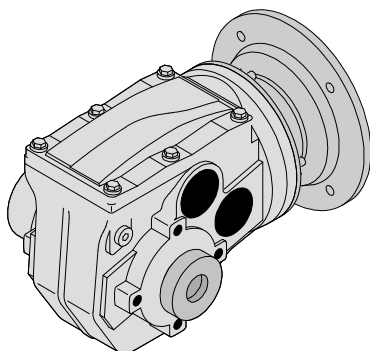
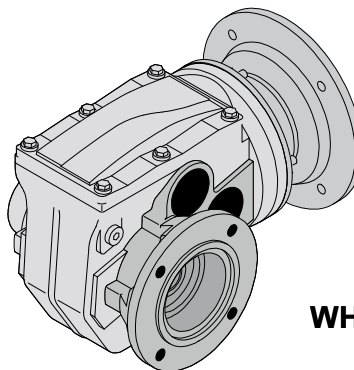
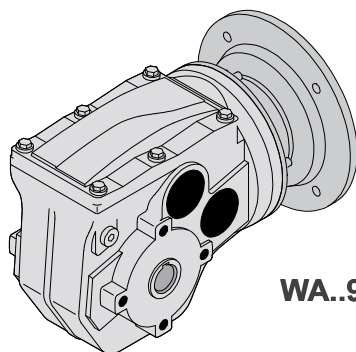
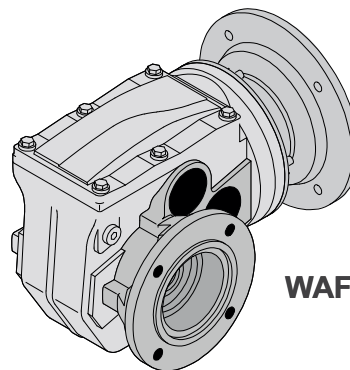
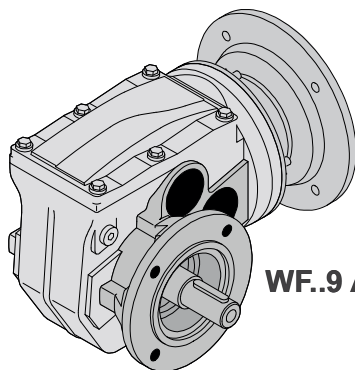


12 SPIROPLAN® W.. gear units**12.1 Selection tables for adapters for mounting IEC/NEMA motors (AMS..)****WT..9 AMS..****WHF..9 AMS..****WA..9 AMS..****WAF..9 AMS..****WF..9 AMS..**

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WA19, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					80 Nm		
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{(1)}$ N	$\varphi_{(R)}$ °	63	AMS 71	80
 2							
5.90	237	34	1850	-	32	32	34
6.49	216	32	1970	-	32	32	32
7.62	184	43	1970	-	42	42	43
8.38	167	41	2090	-	41	41	41
9.31	150	50	2140	-	50	50	50
10.24	137	50	2200	-	50	50	50
12.16	115	56	2200	-	56	56	56
13.38	105	57	2200	-	57	57	57
16.16	87	62	2200	-	62	62	62
17.77	79	63	2200	-	63	63	63
20.86	67	61	2200	-	59	59	61
27.71	51	68	2200	-	68	68	68
 3							
30.68	46	80	2200	-	80	80	80
33.74	41	80	2200	-	80	80	80
40.07	35	80	2200	-	80	80	80
44.07	32	80	2200	-	80	80	80
47.28	30	80	2200	-	80	80	80
52.61	27	80	2200	-	80	80	80
56.14	25	80	2200	-	80	80	80
61.75	23	80	2200	-	80	80	80
68.71	20	80	2200	-	80	80	80
74.57	19	80	2200	-	80	80	80
82.03	17	80	2200	-	80	80	80
90.04	16	80	2200	-	80	80	
96.28	15	80	2200	-	80	80	80
119.61	12	80	2200	-	80	80	
127.90	11	80	2200	-	80	80	80
167.59	8.4	80	2200	-	80	80	

WA19, m /kg			AMS		
WA	IEC	s	63	71	80
		 2	4.7	4.9	6.7
		 3	5.1	5.4	7.2
	NEMA	s	-	56	-
		 2	-	5.9	-
		 3	-	6.3	-
WAF: + 0.15 kg / WF: + 0.75 kg					

WA29, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					130 Nm		
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{(1)}$ N	$\varphi_{(R)}$ °	AMS		
					63	71	80
 2							
4.68	299	43	2640	-	26	26	43
5.09	275	43	2740	-	28	28	43
5.60	250	41	2890	-	28	28	41
6.68	210	62	2860	-	37	37	62
7.27	193	62	2960	-	40	40	62
8.00	175	58	3160	-	41	41	58
9.66	145	89	3190	-	53	53	89
10.51	133	90	3300	-	58	58	90
11.56	121	85	3510	-	59	59	85
13.57	103	124	3360	-	75	75	124
14.77	95	126	3480	-	81	81	126
16.25	86	120	3710	-	83	83	120
19.45	72	130	4000	-	108	108	130
21.17	66	130	4160	-	117	117	130
23.29	60	130	4340	-	120	120	130
 3							
25.89	54	130	4350	-	130	130	130
28.17	50	130	4520	-	130	130	130
30.99	45	130	4720	-	130	130	130
36.38	38	130	5000	-	130	130	130
38.73	36	130	5000	-	130	130	130
43.54	32	130	5000	-	130	130	130
49.58	28	130	5000	-	130	130	130
52.14	27	130	5000	-	130	130	130
56.74	25	130	5000	-	130	130	130
62.41	22	130	5000	-	130	130	130
69.68	20	130	5000	-	130	130	130
74.19	19	130	5000	-	130	130	130
78.02	18	130	5000	-	130	130	130
83.41	17	130	5000	-	130	130	130
93.58	15	130	5000	-	130	130	
99.87	14	130	5000	-	130	130	130
108.68	13	130	5000	-	130	130	130
119.55	12	130	5000	-	130	130	130
131.50	11	130	5000	-	130	130	
149.43	9.4	130	5000	-	130	130	130
188.47	7.4	130	5000	-	130	130	

WA29, m /kg			AMS		
WA	IEC	s	63	71	80
		 2	6.6	6.9	8.7
		 3	6.8	7.1	8.9
	NEMA	s	-	56	143
		 2	-	7.8	8.5
		 3	-	8.1	8.8
WAF: + 0.25 kg / WF: + 0.65 kg					

WA39, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					200 Nm			
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{(1)}$ N	$\varphi_{(R)}$ °	AMS			
					63	71	80	90
 2								
4.72	297	59	2160	-	29	29	47	57
5.14	272	59	2250	-	30	30	51	59
5.65	248	66	2240	-	32	32	55	62
6.35	220	80	2280	-	39	39	64	77
6.91	203	80	2380	-	41	41	69	80
7.61	184	88	2380	-	43	43	74	84
9.14	153	124	2350	-	57	57	92	112
9.94	141	127	2430	-	59	59	100	115
10.94	128	125	2580	-	62	62	107	121
13.27	106	175	2350	-	83	83	134	162
14.44	97	175	2480	-	86	86	146	167
15.89	88	170	2690	-	90	90	156	170
19.78	71	200	2890	-	124	124	200	200
21.53	65	200	3030	-	128	128	200	200
23.68	59	200	3200	-	135	135	200	200
 3								
28.38	49	196	3240	-	176	176	196	196
30.88	45	196	3400	-	181	181	196	196
33.97	41	196	3590	-	191	191	196	196
41.22	34	200	4090	-	200	200	200	200
44.85	31	200	4280	-	200	200	200	200
49.34	28	200	4490	-	200	200	200	200
53.04	26	186	4690	-	186	186	186	186
58.34	24	186	4920	-	186	186	186	186
61.43	23	200	5220	-	200	200	200	200
66.85	21	200	5430	-	200	200	200	200
70.79	20	200	5380	-	200	200	200	200
73.53	19	200	5680	-	200	200	200	200
77.03	18	200	5600	-	200	200	200	200
84.74	17	200	5860	-	200	200	200	200
91.92	15	200	6280	-	200	200	200	
97.24	14	186	6270	-	186	186	186	
105.50	13	200	6680	-	200	200	200	200
114.81	12	200	6820	-	200	200	200	200
126.29	11	200	6820	-	200	200	200	200
141.23	9.9	200	6620	-	200	200	200	
157.87	8.9	200	6820	-	200	200	200	
210.49	6.7	200	6820	-	200	200	200	

WA39, m /kg			AMS			
WA	IEC	s	63	71	80	90
		 2	8.1	8.3	10	11
		 3	8.8	9.1	11	11
	NEMA	s	-	56	143	145
		 2	-	9.3	10.0	10
		 3	-	10	11	11

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WA39, m /kg	AMS
WAF: + 0.80 kg / WF: + 1.7 kg	

WA49, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					400 Nm				
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{(1)}$ N	$\varphi_{(R)}$ °	63	71	AMS 80	90	100
 2									
7.22	194	138	3060	-	47	47	85	103	138
7.88	178	149	3070	-	51	51	90	107	149
8.67	161	131	3440	-	55	55	89	108	131
10.13	138	193	3140	-	66	66	119	144	193
11.05	127	205	3120	-	72	72	126	150	209
12.16	115	184	3570	-	78	78	125	152	184
14.12	99	265	3120	-	93	93	166	200	269
15.40	91	290	3080	-	100	100	176	205	290
16.94	83	255	3610	-	108	108	174	210	258
18.91	74	325	3300	-	124	124	220	270	327
20.63	68	335	3420	-	135	135	235	280	335
22.69	62	340	3560	-	145	145	230	285	342
 3									
26.11	54	375	3040	-	169	169	300	365	378
28.48	49	375	3250	-	184	184	320	378	378
31.33	45	375	3490	-	198	198	315	378	378
36.38	38	400	3960	-	235	235	400	400	400
39.69	35	400	4200	-	255	255	400	400	400
43.66	32	400	4470	-	275	275	400	400	400
48.73	29	395	5040	-	315	315	396	396	396
53.16	26	395	5310	-	340	340	396	396	396
58.48	24	395	5600	-	370	370	396	396	396
61.58	23	400	5200	-	395	395	400	400	400
67.73	21	400	5510	-	400	400	400	400	400
70.25	20	395	6000	-	385	385	396		
78.66	18	400	6000	-	400	400	400	400	400
85.81	16	400	6000	-	400	400	400	400	400
92.86	15	395	6000	-	375	375	396		
94.39	15	400	6000	-	400	400	400	400	400
105.36	13	395	6000	-	396	396	396	396	396
114.94	12	395	6000	-	396	396	396	396	396
126.43	11	395	6000	-	396	396	396	396	396
149.88	9.3	400	6000	-	400	400	400		
151.87	9.2	395	6000	-	396	396	396		
200.76	7.0	395	6000	-	396	396	396		

WA49, m /kg			AMS				
WA	IEC	s	63	71	80	90	100
			12	12	14	15	19
			14	14	16	17	21
	NEMA	s	-	56	143	145	182
			-	14	14	14	18
			-	15	16	16	20
WAF: + 0.75 kg / WF: + 1.5 kg							

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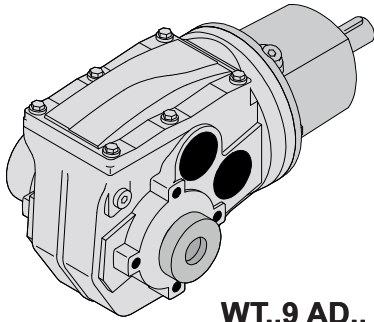
WA59, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					600 Nm					
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{(1)}$ N	$\varphi_{(R)}$ °	AMS					
					63	71	80	90	100	112
 2										
6.76	207	172	4160	-	44	44	82	107	171	172
7.49	187	189	4180	-	48	48	93	111	189	189
8.18	171	157	4730	-	53	53	100	113	157	
9.39	149	240	4350	-	61	61	114	149	235	240
10.41	134	260	4350	-	67	67	129	154	262	262
11.35	123	215	5040	-	74	74	139	157	217	
13.31	105	355	4200	-	87	87	162	210	335	357
14.75	95	370	4330	-	96	96	184	215	371	371
16.09	87	310	5170	-	105	105	198	220	310	
18.72	75	480	4080	-	123	123	225	295	470	481
20.74	68	515	4060	-	135	135	255	305	515	515
22.63	62	440	5000	-	148	148	275	310	444	
24.89	56	385	5840	-	160	160	255	310	387	
 3										
27.81	50	505	4560	-	181	181	335	435	505	505
30.82	45	520	4740	-	198	198	380	450	520	520
33.62	42	520	5040	-	215	215	405	460	520	
36.98	38	520	5380	-	235	235	380	460	520	
39.41	36	550	5670	-	255	255	475	550	550	550
43.67	32	570	5860	-	280	280	535	570	570	570
47.64	29	590	6000	-	305	305	575	590	590	
52.40	27	600	6280	-	330	330	540	600	600	
55.44	25	600	6730	-	360	360	600	600	600	600
61.43	23	600	7160	-	395	395	600	600	600	600
67.02	21	600	7540	-	430	430	600	600	600	
73.72	19	600	7960	-	470	470	600	600	600	
76.29	18	600	7900	-	495	495	600	600	600	600
84.54	17	600	8000	-	540	540	600	600	600	600
92.23	15	600	8000	-	595	595	600	600	600	
101.45	14	600	8000	-	600	600	600	600	600	
107.33	13	600	8000	-	600	600	600	600	600	600
118.93	12	600	8000	-	600	600	600	600	600	600
129.74	11	600	8000	-	600	600	600	600	600	
142.72	9.8	600	8000	-	600	600	600	600	600	
151.56	9.2	600	8000	-	600	600	600			
213.21	6.6	600	8000	-	600	600	600			

WA59, m /kg			AMS					
WA	IEC	s	63	71	80	90	100	112
		 2	15	16	18	18	22	22
		 3	18	18	20	21	25	25
	NEMA	s	-	56	143	145	182	184
		 2	-	17	17	18	21	21
		 3	-	19	20	20	24	24

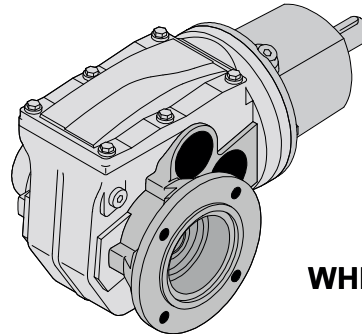
WAF: + 1.3 kg / WF: + 2.8 kg

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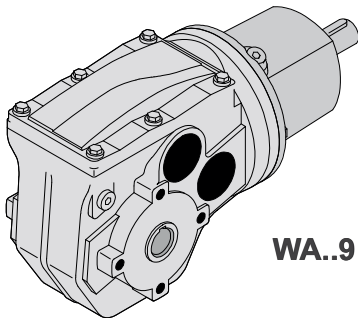
12.2 Selection tables for input shaft assembly (AD..)



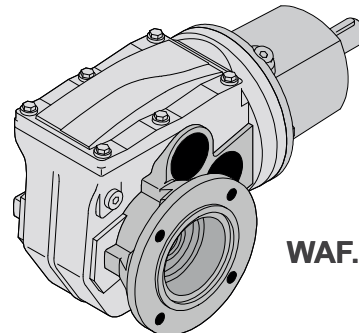
WT..9 AD..



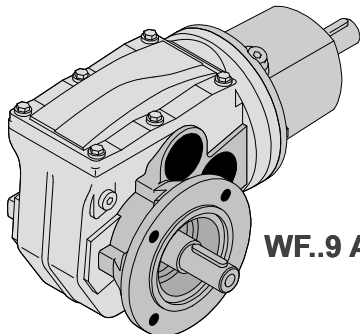
WHF..9 AD..



WA..9 AD..



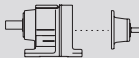
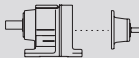
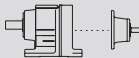
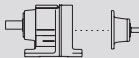
WAF..9 AD..



WF..9 AD..

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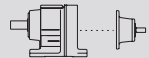
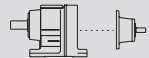
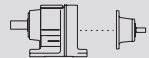
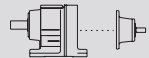
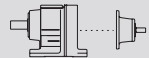
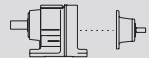
WA19 AD.. , n _e = 1400 min ⁻¹								80 Nm		
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	Φ _(/R)			m kg	
167.59	8.3	80	0.08	2200	810	-	-	 WA 19 AD01 4.0 754 WAF 19 AD01 4.2 754 WF 19 AD01 4.8 754		
127.90	11	80	0.10	2200	820	-	-			
119.61	12	80	0.11	2200	755	-	-			
96.28	15	80	0.14	2200	785	-	-			
90.04	16	80	0.15	2200	630	-	-			
82.03	17	80	0.15	2200	840	-	-			
74.57	19	80	0.17	2200	840	-	-			
68.71	20	80	0.19	2200	680	-	-			
61.75	23	80	0.20	2200	810	-	-			
56.14	25	80	0.22	2200	810	-	-			
52.61	27	80	0.25	2200	535	-	-			
47.28	30	80	0.27	2200	775	-	-			
44.07	32	80	0.29	2200	750	-	-			
40.07	35	80	0.31	2200	740	-	-			
33.74	41	80	0.37	1980	630	-	-			
30.68	46	80	0.41	1890	615	-	-			
27.71	51	68	0.40	2000	179	-	-	 WA 19 AD01 3.6 754 WAF 19 AD01 3.7 754 WF 19 AD01 4.3 754		
20.86	67	60	0.46	1810	14	-	-			
17.77	79	63	0.55	1680	390	-	-			
16.16	87	62	0.59	1620	380	-	-			
13.38	105	57	0.66	1510	235	-	-			
12.16	115	56	0.71	1460	230	-	-			
10.24	137	50	0.76	1370	104	-	-			
9.31	150	50	0.83	1310	76	-	-			
8.38	167	41	0.76	1280	102	-	-			
7.62	184	43	0.87	1200	22	-	-			
6.49*	216	32	0.77	1210	94	-	-	 WA 19 AD01 3.6 754 WAF 19 AD01 3.7 754 WF 19 AD01 4.3 754		
5.90	237	33	0.86	1140	32	-	-			

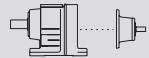
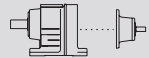
WA29 AD.. , n _e = 1400 min ⁻¹								130 Nm		
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	Φ _(/R)			m kg	
188.47	7.4	130	0.13	3490	720	-	-	 WA 29 AD1 6.5 754 WAF 29 AD1 6.8 754 WF 29 AD1 7.2 754		
149.43	9.4	130	0.15	3490	740	-	-			
131.50	11	130	0.17	3490	595	-	-			
119.55	12	130	0.19	3490	745	-	-			
108.68	13	130	0.20	3490	740	-	-			
99.87	14	130	0.22	3490	730	-	-			
93.58	15	130	0.24	3490	430	-	-			
83.41	17	130	0.26	3490	650	-	-			
78.02	18	130	0.28	3490	530	-	-			
74.19	19	130	0.29	3490	505	-	-			
69.68	20	130	0.31	3490	610	-	-			
62.41	22	130	0.34	3490	525	-	-			
56.74	25	130	0.37	3490	515	-	-			
52.14	27	130	0.40	3490	480	-	-			
49.58	28	130	0.42	3490	450	-	-			
43.54	32	130	0.49	3490	320	-	-			
38.73*	36	130	0.55	3390	45	-	-			
36.38	38	130	0.57	3370	250	-	-			
30.99*	45	130	0.68	3070	41	-	-			
28.17	50	130	0.74	2940	17	-	-			
25.89	54	130	0.81	2830	1560	-	-	WA 29 AD2 7.7 754 WAF 29 AD2 7.9 754 WF 29 AD2 8.3 754		

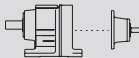
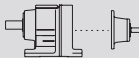
WA29 AD.. , n _e = 1400 min ⁻¹								130 Nm		
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	Φ _(R)			m kg	
23.29	60	130	0.90	2820	1500	-	-		7.4	
21.17	66	130	0.97	2700	1490	-	-			
19.45	72	130	1.1	2600	1460	-	-			
16.25	86	120	1.2	2410	1370	-	-			
14.77	95	111	1.2	2380	1400	-	-			
13.57	103	102	1.2	2360	1400	-	-			
11.56*	121	85	1.2	2280	1370	-	-			
10.51	133	79	1.2	2240	1400	-	-			
9.66	145	72	1.2	2220	1400	-	-			
8.00	175	58	1.2	2050	1380	-	-			
7.27	193	55	1.2	2000	1390	-	-			
6.68	210	50	1.2	1980	1400	-	-			
5.60	250	41	1.2	1880	1370	-	-			
5.09	275	38	1.2	1840	1400	-	-			
4.68	299	35	1.2	1810	1400	-	-			
								WAF 29	AD2	7.7
								WF 29	AD2	8.0

WA39 AD.. , n _e = 1400 min ⁻¹								200 Nm			
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	Φ _(R)			m kg		
210.49	6.7	200	0.17	4410	635	-	-		8.6	754	
157.87	8.9	200	0.21	4410	665	-	-				
141.23	9.9	200	0.25	4260	455	-	-				
126.29	11	200	0.26	4410	680	-	-				
114.81	12	200	0.29	4410	660	-	-				
105.50	13	200	0.31	4320	650	-	-				
97.24	14	186	0.33	4040	260	-	-				
91.92	15	200	0.36	4060	415	-	-				
84.74	17	200	0.39	3760	520	-	-				
77.03	18	200	0.42	3600	495	-	-				
73.53	19	200	0.45	3670	445	-	-				
70.79	20	200	0.45	3450	480	-	-				
66.85	21	200	0.48	3510	415	-	-				
61.43	23	200	0.52	3370	395	-	-				
58.34	24	186	0.52	3170	350	-	-				
53.04	26	186	0.56	3020	310	-	-				
49.34	28	200	0.66	2880	170	-	-				
44.85	31	200	0.71	2740	124	-	-				
41.22	34	200	0.77	2620	99	-	-				
33.97	41	196	0.94	2310	1520	-	-	WA 39	AD2	9.7	754
30.88	45	196	1.0	2190	1500	-	-	WAF 39	AD2	10	754
28.38	49	196	1.1	2080	1480	-	-	WF 39	AD2	11	754
23.68*	59	200	1.3	2070	1350	-	-		8.9	754	
21.53	65	200	1.5	1960	1320	-	-				
19.78	71	200	1.6	1870	1300	-	-				
15.89	88	156	1.6	1830	1130	-	-				
14.44	97	146	1.6	1810	1230	-	-				
13.27	105	134	1.6	1820	1300	-	-				
10.94	128	108	1.6	1800	1120	-	-				
9.94	141	100	1.6	1780	1240	-	-				
9.14	153	92	1.6	1780	1300	-	-				
7.61	184	74	1.5	1670	1150	-	-				
6.91	202	70	1.6	1640	1230	-	-				
6.35	220	64	1.6	1630	1300	-	-				
5.65	248	56	1.6	1560	1110	-	-				
5.14	272	52	1.6	1530	1230	-	-				
4.72	296	48	1.6	1520	1290	-	-				

WA49 AD.. , $n_e = 1400 \text{ min}^{-1}$								400 Nm		
i	n_a min^{-1}	M_{amax} Nm	P_e kW	$F_{Ra}^{(1)}$ N	F_{Re} N	$\Phi_{(R)}$			m kg	
200.76	7.0	390	0.33	6000	1730	-	-		15	754
151.87	9.2	390	0.42	6000	1730	-	-		15	754
149.88	9.3	400	0.45	6000	1660	-	-		16	754

WA49 AD.. , n _e = 1400 min ⁻¹									400 Nm			
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ⁽¹⁾ N	F _{Re} N	φ _(R)				m kg		
126.43	11	390	0.53	6000	2730	-	-		WA 49	AD3	18	754
114.94	12	390	0.57	6000	2730	-	-		WAF 49	AD3	18	754
105.36	13	390	0.62	6000	2720	-	-		WF 49	AD3	19	754
94.39	15	400	0.69	6000	1660	-	-					
92.86	15	390	0.69	6000	1520	-	-					
85.81	16	400	0.75	6000	1650	-	-		WA 49	AD2	15	754
78.66	18	400	0.82	6000	1640	-	-		WAF 49	AD2	15	754
70.25	20	390	0.89	6000	1530	-	-		WF 49	AD2	16	754
67.73	21	400	0.95	6000	1550	-	-					
61.58	23	400	1.0	6000	1550	-	-					
58.48	24	390	1.1	6000	2520	-	-		WA 49	AD3	18	754
53.16	26	390	1.2	6000	2520	-	-		WAF 49	AD3	18	754
48.73	29	390	1.3	6000	2500	-	-		WF 49	AD3	19	754
43.66	32	400	1.5	5570	1360	-	-					
39.69	35	400	1.6	5310	1350	-	-					
36.38	38	400	1.7	5070	1330	-	-		WA 49	AD2	15	754
31.33	45	375	1.9	4640	960	-	-		WAF 49	AD2	15	754
28.48	49	375	2.1	4400	1080	-	-		WF 49	AD2	16	754
26.11	54	375	2.3	4190	1030	-	-					
22.69	62	340	2.4	4460	485	-	-					
20.63	68	335	2.5	4290	675	-	-					
18.91	74	325	2.7	4160	675	-	-					
16.94	83	255	2.4	4300	460	-	-					
15.40	91	290	2.9	3880	310	-	-		WA 49	AD2	13	754
14.12	99	265	3.0	3860	440	-	-		WAF 49	AD2	14	754
12.16	115	184	2.4	4090	475	-	-		WF 49	AD2	14	754
11.05	127	205	3.0	3720	295	-	-					
10.13	138	193	3.0	3690	440	-	-					
8.67	162	131	2.4	3820	480	-	-					
7.88	178	149	3.0	3510	295	-	-					
7.22	194	138	3.0	3470	430	-	-					

WA59 AD.. , n _e = 1400 min ⁻¹									600 Nm			
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ⁽¹⁾ N	F _{Re} N	φ _(R)				m kg		
213.21	6.6	600	0.47	8000	1650	-	-					
151.56	9.2	600	0.65	8000	1540	-	-					
142.72	9.8	600	0.68	8000	1660	-	-					
129.74	11	600	0.75	8000	1660	-	-					
118.93	12	600	0.82	8000	1660	-	-					
107.33	13	600	0.89	8000	1640	-	-					
101.45	14	600	0.95	8000	1560	-	-					
92.23	15	600	1.0	8000	1560	-	-					
84.54	17	600	1.1	8000	1550	-	-					
76.29	18	600	1.2	7680	1530	-	-					
73.72	19	600	1.3	7700	1420	-	-		WA 59	AD2	19	754
67.02	21	600	1.4	7340	1430	-	-		WAF 59	AD2	20	754
61.43	23	600	1.6	7020	1420	-	-		WF 59	AD2	21	754
55.44	25	600	1.7	6650	1390	-	-					
52.40	27	600	1.8	6300	1070	-	-					
47.64	29	585	1.9	6080	1250	-	-					
43.67	32	570	2.1	5900	1250	-	-					
39.41	36	550	2.2	5700	1240	-	-					
36.98	38	515	2.2	5510	650	-	-					
33.62	42	515	2.4	5220	800	-	-					
30.82	45	515	2.7	4960	820	-	-					
27.81	50	505	2.9	4740	705	-	-					

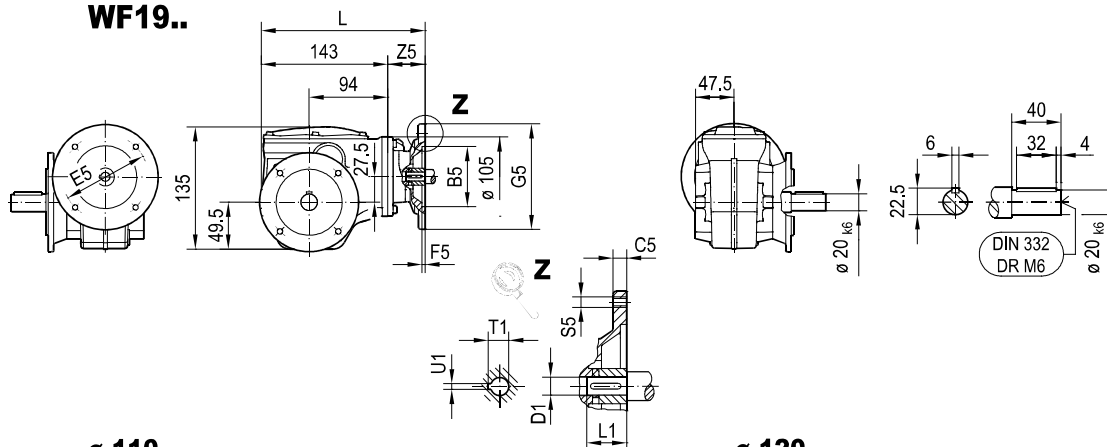
WA59 AD.. , n _e = 1400 min ⁻¹								600 Nm				
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ⁽¹⁾ N	F _{Re} N	φ _(/R)			m kg			
24.89	56	385	2.4	5560	415	-	-					
22.63	62	440	3.1	4940	230	-	-					
20.74	67	480	3.6	4480	29	-	-					
18.72	75	450	3.7	4420	15	-	-					
16.09	87	310	3.0	4890	280	-	-					
14.75	95	340	3.6	4490	40	-	-					
13.31	105	320	3.7	4400	13	-	-					
11.35	123	215	3.0	4650	300	-	-					
10.41	135	240	3.6	4310	39	-	-					
9.39	149	225	3.7	4210	24	-	-					
8.18	171	157	3.0	4320	290	-	-					
7.49	187	175	3.7	4020	-	-	-					
6.76	207	163	3.7	3930	7	-	-					
									WA 59	AD2	16	754
									WAF 59	AD2	17	754
									WF 59	AD2	19	754

WA59R37 AD.. , n _e = 1400 min ⁻¹								600 Nm		
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ⁽¹⁾ N	F _{Re} N	φ _(R)			m kg	
19242	0.07	600	<0.05	8000	1900	-	-			
17649	0.08	600	<0.05	8000	1900	-	-			
16044	0.09	600	<0.05	8000	1900	-	-			
14707	0.10	600	<0.05	8000	1900	-	-			
12955	0.11	600	<0.05	8000	1900	-	-			
11405	0.12	600	<0.05	8000	1900	-	-			
10063	0.14	600	<0.05	8000	1900	-	-		WA 59R37	AD2 29 754
8796	0.16	600	<0.05	8000	1900	-	-		WAF 59R37	AD2 31 754
7674	0.18	600	<0.05	8000	1900	-	-		WF 59R37	AD2 32 754
6692	0.21	600	<0.05	8000	1900	-	-			
5814	0.24	600	0.05	8000	1900	-	-			
5032	0.28	600	0.05	8000	1900	-	-			
4367	0.32	600	0.06	8000	1900	-	-			
3788	0.37	600	0.06	8000	1900	-	-			
3311	0.42	600	0.07	8000	1900	-	-			

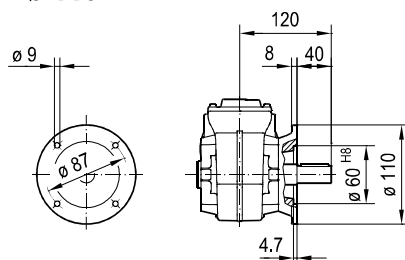
12.3 Dimension sheets for adapters for mounting IEC motors (AMS..)

20 076 01 21

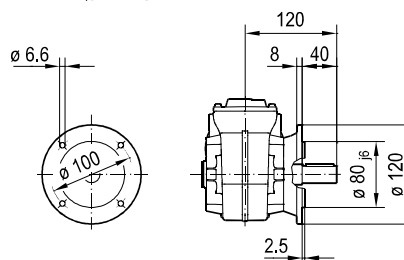
WF19..



ø 110

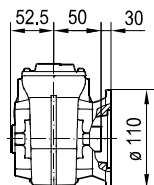


ø 120

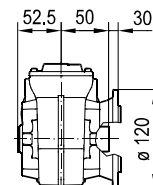


WAF19..

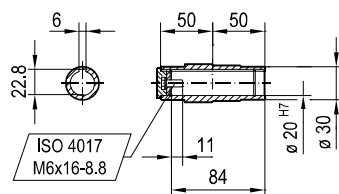
ø 110



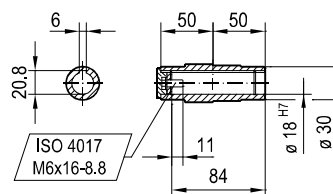
ø 120



ø 20 H7



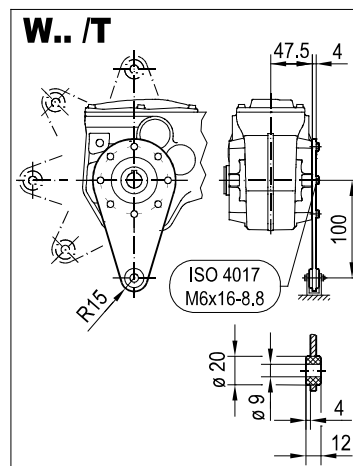
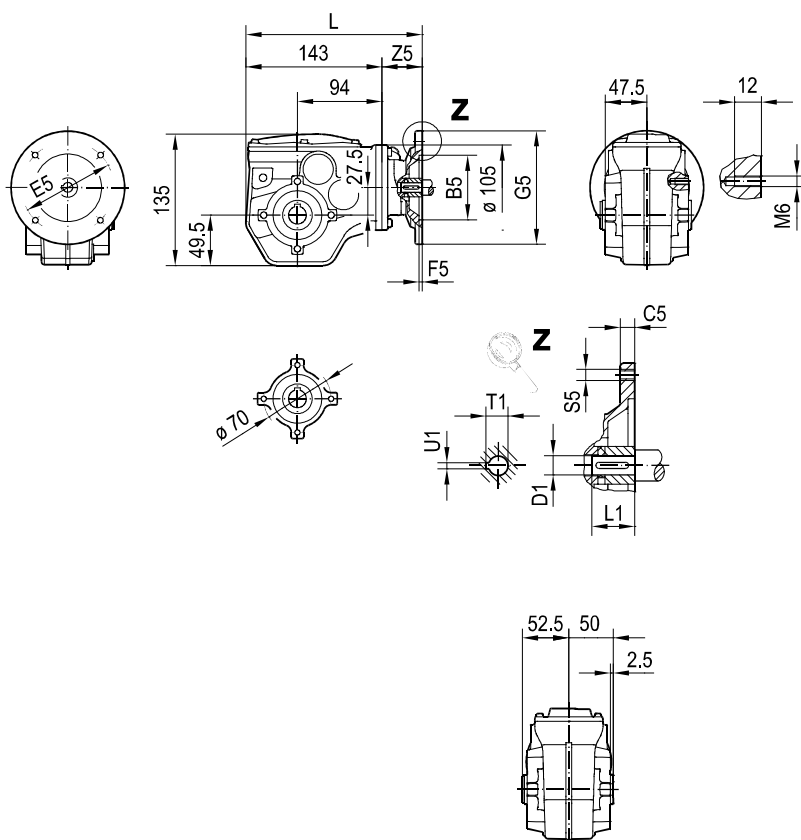
ø 18 H7



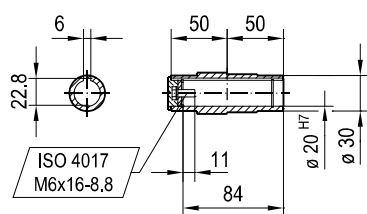
(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	200	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	200	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	217	M10	73.5	19	40	21.8	6

20 077 02 21

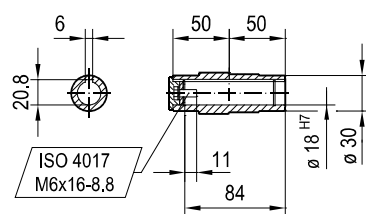
WA19..



Ø 20 H7



Ø 18 H7

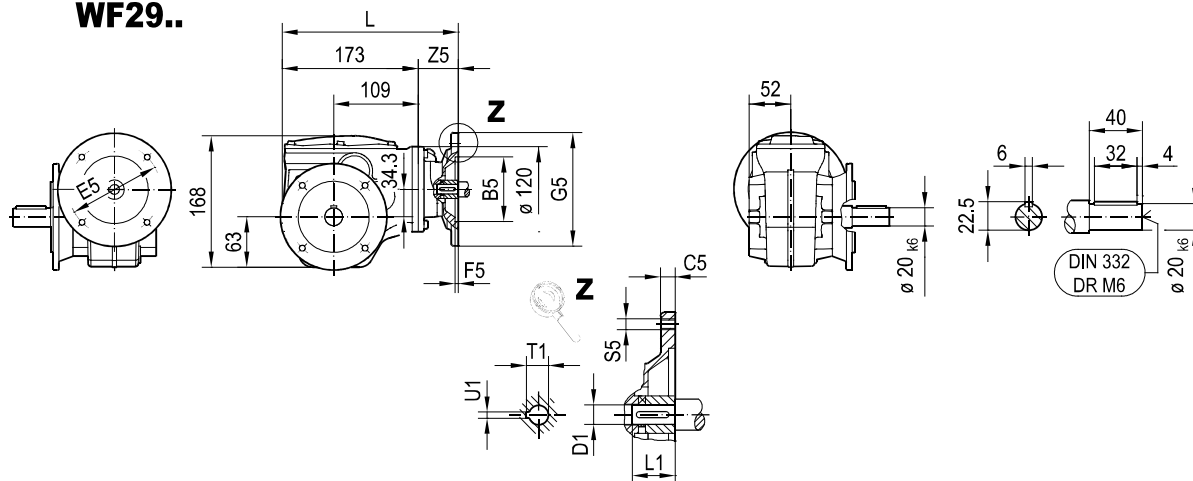


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	200	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	200	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	217	M10	73.5	19	40	21.8	6

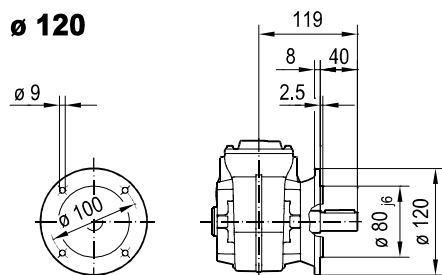
27797880/EN – 03/2023

20 160 00 20

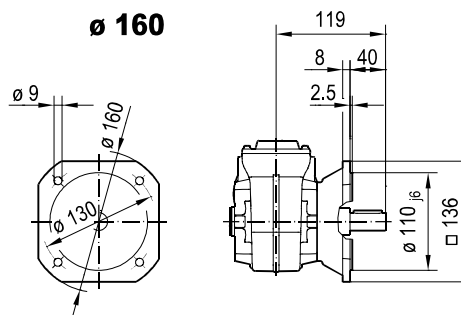
WF29..



ø 120

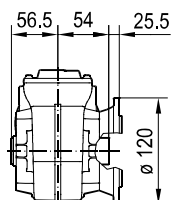


ø 160

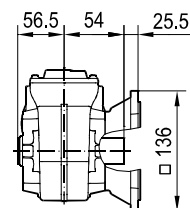


WAF29..

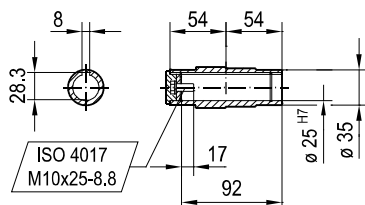
ø 120



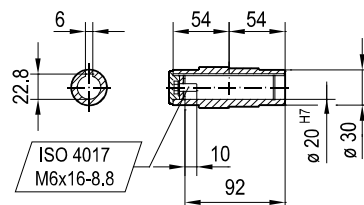
ø 160



ø 25 H7



ø 20 H7

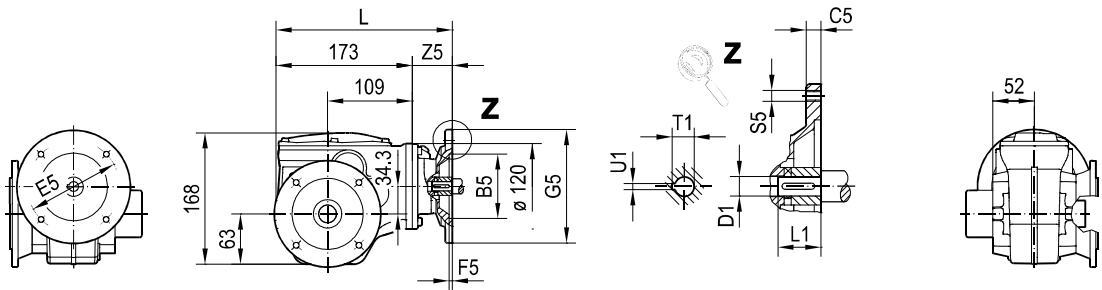


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	230	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	230	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	247	M10	73.5	19	40	21.8	6

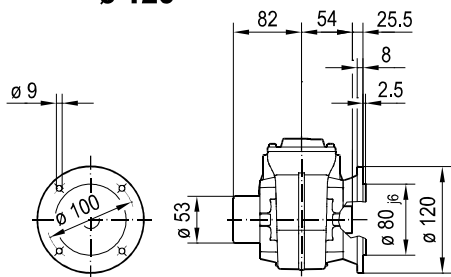
27797880/EN – 03/2023

20 161 01 20

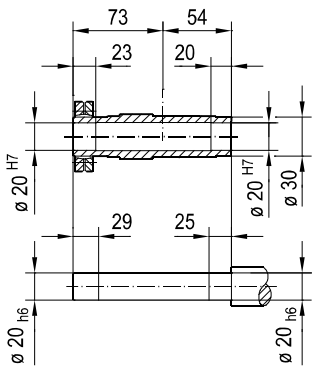
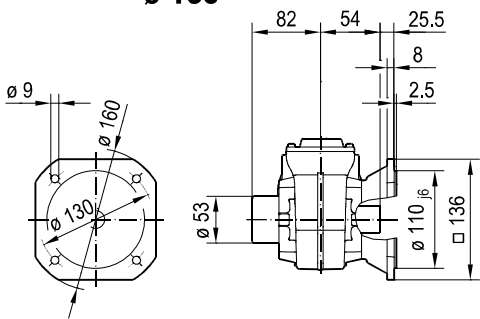
WHF29..



ø 120



ø 160

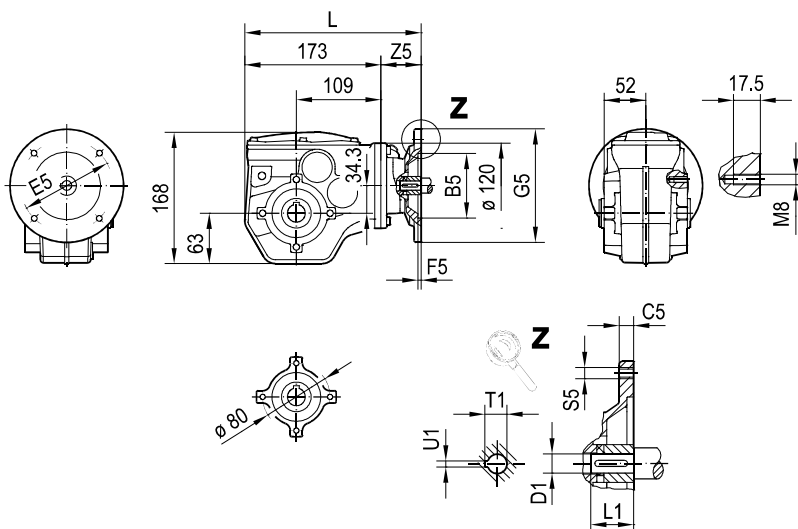


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	230	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	230	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	247	M10	73.5	19	40	21.8	6

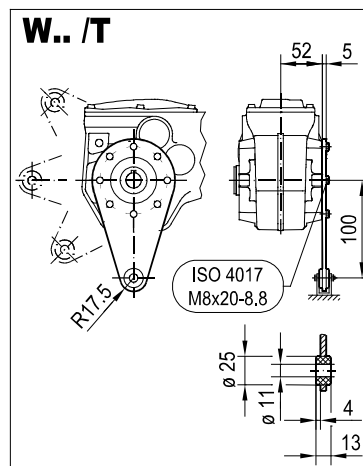
27797880/EN – 03/2023

20 162 03 20

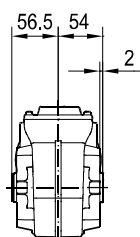
WA29..



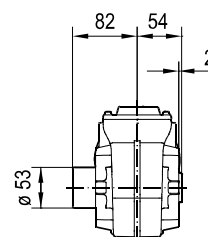
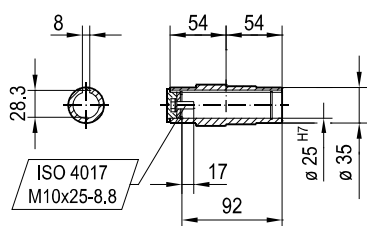
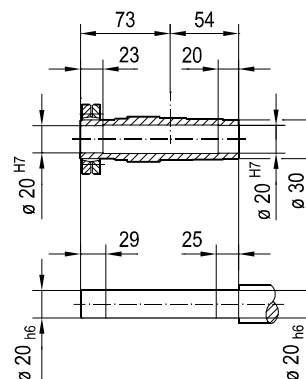
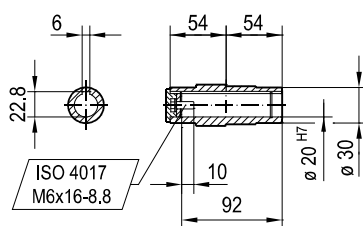
W.. / T



WA29..



WH29..

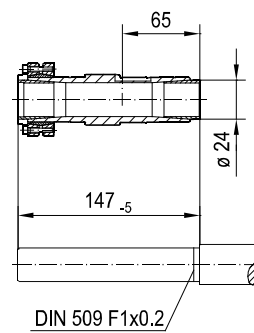
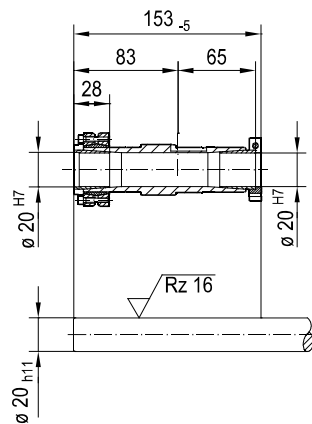
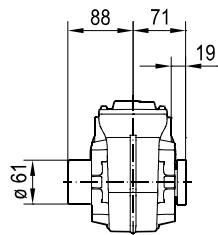
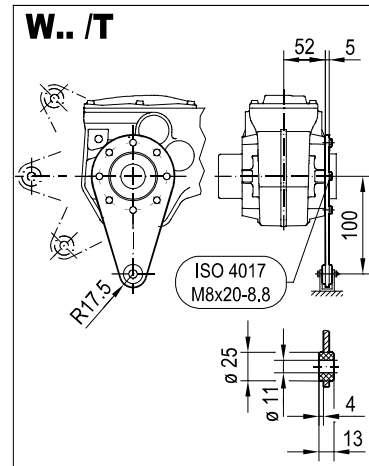
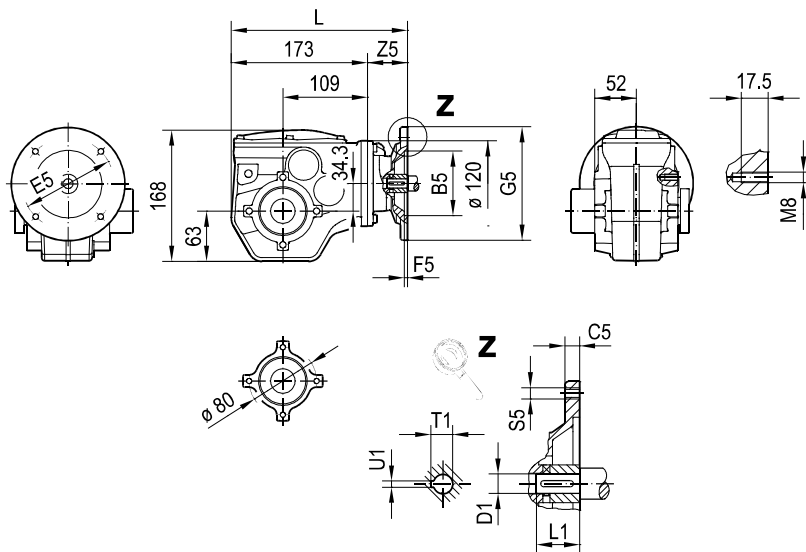
 $\phi 25^{H7}$  $\phi 20^{H7}$ 

(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	230	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	230	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	247	M10	73.5	19	40	21.8	6

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20 177 01 20

WT29..

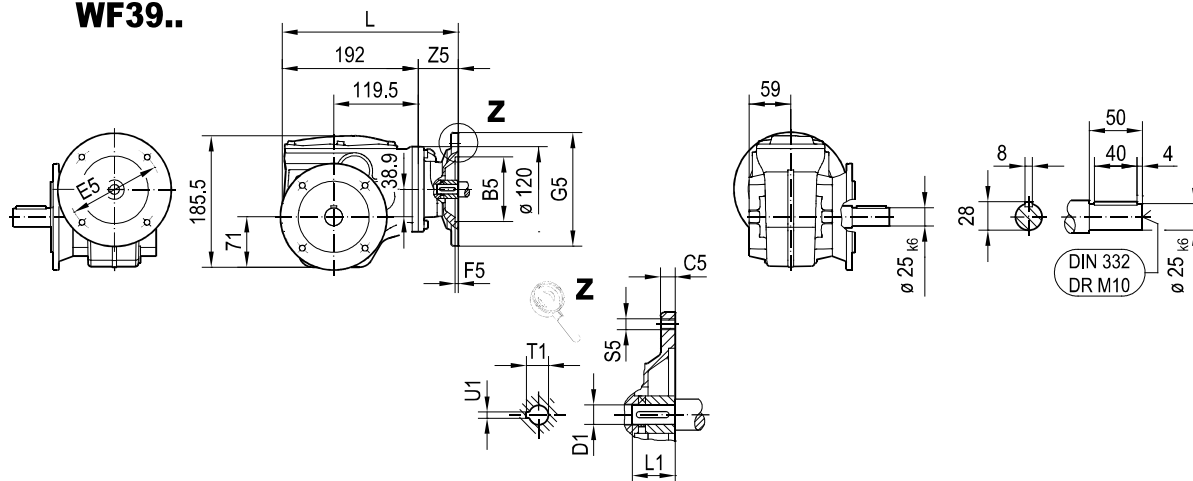


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	230	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	230	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	247	M10	73.5	19	40	21.8	6

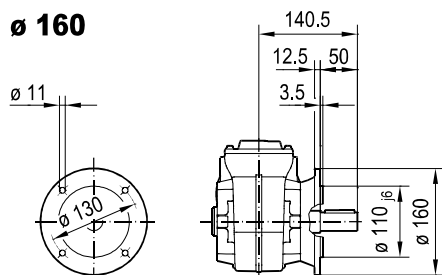
27797880/EN – 03/2023

20 163 00 20

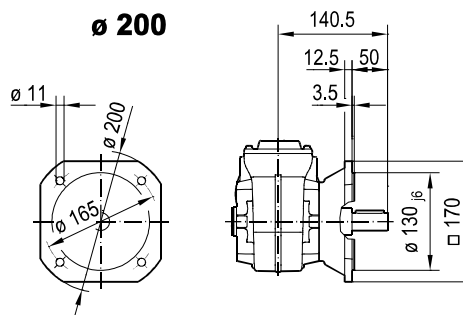
WF39..



ø 160

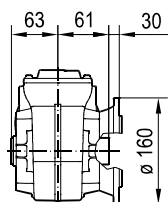


ø 200

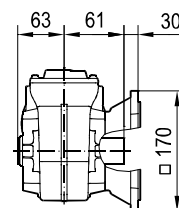
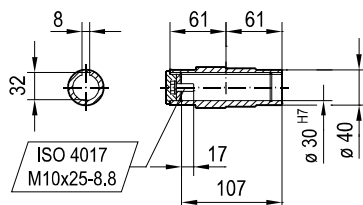


WAF39..

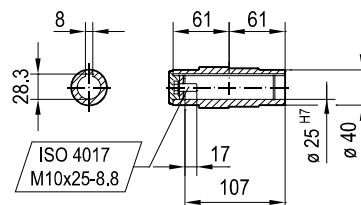
ø 160



ø 200

ø 30 H7
DIN 6885-3

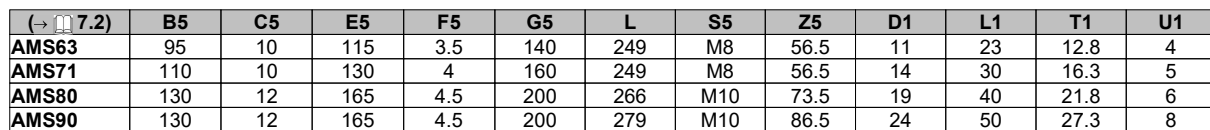
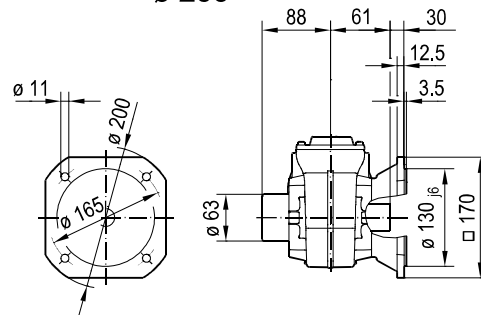
ø 25 H7



(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	249	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	249	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	266	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	279	M10	86.5	24	50	27.3	8

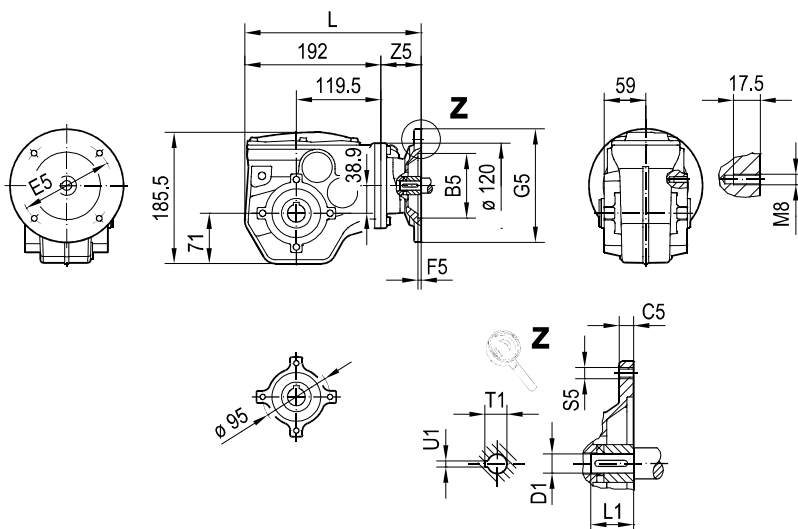
27797880/EN – 03/2023

20 164 01 20

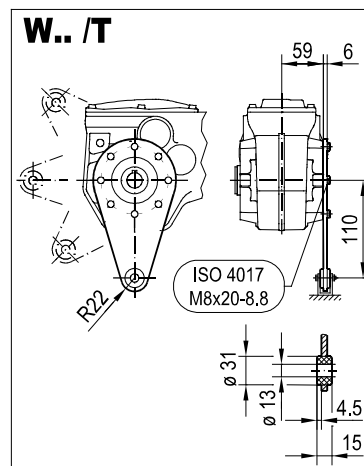


20 165 03 20

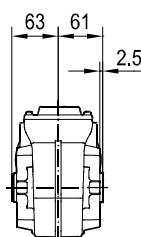
WA39..



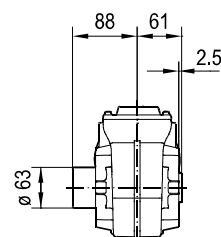
W.. /T



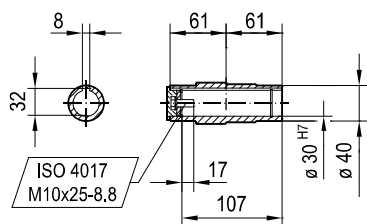
WA39..



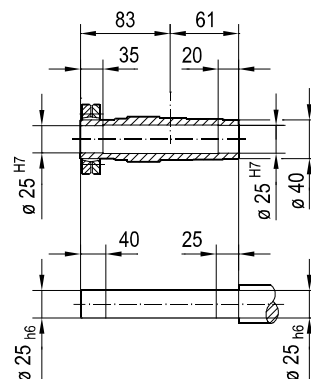
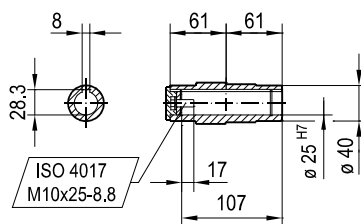
WH39..



ø 30 H7
DIN 6885-3



ø 25 H7

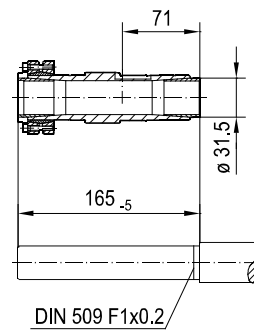
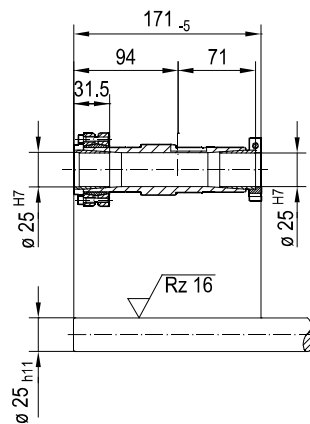
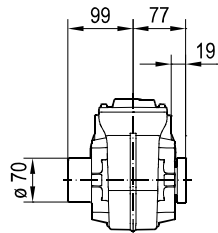
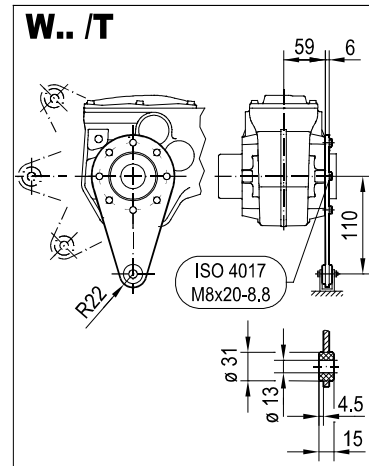
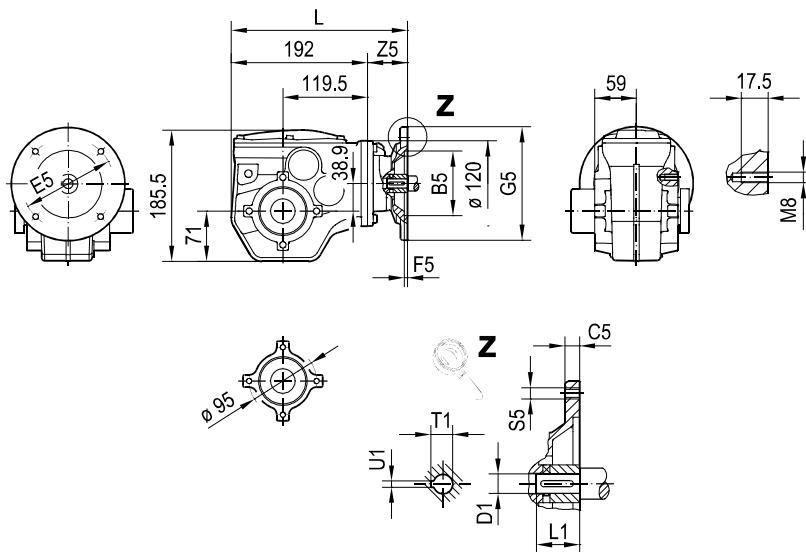


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	249	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	249	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	266	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	279	M10	86.5	24	50	27.3	8

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WT39..

20 178 01 20

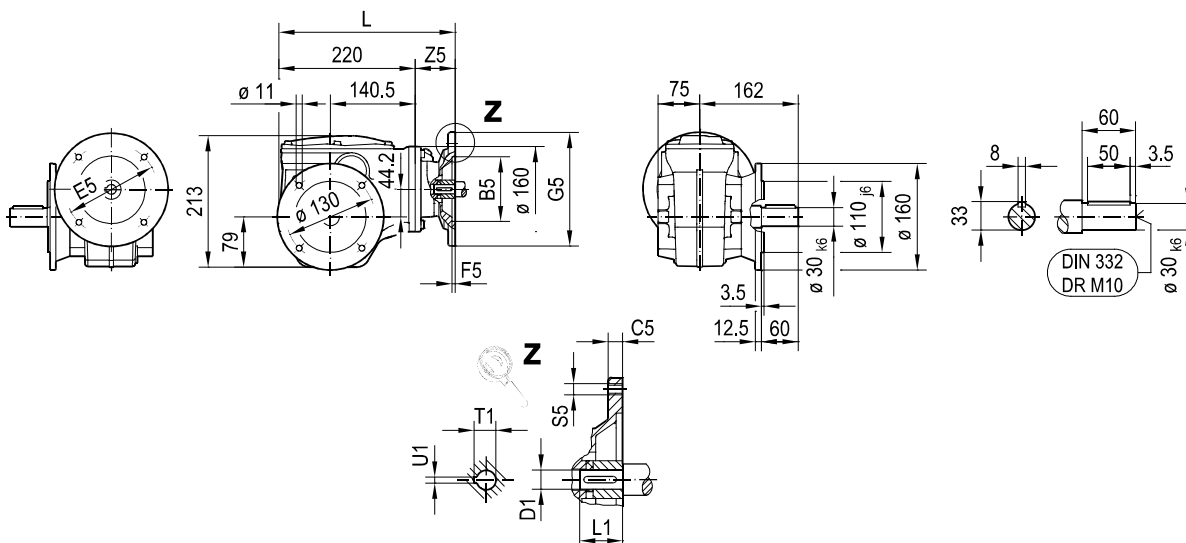


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	249	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	249	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	266	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	279	M10	86.5	24	50	27.3	8

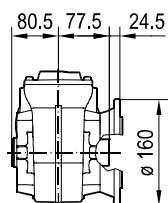
27797880/EN – 03/2023

20 078 02 21

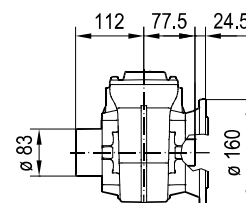
WF49..



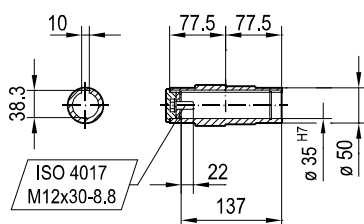
WAF49..



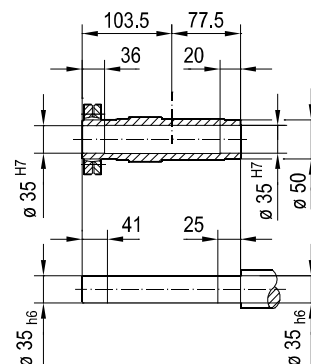
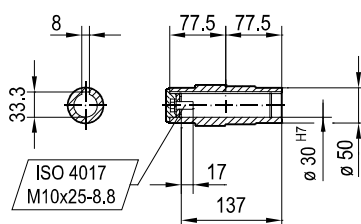
WHF49..



Ø 35 H7



Ø 30 H7

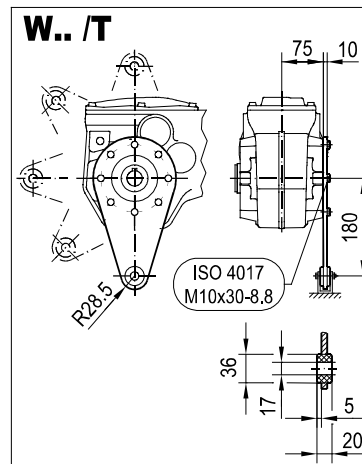
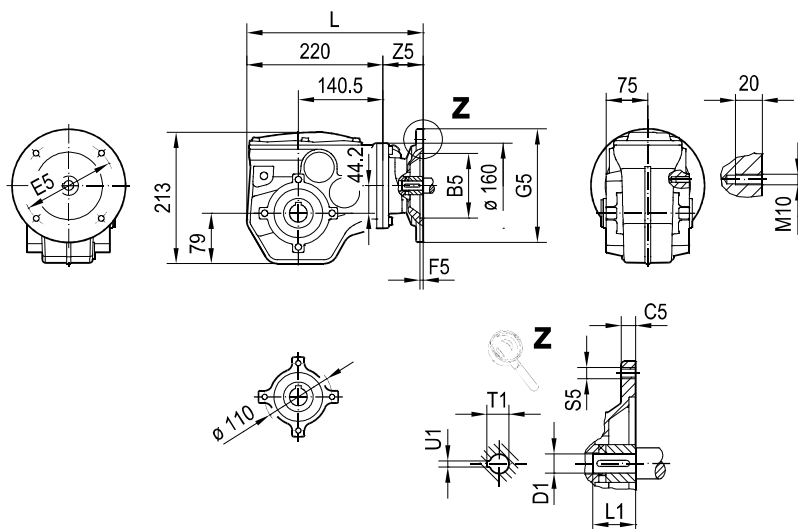


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	270	M8	50	11	23	12.8	4
AMS71	110	10	130	4	160	270	M8	50	14	30	16.3	5
AMS80	130	12	165	4.5	200	287	M10	67	19	40	21.8	6
AMS90	130	12	165	4.5	200	300	M10	80	24	50	27.3	8
AMS100	180	15	215	5	250	329	M12	108.5	28	60	31.3	8

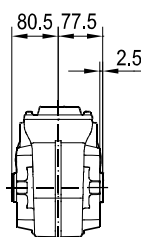
27797880/EN – 03/2023

20 079 03 21

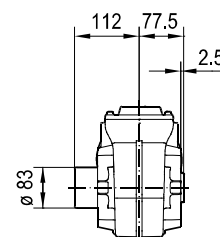
WA49..



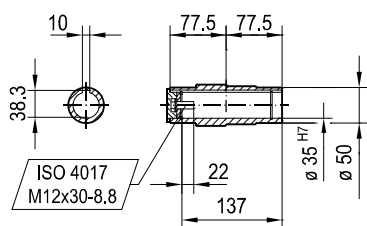
WA49..



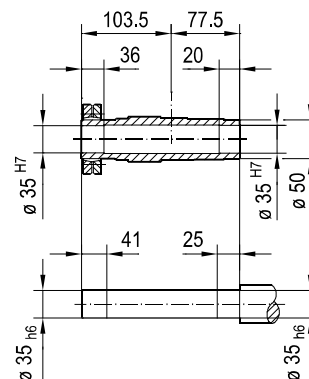
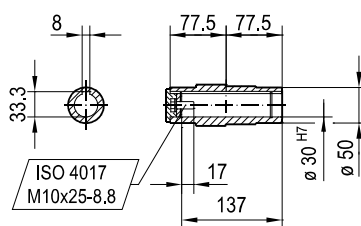
WH49..



Ø 35 H7



Ø 30 H7

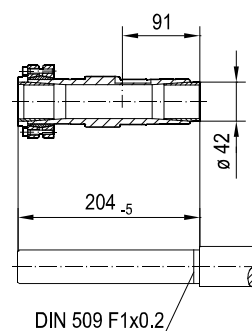
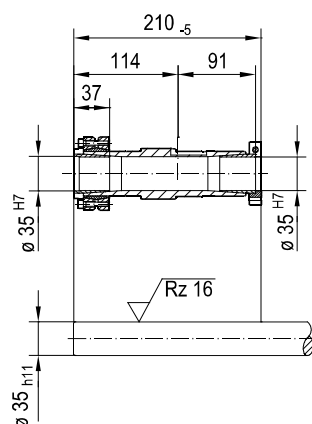
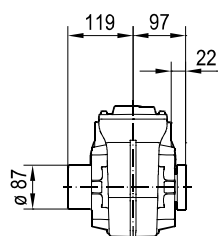
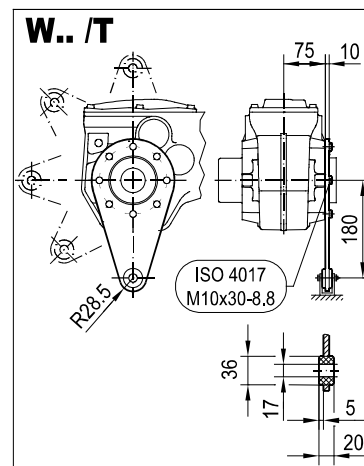
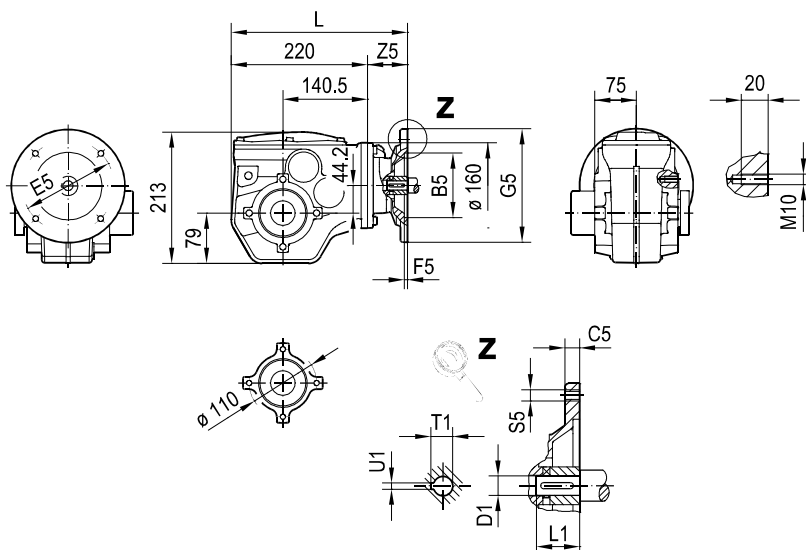


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	270	M8	50	11	23	12.8	4
AMS71	110	10	130	4	160	270	M8	50	14	30	16.3	5
AMS80	130	12	165	4.5	200	287	M10	67	19	40	21.8	6
AMS90	130	12	165	4.5	200	300	M10	80	24	50	27.3	8
AMS100	180	15	215	5	250	329	M12	108.5	28	60	31.3	8

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20 080 03 21

WT49..

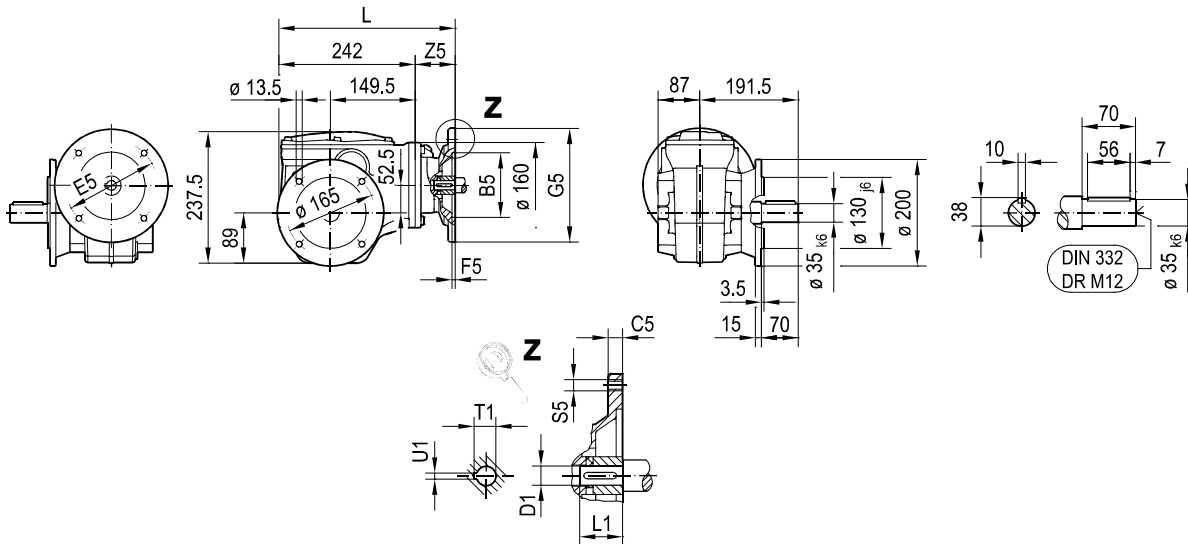


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	270	M8	50	11	23	12.8	4
AMS71	110	10	130	4	160	270	M8	50	14	30	16.3	5
AMS80	130	12	165	4.5	200	287	M10	67	19	40	21.8	6
AMS90	130	12	165	4.5	200	300	M10	80	24	50	27.3	8
AMS100	180	15	215	5	250	329	M12	108.5	28	60	31.3	8

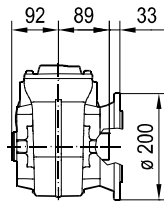
27797880/EN – 03/2023

20 019 02 22

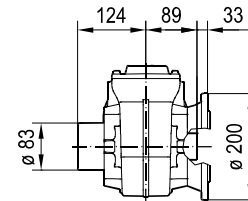
WF59..



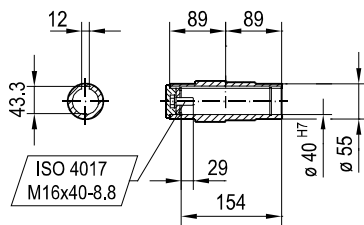
WAF59..



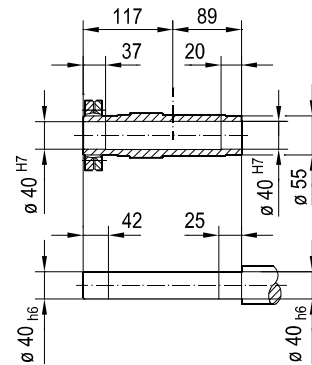
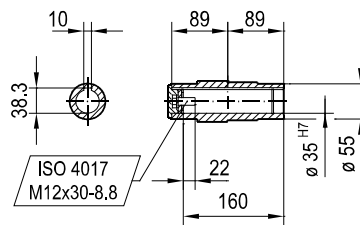
WHF59..



Ø 40 H7



Ø 35 H7

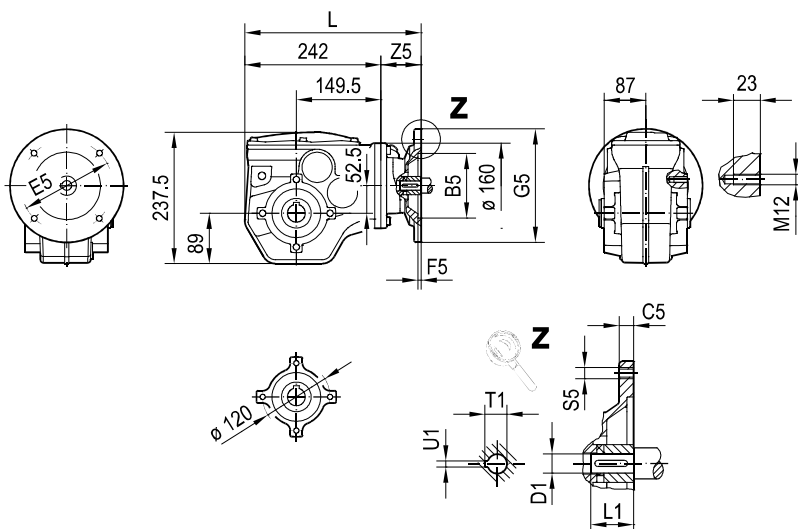


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	292	M8	50	11	23	12.8	4
AMS71	110	10	130	4	160	292	M8	50	14	30	16.3	5
AMS80	130	12	165	4.5	200	309	M10	67	19	40	21.8	6
AMS90	130	12	165	4.5	200	322	M10	80	24	50	27.3	8
AMS100	180	15	215	5	250	351	M12	108.5	28	60	31.3	8
AMS112	180	15	215	5	250	351	M12	108.5	28	60	31.3	8

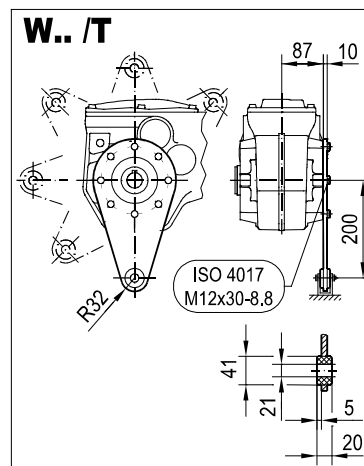
27797880/EN – 03/2023

20 020 03 22

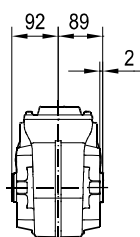
WA59..



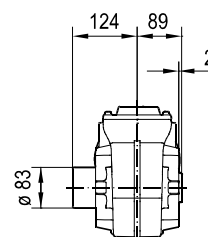
W.. /T



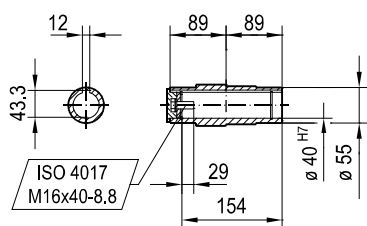
WA59..



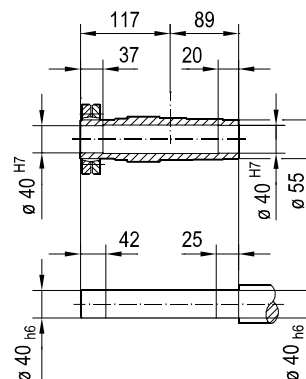
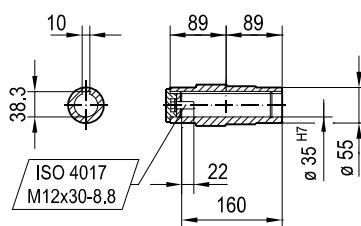
WH59..



ø 40 H7



ø 35 H7



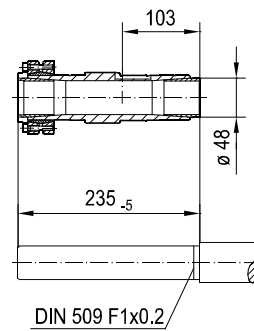
(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	292	M8	50	11	23	12.8	4
AMS71	110	10	130	4	160	292	M8	50	14	30	16.3	5
AMS80	130	12	165	4.5	200	309	M10	67	19	40	21.8	6
AMS90	130	12	165	4.5	200	322	M10	80	24	50	27.3	8
AMS100	180	15	215	5	250	351	M12	108.5	28	60	31.3	8
AMS112	180	15	215	5	250	351	M12	108.5	28	60	31.3	8

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Technical drawing of a mechanical part, likely a pump or valve component. The drawing includes a front view, a side view, and a detail view of a threaded section. Dimensions are provided in millimeters (mm).

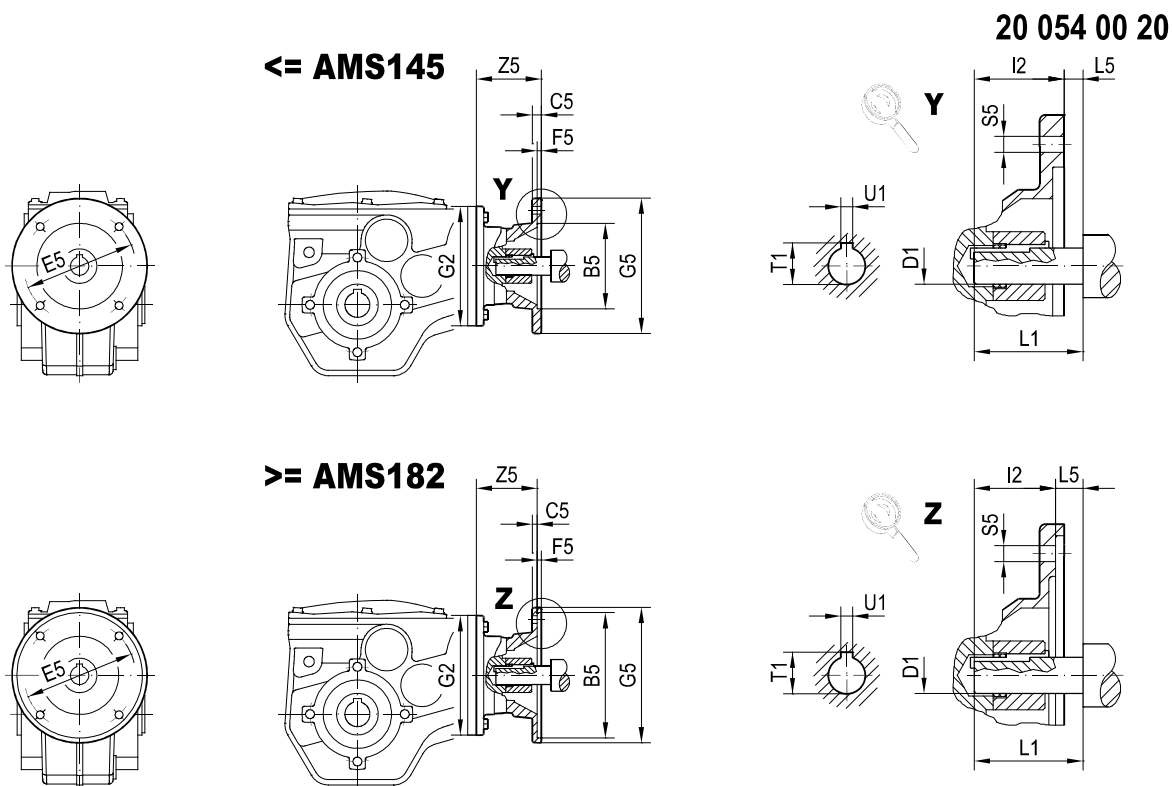
Key dimensions and features:

- Overall width: 87 mm
- Overall height: 10 mm
- Side view height: 200 mm
- Detail view dimensions: 41 mm (total height), 21 mm (threaded section height), 5 mm (flange thickness), 20 mm (base thickness).
- Callout: ISO 4017 M12x30-8.8 (specifying the thread and material grade).
- Radius: R32 (indicated on the front view).



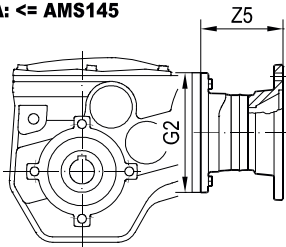
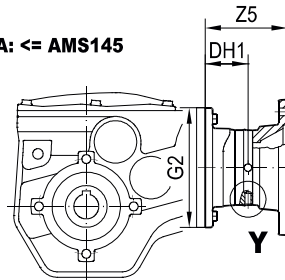
(→ 📁 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	292	M8	50	11	23	12.8	4
AMS71	110	10	130	4	160	292	M8	50	14	30	16.3	5
AMS80	130	12	165	4.5	200	309	M10	67	19	40	21.8	6
AMS90	130	12	165	4.5	200	322	M10	80	24	50	27.3	8
AMS100	180	15	215	5	250	351	M12	108.5	28	60	31.3	8
AMS112	180	15	215	5	250	351	M12	108.5	28	60	31.3	8

12.4 Dimension sheets for adapters for mounting NEMA motors (AMS..)



		B5	C5	E5	F5	G2	G5	I2	L5	S5	Z5	D1	L1	T1	U1
W..19	AMS56	114.3	11	149.2	4.5	105	170	52.3	-4.6	10.5	81.5	15.875	47.8	18.1	4.76
	AMS56	114.3	11	149.2	4.5	120	170	52.3	-4.6	10.5	81.5	15.875	47.8	18.1	4.76
W..29 W..39	AMS143	114.3	12	149.2	4.5	120	170	53.8	3.3	10.5	93.5	22.225	57.2	24.7	4.76
	AMS145	114.3	14	149.2	4.5	120	170	53.8	3.3	10.5	93.5	22.225	57.2	24.7	4.76
W..49	AMS56	114.3	11	149.2	4.5	160	170	52.3	-4.6	10.5	75	15.875	47.8	18.1	4.76
	AMS143	114.3	12	149.2	4.5	160	170	53.8	3.3	10.5	87	22.225	57.2	24.7	4.76
	AMS145	114.3	14	149.2	4.5	160	170	53.8	3.3	10.5	87	22.225	57.2	24.7	4.76
	AMS182	215.9	10	184	5	160	228	66.6	3.3	15	115	28.575	69.9	31.7	6.35
W..59	AMS56	114.3	11	149.2	4.5	160	170	52.3	-4.6	10.5	75	15.875	47.8	18.1	4.76
	AMS143	114.3	12	149.2	4.5	160	170	53.8	3.3	10.5	87	22.225	57.2	24.7	4.76
	AMS145	114.3	14	149.2	4.5	160	170	53.8	3.3	10.5	87	22.225	57.2	24.7	4.76
	AMS182	215.9	10	184	5	160	228	66.6	3.3	15	115	28.575	69.9	31.7	6.35
	AMS184	215.9	10	184	5	160	228	66.6	3.3	15	115	28.575	69.9	31.7	6.35

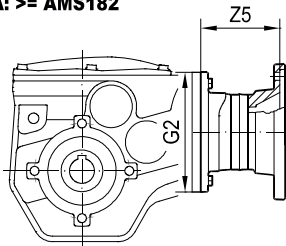
12.5 Dimension sheets for adapters with backstop (RS..) and drain hole (DH..)

AMS.. /RSIEC
NEMA: <= AMS145**AMS.. /DH**IEC
NEMA: <= AMS145

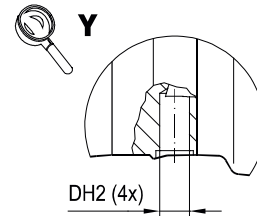
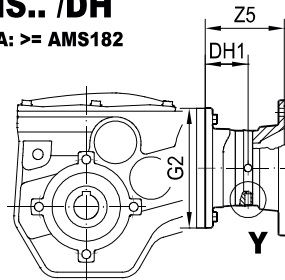
20 058 01 20

AMS.. /RS

NEMA: >= AMS182

**AMS.. /DH**

NEMA: >= AMS182



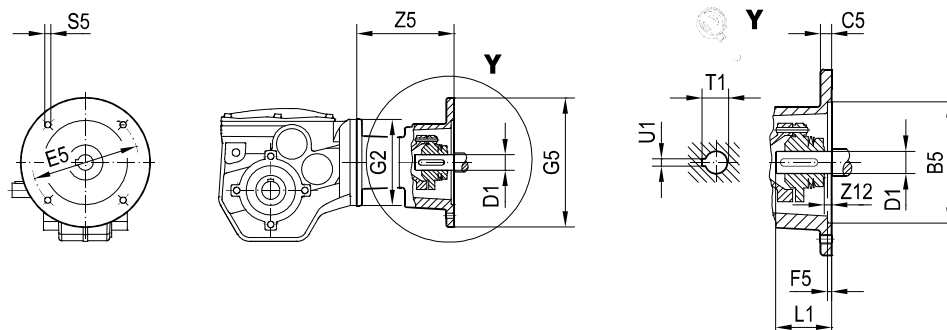
		/RS		/DH			
		G2	Z5	G2	Z5	DH1	DH2
W..19	AMS56	—	—	105	105	60	9
	AMS63	—	—	105	78.5	46	9
	AMS71	—	—	105	78.5	46	9
	AMS80	—	—	105	97.5	60	9
W..29 W..39	AMS56	—	—	120	105	60	9
	AMS63	—	—	120	78.5	46	9
	AMS71	—	—	120	78.5	46	9
	AMS80	120	121	120	97.5	60	9
	AMS90	120	121	120	109	64	9
	AMS143	120	128.5	120	116.5	64	9
W..49	AMS145	120	128.5	120	116.5	64	9
	AMS56	—	—	160	98.5	54	9
	AMS63	—	—	160	72	40	9
	AMS71	—	—	160	72	40	9
	AMS80	160	114.5	160	91	54	9
	AMS90	160	114.5	160	102.5	57	9
	AMS100	160	153	160	153	97	9
	AMS143	160	122	160	110	57	9
	AMS145	160	122	160	110	57	9
W..59	AMS182	160	158.5	160	158.5	97	9
	AMS56	—	—	160	98.5	54	9
	AMS63	—	—	160	72	40	9
	AMS71	—	—	160	72	40	9
	AMS80	160	114.5	160	91	54	9
	AMS90	160	114.5	160	102.5	57	9
	AMS100	160	153	160	153	97	9
	AMS112	160	153	160	153	97	9
	AMS143	160	122	160	110	57	9
	AMS145	160	122	160	110	57	9
	AMS182	160	158.5	160	158.5	97	9
	AMS184	160	158.5	160	158.5	97	9

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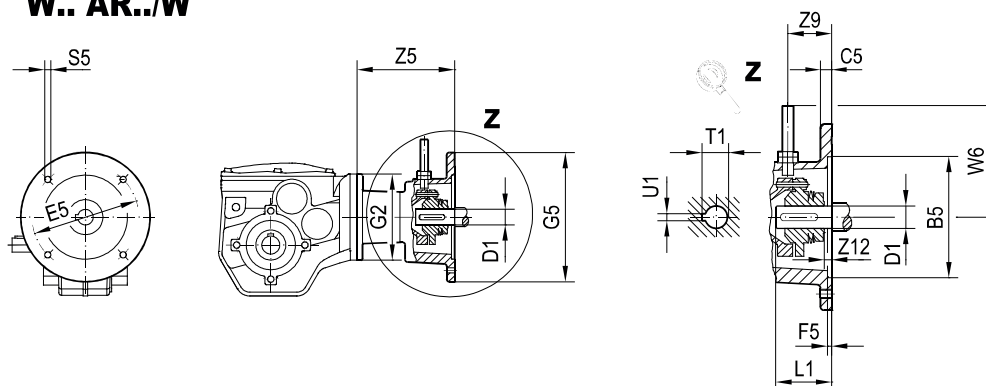
12.6 Dimension sheets for adapters with slip clutch (AR..)

20 130 00 20

W.. AR..



W.. AR../W

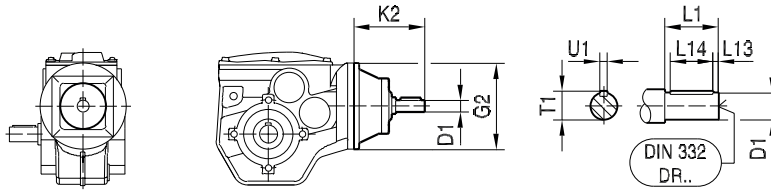


		B5	C5	E5	F5	G2	G5	S5	W6	Z5	Z9	Z12	D1	L1	T1	U1			
W..29	AR71	110	10	130	3.5	120	160	M8	120	104	37	0	14	30	16.3	5			
	AR80	130	12	165	4.5		200	M10		140.5			19	40	21.8	6			
W..39	AR71	110	10	130	3.5	120	160	M8	120	104	37	0	14	30	16.3	5			
	AR80	130	12	165	4.5		200	M10		140.5			19	40	21.8	6			
	AR90												24	50	27.3	8			
W..49	AR71	110	10	130	3.5	160	160	M8	120	97.5	37	0	14	30	16.3	5			
	AR80	130	12	165	4.5		200	M10		134			19	40	21.8	6			
	AR90												24	50	27.3	8			
W..59	AR71	110	10	130	3.5	160	160	M8	120	97.5	37	0	14	30	16.3	5			
	AR80	130	12	165	4.5		200	M10		134			19	40	21.8	6			
	AR90												24	50	27.3	8			
	AR100	180	15	215	5		250	M12		130			174.5	52	5.5	28	60	31.3	8
	AR112																		

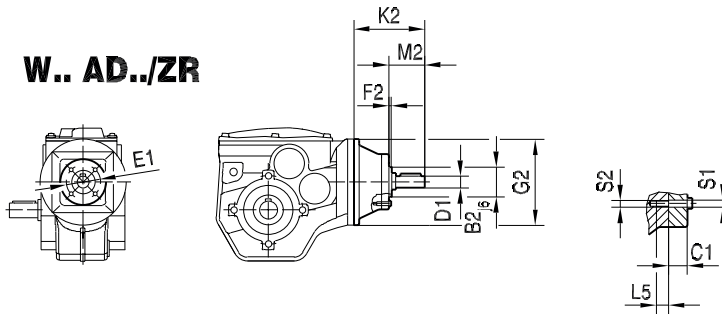
12.7 Dimension sheets for input shaft assembly (AD..)

W.. AD..

20 131 01 20



W.. AD../ZR



		B2	C1	E1	F2	G2	K2	L5	M2	S1	S2	D1	L1	L13	L14	T1	U1
W..19	AD01	–	–	–	–	105	72.2	–	–	–	–	14	30	4	22	16	5
W..29	AD1	–	–	–	–	120	102	–	–	–	–	16	40	4	32	18	5
	AD2, AD2/ZR	55	13.5	80	8		130	12	50	9	M8	19	40	4	32	21.5	6
W..39	AD1	–	–	–	–	120	102	–	–	–	–	16	40	4	32	18	5
	AD2, AD2/ZR	55	13.5	80	8		130	12	50	9	M8	19	40	4	32	21.5	6
W..49	AD2, AD2/ZR	55	13.5	80	8	160	123	12	50	9	M8	19	40	4	32	21.5	6
	AD3, AD3/ZR	70	15.5	105	8		159	16	60	11	M10	24	50	5	40	27	8
W..59	AD2, AD2/ZR	55	13.5	80	8	160	123	12	50	9	M8	19	40	4	32	21.5	6
	AD3, AD3/ZR	70	15.5	105	8		159	16	60	11	M10	24	50	5	40	27	8

For bore dimensions and weight of the motor platform, refer to the chapter "Bore dimensions and weight" (→ 81).