

GR SERIES

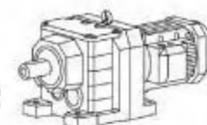
—
GR系列
斜齿轮减速电机
—

GR SERIES HELICAL
GEARED MOTOR

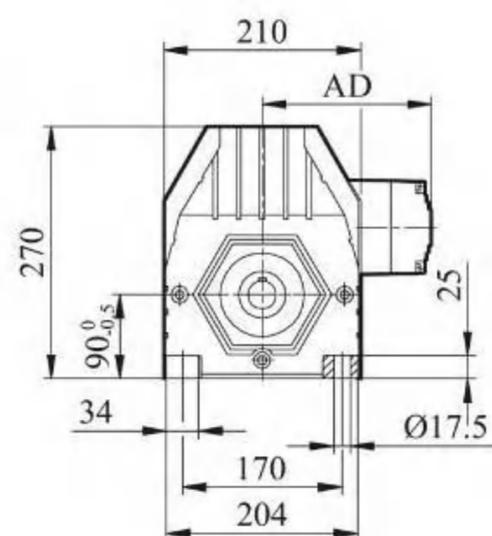
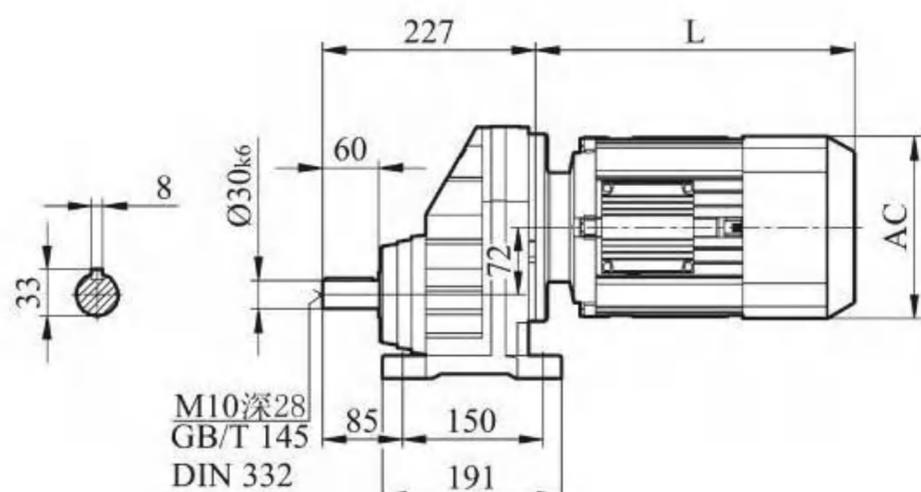


大国品质·世界标准

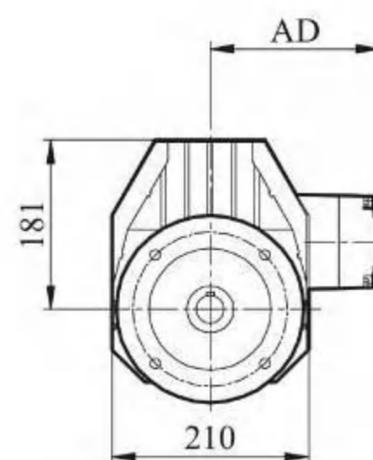
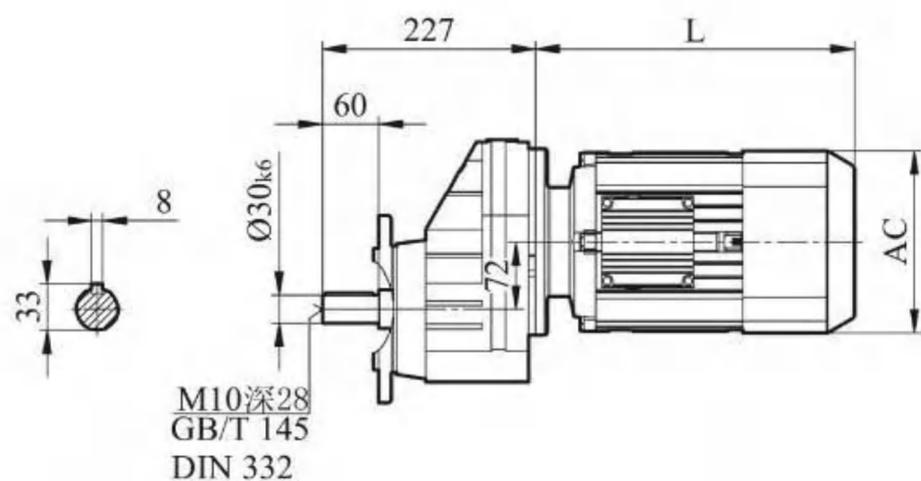
World Quality And Industry
Standards



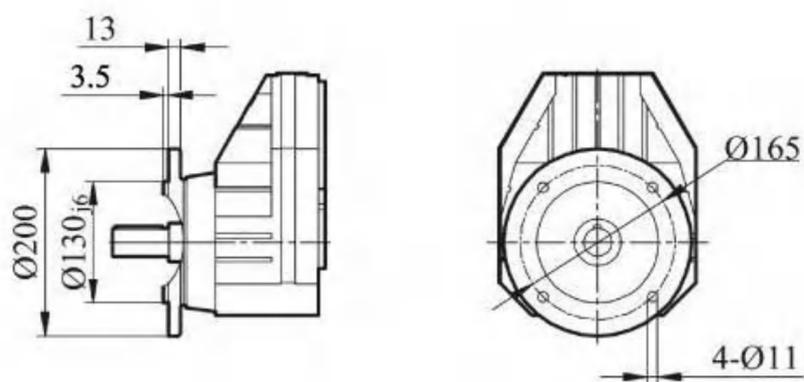
GRX77



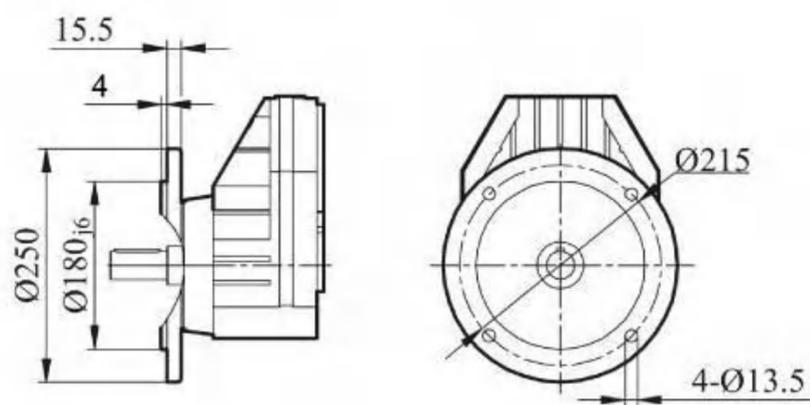
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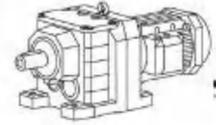
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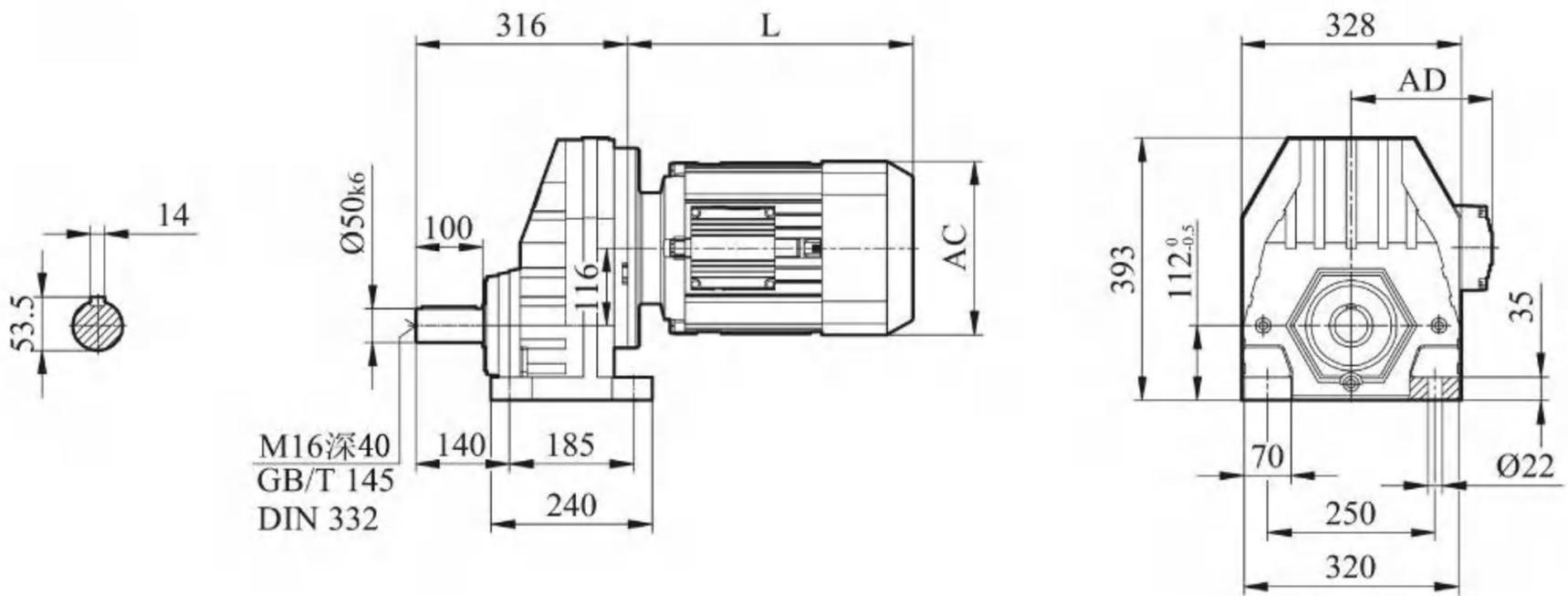
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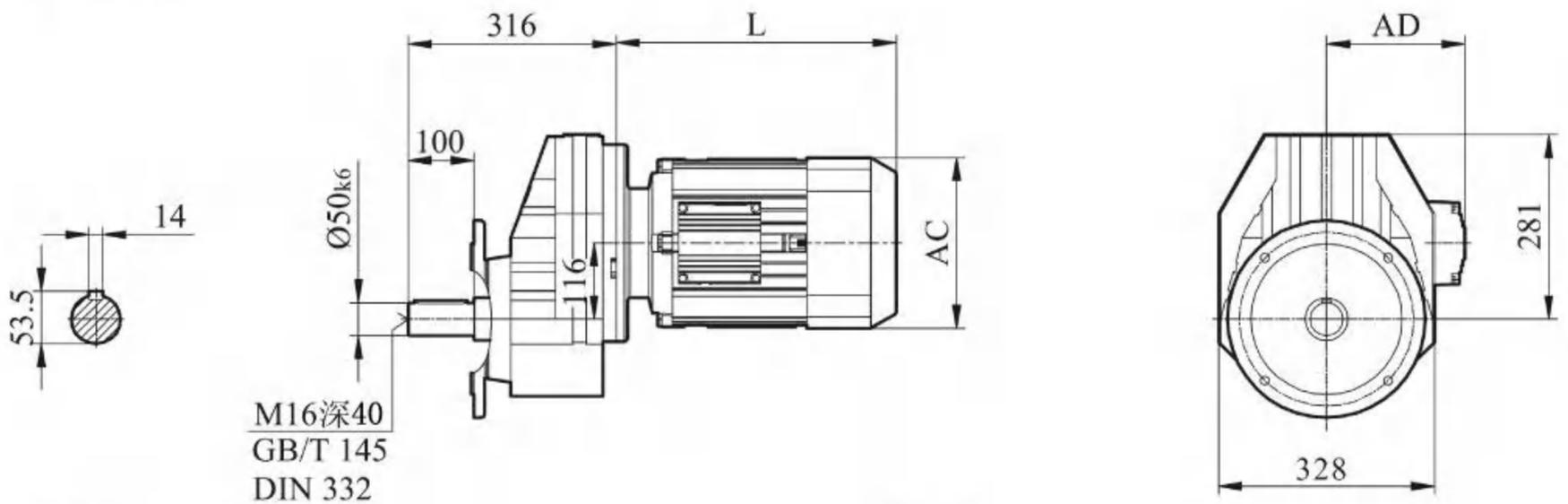
Y2电机机座号 Motor Size	71	80	90S	90L	100	112	132S	132M	160M
L	228	288	301	326	346	383	430	468	523
AC	□135	□145	□162	□162	□185	□204	□260	□260	φ330
AD	110	140	155	155	180	190	210	210	255



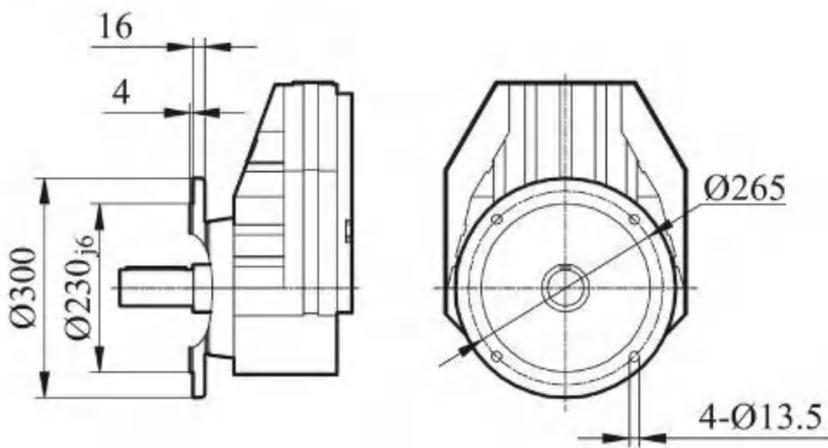
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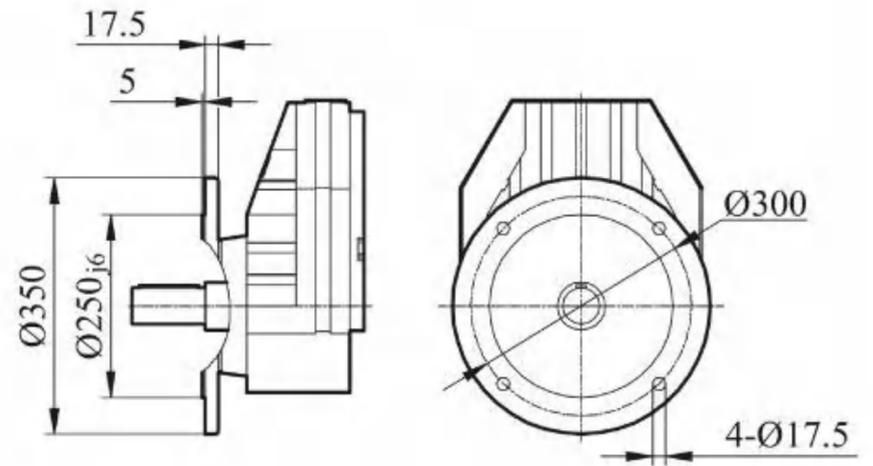
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Ø300

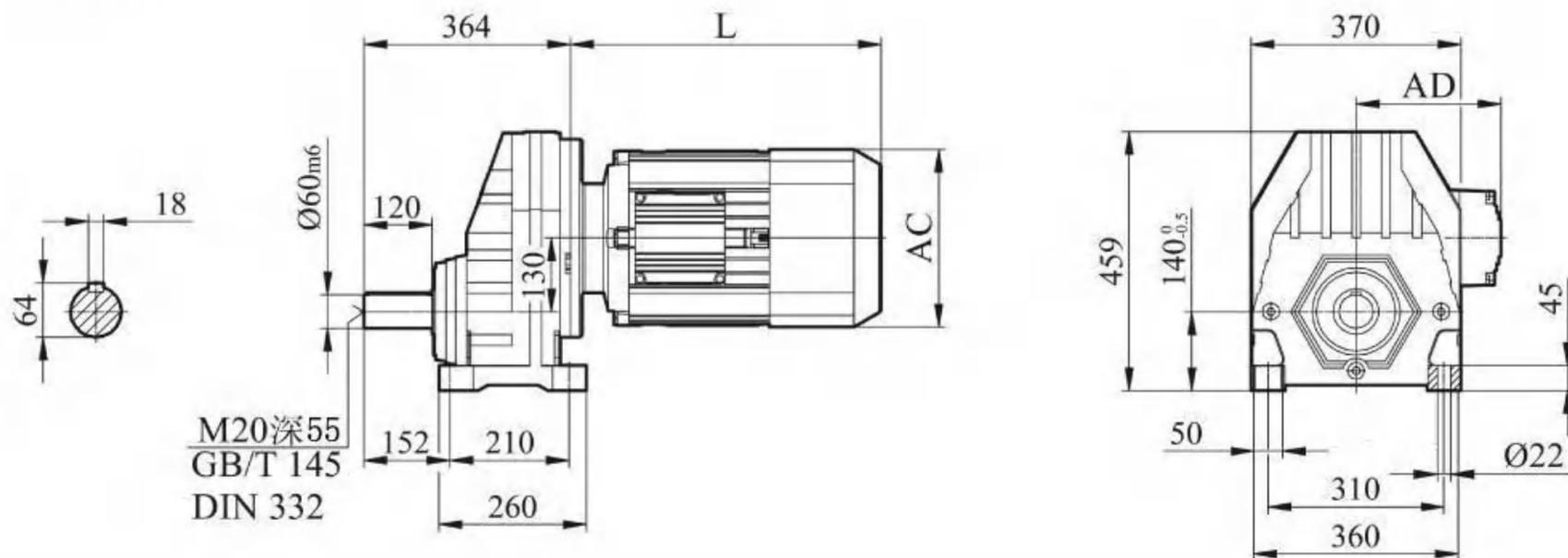


Ø350

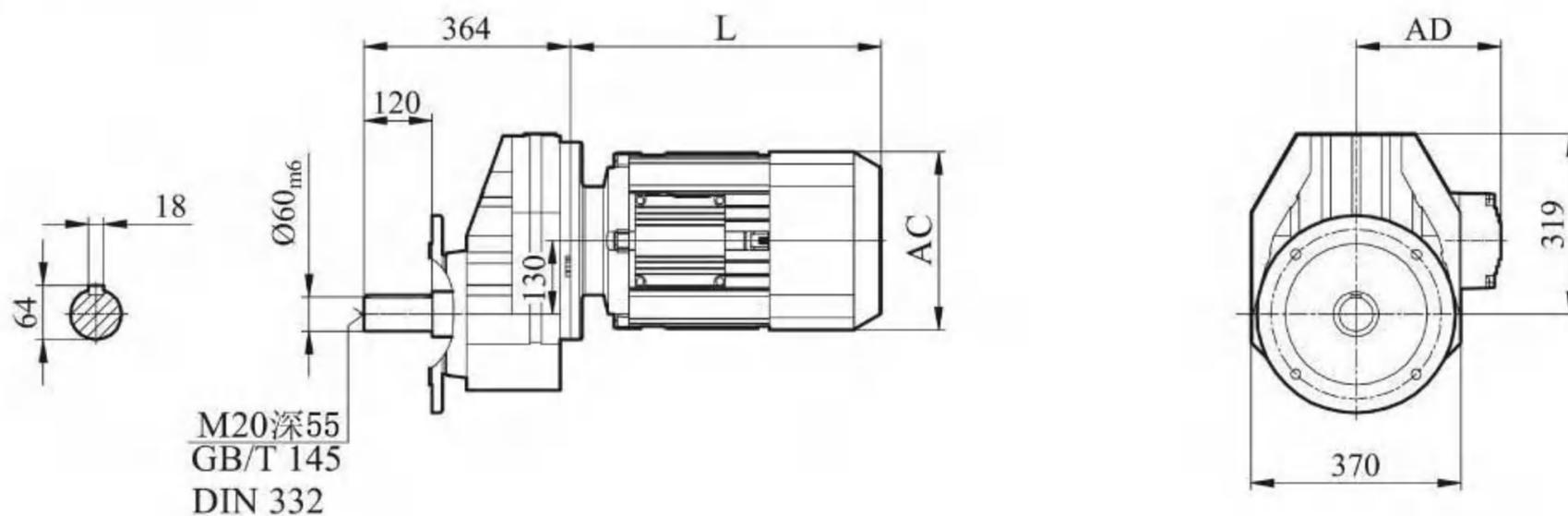


Y2电机机座号 Motor Size	90S	90L	100	112	132S	132M	160M	160L	180M	180L	200L
L	269	294	311	334	430	468	523	567	583	623	670
AC	□162	□162	□185	□204	□260	□260	φ330	φ330	φ380	φ380	φ420
AD	155	155	180	190	210	210	255	255	280	280	305

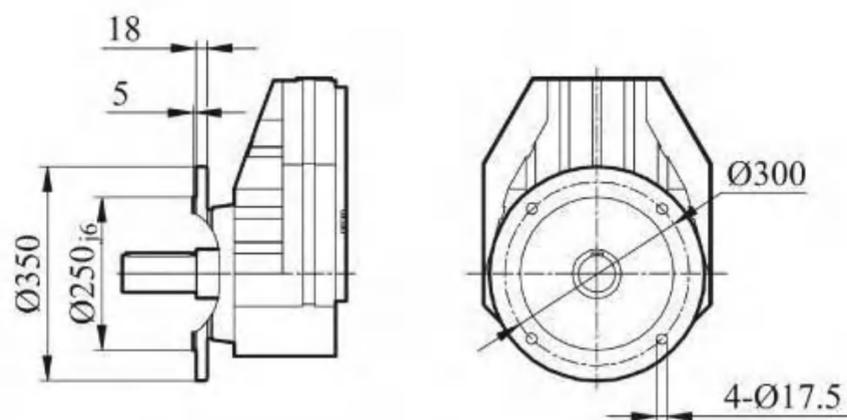
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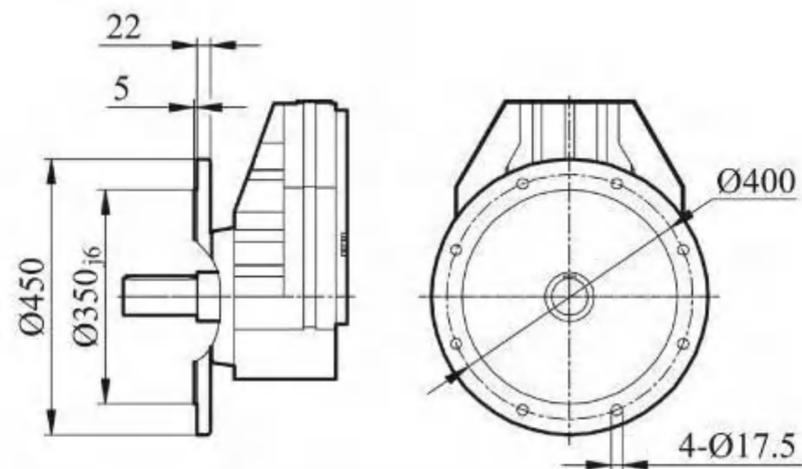
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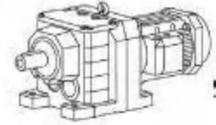
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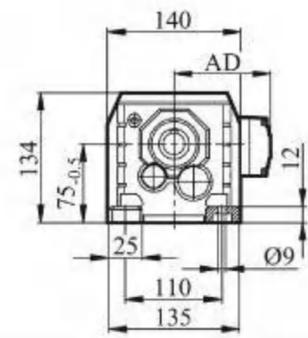
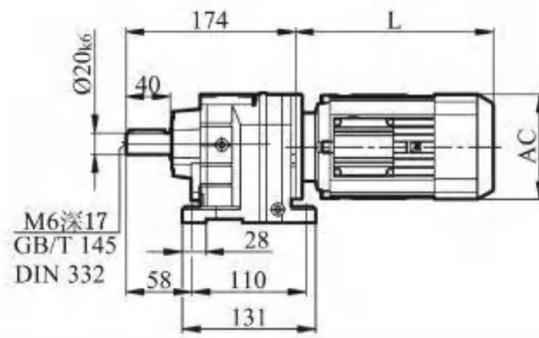
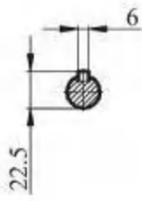
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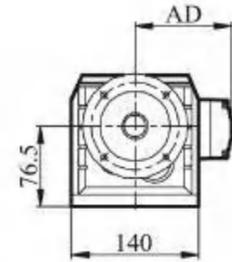
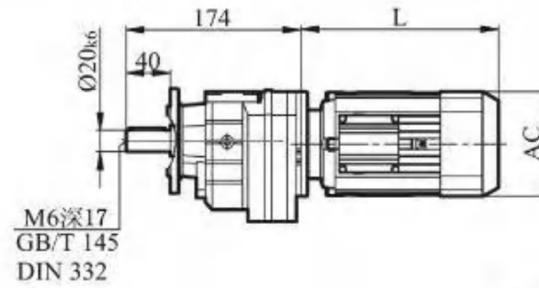
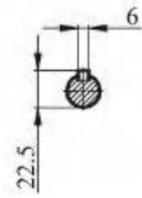
Y2电机机座号 Motor Size	100	112	132S	132M	160M	160L	180M	180L	200L	225S	225M
L	314	334	394	432	503	547	583	623	670	679	704
AC	□185	□204	□260	□260	φ330	φ330	φ380	φ380	φ420	φ470	φ470
AD	180	190	210	210	255	255	280	280	305	335	335



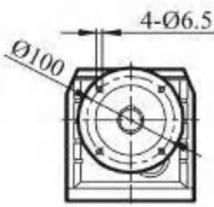
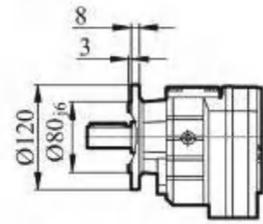
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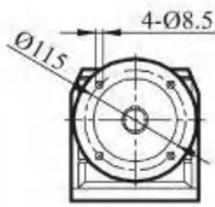
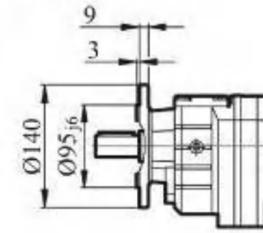
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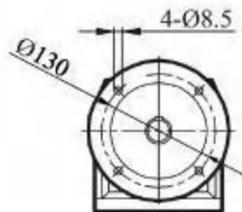
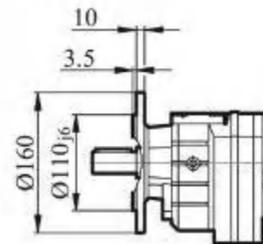
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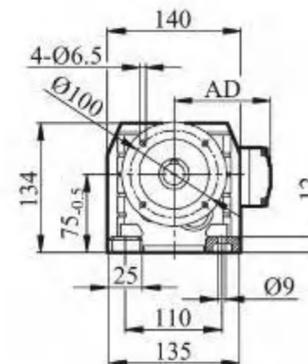
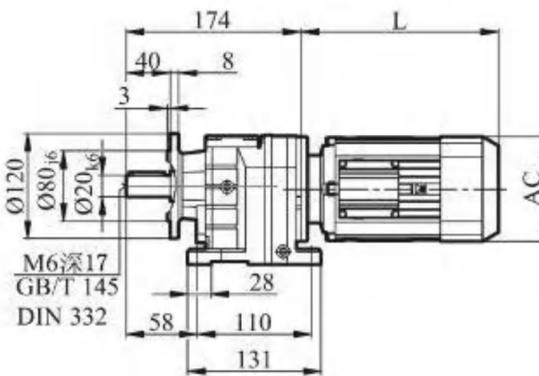
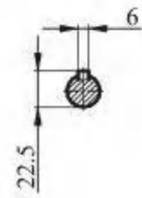
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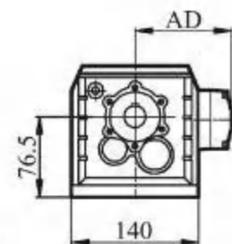
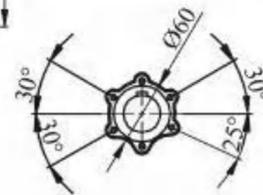
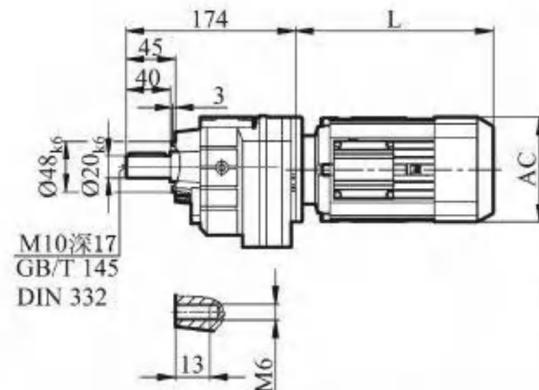
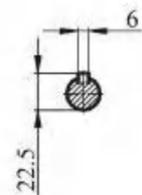
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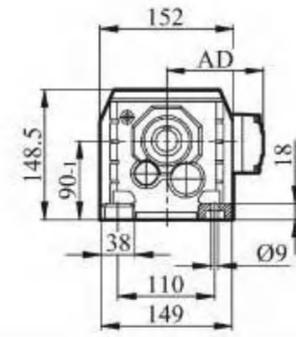
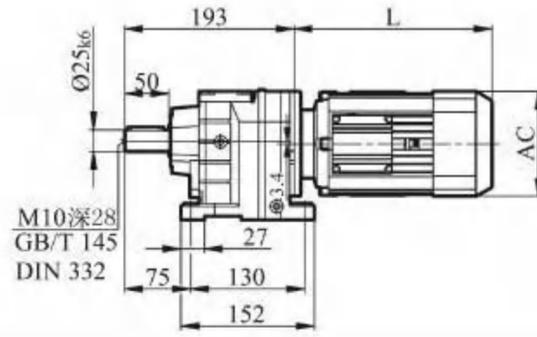
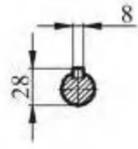


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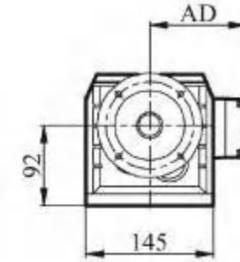
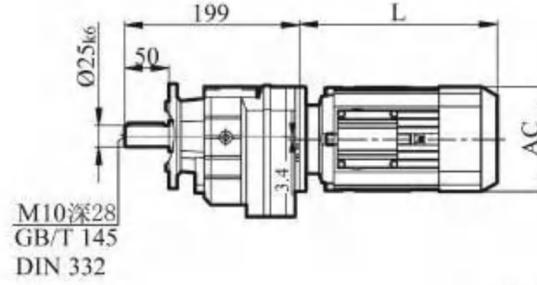
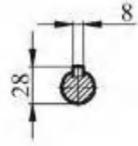


Y2电机机座号 Motor Size	63	71	80	90S	90L	100
L	226	240	288	301	326	349
AC	Φ130	□135	□145	□162	□162	□185
AD	100	110	140	155	155	180

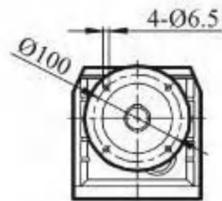
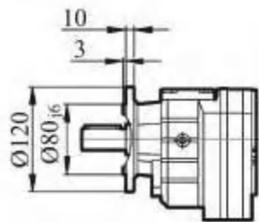
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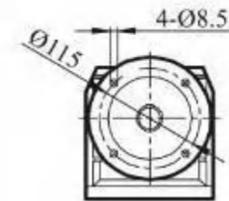
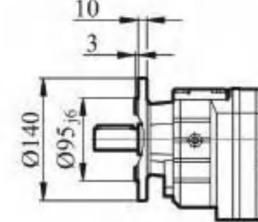
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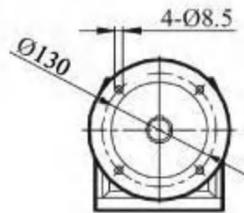
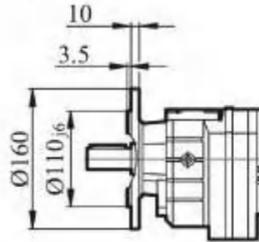
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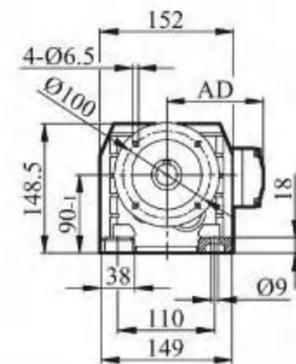
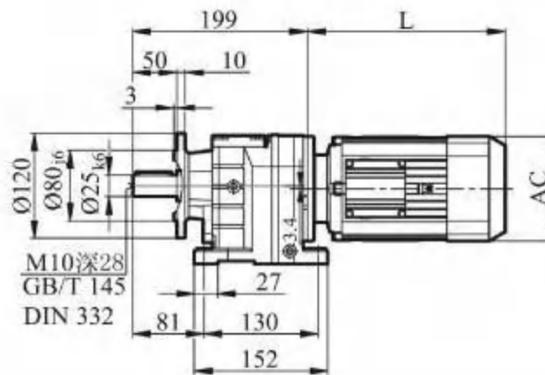
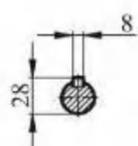
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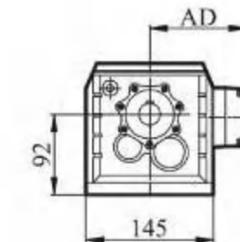
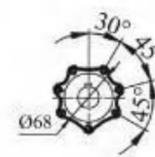
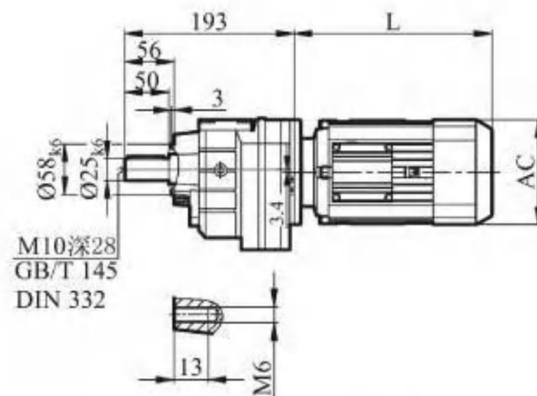
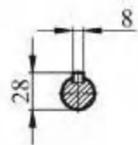
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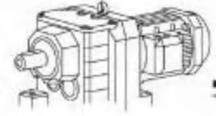
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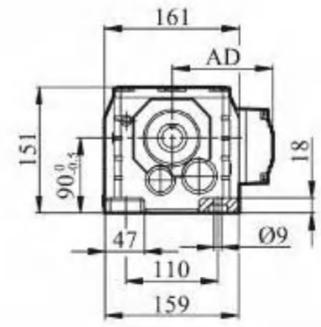
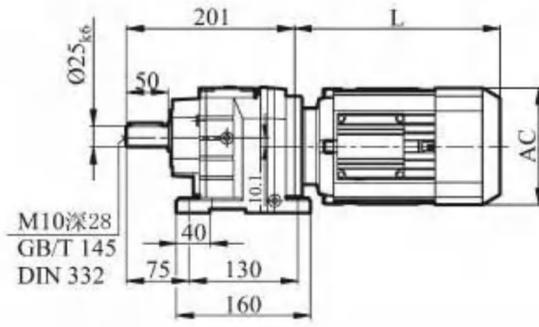
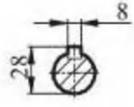
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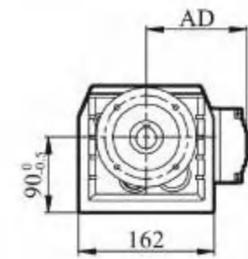
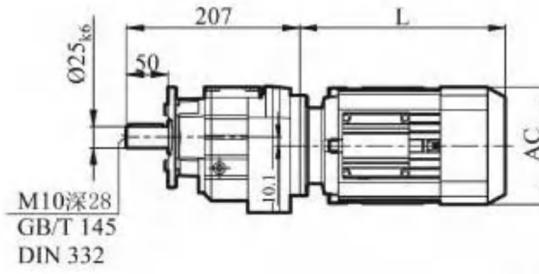
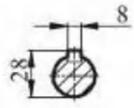
Y2电机机座号 Motor Size	63	71	80	90S	90L	100
L	226	240	288	301	326	349
AC	Φ130	□135	□145	□162	□162	□185
AD	100	110	140	155	155	180



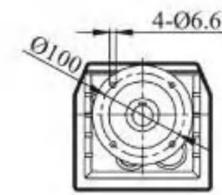
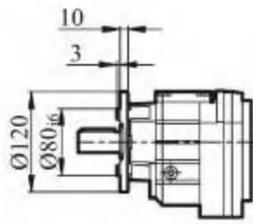
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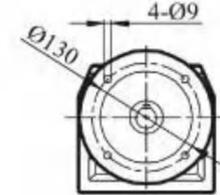
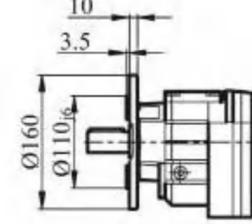
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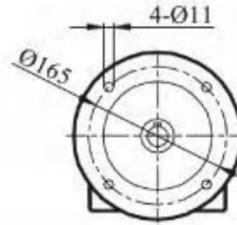
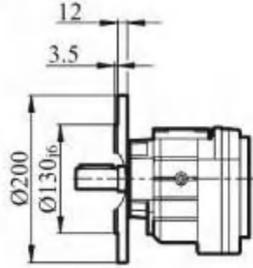
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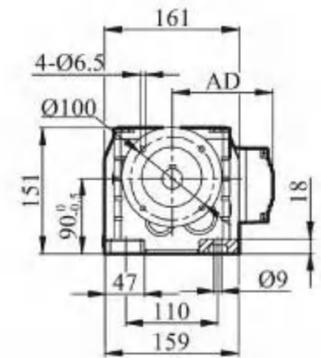
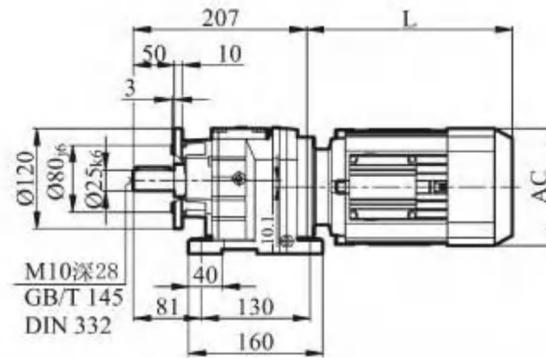
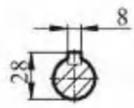
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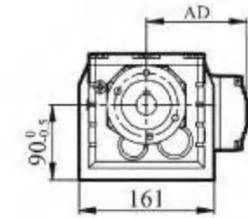
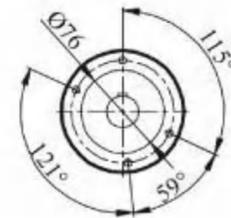
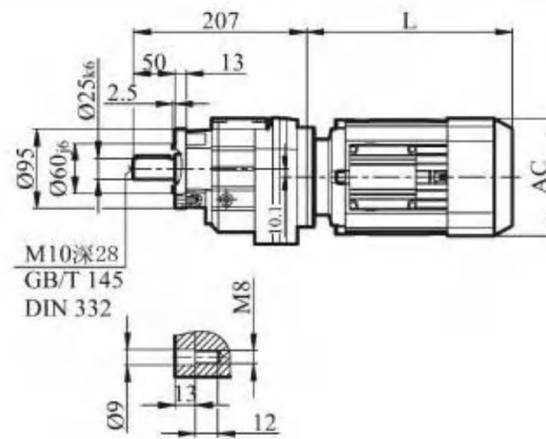
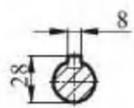
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GR37F

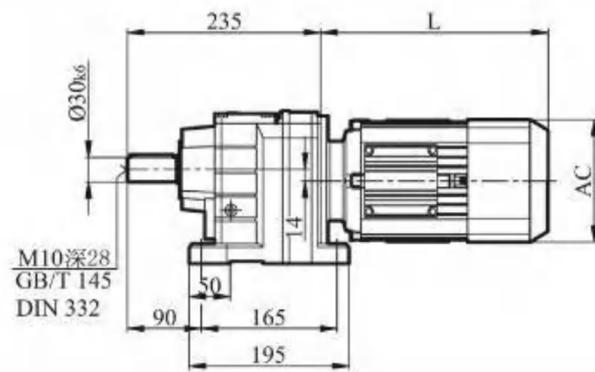
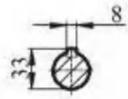


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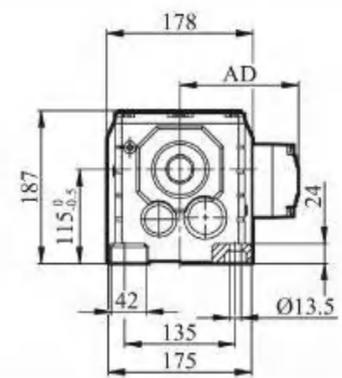


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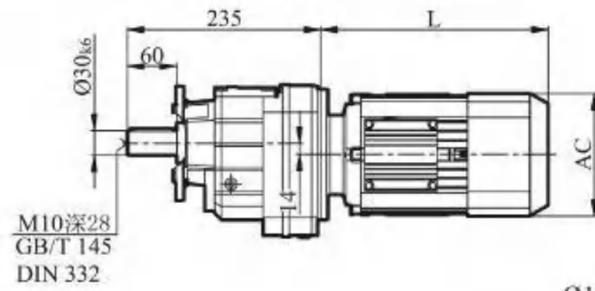
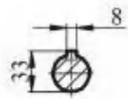
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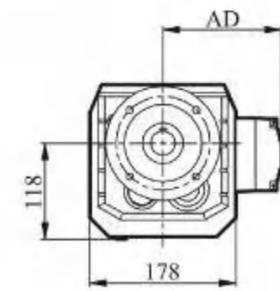
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DIN 332



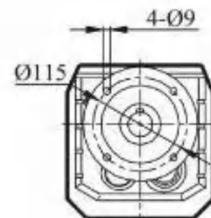
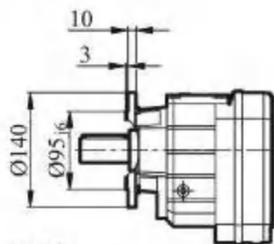
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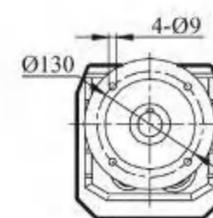
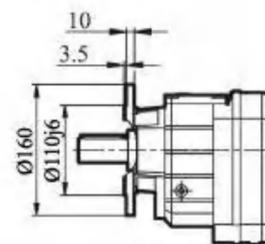
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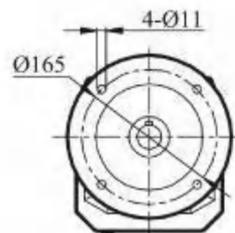
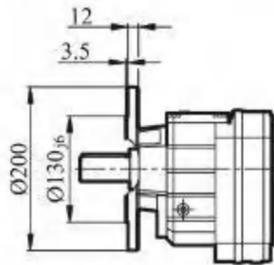
Ø140



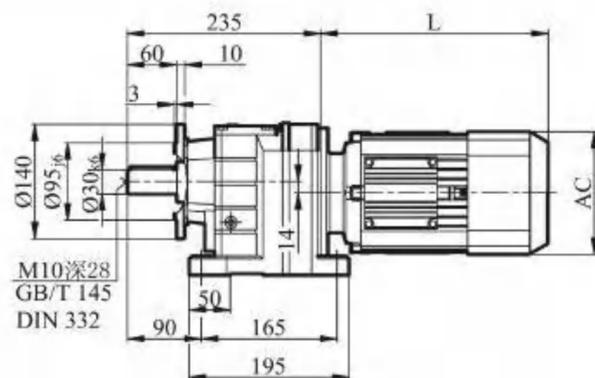
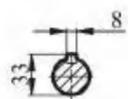
Ø160



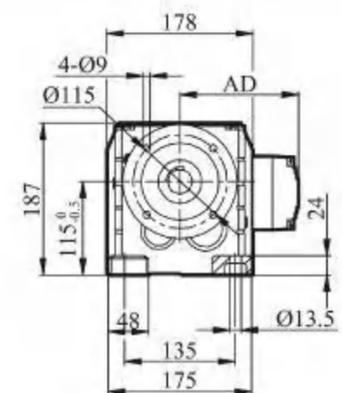
Ø200



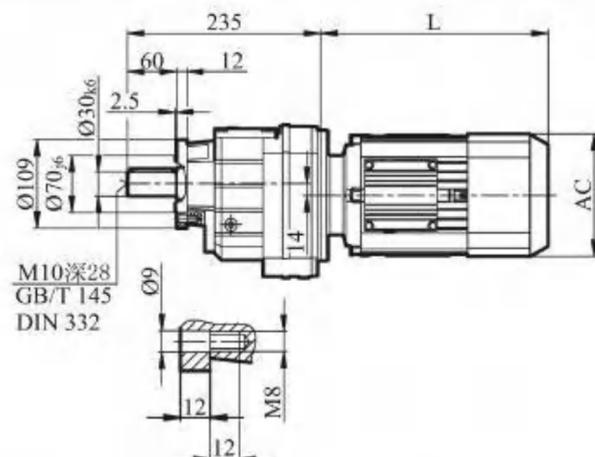
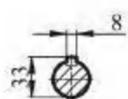
GR47F



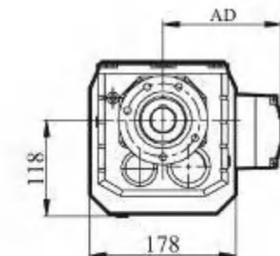
M10深28
GB/T 145
DIN 332



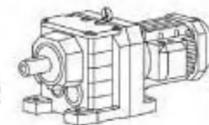
GRZ47



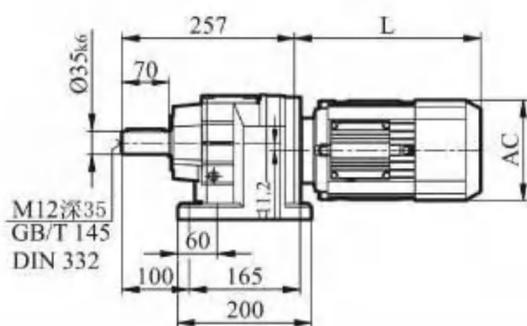
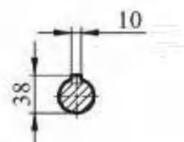
M10深28
GB/T 145
DIN 332



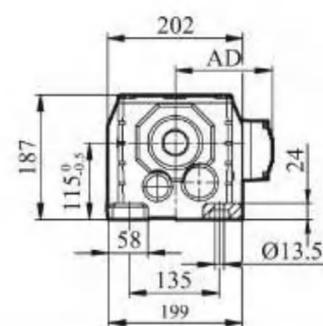
Y2电机机座号 Motor Size	63	71	80	90S	90L	100	112	132S
L	213	240	288	301	326	346	383	430
AC	Φ130	□135	□145	□162	□162	□185	□204	□260
AD	100	110	140	155	155	180	190	210



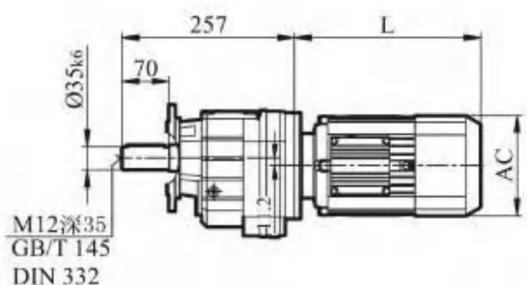
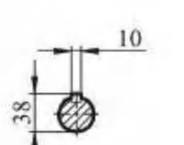
GR57



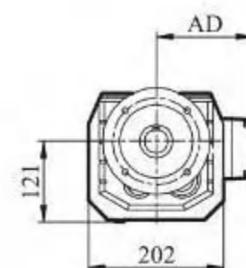
M12深35
GB/T 145
DIN 332



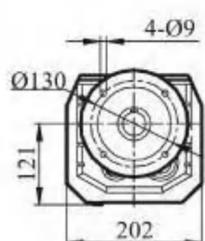
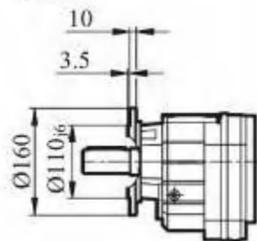
GRF57



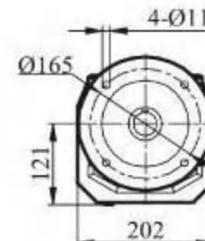
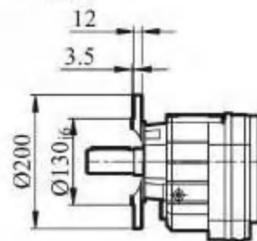
M12深35
GB/T 145
DIN 332



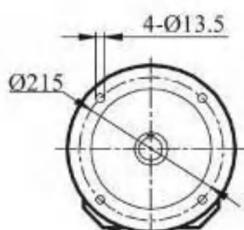
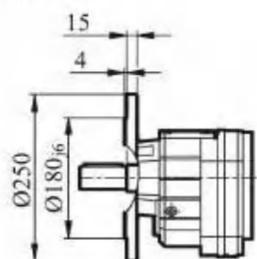
Ø160



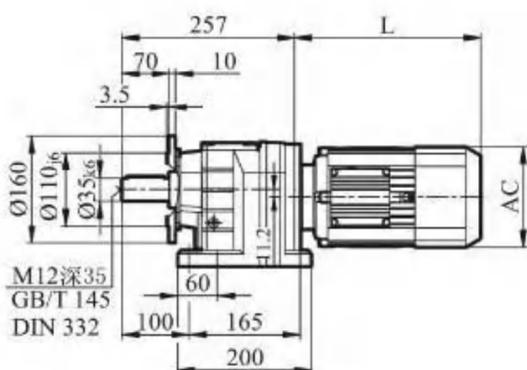
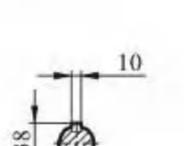
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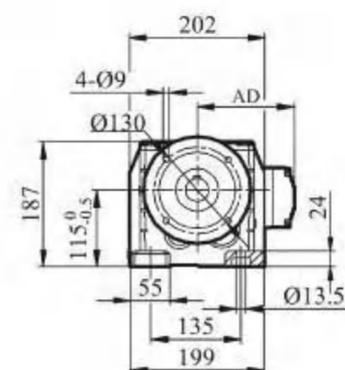
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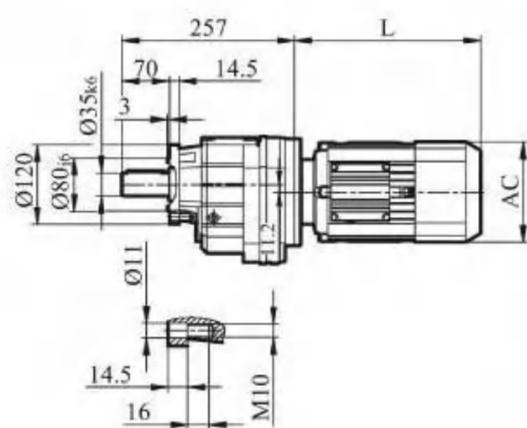
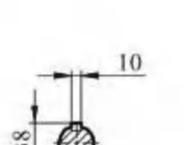
GR57F



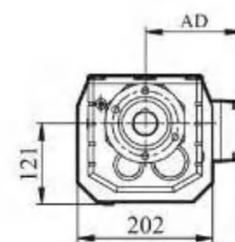
M12深35
GB/T 145
DIN 332



GRZ57

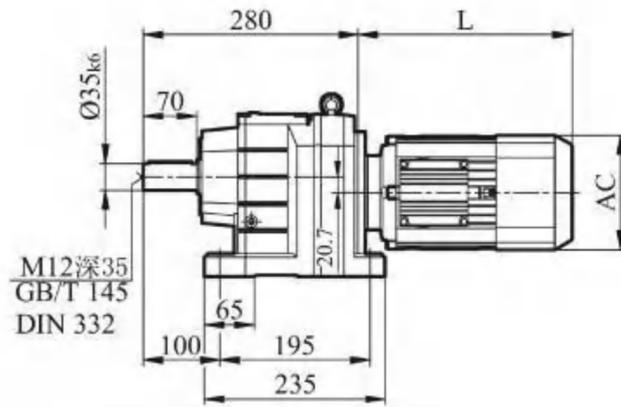
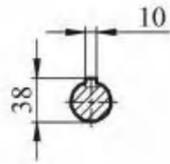


M10

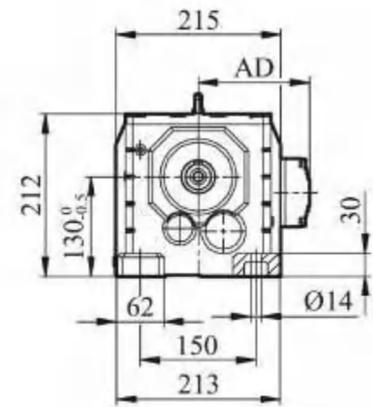


Y2电机机座号 Motor Size	63	71	80	90S	90L	100	112	132S
L	213	240	288	301	326	346	383	430
AC	Φ130	□135	□145	□162	□162	□185	□204	□260
AD	100	110	140	155	155	180	190	210

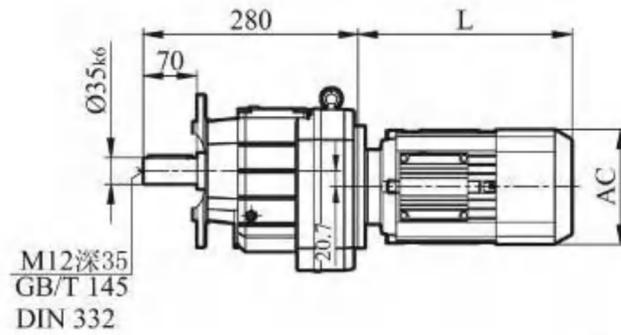
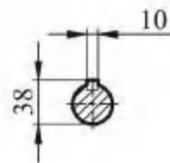
GR67



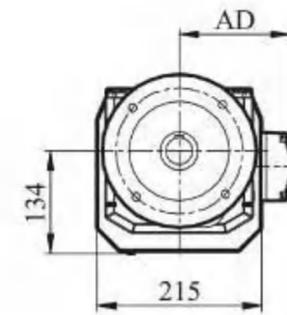
M12深35
GB/T 145
DIN 332



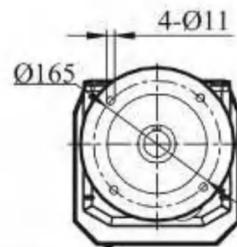
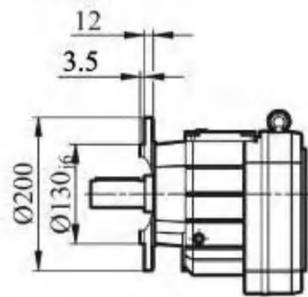
GRF67



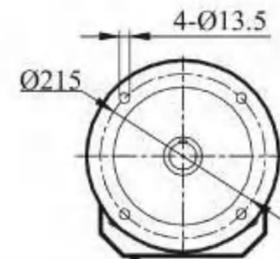
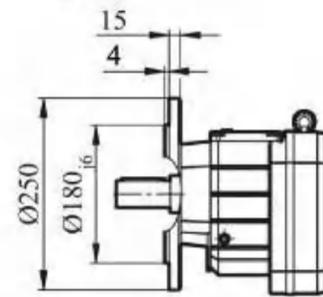
M12深35
GB/T 145
DIN 332



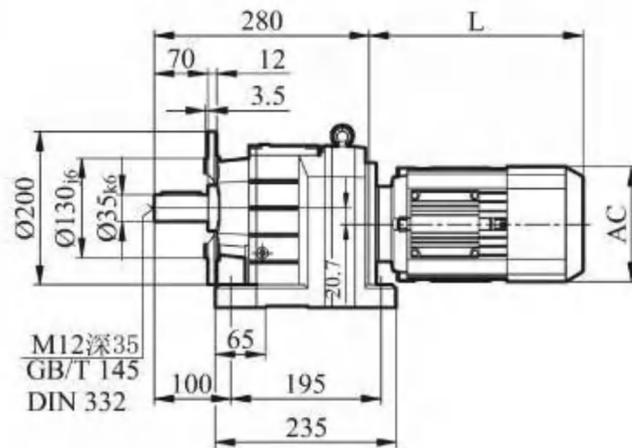
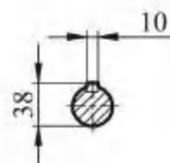
Ø200



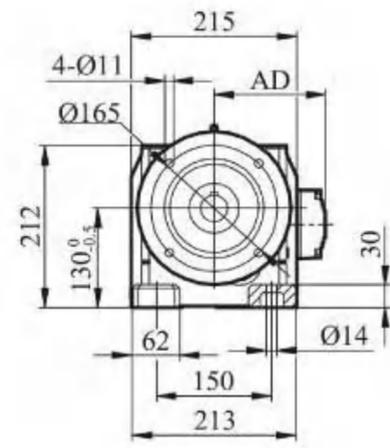
Ø250



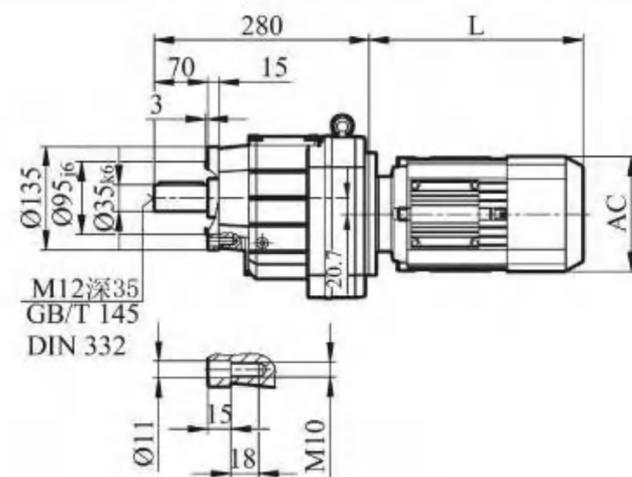
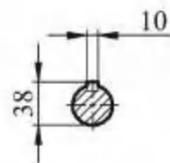
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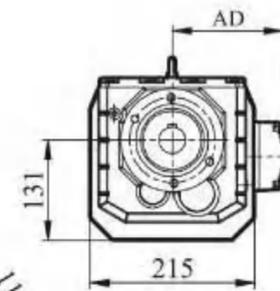
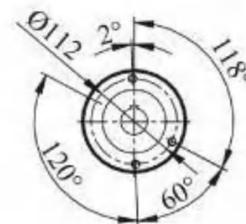
M12深35
GB/T 145
DIN 332



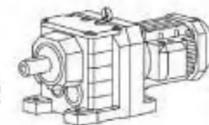
GRZ67



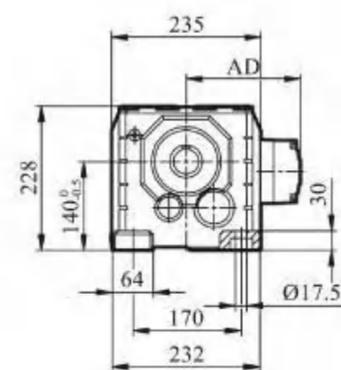
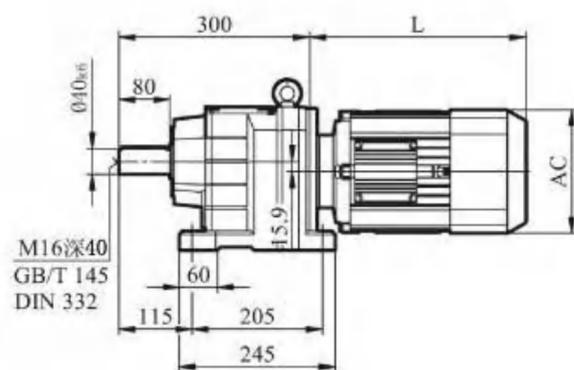
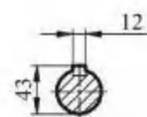
M12深35
GB/T 145
DIN 332



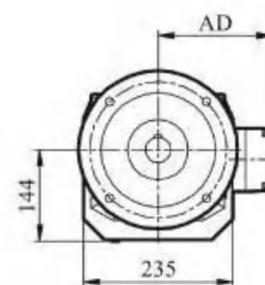
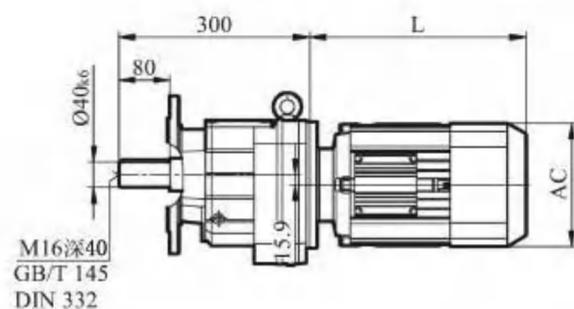
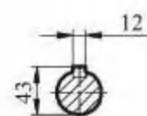
Y2电机机座号 Motor Size	63	71	80	90S	90L	100	112	132S
L	213	240	288	301	326	346	383	430
AC	Φ130	□135	□145	□162	□162	□185	□204	□260
AD	100	110	140	155	155	180	190	210



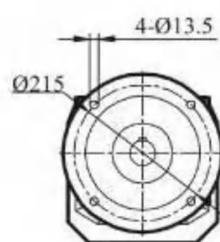
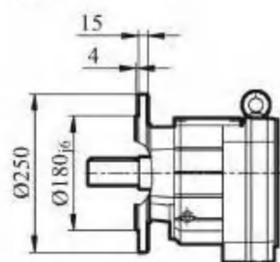
GR77



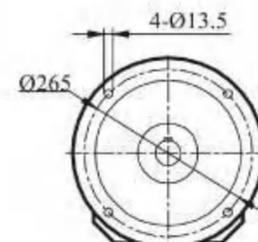
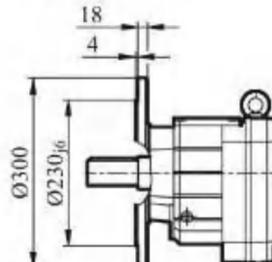
GRF77



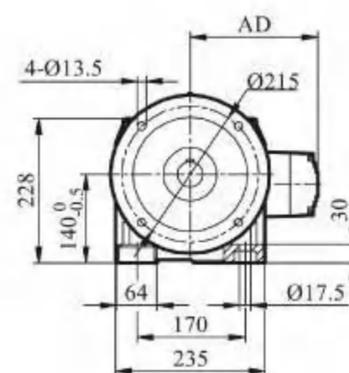
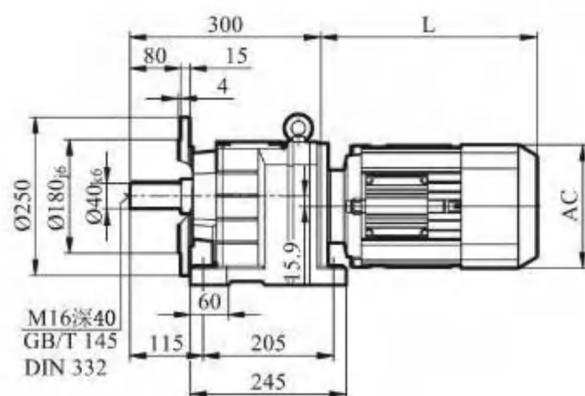
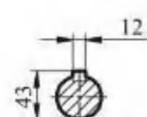
Ø250



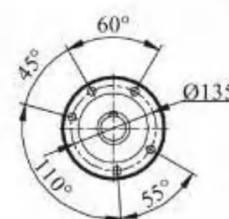
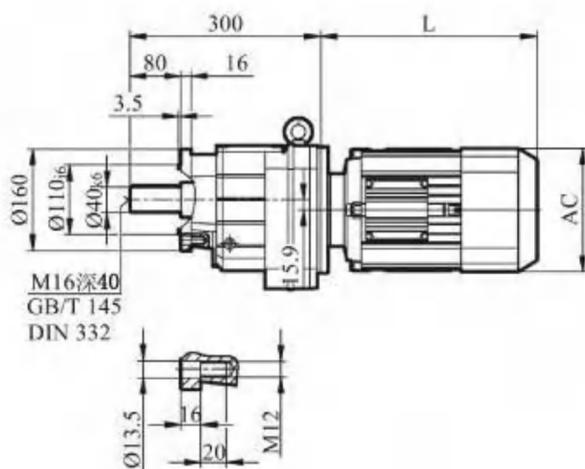
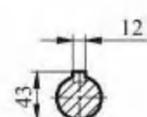
Ø300



GR77F

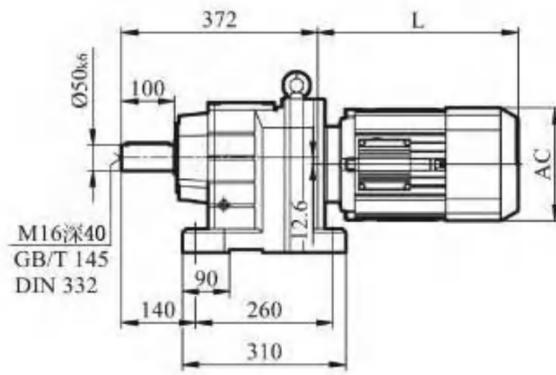
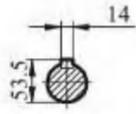


GRZ77

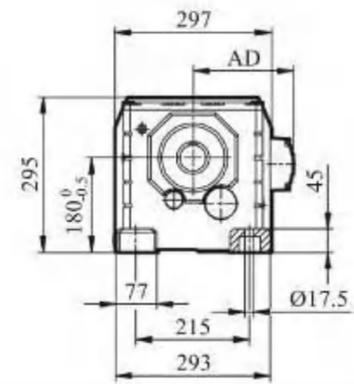


Y2电机机座号 Motor Size	71	80	90S	90L	100	112	132S	132M	160M
L	228	288	301	326	346	383	430	468	523
AC	□135	□145	□162	□162	□185	□204	□260	□260	Φ330
AD	110	140	155	155	180	190	210	210	255

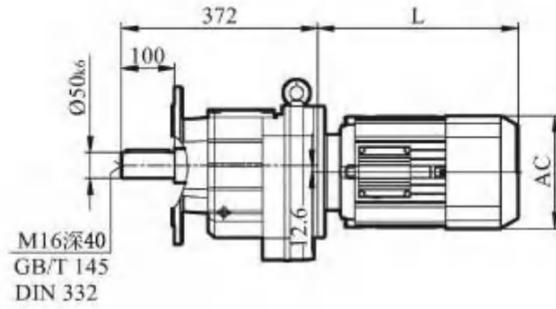
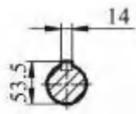
GR87



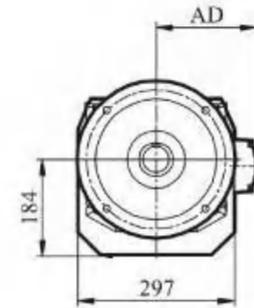
M16深40
GB/T 145
DIN 332



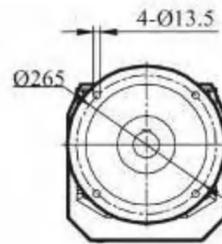
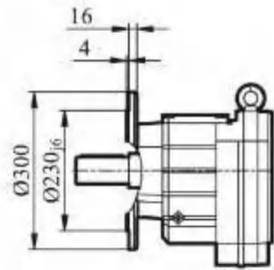
GRF87



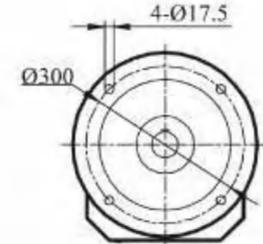
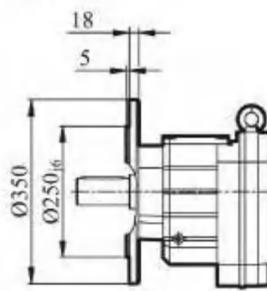
M16深40
GB/T 145
DIN 332



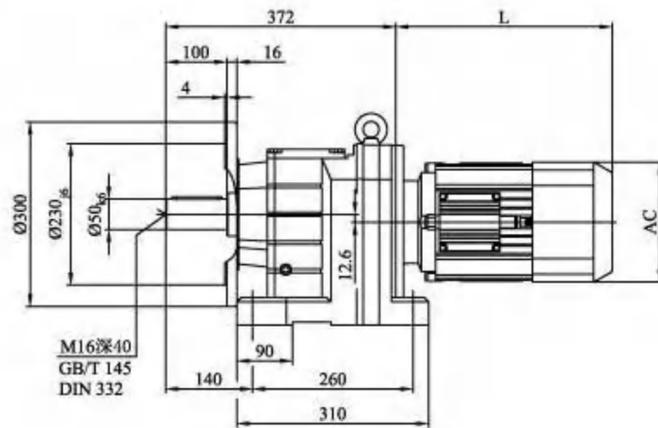
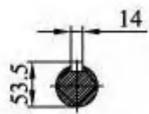
Ø300



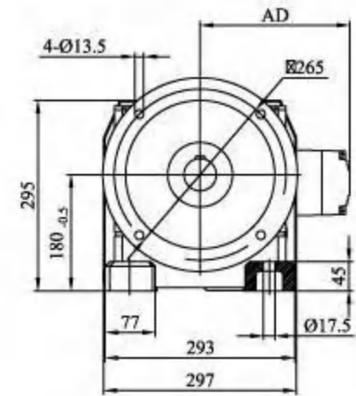
Ø350



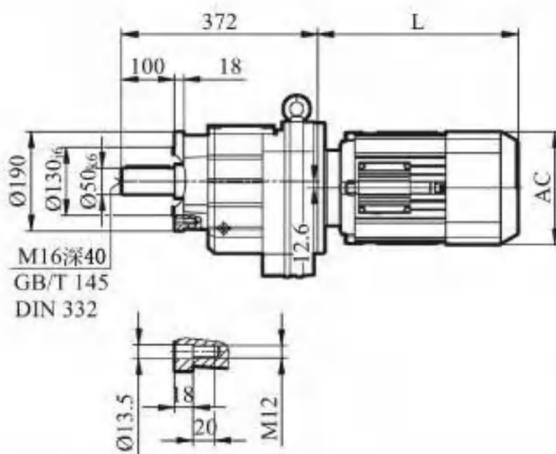
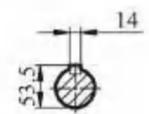
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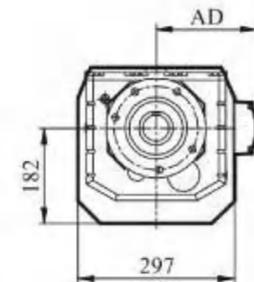
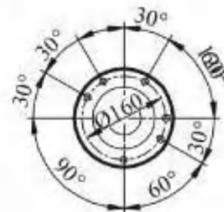
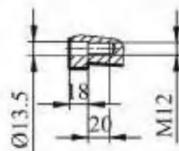
M16深40
GB/T 145
DIN 332



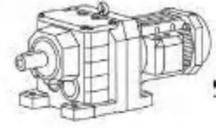
GRZ87



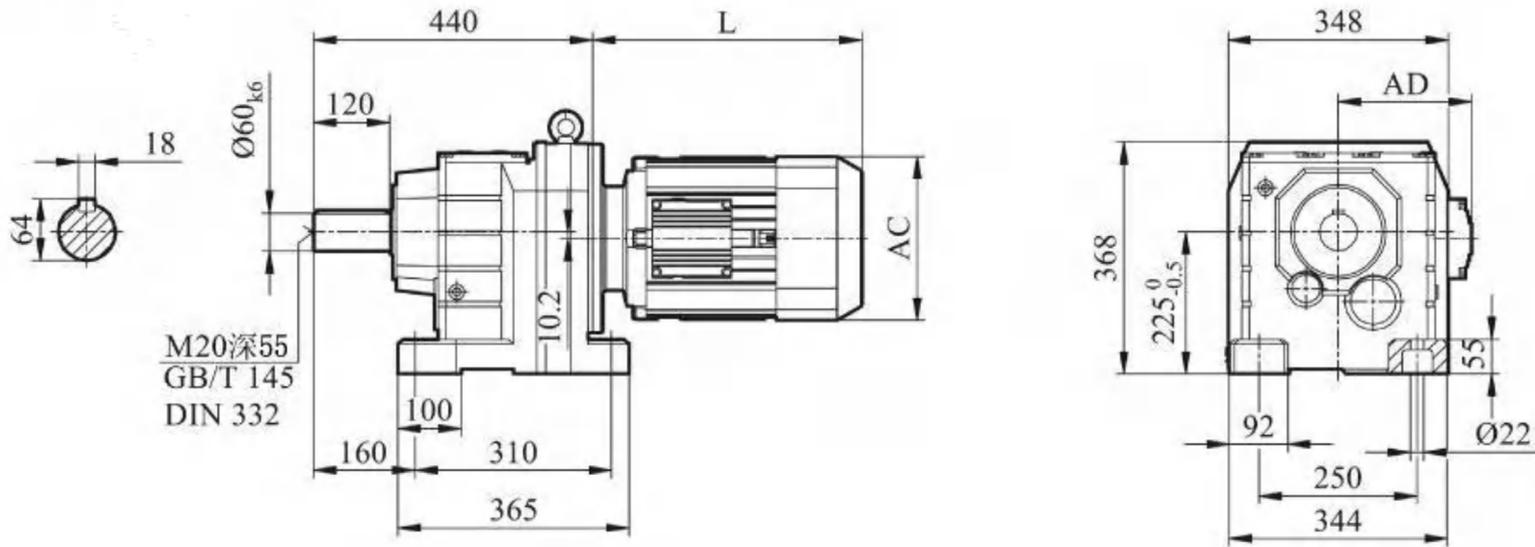
M16深40
GB/T 145
DIN 332



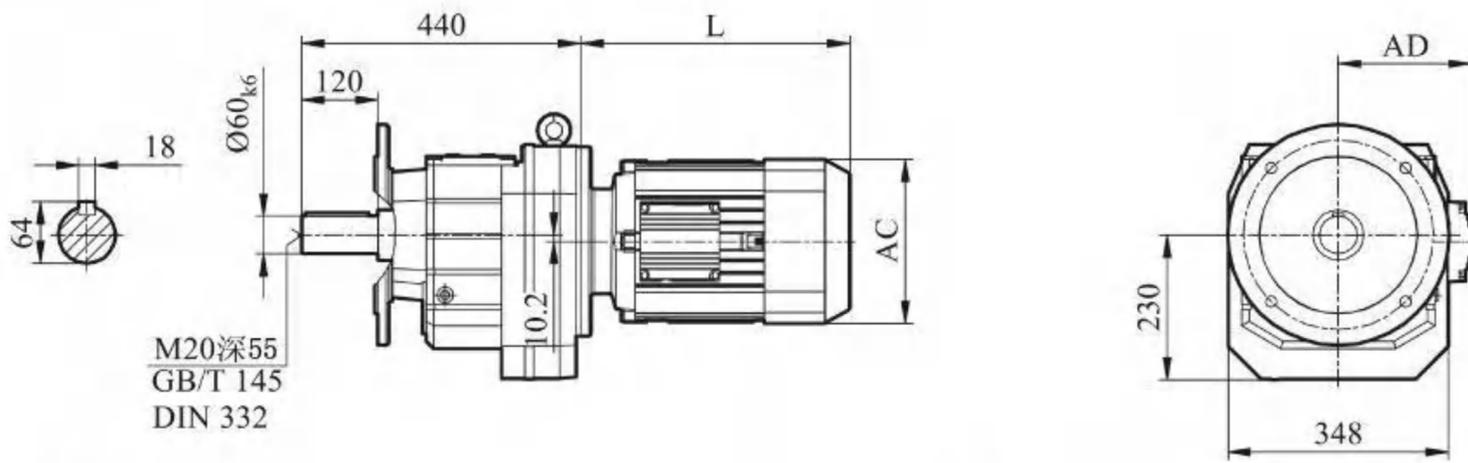
Y2电机机座号 Motor Size	80	90S	90L	100	112	132S	132M	160M	160L	180M	180L
L	256	277	302	346	383	430	468	523	567	602	642
AC	□145	□162	□162	□185	□204	□260	□260	φ330	φ330	φ380	φ380
AD	140	155	155	180	190	210	210	255	255	280	280



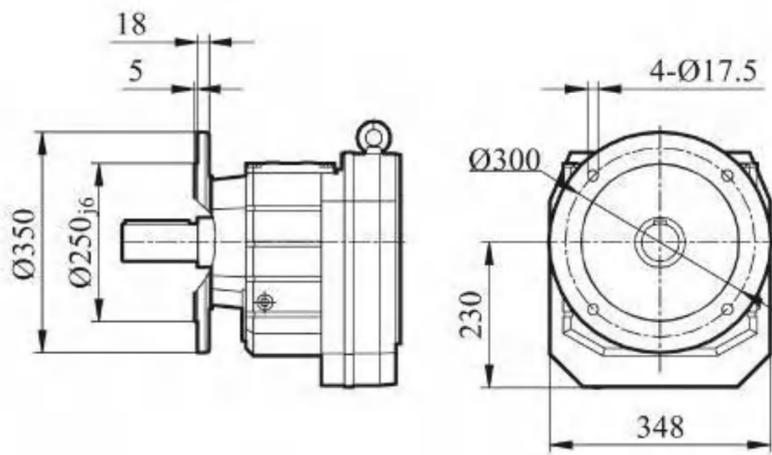
GR97



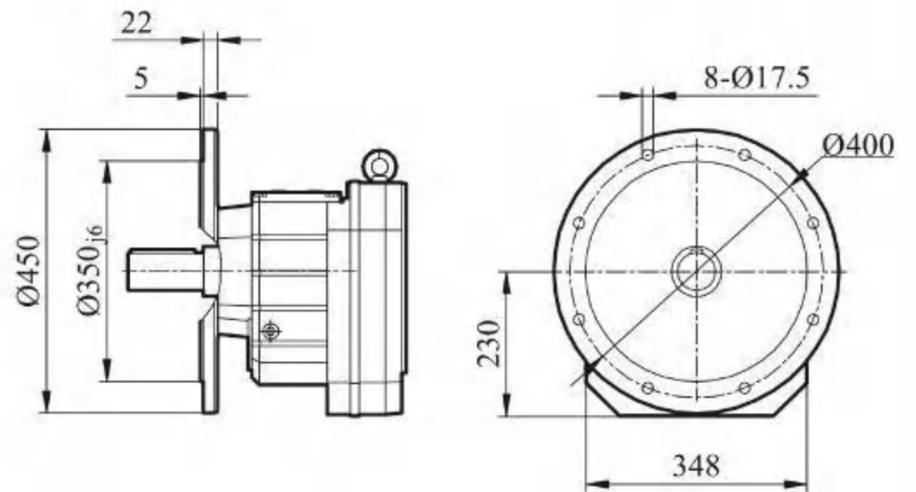
GRF97



Ø350

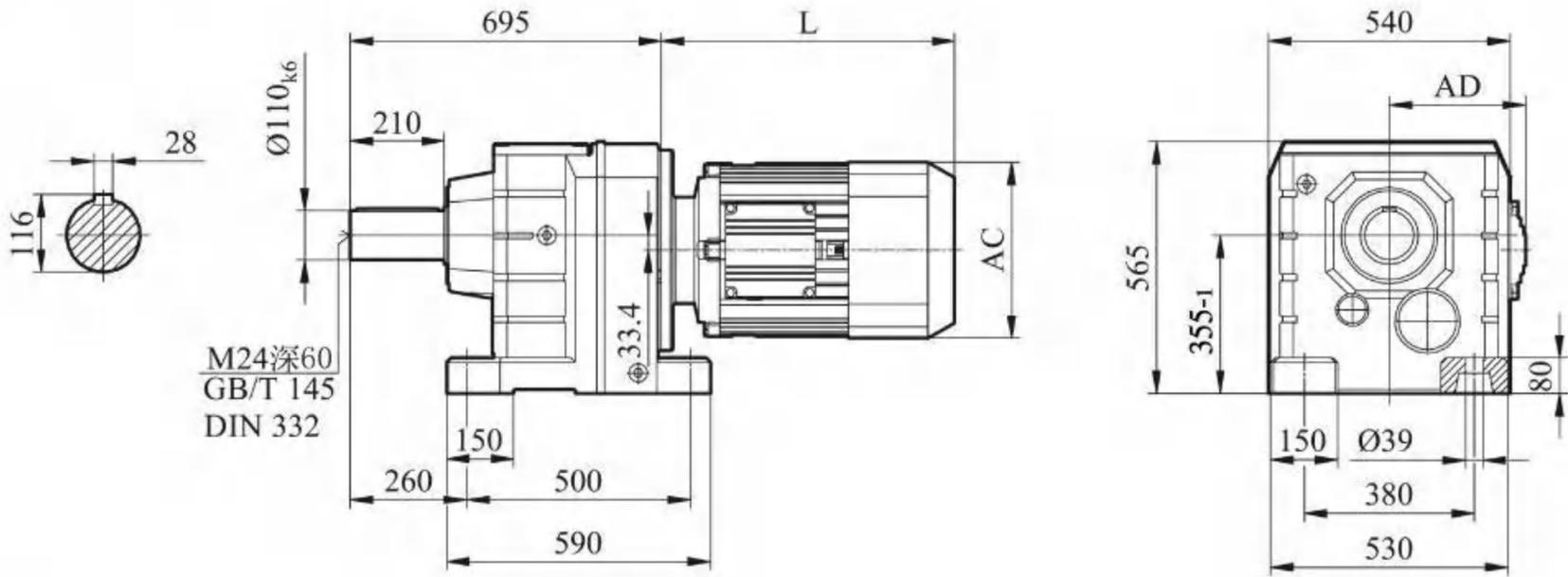


Ø450

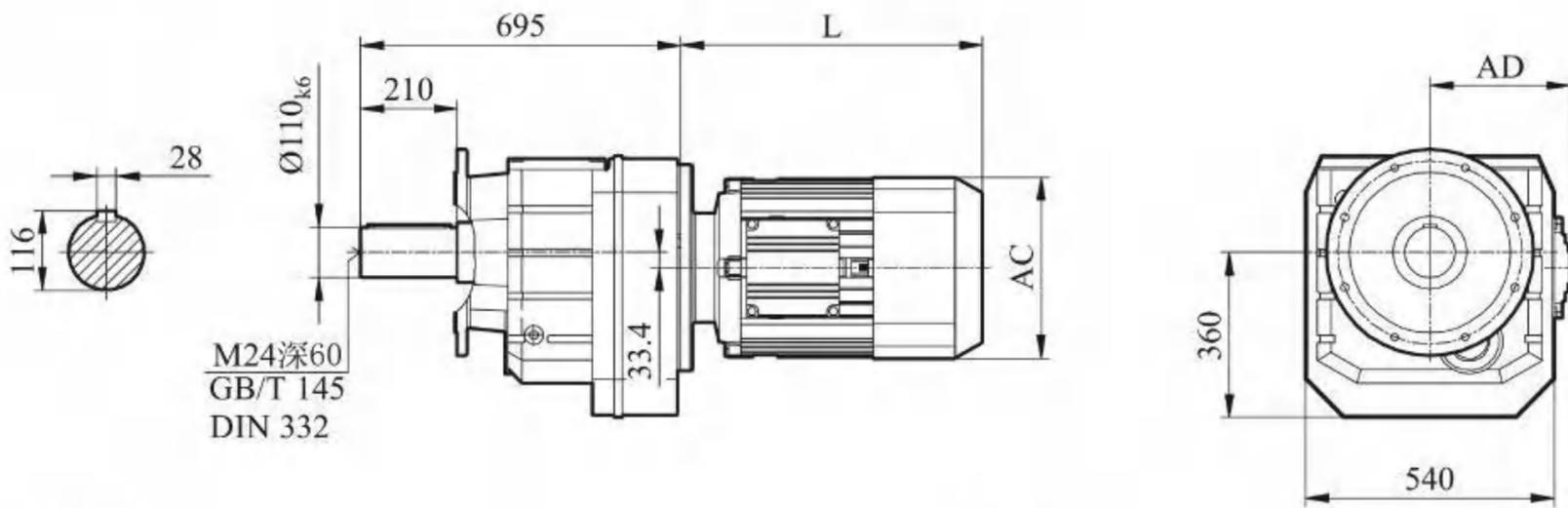


Y2电机机座号 Motor Size	90S	90L	100	112	132S	132M	160M	160L	180M	180L	200L
L	269	294	311	334	430	468	523	567	583	623	670
AC	□162	□162	□185	□204	□260	□260	φ330	φ330	φ380	φ380	φ420
AD	155	155	180	190	210	210	255	255	280	280	305

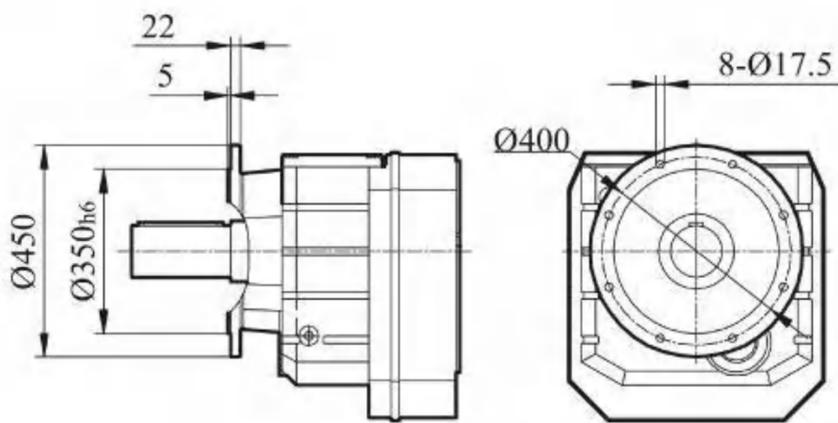
GR147



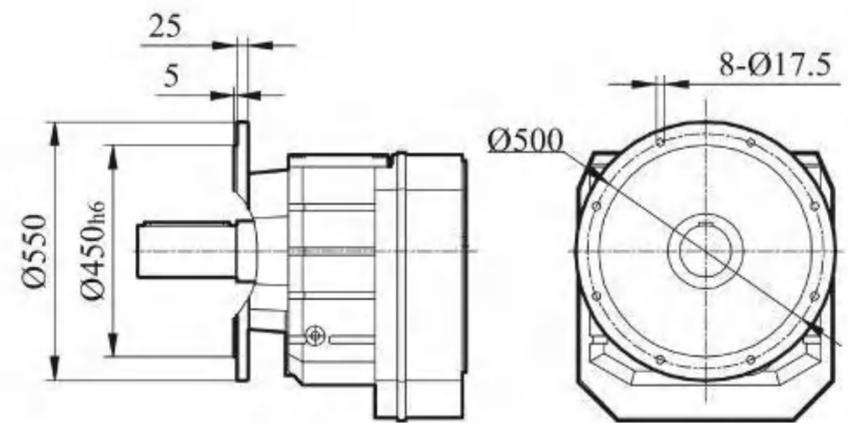
GRF147



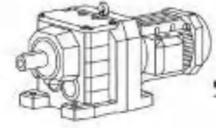
Ø450



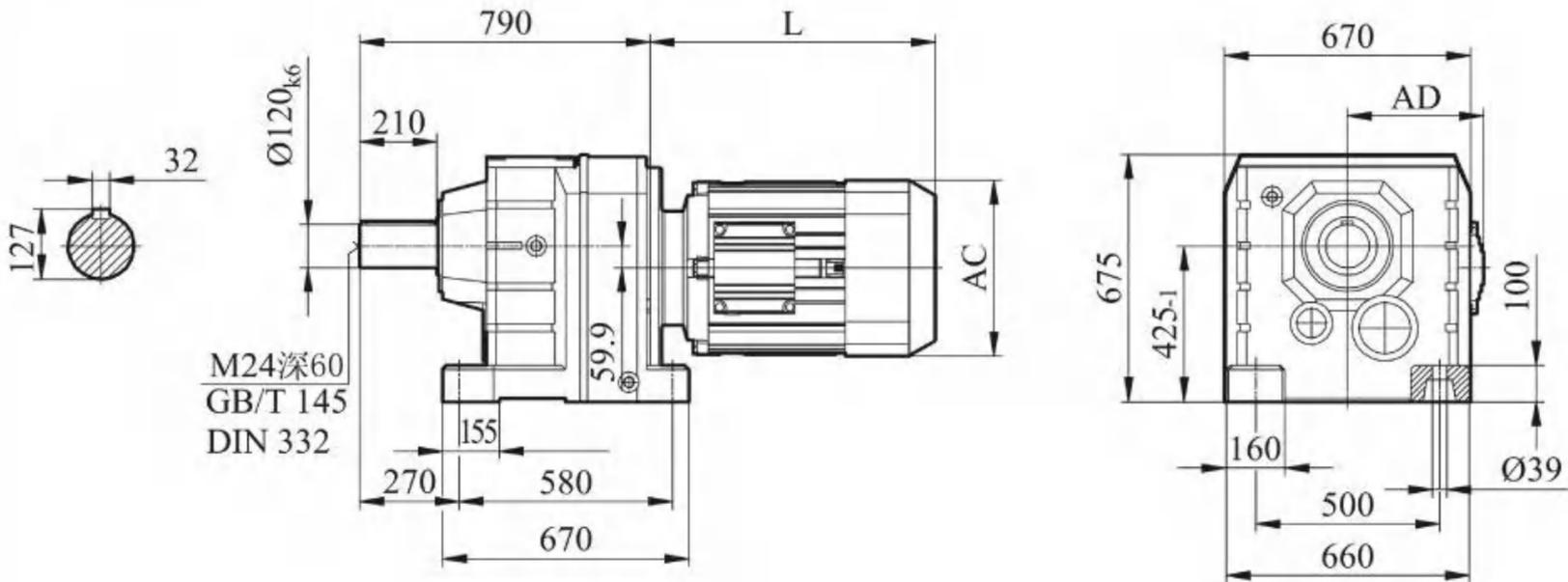
Ø550



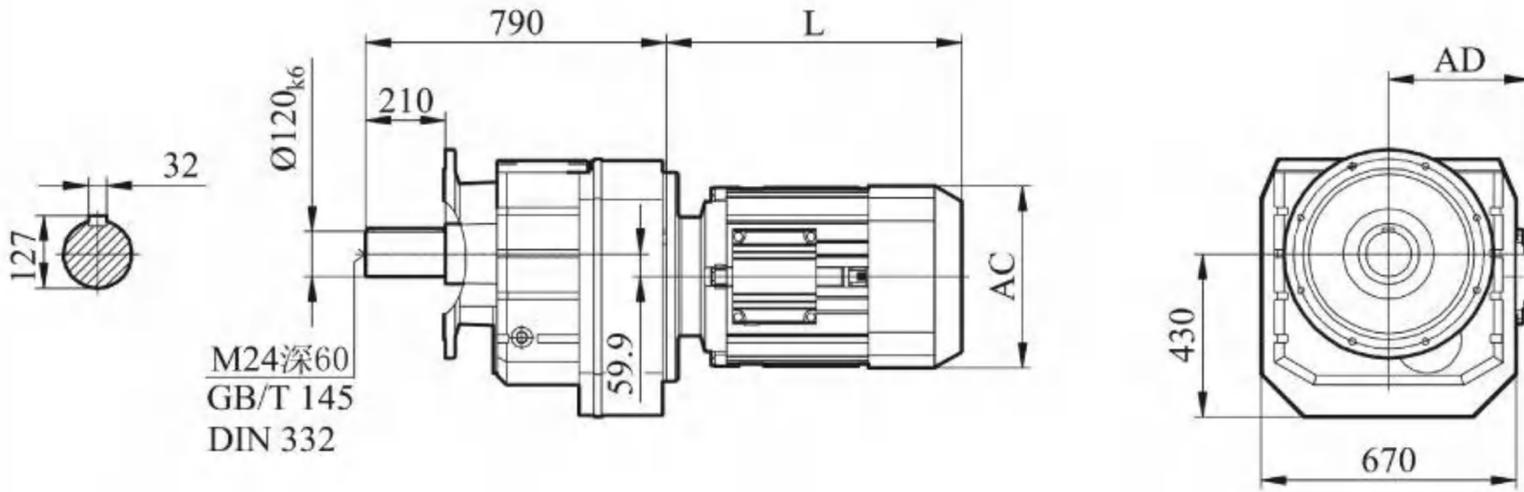
Y2电机机座号 Motor Size	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
L	393	431	475	519	555	595	658	673	698	786	849	900
AC	□260	□260	φ330	φ330	φ380	φ380	φ420	φ470	φ470	φ510	φ530	φ530
AD	210	210	255	255	280	280	305	335	335	370	410	410



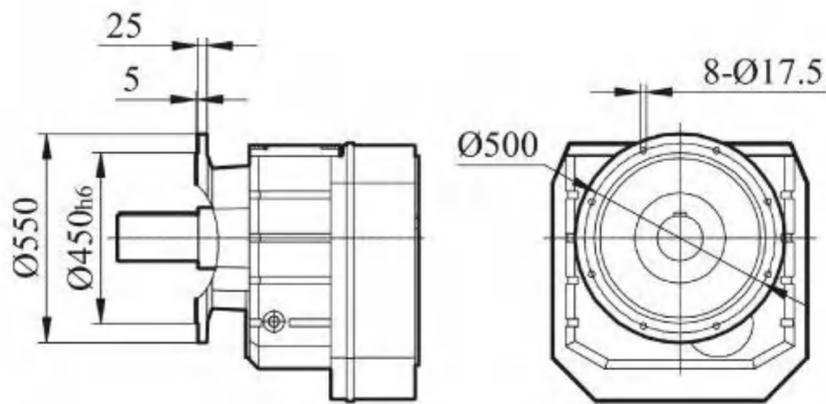
GR167



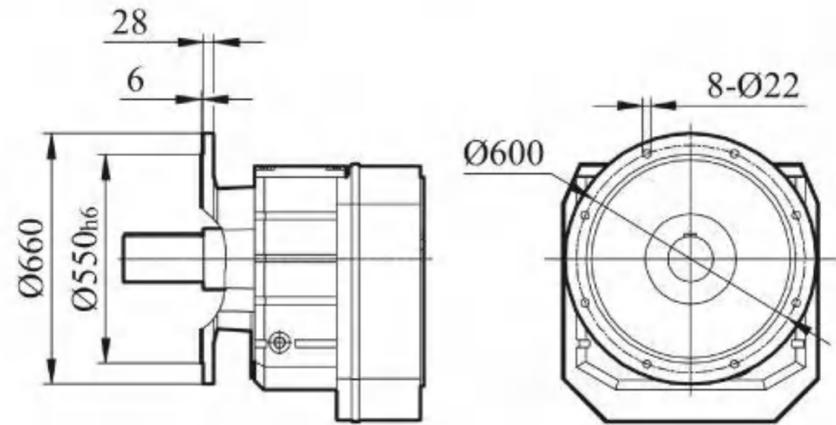
GRF167



Ø550

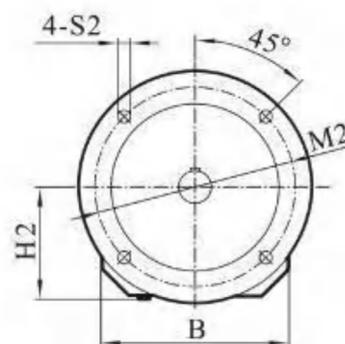
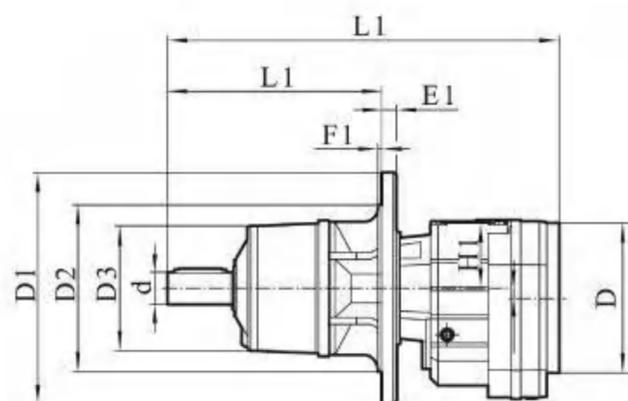


Ø660

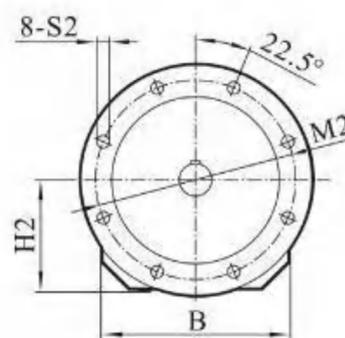
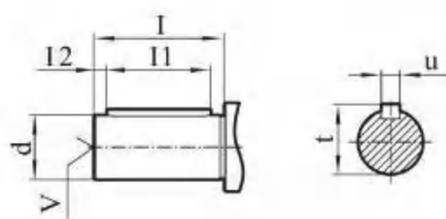


Y2电机机座号 Motor Size	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M	315L
L	475	519	583	623	646	668	693	781	837	888	1040	1150	1150
AC	φ330	φ330	φ380	φ380	φ420	φ470	φ470	φ510	φ530	φ530	φ645	φ645	φ645
AD	255	255	280	280	305	335	335	370	410	410	530	530	530

GRM57~GRM167外形尺寸/ GRM57~GRM167Dimensions



GRM57~GRM87

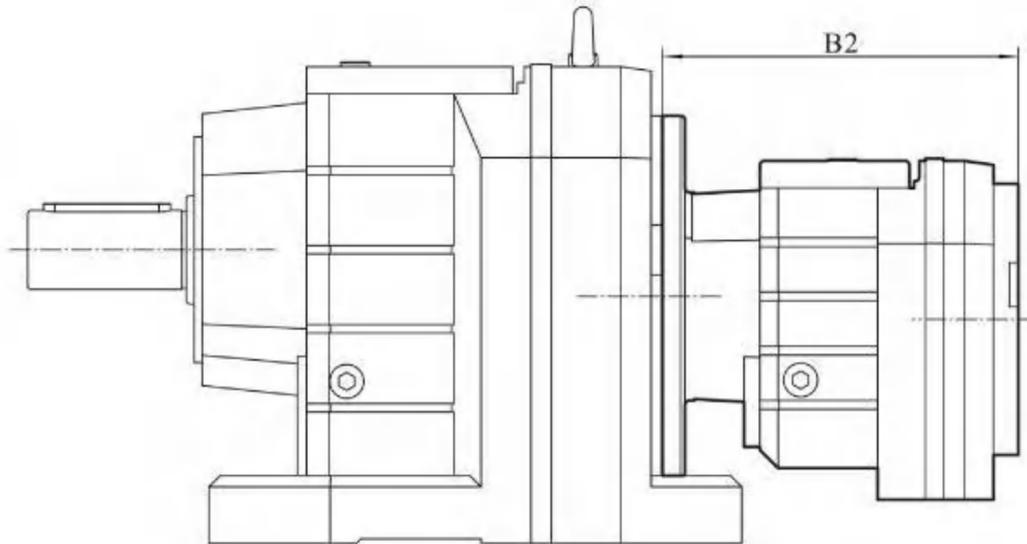


GRM97~GRM167

型号 Size	A	B	D1	D2	D3	E1 F1	H1 H2	M S2	L L1	D d	I	I1	I2	u	t	v
GRM57	11.2	202	250	180j6	135	15 4	72 121	215 13.5	420 230	160 35k6	70	60	5	10	38	M12
GRM67	20.7	215	300	230j6	144	16 4	82 134	265 13.5	459 240	160 40k6	80	70	5	12	43	M16
GRM77	15.9	235	350	250h6	170	18 5	88 144	300 17.5	527 300	200 50k6	100	80	10	14	53.5	M16
GRM87	12.6	297	350	250h6	186	18 5	88 144	300 17.5	639 360	250 50k6	120	110	5	18	64	M20
GRM97	10.2	348	450	350h6	214	22 5	144 230	400 17.5	745 420	300 70m6	140	125	7.5	20	74.5	M20
GRM107	20.4	409	550	450h6	232	25 5	158 255	500 17.5	864 500	350 80m6	170	125	20	22	85	M20
GRM137	25.1	458	550	450h6	253	25 5	180 320	500 17.5	1024 600	400 100m6	210	180	15	28	106	M24
GRM147	33.4	540	660	550h6	274	28 6	210 361	600 22	1154 660	450 110m6	210	180	15	28	116	M24
GRM167	59.9	670	660	550h6	290	28 6	250 430	600 22	1313 730	550 125m6	210	200	5	32	134	M24

6. 输入模块外形尺寸/ Dimensions of Input Module

6.1 GRF..外形尺寸/ GRF.. Dimensions



机座号/Frame size	B2
GR..27GRF17	134.5
GR..37GRF17	134.5
GR..47GRF37	165
GR..57GRF37	165
GR..67GRF37	165
GR..77GRF37	157
GR..87GRF57	201
GR..97GRF57	192
GR..107GRF77	223
GR..137GRF77	226
GR..147GRF77	205
GR..147GRF87	277
GR..167GRF97	329
GR..167GRF107	383

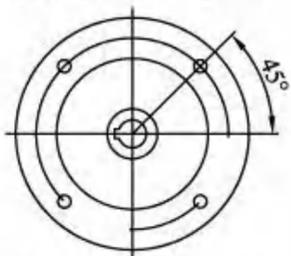
机座号/Frame size	B2
GF..27GRF17	134.5
GF..37GRF17	134.5
GF..47GRF17	134.5
GF..57GRF37	165
GF..67GRF37	165
GF..77GRF37	157
GF..87GRF57	201
GF..97GRF57	192
GF..107GRF77	223
GF..127GRF77	205
GF..127GRF87	277
GF..157GRF97	329

机座号/Frame size	B2
GK..37GRF17	134.5
GK..47GRF37	165
GK..57GRF37	165
GK..67GRF37	165
GK..77GRF37	157
GK..87GRF57	201
GK..97GRF57	192
GK..107GRF77	223
GK..127GRF77	205
GK..127GRF87	277
GK..157GRF97	329
GK..157GRF107	383
GK..167GRF97	329
GK..167GRF107	383
GK..187GRF97	329
GK..187GRF107	383

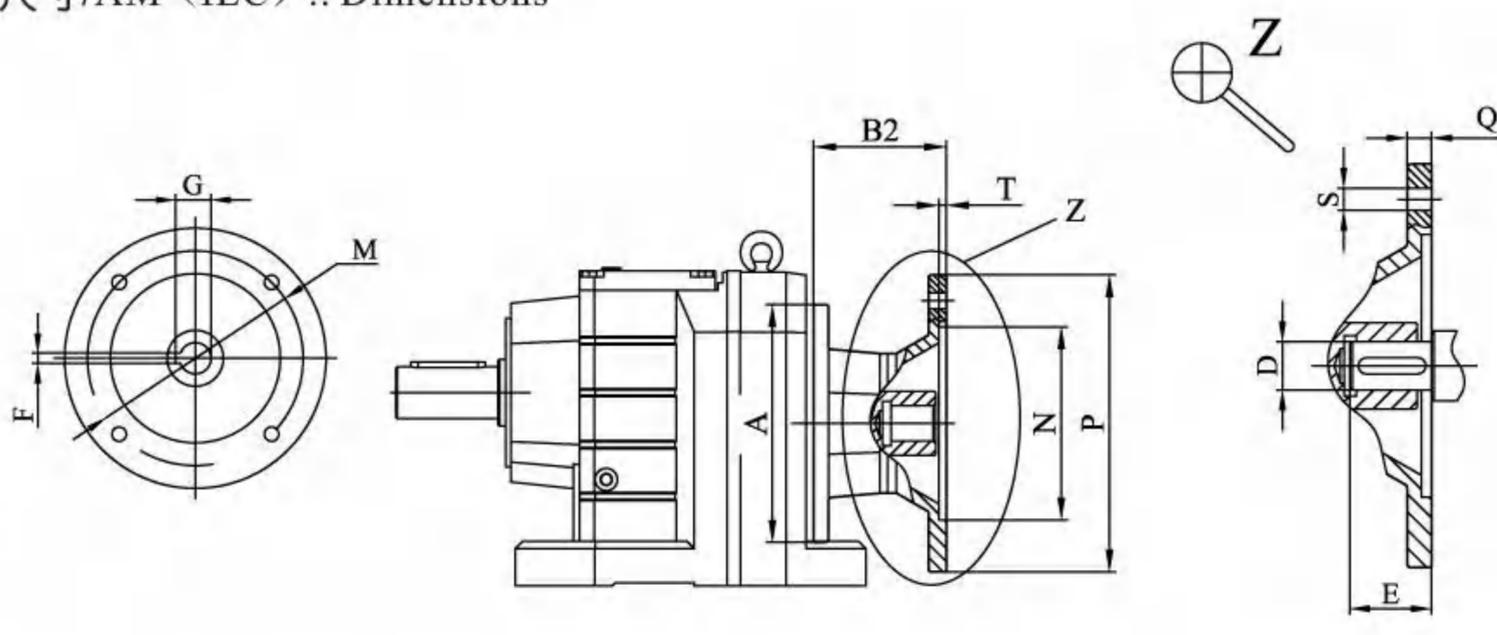
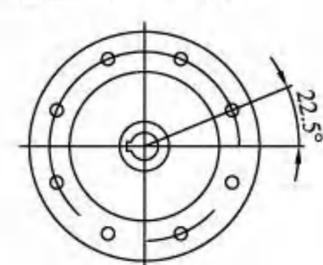
机座号/Frame size	B2
GS..37GRF17	134.5
GS..47GRF17	134.5
GS..57GRF17	134.5
GS..67GRF37	165
GS..77GRF37	157
GS..87GRF57	201
GS..97GRF57	192

6.2 AM(IEC)..外形尺寸/AM (IEC) .. Dimensions

法兰1/Flange.1



法兰2/Flange.2

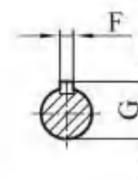
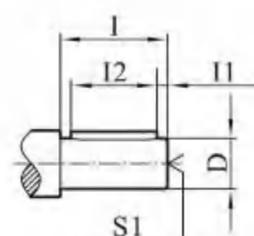
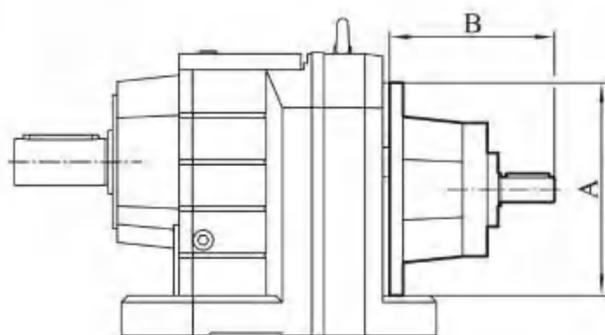
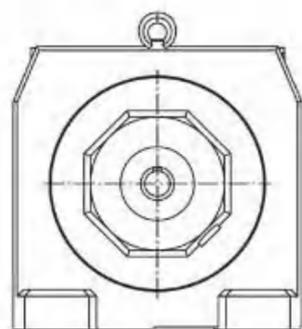


型号 Frame size	AM	Flange	A	B2	D	E	F	G	M	N	P	Q	S	T
GR..17/27/37 GF..27/37/47 GS..37/47/57 GK..37	AM63	1	120	70	11	23	4	12.8	115	95	140	10	4-Φ9	3.5
	AM71				14	30	5	16.3	130	110	160			
	AM80 AM90 AM100			90	19	40	6	21.8	165	130	200	12	4-Φ11	4.5
					24	50	8	27.3						
					28	60	8	31.3						
GR..47/57/67 GF..57/67 GS..67 GK..47/57/67	AM63	1	160	70	11	23	4	12.8	115	95	140	10	4-Φ9	3.5
	AM71				14	30	5	16.3	130	110	160			
	AM80 AM90			90	19	40	6	21.8	165	130	200	12	4-Φ11	4.5
					24	50	8	27.3						
	AM100			110	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	AM112													
	AM132S/M				140	38	80	10	41.3	265	230	300		
GR..77 GF..77 GS..77 GK..77	AM63	1	200	70	11	23	4	12.8	115	95	140	10	4-Φ9	3.5
	AM71				14	30	5	16.3	130	110	160			
	AM80 AM90			90	19	40	6	21.8	165	130	200	12	4-Φ11	4.5
					24	50	8	27.3						
	AM100			110	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	AM112													
	AM132S/M				140	38	80	10	41.3	265	230	300		
	AM160			180	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	GR..87 GF..87 GS..87 GK..87			AM80	1	250	90	19	40	6	21.8	165	130	200
AM90		24	50	8				27.3						
AM100		110	28	60			8	31.3	215	180	250	15	4-Φ13.5	5
AM112														
AM132S/M			140	38			80	10	41.3	265	230	300		
AM160		180	42	110			12	45.3	300	250	350	18	4-Φ17.5	6
AM180			48				14	51.8						

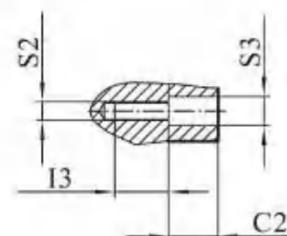
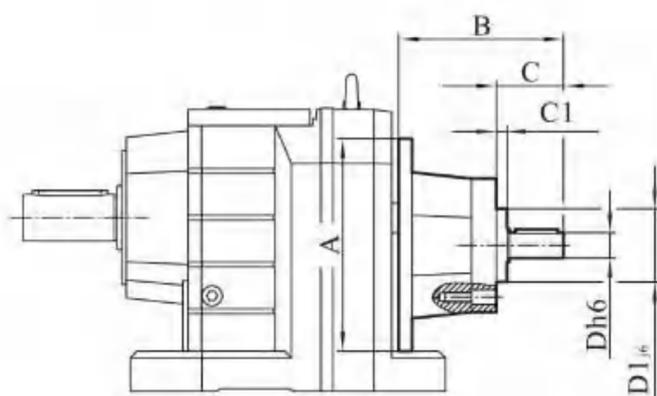
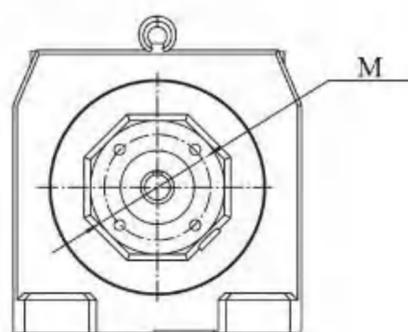
型号 Frame size	AM	Flange	A	B2	D	E	F	G	M	N	P	Q	S	T
GR..97 GF..97 GS..97 GK..97	AM90	1	300	90	24	50	8	27.3	165	130	200	12	4-Φ11	4.5
	AM100			110	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	AM112													
	AM132S/M			140	38	80	10	41.3	265	230	300	16	4-Φ17.5	6
	AM132ML													
	AM160			180	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	AM180													
AM200	210	55		16	59.3	350	300	400	20		7			
GR..107 GF..107 GK..107	AM100	1	350	110	28	60	8	31.3	215	180	250	15	4-Φ13.5	5
	AM112			140	38	80	10	41.3	265	230	300	16	4-Φ17.5	6
	AM132S/M													
	AM132ML			180	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	AM160													
	AM180			210	55		16	59.3	350	300	400	20		7
	AM200			250	60	140	18	64.4	400	350	450	22	8-Φ17.5	7
AM225														
GR..137	AM132S/M	1	400	140	38	80	10	41.3	265	230	300	16	4-Φ13.5	5
	AM132ML			180	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	AM160													
	AM180			250	60	140	18	64.4	400	350	450	22	8-Φ17.5	7
	AM200													
	AM225			320	65		18	69.4	500	450	550	25		7
	AM250			320	65	140	18	69.4	500	450	550	25	8-Φ17.5	7
AM250														
GR..147 GF..127 GK..127	AM132S/M	1	450	140	38	80	10	41.3	265	230	300	16	4-Φ13.5	5
	AM132ML			180	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	AM160													
	AM180			250	60	140	18	64.4	400	350	450	22	8-Φ17.5	7
	AM200													
	AM225			320	65		18	69.4	500	450	550	25		7
	AM250			320	65	140	18	69.4	500	450	550	25	8-Φ17.5	7
AM280	320	65												
GR..167 GF..157 GK..157 GK..167 GK..187	AM160	1	550	180	42	110	12	45.3	300	250	350	18	4-Φ17.5	6
	AM180			210	55	16	59.3	350	300	400	20	4-Φ17.5	6	
	AM200													250
	AM225			320	65	140	18	69.4	500	450	550	25	8-Φ17.5	
	AM250													320
	AM280			320	65		18	69.4	500	450	550	25		
	AM280			320	65	140	18	69.4	500	450	550	25	8-Φ17.5	7
AM280														

6.3 AD..外形尺寸/AD.. Dimensions

AD..



AD../ZR



型号 Frame size	AD..	A	B	C	C1	C2	D	D1	F	G	I	I1	I2	I3	M	S1	S2	S3	
GR..17/27	AD1	120	100	-	-	-	16	-	5	18	40	4	32	-	-	M5*12.5	-	-	
GF..27	AD2, AD2/ZR		114	50	8	13.5	19	55	6	21.5	40	4	32	12	78	M6*16	M8	9	
GR/GF..37	AD1		100	-	-	-	16	-	5	18	40	4	32	-	-	M5*12.5	-	-	
GK/GS..37	AD2, AD2/ZR		114	50	8	13.5	19	55	6	21.5	40	4	32	12	78	M6*16	M8	9	
GF..47	AD1		100	-	-	-	16	-	5	18	40	4	32	-	-	M5*12.5	-	-	
GS..47	AD2, AD2/ZR		114	50	8	13.5	19	55	6	21.5	40	4	32	12	78	M6*16	M8	9	
GS..57	AD1		100	-	-	-	16	-	5	18	40	4	32	-	-	M5*12.5	-	-	
	AD2, AD2/ZR		114	50	8	13.5	19	55	6	21.5	40	4	32	12	78	M6*16	M8	9	
GR..47	AD2, AD2/ZR		160	114	50	8	13.5	19	55	6	21.5	40	4	32	12	78	M6*16	M8	9
GK..47	AD3, AD3/ZR			130	60	8	15.5	24	70	8	27	50	5	40	16	98	M8*19	M10	11
GR/GF..57	AD2, AD2/ZR			114	50	8	13.5	19	55	6	21.5	40	4	32	12	78	M6*16	M8	9
GK..57	AD3, AD3/ZR			130	60	8	15.5	24	70	8	27	50	5	40	16	98	M8*19	M10	11
GR/GF..67	AD2, AD2/ZR	114		50	8	13.5	19	55	6	21.5	40	4	32	12	78	M6*16	M8	9	
GK/GS..67	AD3, AD3/ZR	130		60	8	15.5	24	70	8	27	50	5	40	16	98	M8*19	M10	11	
GR/GF..77 GK/GS..77	AD2, AD2/ZR	200		114	50	8	13.5	19	55	6	21.5	40	4	32	12	78	M6*16	M8	9
	AD3, AD3/ZR			130	60	8	15.5	24	70	8	27	50	5	40	16	98	M8*19	M10	11
	AD4, AD4/ZR			186	95.5	13	16	38	92	10	41	80	5	70	20	120	M12*28	M12	13.5
GR/GF..87 GK/GS..87	AD2, AD2/ZR	250		114	50	8	13.5	19	55	6	21.5	40	4	32	12	78	M6*16	M8	9
	AD3, AD3/ZR			135	70	8	15.5	28	70	8	31	60	5	50	16	98	M8*19	M10	11
	AD4, AD4/ZR			186	95.5	13	16	38	92	10	41	80	5	70	20	120	M12*28	M12	13.5
	AD5, AD5/ZR		240	126	11	24	42	120	12	45	110	10	70	20	160	M16*36	M12	13.5	

型号 Frame size	AD..	A	B	C	C1	C2	D	D1	F	G	I	I1	I2	I3	M	S1	S2	S3
GR/GF..97 GK/GS..97	AD3, AD3/ZR	300	135	70	8	15.5	28	70	8	31	60	5	50	16	98	M8*19	M10	11
	AD4, AD4/ZR		186	95.5	13	16	38	92	10	41	80	5	70	20	120	M12*28	M12	13.5
	AD5, AD5/ZR		240	126	11	24	42	120	12	45	110	10	70	20	160	M16*36	M12	13.5
	AD6, AD6/ZR		271.5	130.5	11	22.5	48	130	14	51.5	110	10	80	26	193	M16*36	M16	17.5
GR..107 GF..107 GK..107	AD3, AD3/ZR	350	135	70	8	15.5	28	70	8	31	60	5	50	16	98	M8*19	M10	11
	AD4, AD4/ZR		186	95.5	13	16	38	92	10	41	80	5	70	20	120	M12*28	M12	13.5
	AD5, AD5/ZR		240	126	11	24	42	120	12	45	110	10	70	20	160	M16*36	M12	13.5
	AD6, AD6/ZR		271.5	130.5	11	22.5	48	130	14	51.5	110	10	80	26	193	M16*36	M16	17.5
GF..127 GK..127	AD4, AD4/ZR	450	186	95.5	13	16	38	92	10	41	80	5	70	20	120	M12*28	M12	13.5
	AD5, AD5/ZR		240	126	11	24	42	120	12	45	110	10	70	20	160	M12*28	M12	13.5
	AD6, AD6/ZR		271.5	130.5	11	22.5	48	130	14	51.5	110	10	80	26	193	M16*36	M16	17.5
	AD7, AD7/ZR		282.5	133	13	19	55	125	16	59	110	10	90	30	190	M20*42	M20	22
	AD8, AD8/ZR		374	155	15	22.5	70	120	20	74.5	140	15	110	19.5	210	M20*42	M12	13.5
GR..137	AD4, AD4/ZR	400	186	95.5	13	16	38	92	10	41	80	5	70	20	120	M12*28	M12	13.5
	AD5, AD5/ZR		240	126	11	24	42	120	12	45	110	10	70	20	160	M16*36	M12	13.5
	AD6, AD6/ZR		271.5	130.5	11	22.5	48	130	14	51.5	110	10	80	26	193	M16*36	M16	17.5
	AD7, AD7/ZR		282.5	133	13	19	55	125	16	59	110	10	90	30	190	M20*42	M20	22
GR147	AD4, AD4/ZR	450	186	95.5	13	16	38	92	10	41	80	5	70	20	120	M12*28	M12	13.5
	AD5, AD5/ZR		240	126	11	24	42	120	12	45	110	10	70	20	160	M12*28	M12	13.5
	AD6, AD6/ZR		271.5	130.5	11	22.5	48	130	14	51.5	110	10	80	26	193	M16*36	M16	17.5
	AD7, AD7/ZR		282.5	133	13	19	55	125	16	59	110	10	90	30	190	M20*42	M20	22
	AD8, AD8/ZR		374	155	15	22.5	70	120	20	74.5	140	15	110	19.5	210	M20*42	M12	13.5
GF..157 GK..157	AD5, AD5/ZR	550	240	126	11	24	42	120	12	45	110	10	70	20	160	M12*28	M12	13.5
	AD6, AD6/ZR		271.5	130.5	11	22.5	48	130	14	51.5	110	10	80	26	193	M16*36	M16	17.5
	AD7, AD7/ZR		282.5	133	13	19	55	125	16	59	110	10	90	30	190	M20*42	M20	22
	AD8, AD8/ZR		374	155	15	22.5	70	120	20	74.5	140	15	110	19.5	210	M20*42	M12	13.5
GR..167 GK..167	AD5, AD5/ZR	550	240	126	11	24	42	120	12	45	110	10	70	20	160	M16*36	M12	13.5
	AD6, AD6/ZR		271.5	130.5	11	22.5	48	130	14	51.5	110	10	80	26	193	M16*36	M16	17.5
	AD7, AD7/ZR		282.5	133	13	19	55	125	16	59	110	10	90	30	190	M20*42	M20	22
	AD8, AD8/ZR		374	155	15	22.5	70	120	20	74.5	140	15	110	19.5	210	M20*42	M12	13.5
GK..187	AD5, AD5/ZR	550	240	126	11	24	42	120	12	45	110	10	70	20	160	M16*36	M12	13.5
	AD6, AD6/ZR		271.5	130.5	11	22.5	48	130	14	51.5	110	10	80	26	193	M16*36	M16	17.5
	AD7, AD7/ZR		282.5	133	13	19	55	125	16	59	110	10	90	30	190	M20*42	M20	22
	AD8, AD8/ZR		374	155	15	22.5	70	120	20	74.5	140	15	110	19.5	210	M20*42	M12	13.5