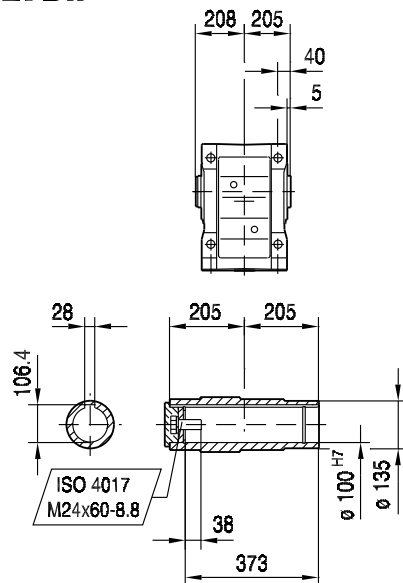
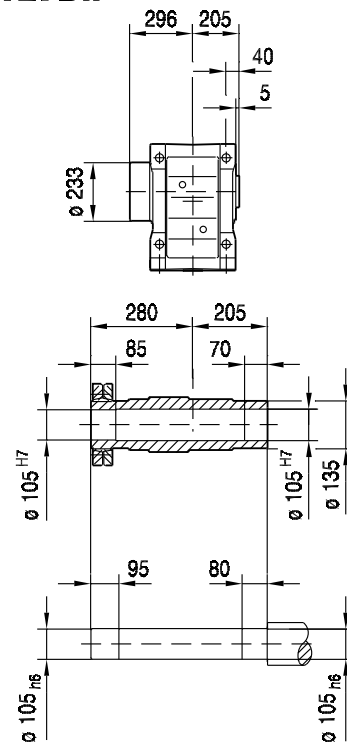
K127 n _e = 1400							F _{Ramax}				F _{Rapk}			
	i	M _{amax} [Nm]	M _{apk} [Nm]	M _{aNotaus} [Nm]	n _{ak} [1/min]	J _G 10 ⁻⁴ [kgm ²]	K [N]	KF [N]	KA [N]	KAF [N]	K [N]	KF [N]	KA [N]	KAF [N]
K127  3	8.68	7230	9390	12291	230	450	32500	39100	3750	56600	80900	82700	90000	90000
	10.74	8000	9560	13600	177	318	33900	41000	3100	59300	80800	82600	90000	90000
	12.79	8530	9680	14501	149	240	35400	42900	3080	62100	80800	82600	90000	90000
	14.35	12100	14800	20570	132	431	31000	36700	35	58100	76400	75700	90000	90000
	17.77	13000	14800	22100	113	305	32600	38600	39	61600	76400	75700	90000	90000
	21.15	13000	14800	22100	123	226	37200	44000	39	67200	76400	75700	90000	90000
	23.91	13000	14800	22100	125	187	39800	47900	575	71300	76400	75700	90000	90000
	27.68	13000	14800	22100	130	148	43000	52600	2830	76300	76400	75700	90000	90000
	31.37	13000	14800	22100	137	120	45900	55800	4840	80900	76400	75700	90000	90000
	36.25	13000	14800	22100	141	97	49400	59600	7280	86300	76400	75700	90000	90000
	40.19	13000	14800	22100	55	184	52000	62400	9090	90000	76400	75700	90000	90000
	47.82	13000	14800	22100	56	146	56500	67300	12300	90000	76400	75700	90000	90000
	54.07	13000	14800	22100	57	124	59800	70900	14700	90000	76400	75700	90000	90000
	62.60	13000	14800	22100	58	101	64000	75500	17600	90000	76400	75700	90000	90000
	70.95	13000	14800	22100	59	84	67700	79500	20300	90000	76400	75700	90000	90000
	81.98	13000	14800	22100	60	70	72100	80900	23400	90000	76400	75700	90000	90000
	89.89	13000	14800	22100	61	61	75100	80900	25600	90000	76400	75700	90000	90000
	110.18	13000	14800	22100	62	40	79200	80900	30500	90000	76400	75700	90000	90000
	122.48	13000	14800	22100	57	35	79200	80900	33200	90000	76400	75700	90000	90000
	136.14	13000	14800	22100	51	29	79200	80900	36000	90000	76400	75700	90000	90000
	146.07	13000	14800	22100	48	26	79200	80900	37900	90000	76400	75700	90000	90000



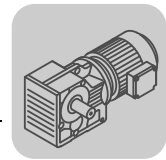
AQ.		n _{epk} [1/min]	η [%]	K [Nm/']	KF [Nm/']	c _{TG}		φ /R [°]
	i					KA [Nm/']	KAF [Nm/']	
K127  3	8.68	2797	96	1033	967	1784	1784	8
	10.74	4500	96	1033	967	1784	1784	8
	12.79	4500	96	1033	967	1784	1784	8
	14.35	4500	96	1157	1075	2481	2481	6
	17.77	4500	96	1157	1075	2481	2481	6
	21.15	4500	96	1157	1075	2481	2481	6
	23.91	4500	96	1157	1075	2481	2481	6
	27.68	4500	96	1157	1075	2481	2481	6
	31.37	4500	96	1157	1075	2481	2481	6
	36.25	4500	96	1157	1075	2481	2481	6
	40.19	3197	94	1223	1131	2803	2803	5
	47.82	3597	94	1223	1131	2803	2803	5
	54.07	3924	94	1223	1131	2803	2803	5
	62.60	4378	94	1223	1131	2803	2803	5
	70.95	4500	94	1223	1131	2803	2803	5
	81.98	4500	94	1223	1131	2803	2803	5
	89.89	4500	94	1223	1131	2803	2803	5
	110.18	4500	94	1223	1131	2803	2803	5
	122.48	4500	94	1223	1131	2803	2803	5
	136.14	4500	94	1223	1131	2803	2803	5
	146.07	4500	94	1223	1131	2803	2803	5



10.2.18 K 127 AQ.. [mm]

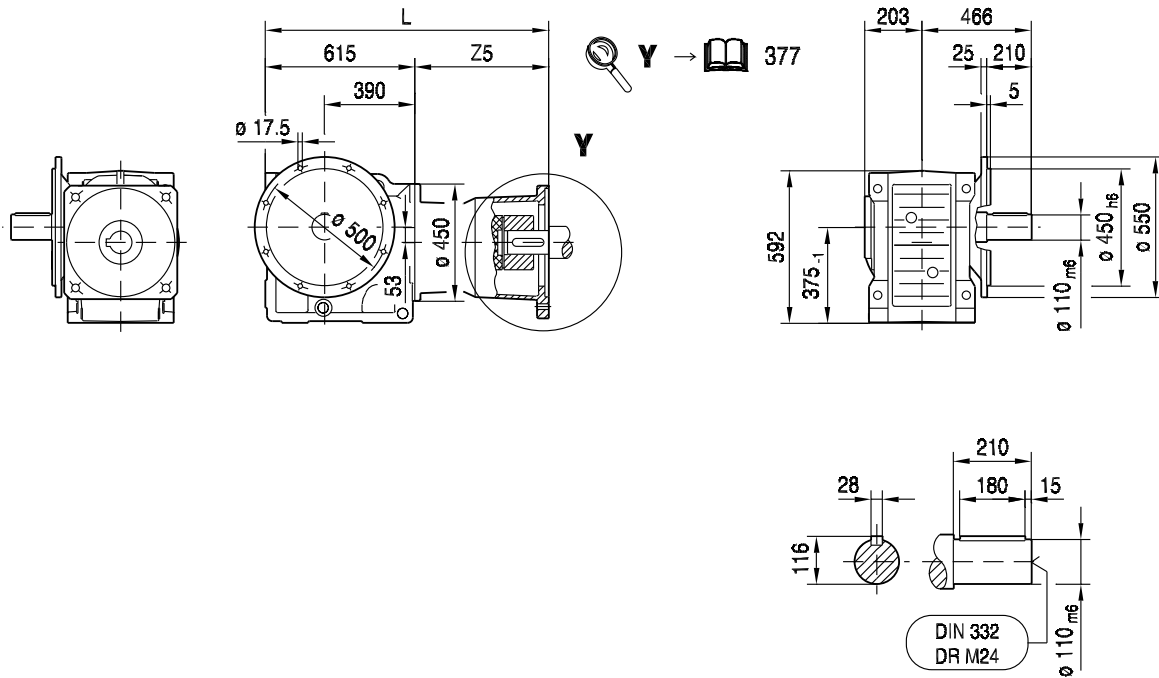
33 138 00 08^L**K127..****KA127B..****KH127B..**

(→ 144)	AQ190/1-2	AQ190/3						
L	810	834						
Z5	194.5	218.5						



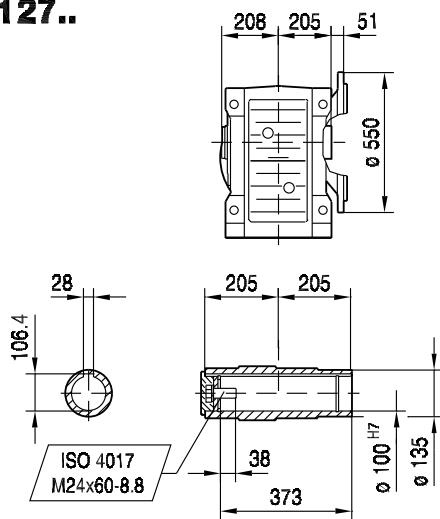
33 139 00 08^L

KF127..

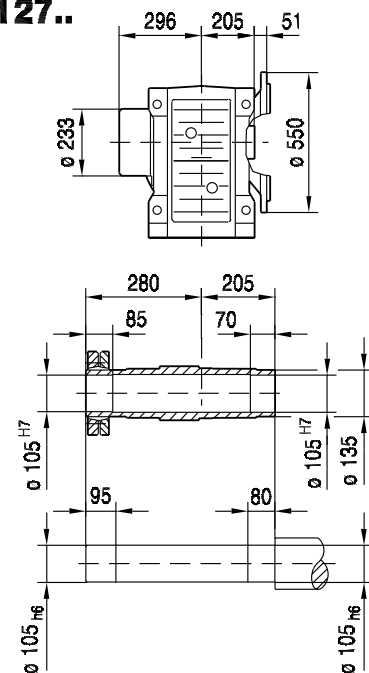


10

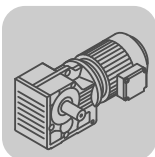
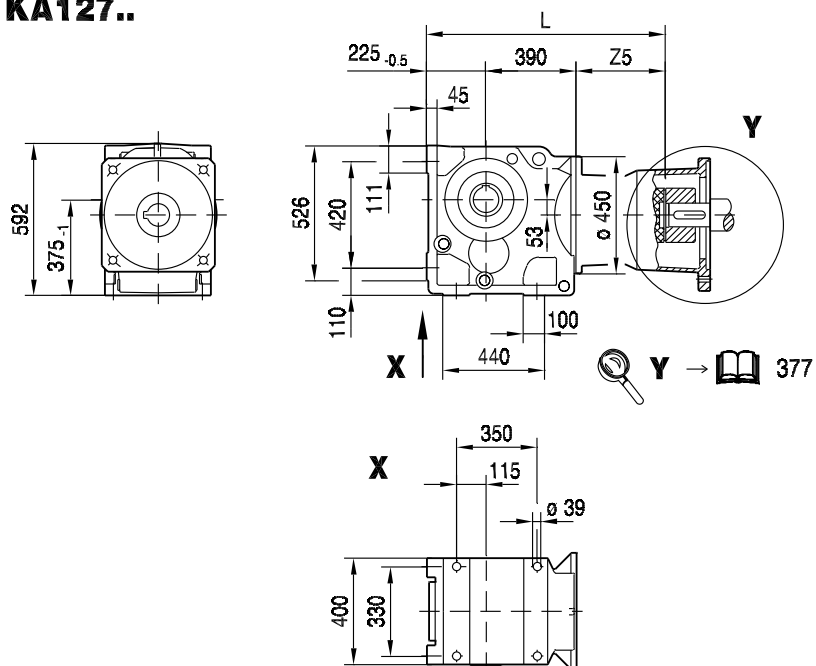
KAF127..



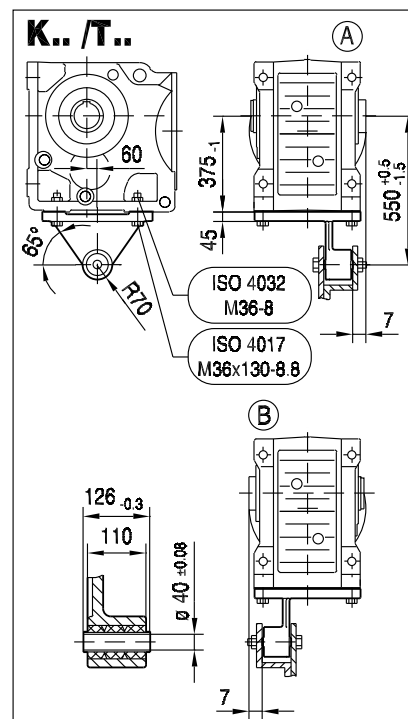
KHF127..



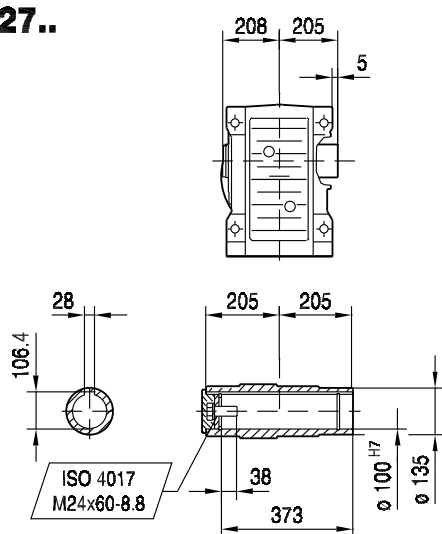
(→ 144)	AQ190/1-2	AQ190/3						
L	810	834						
Z5	194.5	218.5						

**KA127..**

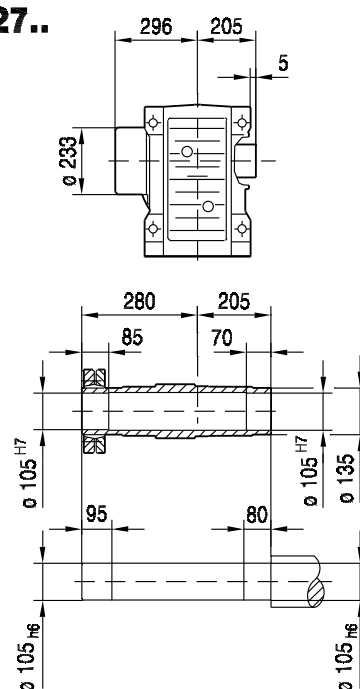
33 140 00 08



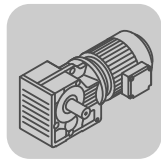
KA127..



KH127..

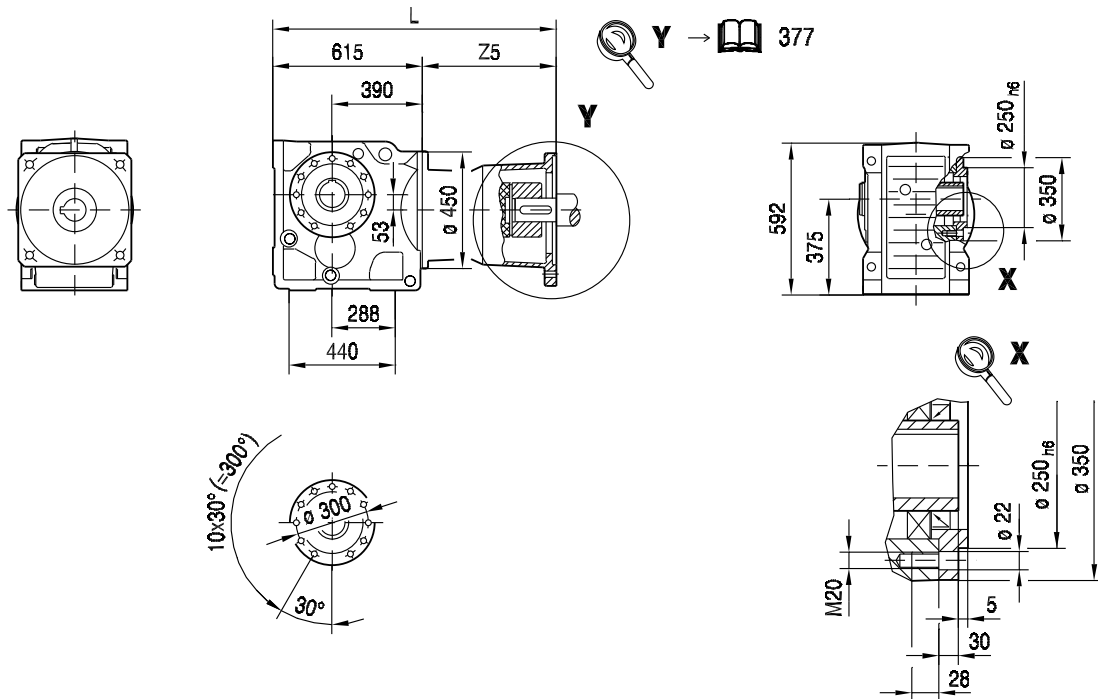


(→  144)	AQ190/1-2	AQ190/3					
L	810	834					
Z5	194.5	218.5					



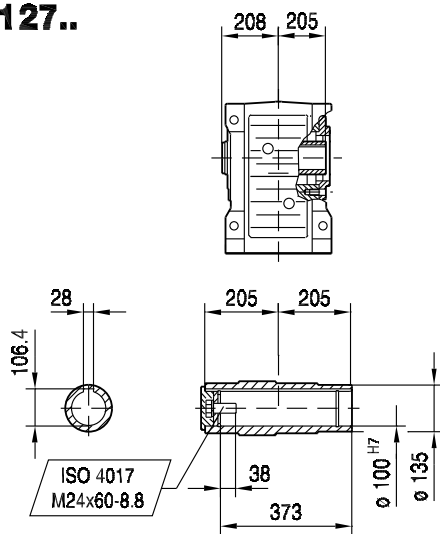
33 141 00 08^L

KAZ127..

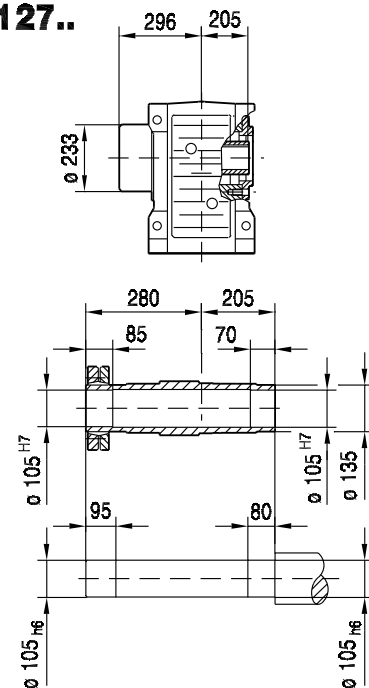


10

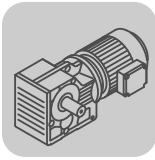
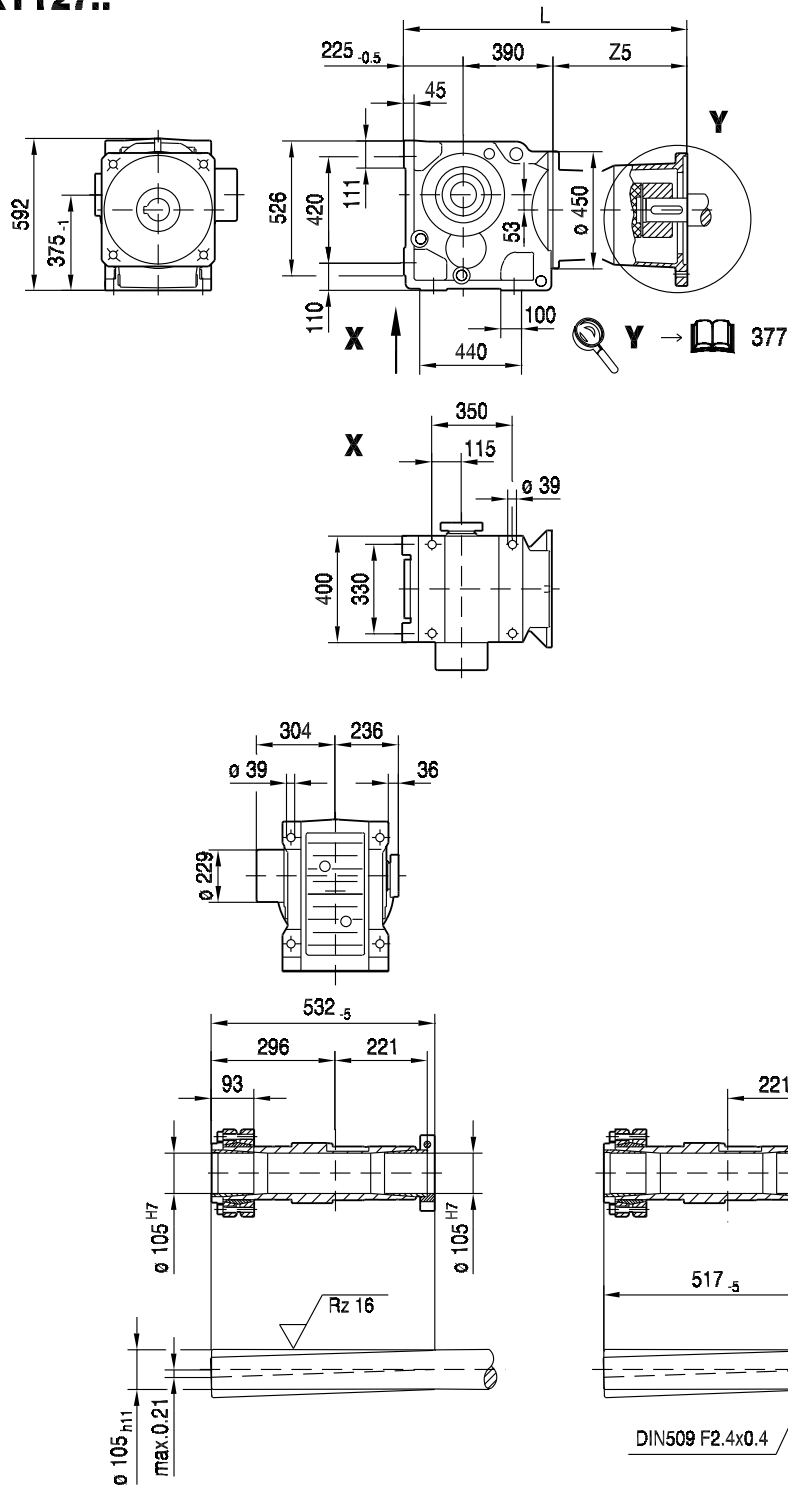
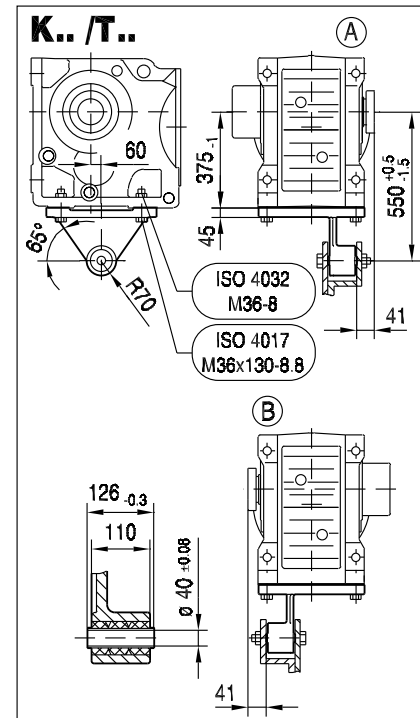
KAZ127..



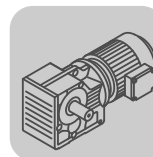
KHZ127..



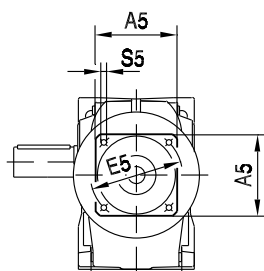
(→ 144)	AQ190/1-2	AQ190/3						
L	810	834						
Z5	194.5	218.5						

**KT127..****33 151 00 08**

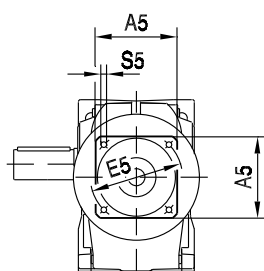
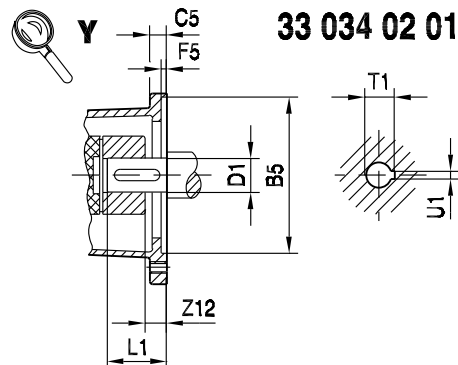
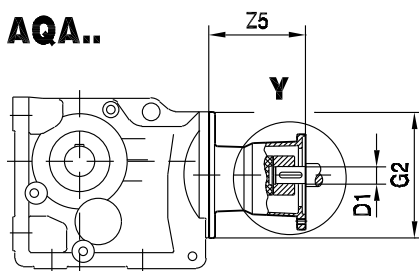
(→ 144)	AQ190/1-2	AQ190/3						
L	810	834						
Z5	194.5	218.5						



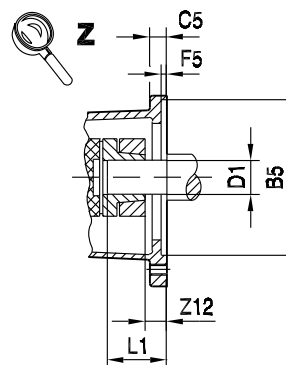
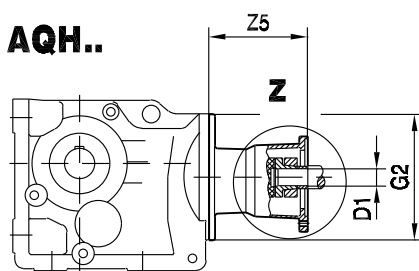
10.3 K.. AQ.. [mm]



K.. AQA..



K.. AQH..



	Square dimension A5	Centering hole Ø B5	Flange thickness C5	Hole circle Ø E5	Centering depth F5	Threaded hole S5	Z12 (AQA)	Z12 (AQH)	Boupling bore Ø D1	Max. motor shaft insertion depth L1	T1	U1
AQ_80/1	82	60	8	75	3.5	M5	5.5	5.5	11	23	12.8	4
AQ_80/2	82	60	8	75	3.5	M5	5.5	5.5	14	30	16.3	5
AQ_80/3	82	50	8	95	3	M6	5.5	5.5	14	30	16.3	5
AQ_100/1	100	80	10	100	4	M6	0	0	14	30	16.3	5
AQ_100/2	100	95	12	115	4	M8	0	0	14	30	16.3	5
AQ_100/3	100	80	10	100	4	M6	2	14	19	40	21.8	6
AQ_100/4	100	95	12	115	4	M8	2	14	19	40	21.8	6
AQ_115/1	115	95	12	130	5	M8	11	23	19	40	21.8	6
AQ_115/2	115	110	12	130	5	M8	11	23	19	40	21.8	6
AQ_115/3	115	110	12	130	5	M8	16	16	24	50	27.3	8
AQ_140/1	140	110	15	165	5	M10	16	16	24	50	27.3	8
AQ_140/2	140	130	15	165	5	M10	16	16	24	50	27.3	8
AQ_140/3	140	130	15	165	5	M10	22	22	32	60	35.3	10
AQ_140/4	140	130	15	165	5	M10	22	22	28	60	31.3	8
AQ_160/1	162	155	15	190	5	M10	22	22	32	60	35.3	10
AQ_190/1	190	130	16	215	5	M12	24	24	32	60	35.3	10
AQ_190/2	190	180	16	215	5	M12	24	24	32	60	35.3	10
AQ_190/3	190	180	16	215	5	M12	34	34	38	80	41.3	10