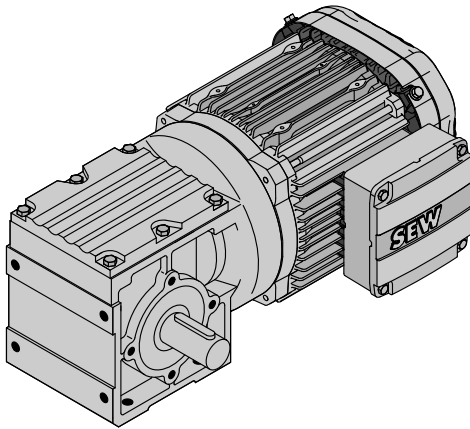
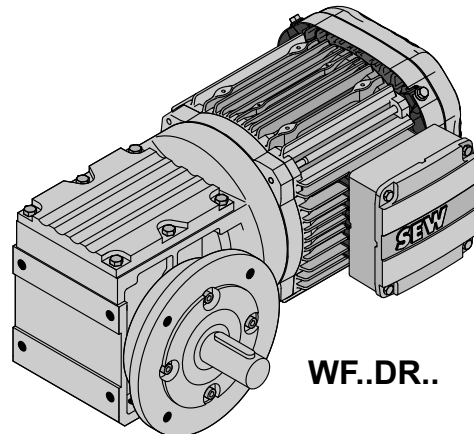


12 W..DRL

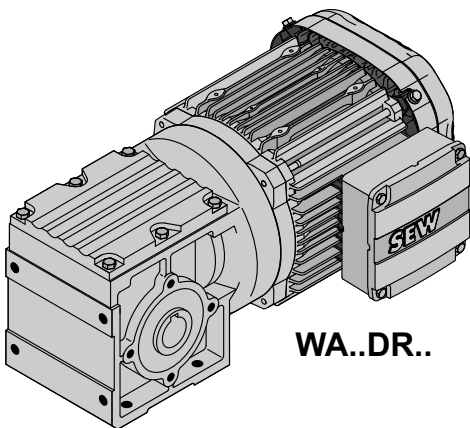
12.1 W, WA, WF, WAF..DRL



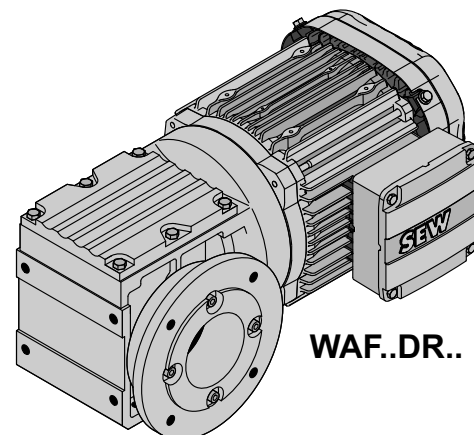
W..DR..



WF..DR..

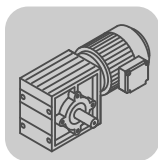


WA..DR..



WAF..DR..

60407axx



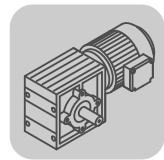
12.2 W..Nm

12.2.1 W 37

MaDyn	Nm i	DRL							
		71S		71M		80S		80M	90L
		D1	D2	D1	D2	D1	D2	D1	D1
W37 2	3.20	15	25	21	42	30	74	39	74
	3.93	18	31	25	51	36	>84	47	>84
	5.11	24	40	33	66	47	>84	61	>84
	5.77	27	45	37	74	53	>84	69	>84
	6.97	32	55	45	>84	64	>84	83	>84
	8.55	39	66	54	>84	78	>84	>84	
	9.92	45	77	63		>84		>84	
	10.67	46	79	65	>108	93	>108	>108	>108
	11.65	53		74					
	12.70	58		81					
	13.89	60	102	84	>108	>108	>108	>108	>108
	15.67	67	>108	94	>108	>108	>108	>108	>108
	18.94	80	>108	>108	>108	>108	>108	>108	>108
	21.33	81	>110	>110	>110	>110	>110	>110	>110
	23.25	98	>108	>108	>108	>108	>108	>108	
	26.96	>108	>108	>108		>108		>108	
	27.78	103	>111	>111	>111	>111	>111	>111	>111
	31.33	114	>117	>117	>117	>117	>117	>117	>117
	31.67	>108		>108					
	34.52	>108		>108					
	37.88	>126	>126	>126	>126	>126	>126	>126	>126
	46.49	>130	>130	>130	>130	>130	>130	>130	
	53.92	>130	>130	>130		>130		>130	
	63.33	>126		>126					
	69.05	>130		>130					

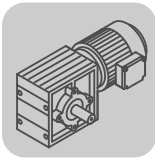


m kg		DRL				
	s	71S	71M	80S	80M	90L
W37	2	14	15	17	20	27
WF: + 0.0 kg / WA: + 0.0 kg / WAF: + 0.0 kg						

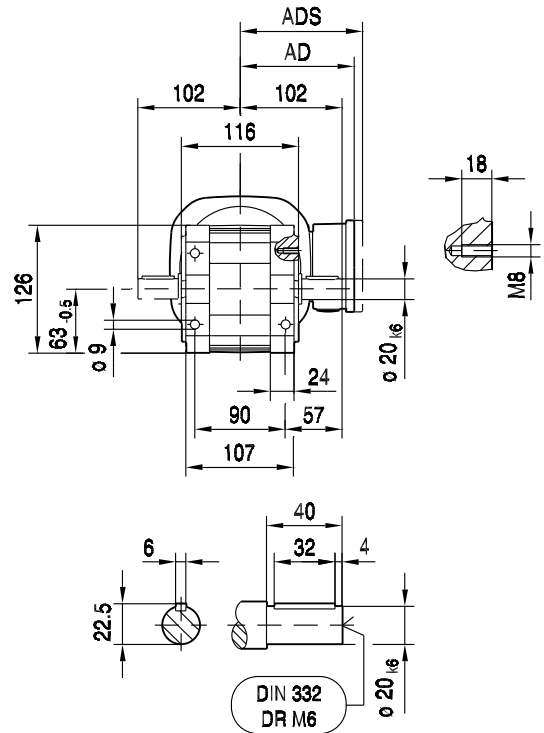
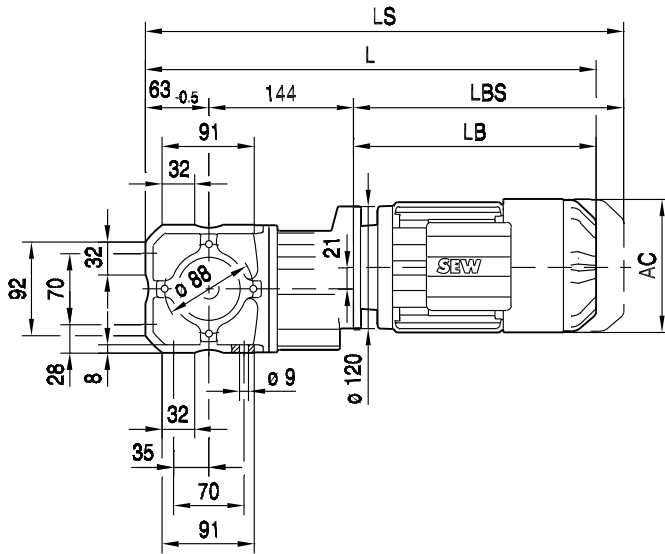
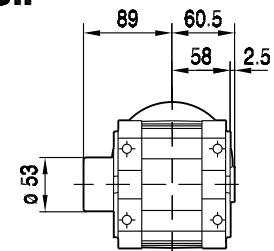
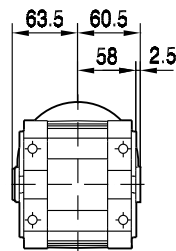
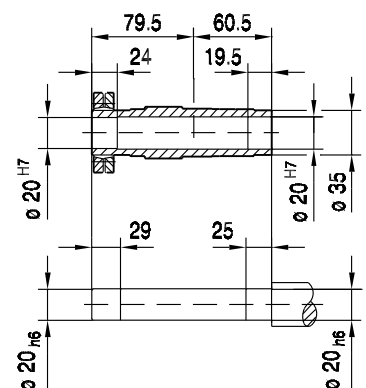
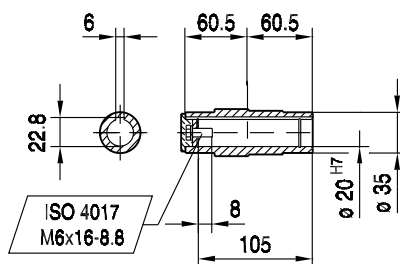
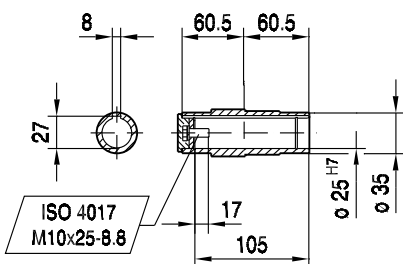


DRL..		n_{epk} 1/min	η %	W Nm/'	WF Nm/'	c_{TG} WA Nm/'	WAF Nm/'
W37  2	i	3.20	4500	93	-	-	-
	3.93	4500	92	-	-	-	-
	5.11	4500	92	-	-	-	-
	5.77	4500	92	-	-	-	-
	6.97	4500	92	-	-	-	-
	8.55	4500	91	-	-	-	-
	9.92	4500	91	-	-	-	-
	10.67	4500	87	-	-	-	-
	11.65	4500	91	-	-	-	-
	12.70	4500	91	-	-	-	-
	13.89	4500	86	-	-	-	-
	15.67	4500	86	-	-	-	-
	18.94	4500	85	-	-	-	-
	21.33	4500	76	-	-	-	-
	23.25	4500	84	-	-	-	-
	26.96	4500	83	-	-	-	-
	27.78	4500	74	-	-	-	-
	31.33	4500	73	-	-	-	-
	31.67	4500	82	-	-	-	-
	34.52	4500	81	-	-	-	-
	37.88	4500	72	-	-	-	-
	46.49	4500	70	-	-	-	-
	53.92	4500	69	-	-	-	-
	63.33	4500	67	-	-	-	-
	69.05	4500	67	-	-	-	-

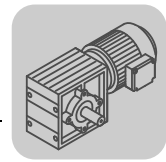
DRL..							F _{Ramax}				F _{Rapk}			
n _e = 1400		M _{amax} Nm	M _{apk} Nm	M _{aNotaus} Nm	n _{ak} 1/min	J _G 10 ⁻⁴ kgm ²	W N	WF N	WA N	WAF N	W N	WF N	WA N	WAF N
W37  2	3.20	70	84	119	2188	2.3	2220	2350	2050	2050	3690	3690	5000	5000
	3.93	70	84	119	1781	1.6	2410	2550	2240	2240	3690	3690	5000	5000
	5.11	70	84	119	1370	0.96	2680	2820	2490	2490	3690	3690	5000	5000
	5.77	70	84	119	1213	0.77	2810	2950	2620	2620	3690	3690	5000	5000
	6.97	70	84	119	1004	0.54	3020	3170	2830	2830	3690	3690	5000	5000
	8.55	70	84	119	819	0.37	3270	3420	3070	3070	3690	3690	5000	5000
	9.92	70	84	119	706	0.28	3460	3620	3250	3250	3690	3690	5000	5000
	10.67	90	108	153	150	0.80	2880	3140	2530	2530	3360	3360	5000	5000
	11.65	70	84	119	601	0.21	3680	3830	3460	3460	3690	3690	5000	5000
	12.70	70	84	119	551	0.18	3800	3830	3580	3580	3690	3690	5000	5000
	13.89	90	108	153	151	0.52	3250	3510	2890	2890	3360	3360	5000	5000
	15.67	90	108	153	147	0.42	3430	3610	3070	3070	3360	3360	5000	5000
	18.94	90	108	153	148	0.30	3610	3610	3360	3360	3360	3360	5000	5000
	21.33	110	110	144	66	0.71	3320	3320	2940	2940	3320	3320	5000	5000
	23.25	90	108	153	146	0.21	3610	3610	3690	3690	3360	3360	5000	5000
	26.96	90	108	153	145	0.16	3610	3610	3950	3950	3360	3360	5000	5000
	27.78	110	111	158	50	0.46	3320	3320	3400	3400	3300	3300	5000	5000
	31.33	110	117	166	45	0.38	3320	3320	3620	3620	2960	2960	5000	5000
	31.67	90	108	153	145	0.13	3610	3610	4240	4240	3360	3360	5000	5000
	34.52	90	108	153	145	0.11	3610	3610	4410	4410	3360	3360	5000	5000
	37.88	110	126	178	37	0.27	3320	3320	3990	3990	2080	2080	5000	5000
	46.49	110	130	187	32	0.19	3320	3320	4410	4410	1490	1490	5000	5000
	53.92	110	130	187	32	0.15	3320	3320	4730	4730	1490	1490	5000	5000
	63.33	110	126	178	36	0.12	3320	3320	5000	5000	2080	2080	5000	5000
	69.05	110	130	187	32	0.10	3320	3320	5000	5000	1490	1490	5000	5000


W37..

20 068 00 08

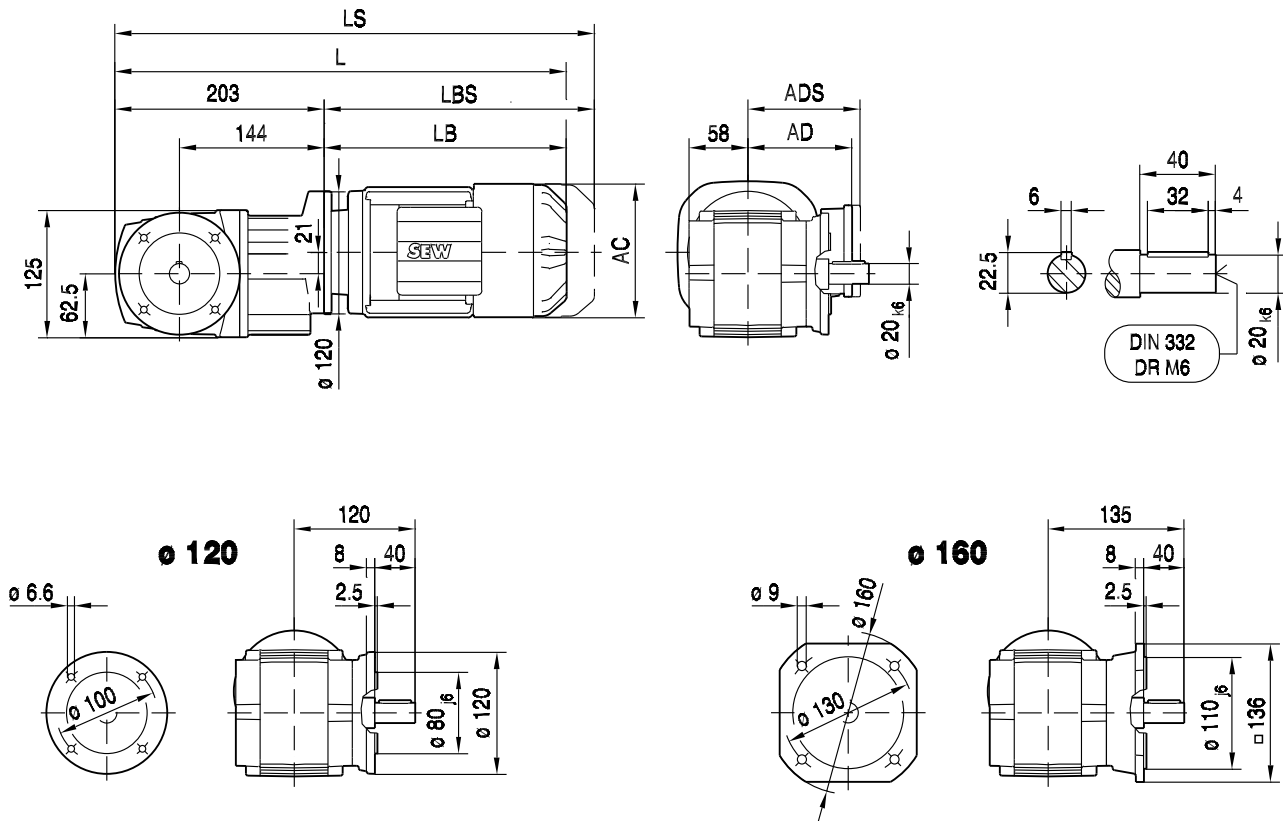

WA37B..
WH37B..

Ø 25 H7
Ø 20 H7


(→ 129)	DRL71S	DRL71M	DRL80S	DRL80M	DRL90L			
AC	139	139	156	156	179			
AD	119	119	128	128	140			
ADS	129	129	139	139	150			
L	495	520	539	570	587			
LS	559	584	619	650	673			
LB	288	313	332	363	380			
LBS	352	377	412	443	466			



20 069 00 08

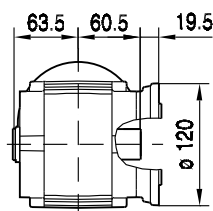
WF37..



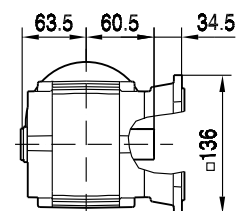
12

WAF37..

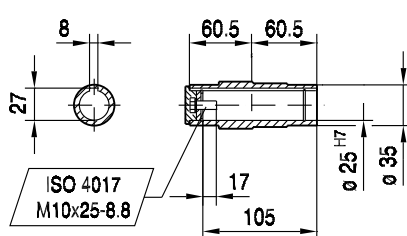
120



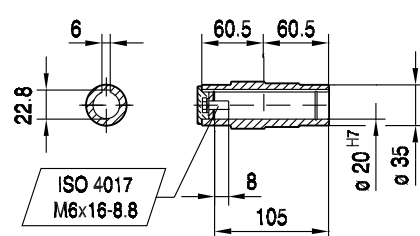
160



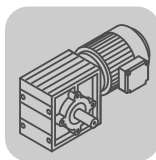
25 H7



20 H7

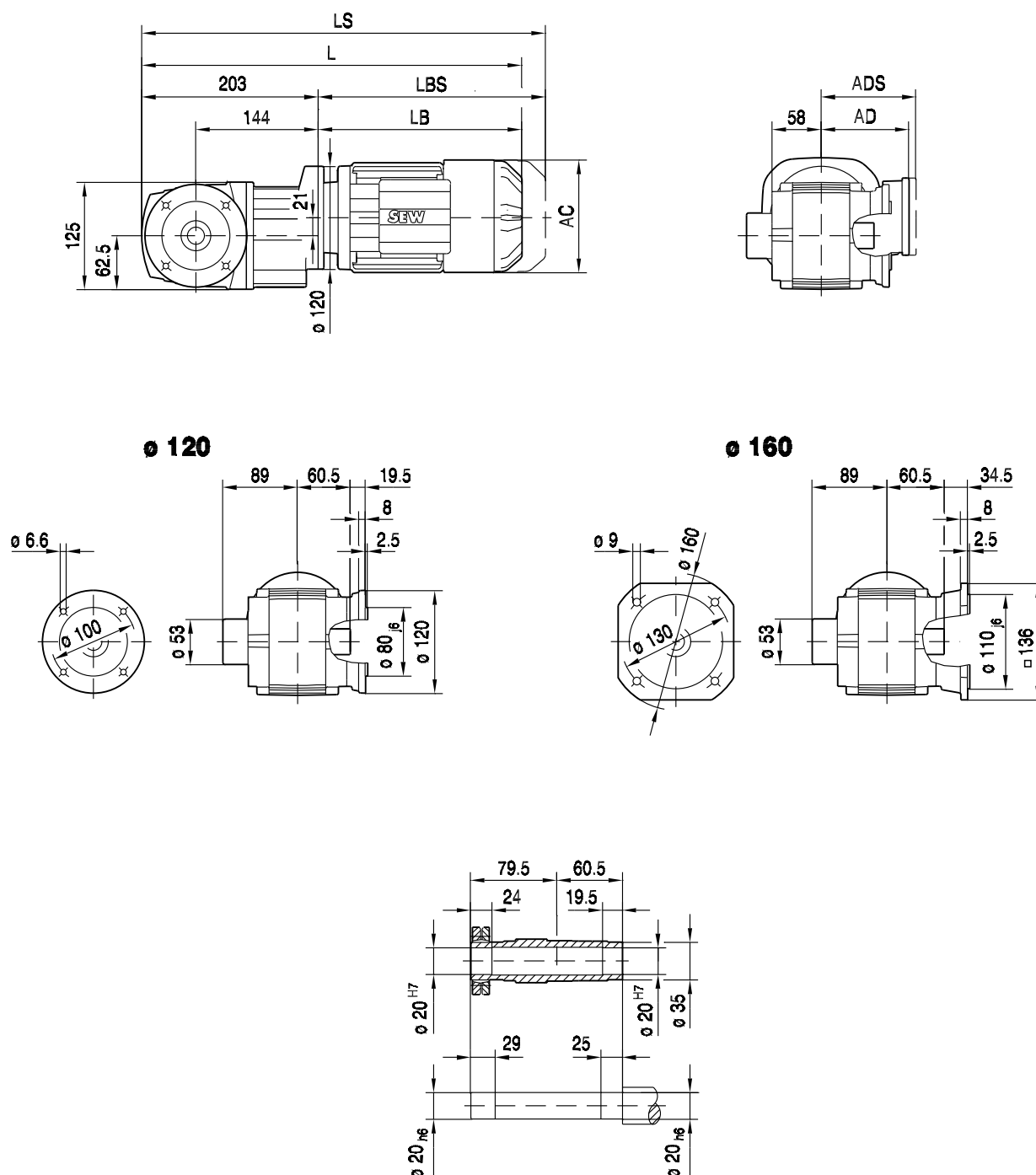


(→ 129)	DRL71S	DRL71M	DRL80S	DRL80M	DRL90L			
AC	139	139	156	156	179			
AD	119	119	128	128	140			
ADS	129	129	139	139	150			
L	491	516	535	566	583			
LS	555	580	615	646	669			
LB	288	313	332	363	380			
LBS	352	377	412	443	466			



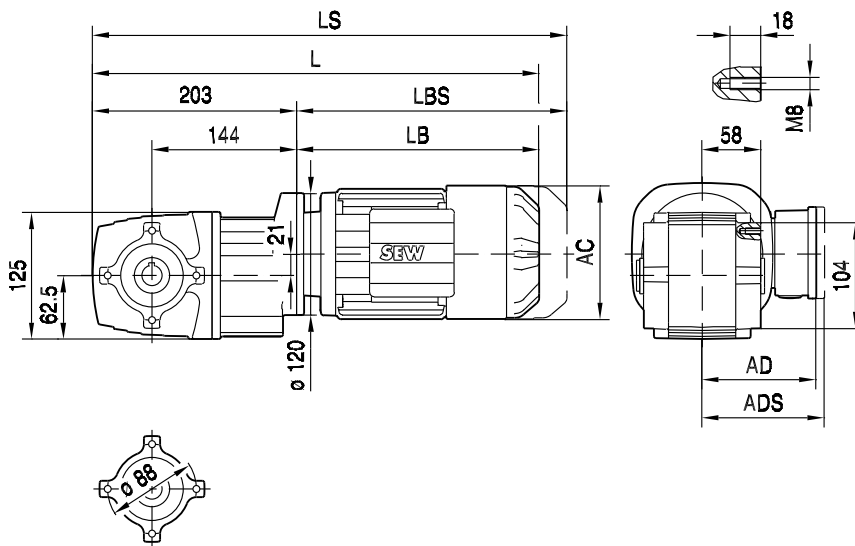
20 070 00 08

WHF37..



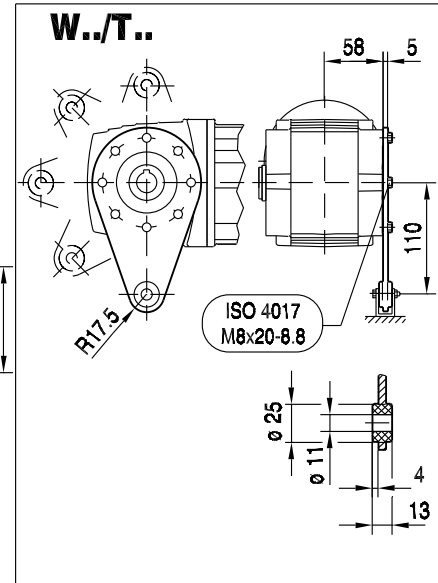
(→ 129)	DRL71S	DRL71M	DRL80S	DRL80M	DRL90L			
AC	139	139	156	156	179			
AD	119	119	128	128	140			
ADS	129	129	139	139	150			
L	491	516	535	566	583			
LS	555	580	615	646	669			
LB	288	313	332	363	380			
LBS	352	377	412	443	466			

WA37..

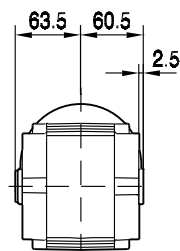


20 071 00 08

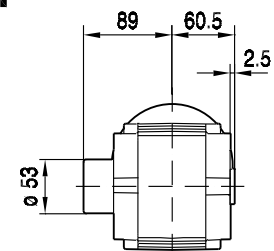
W../T..



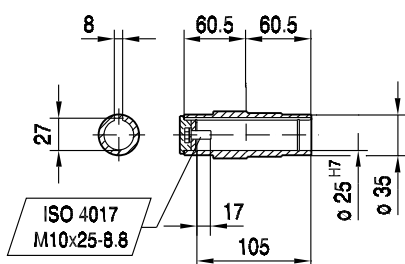
WA37..



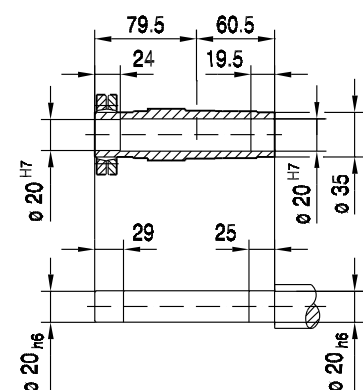
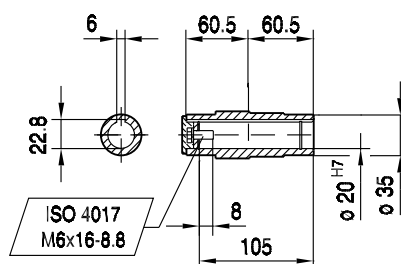
WH37..



Ø 25 H7

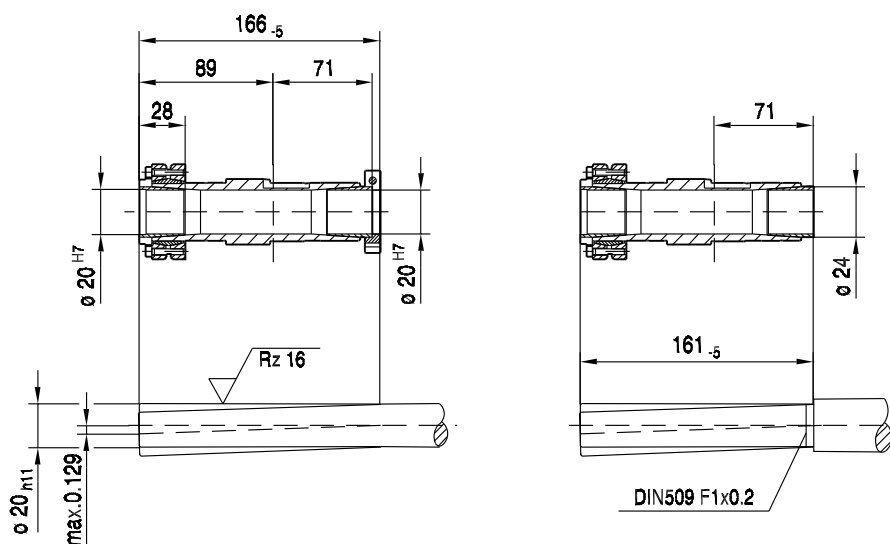
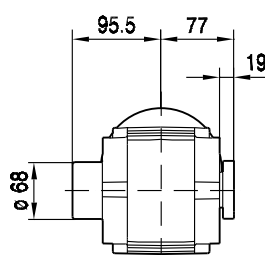
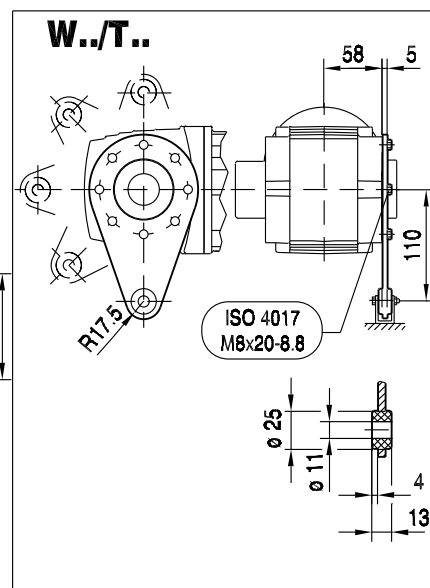


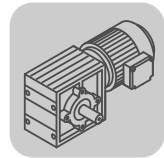
Ø 20 H7



(⇒  129)	DRL71S	DRL71M	DRL80S	DRL80M	DRL90L			
AC	139	139	156	156	179			
AD	119	119	128	128	140			
ADS	129	129	139	139	150			
L	491	516	535	566	583			
LS	555	580	615	646	669			
LB	288	313	332	363	380			
LBS	352	377	412	443	466			

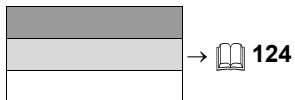
W../T..

470

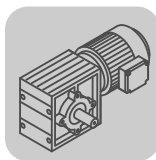


12.2.2 W 47

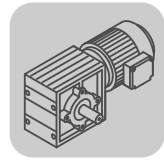
M _{aDyn} Nm	i	DRL										
		71S		71M		80S		80M		90L		100L
		D1	D2	D1	D2	D1	D2	D1	D2	D1	D2	D1
W47 2	3.27	16	26	22	43	31	78	40	103	78	>132	109
	3.89	18	31	26	52	37	92	48	122	92	>132	129
	4.40	21	36	29	59	42	105	54	>132	105	>132	>132
	5.23	25	42	35	70	50	124	65	>132	124	>132	>132
	5.58	27	45	37	74	53	>132	69	>132	>132	>132	>132
	6.53	31	52	43	86	61	>132	80	>132	>132	>132	>132
	7.32	34	58	48	96	69	>132	89	>132	>132	>132	>132
	8.61	40	69	57	113	81	>132	105	>132	>132		>132
	9.96	47	80	66	131	94	>132	122				
	10.66	50	85	70	>132	100	>132	130				
	11.32	50	85	70	139	100	>192	130	>192	>192	>192	>192
	12.30	57	97	80		114		>132				
	13.44	59	101	83	166	118	>192	154	>192	>192	>192	>192
	14.35	62	106	87	175	125	>192	162	>192	>192	>192	>192
	16.80	73	124	102	>192	146	>192	190	>192	>192	>192	>192
	18.82	81	138	113	>192	162	>192	>192	>192	>192	>192	>192
	22.15	95	162	133	>192	190	>192	>192	>192	>192		>192
	25.07	99	168	139	>215	198	>215	>215	>215	>215	>215	>215
	25.62	109	185	152	>192	>192	>192	>192				
	26.76	106	180	148	>215	210	>215	>215	>215	>215	>215	>215
	27.41	116	>192	163	>192	>192	>192	>192				
	31.33	122	205	171	>215	>215	>215	>215	>215	>215	>215	>215
	31.62	133	>192	186		>192		>192				
	35.09	135	>215	189	>215	>215	>215	>215	>215	>215	>215	>215
	41.30	157	>215	>215	>215	>215	>215	>215	>215	>215		>215
	47.78	179	>215	>215	>215	>215	>215	>215				
	51.12	189	>215	>215	>215	>215	>215	>215				
	58.98	>215	>215	>215		>215		>215				
	68.93	>215		>215								
	74.98	>215		>215								



m kg		DRL					
	s	71S	71M	80S	80M	90L	100L
W47	2	19	20	23	25	33	41
WF: + 0.5 kg / WA: + -1.5 kg / WAF: + -0.7 kg							

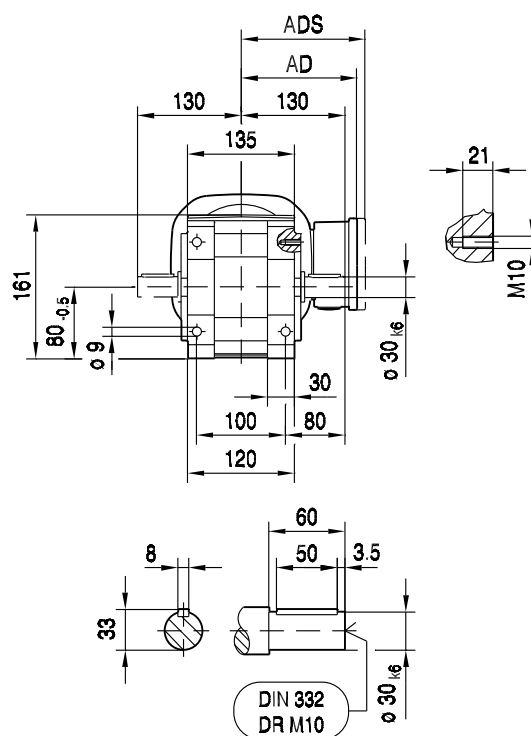


DRL..		n _{epk} 1/min	η %	W Nm/'	WF Nm/'	c _{TG}	
	i					WA Nm/'	WAF Nm/'
W47  2	3.27	4500	95	-	-	-	-
	3.89	4500	95	-	-	-	-
	4.40	4500	95	-	-	-	-
	5.23	4500	95	-	-	-	-
	5.58	4500	95	-	-	-	-
	6.53	4500	94	-	-	-	-
	7.32	4500	94	-	-	-	-
	8.61	4500	94	-	-	-	-
	9.96	4500	94	-	-	-	-
	10.66	4500	94	-	-	-	-
	11.32	4500	88	-	-	-	-
	12.30	4500	93	-	-	-	-
	13.44	4500	88	-	-	-	-
	14.35	4500	87	-	-	-	-
	16.80	4500	87	-	-	-	-
	18.82	4500	86	-	-	-	-
	22.15	4500	86	-	-	-	-
	25.07	4500	79	-	-	-	-
	25.62	4500	85	-	-	-	-
	26.76	4500	79	-	-	-	-
	27.41	4500	85	-	-	-	-
	31.33	4500	78	-	-	-	-
	31.62	4500	84	-	-	-	-
	35.09	4500	77	-	-	-	-
	41.30	4500	76	-	-	-	-
	47.78	4500	75	-	-	-	-
	51.12	4500	74	-	-	-	-
	58.98	4500	73	-	-	-	-
	68.93	4500	72	-	-	-	-
	74.98	4500	71	-	-	-	-

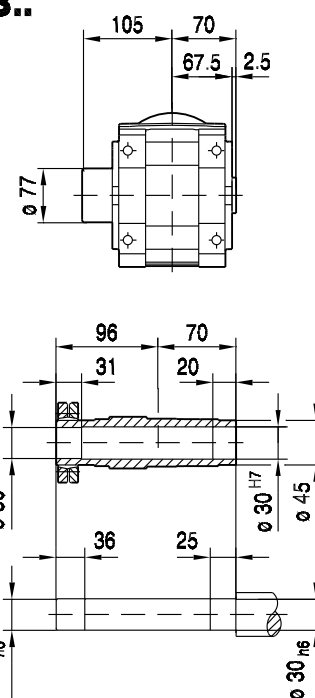
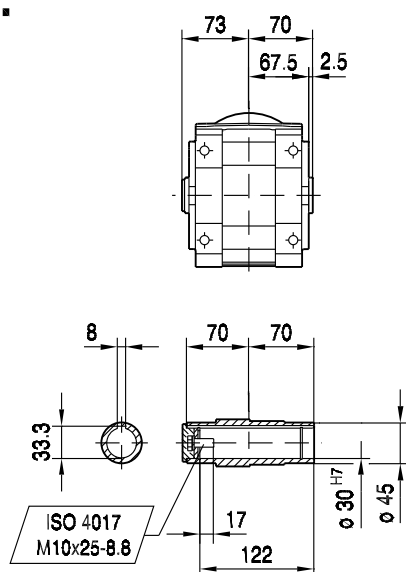


DRL... $n_e = 1400$							F_{Ramax}				F_{Rapk}			
	i	M_{amax} Nm	M_{apk} Nm	$M_{aNotaus}$ Nm	n_{ak} 1/min	$J_G \cdot 10^{-4}$ kgm ²	W N	WF N	WA N	WAF N	W N	WF N	WA N	WAF N
W47  2	3.27	110	132	198	2141	8.3	2660	3170	2440	2440	6990	7910	8000	8000
	3.89	110	132	198	1799	5.9	2860	3390	2640	2640	6990	7910	8000	8000
	4.40	110	132	198	1591	4.7	3020	3560	2790	2790	6990	7910	8000	8000
	5.23	110	132	198	1338	3.3	3240	3810	3010	3010	6990	7910	8000	8000
	5.58	110	132	198	1254	2.9	3320	3900	3090	3090	6990	7910	8000	8000
	6.53	110	132	198	1072	2.1	3540	4140	3310	3310	6990	7910	8000	8000
	7.32	110	132	198	956	1.7	3710	4330	3470	3470	6990	7910	8000	8000
	8.61	110	132	198	813	1.2	3960	4600	3720	3720	6990	7910	8000	8000
	9.96	110	132	198	703	0.96	4190	4860	3950	3950	6990	7910	8000	8000
	10.66	110	132	198	657	0.84	4300	4980	4060	4060	6990	7910	8000	8000
	11.32	160	192	285	292	1.6	3460	4350	2980	2980	6470	7600	8000	8000
	12.30	110	132	198	569	0.65	4550	5250	4300	4300	6990	7910	8000	8000
	13.44	160	192	285	171	1.2	3760	4680	3280	3280	6470	7600	8000	8000
	14.35	160	192	285	453	1.1	3880	4810	3400	3400	6470	7600	8000	8000
	16.80	160	192	285	286	0.77	4180	5140	3690	3690	6470	7600	8000	8000
	18.82	160	192	285	197	0.63	4410	5390	3920	3920	6470	7600	8000	8000
	22.15	160	192	285	307	0.46	4750	5770	4250	4250	6470	7600	8000	8000
	25.07	180	215	320	68	0.93	4430	5610	3800	3800	6160	7430	8000	8000
	25.62	160	192	285	195	0.37	5070	6120	4570	4570	6470	7600	8000	8000
	26.76	180	215	320	67	0.82	4580	5770	3940	3940	6160	7430	8000	8000
	27.41	160	192	285	157	0.33	5220	6290	4720	4720	6470	7600	8000	8000
	31.33	180	215	320	54	0.60	4950	6180	4310	4310	6160	7430	8000	8000
	31.62	160	192	285	221	0.26	5560	6660	5050	5050	6470	7600	8000	8000
	35.09	180	215	320	125	0.49	5230	6490	4580	4580	6160	7430	8000	8000
	41.30	180	215	320	77	0.36	5650	6950	4990	4990	6160	7430	8000	8000
	47.78	180	215	320	48	0.29	6040	7380	5380	5380	6160	7430	8000	8000
	51.12	180	215	320	102	0.26	6230	7580	5570	5570	6160	7430	8000	8000
	58.98	180	215	320	66	0.21	6400	7580	5980	5980	6160	7430	8000	8000
	68.93	180	215	320	41	0.16	6400	7580	6450	6450	6160	7430	8000	8000
	74.98	180	215	320	32	0.14	6400	7580	6710	6710	6160	7430	8000	8000

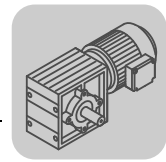
20 073 00 08



WH47B..

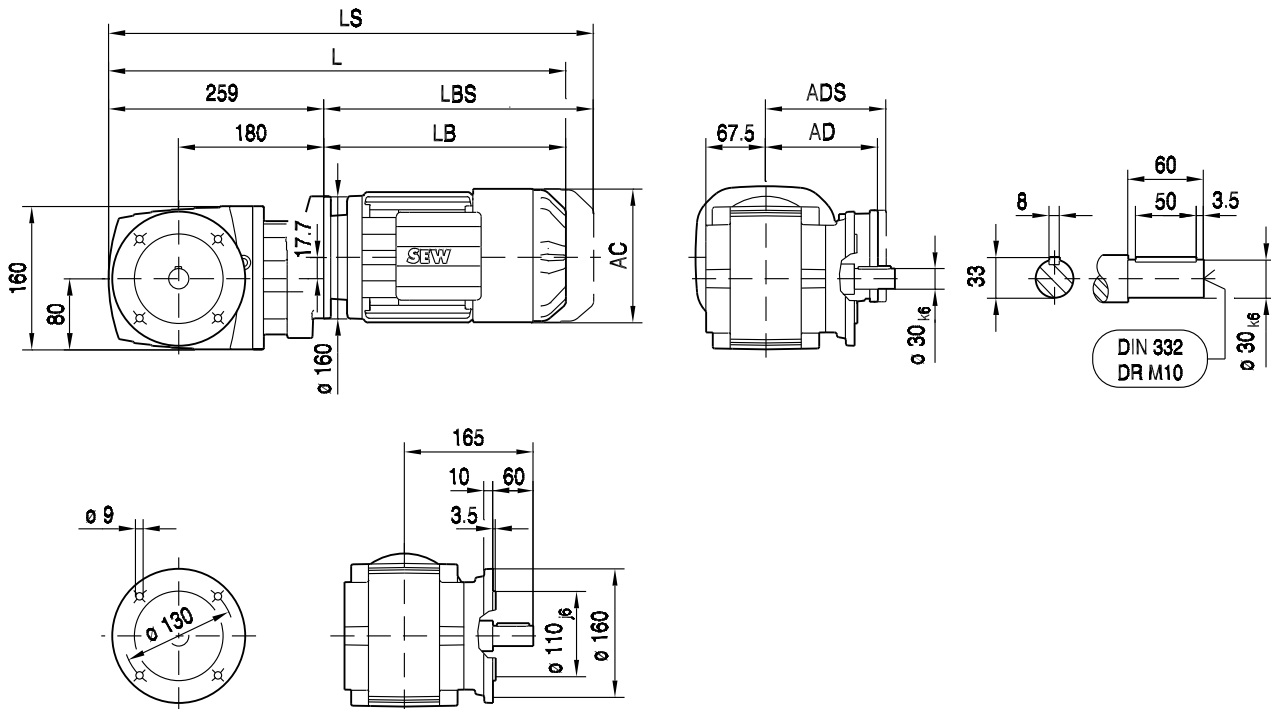


(→  129)	DRL71S	DRL71M	DRL80S	DRL80M	DRL90L	DRL100L	DRL132S	
AC	139	139	156	156	179	197	221	
AD	119	119	128	128	140	157	170	
ADS	129	129	139	139	150	158	172	
L	541	566	587	618	632	691	776	
LS	606	631	667	698	718	778	884	
LB	280	305	326	357	371	430	515	
LBS	345	370	406	437	457	517	623	

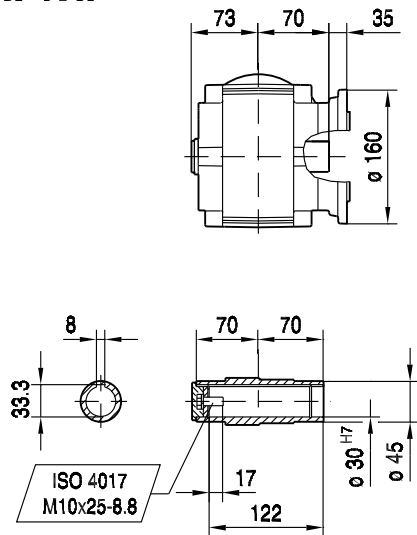


20 074 00 08

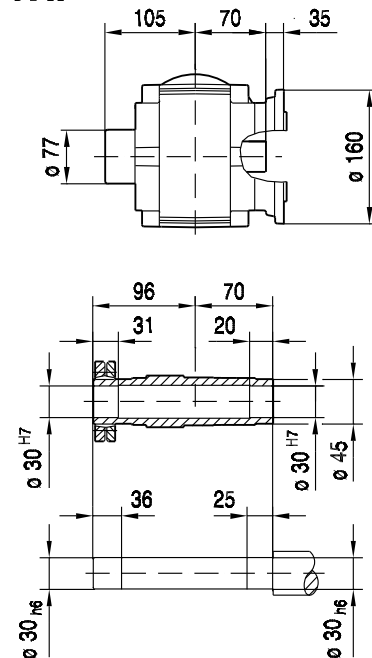
WF47..



WAF47..

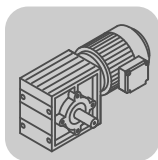
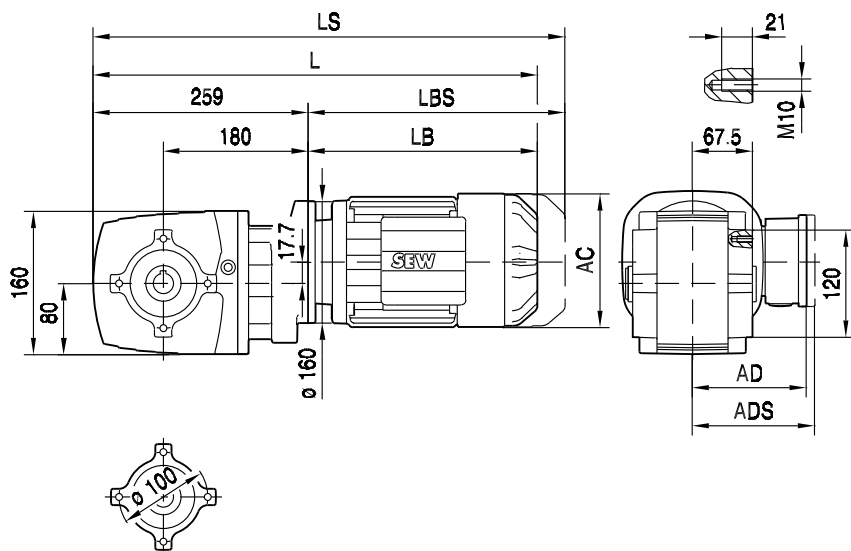
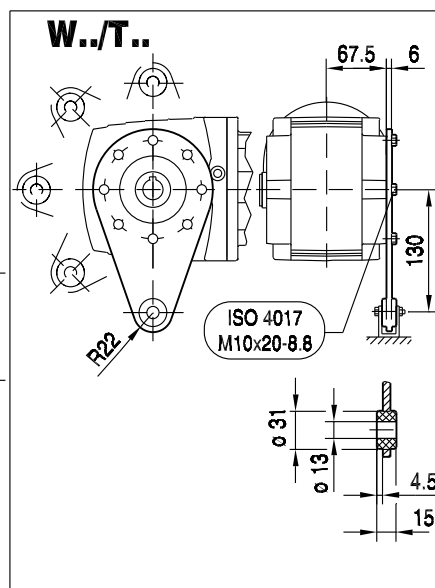
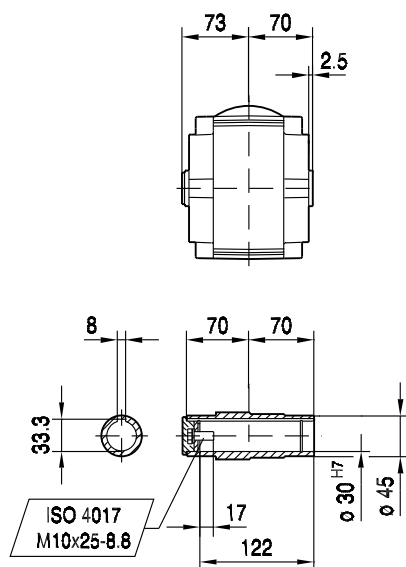
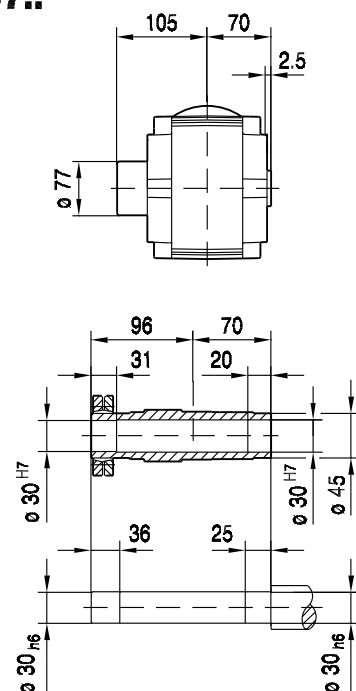


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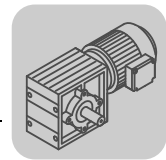


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(→ 129)	DRL71S	DRL71M	DRL80S	DRL80M	DRL90L	DRL100L	DRL132S	
AC	139	139	156	156	179	197	221	
AD	119	119	128	128	140	157	170	
ADS	129	129	139	139	150	158	172	
L	540	565	586	617	631	690	775	
LS	605	630	666	697	717	777	883	
LB	280	305	326	357	371	430	515	
LBS	345	370	406	437	457	517	623	

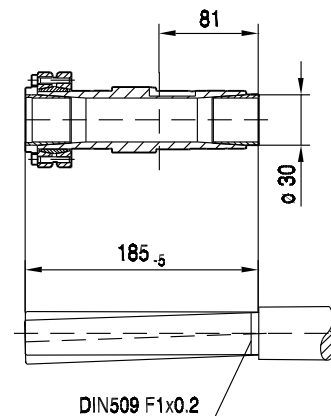
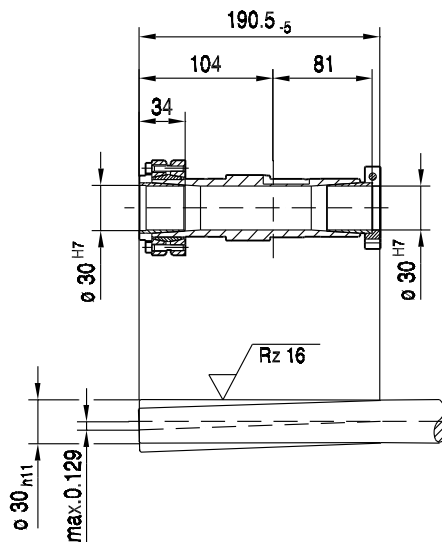
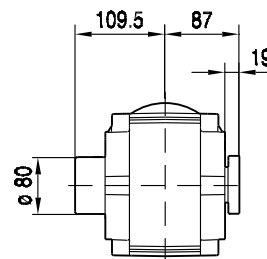
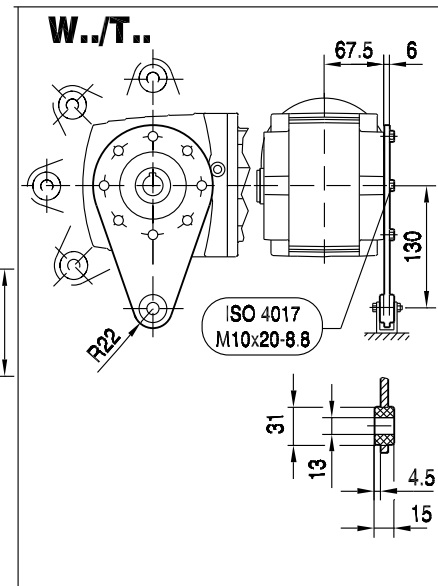
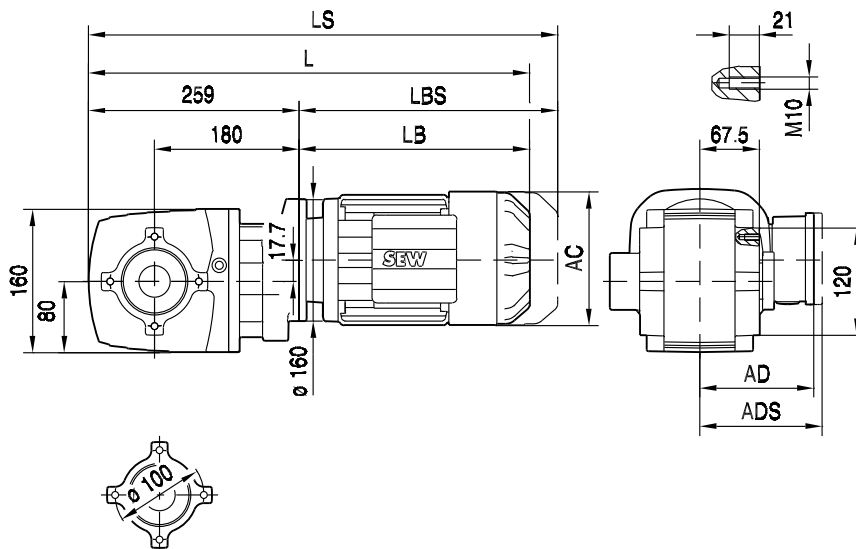

WA47..

20 075 00 08

WA47..

WH47..


(→ 129)	DRL71S	DRL71M	DRL80S	DRL80M	DRL90L	DRL100L	DRL132S	
AC	139	139	156	156	179	197	221	
AD	119	119	128	128	140	157	170	
ADS	129	129	139	139	150	158	172	
L	540	565	586	617	631	690	775	
LS	605	630	666	697	717	777	883	
LB	280	305	326	357	371	430	515	
LBS	345	370	406	437	457	517	623	

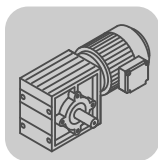


WT47..

20 076 00 08



(→ 129)	DRL71S	DRL71M	DRL80S	DRL80M	DRL90L	DRL100L	DRL132S	
AC	139	139	156	156	179	197	221	
AD	119	119	128	128	140	157	170	
ADS	129	129	139	139	150	158	172	
L	540	565	586	617	631	690	775	
LS	605	630	666	697	717	777	883	
LB	280	305	326	357	371	430	515	
LBS	345	370	406	437	457	517	623	



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