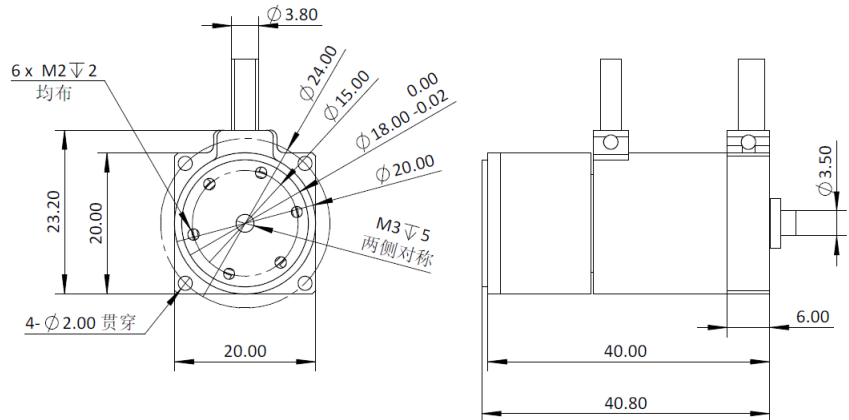
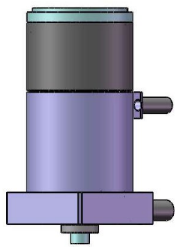
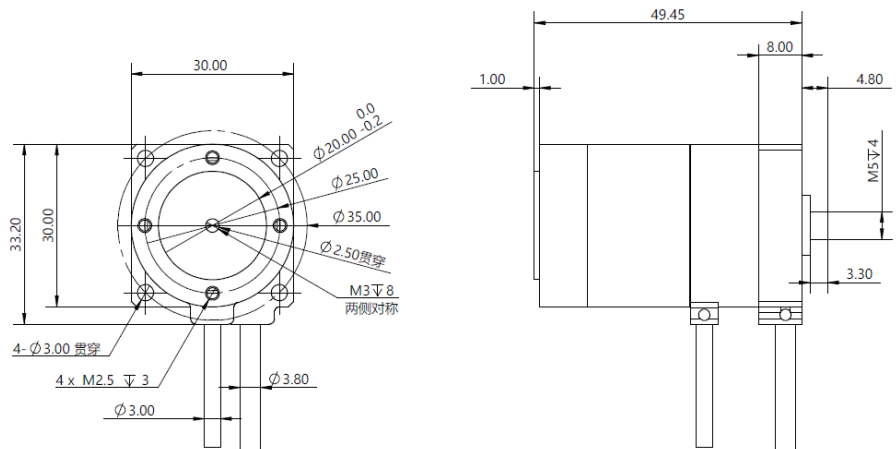
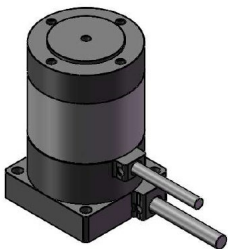


Parameters	Unit	ACR20-041	ACR30-049	ACR30-059
Height	mm	20	30	30
Outer Diameter	mm	40.8	49.45	58.75
Peak Torque	Nm	0.09	0.24	0.36
Continuous Torque	Nm	0.03	0.08	0.12
Peak Current	Arms	1.92	1.92	1.92
Continuous current	Arms	0.64	0.64	0.64
Torque constant	Nm/Arms	0.047	0.125	0.188
Resistance @ 25°C	Ohm	4.84	7.9	6.3
Inductance @ 1kHz	mH	0.24	1.68	1.6
Back EMF constant	Vp/krpm	2.4	9.8	19.7
Max Speed	Rpm	1000	500	800
Resolution	Count/rev	409600	409600	409600
Encoder(absolute)	Bit	-	-	-
Radial/Axial run-out	um	<8	<8	<8
Mass	g	60	138	157
Rotor inertia	gcm ²	50	102	153
Pole pairs		7	7	7
Rotor		Ironcore	Ironcore	Ironcore

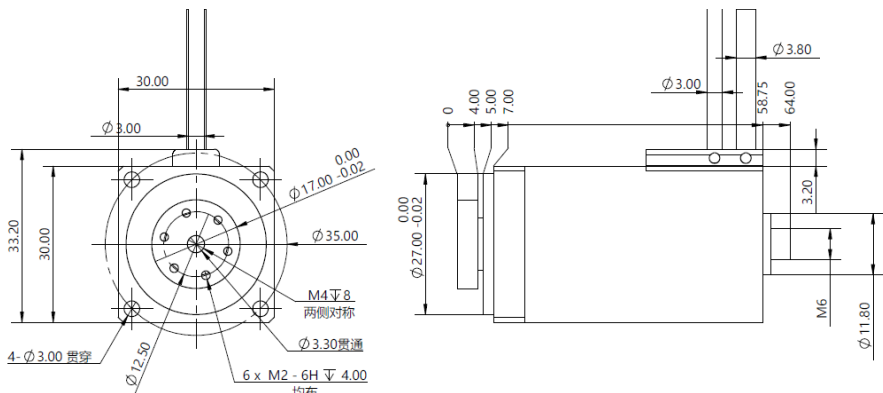
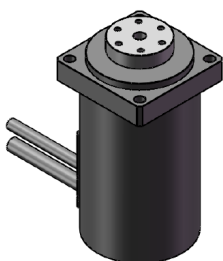
ACR20-041_ (Unit: mm)



ACR30-049_ (Unit: mm)

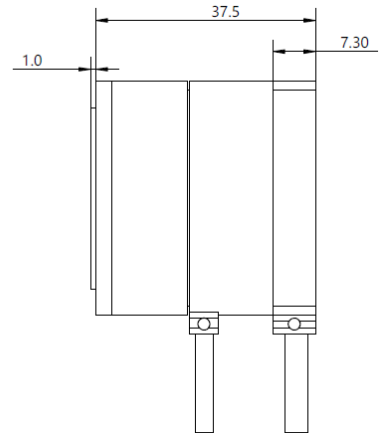
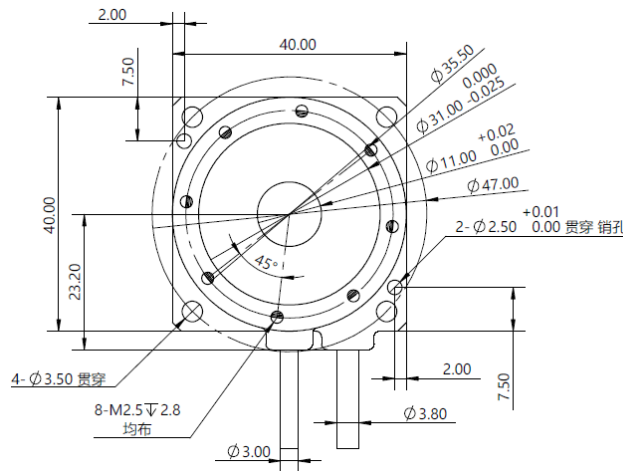
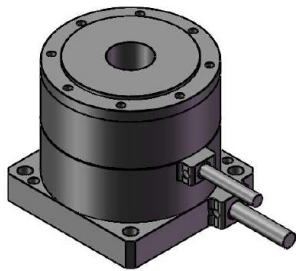


ACR30-051I_ (Unit: mm)

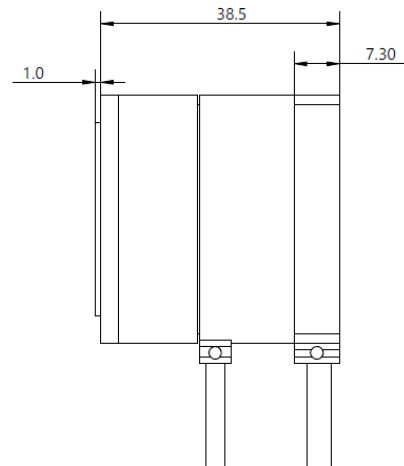
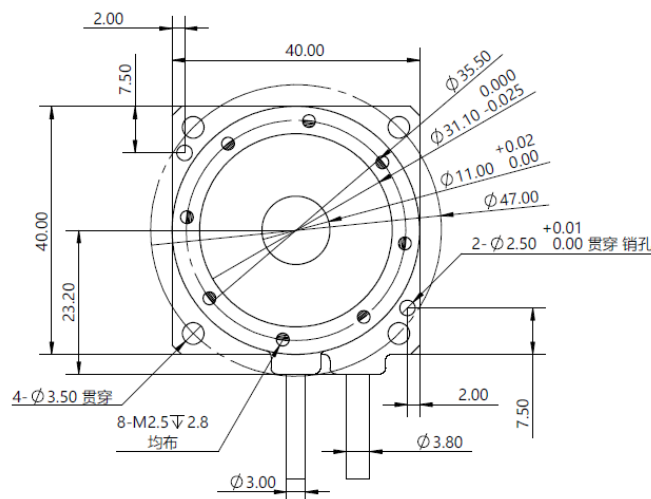
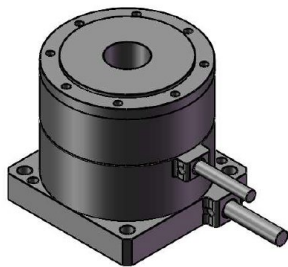


Parameters	Unit	ACR40-038	ACR40-039A	ACR40-43	ACR40-48	ACR40-050A
Height	mm	40	40	40	40	40
Outer Diameter	mm	37.5	38.5	43.5	48.5	50.5
Peak Torque	Nm	0.39	0.39	0.6	0.78	0.78
Continuous Torque	Nm	0.13	0.13	0.2	0.26	0.26
Peak Current	Arms	1.9	1.9	1.9	1.9	1.9
Continuous current	Arms	0.63	0.63	0.63	0.63	0.63
Torque constant	Nm/Arms	0.21	0.21	0.32	0.41	0.41
Resistance @ 25°C	Ohm	9.14	9.14	10.5	13.4	13.4
Inductance @ 1kHz	mH	1.12	1.12	1.24	1.6	1.6
Back EMF constant	Vp/krpm	22	22	22	22	22
Max Speed	Rpm	500	490	490	490	490
Resolution	Count/rev	819200	-	819200	819200	-
Encoder(absolute)	Bit	-	19	-	-	19
Radial/Axial run-out	um	<8	<8	<8	<8	<8
Mass	g	162	162	192	230	235
Rotor inertia	gcm ²	104	106	220	246	246
Pole pairs		11	11	11	11	11
Rotor		Ironcore	Ironcore	Ironcore	Ironcore	Ironcore

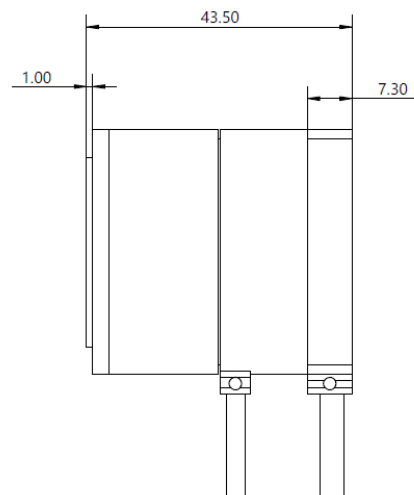
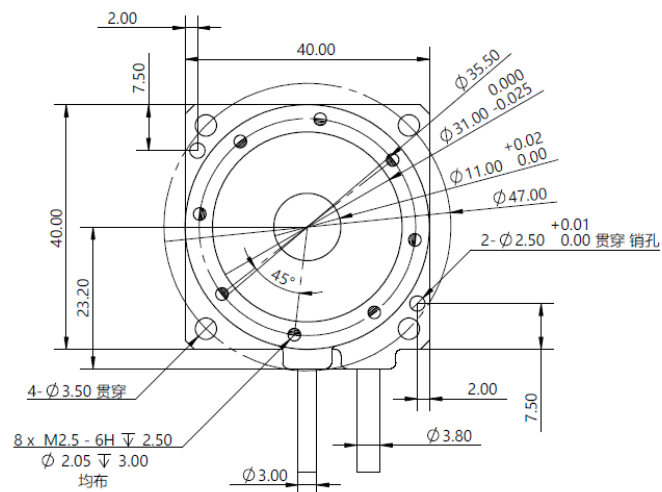
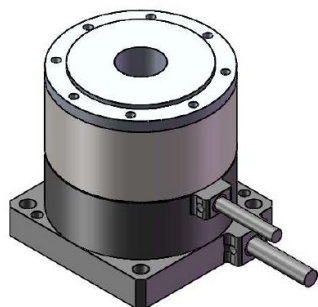
ACR40-0385_ (Unit: mm)



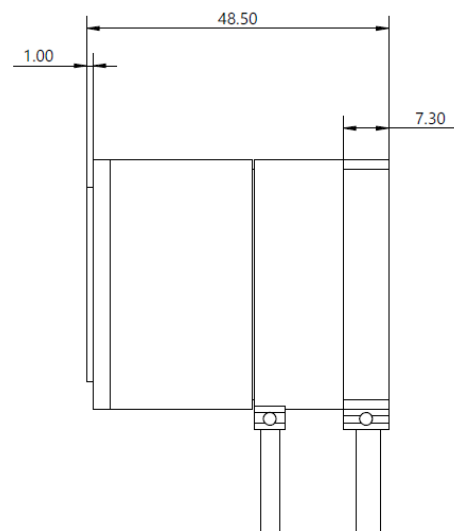
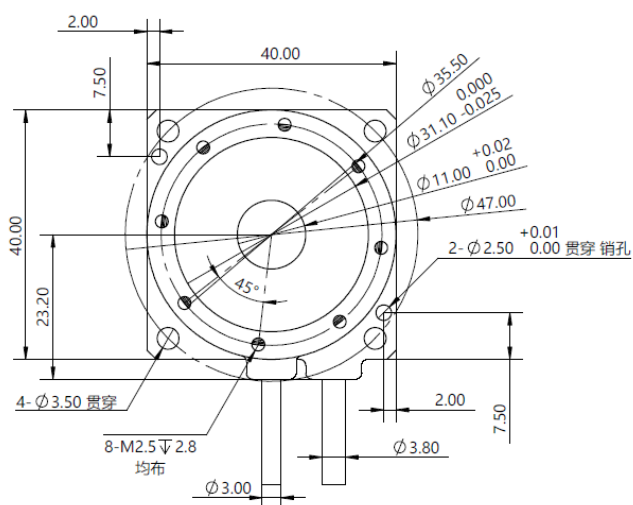
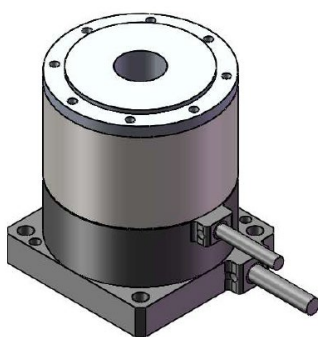
ACR40-0395A_ (Unit: mm)



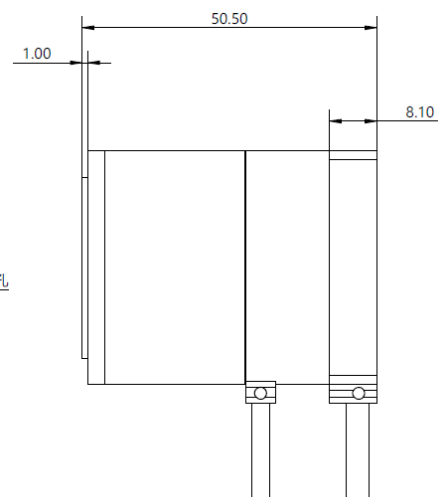
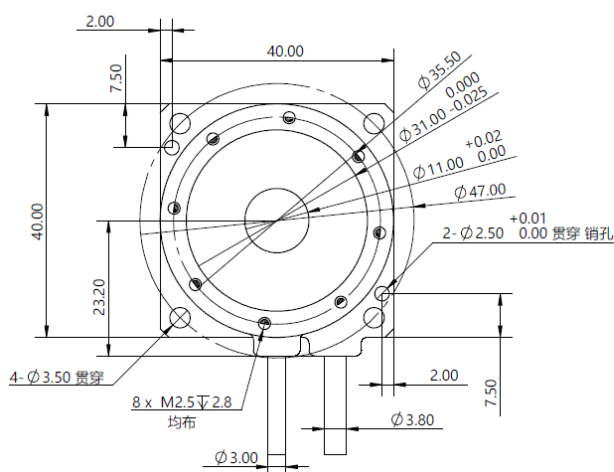
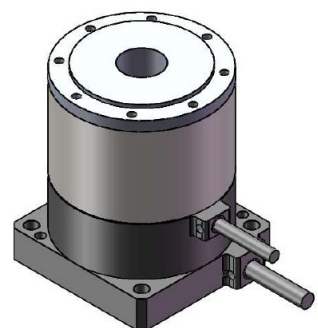
ACR40-0435_ (Unit: mm)



ACR40-0485_ (Unit: mm)

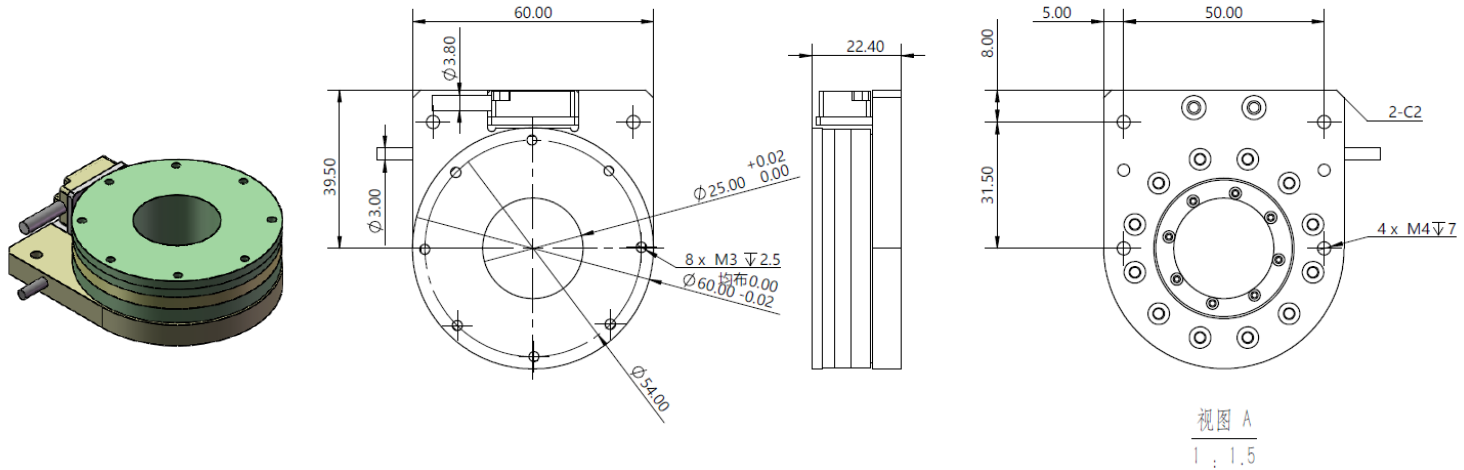


ACR40-0505A_ (Unit: mm)

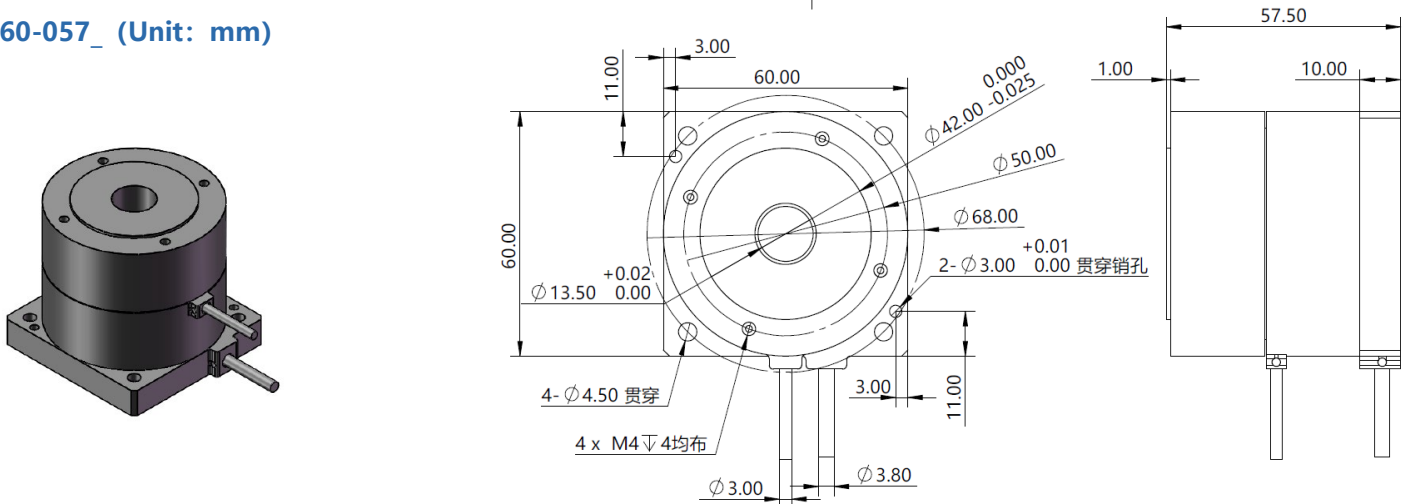


Parameters	Unit	ACR60-022	ACR60-057	ACR68-035	ACR68-067	ACR90-058
Height	mm	60	60	68	68	90
Outer Diameter	mm	22.4	57.5	35	67.5	58.3
Peak Torque	Nm	0.6	1.86	2.4	3.6	3.6
Continuous Torque	Nm	0.2	0.62	0.73	1.2	2
Peak Current	Arms	2.5	3	3.57	3	5.25
Continuous current	Arms	0.8	1	1.19	1	1.75
Torque constant	Nm/Arms	0.25	0.62	0.61	1.2	1.14
Resistance @ 25°C	Ohm	3.2	7.31	11.9	9.95	4.15
Inductance @ 1kHz	mH	0.4	4.38	13	8.7	2.23
Back EMF constant	Vp/krpm	25	64.9	63.9	125.2	119.38
Max Speed	Rpm	200	360	390	300	300
Resolution	Count/rev	1864000	1440000	2136000	1440000	1638400
Encoder(absolute)	Bit	-	-	-	-	-
Radial/Axial run-out	um	<8	<8	<8	<8	<8
Mass	g	375	498	620	990	980
Rotor inertia	gcm ²	838	797	881	1780	4439
Pole pairs		8	11	14	14	21
Rotor		Ironless	Ironcore	Ironcore	Ironcore	Ironcore

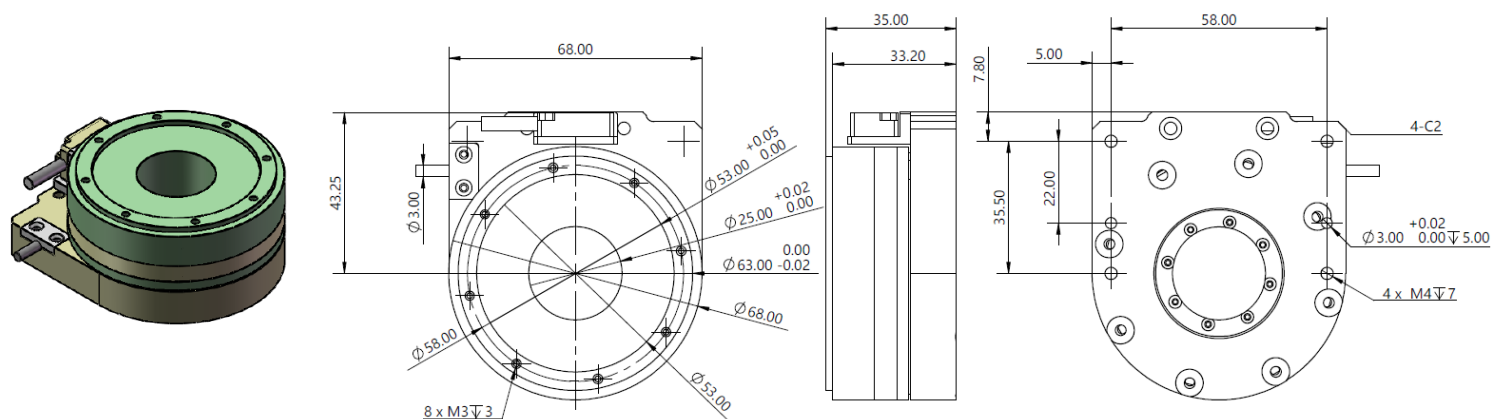
ACR60-022_ (Unit: mm)



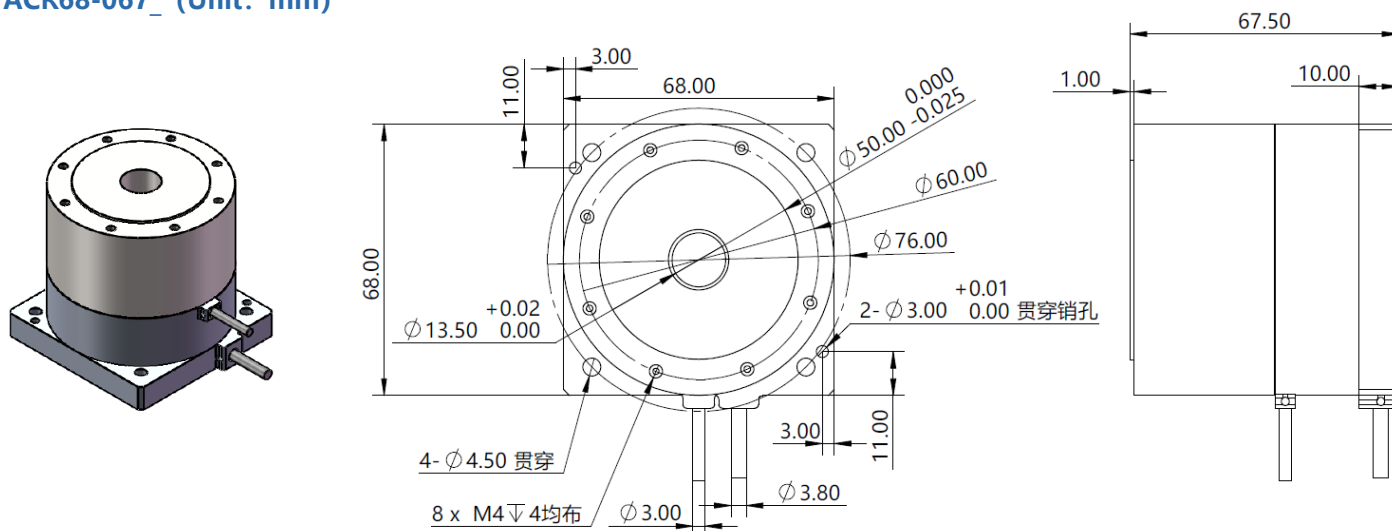
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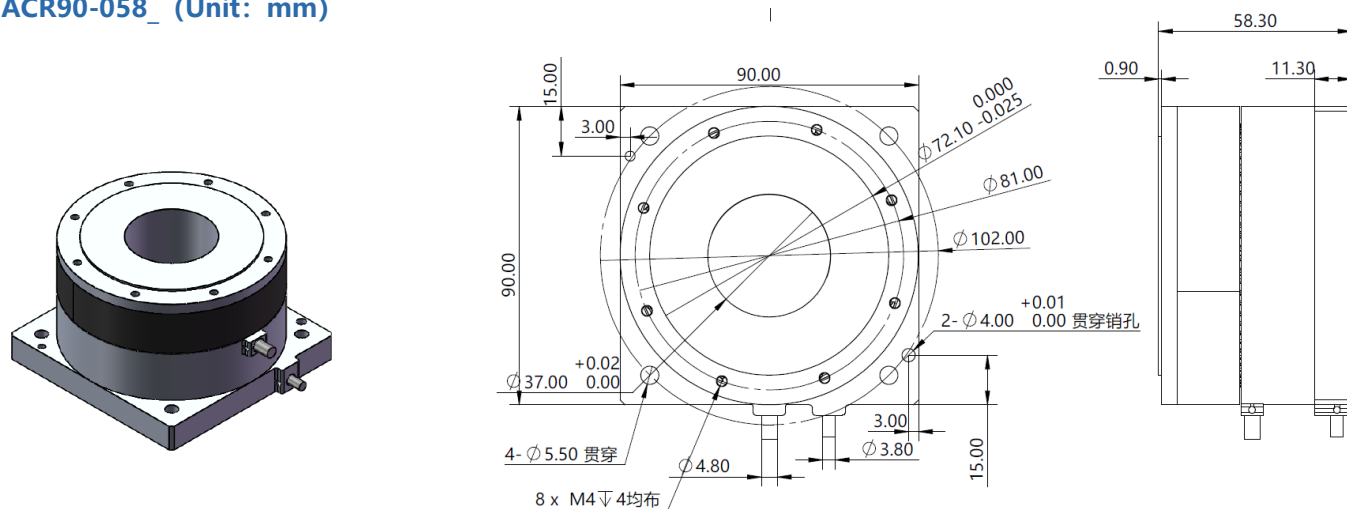
ACR68-035_ (Unit: mm)



ACR68-067_ (Unit: mm)



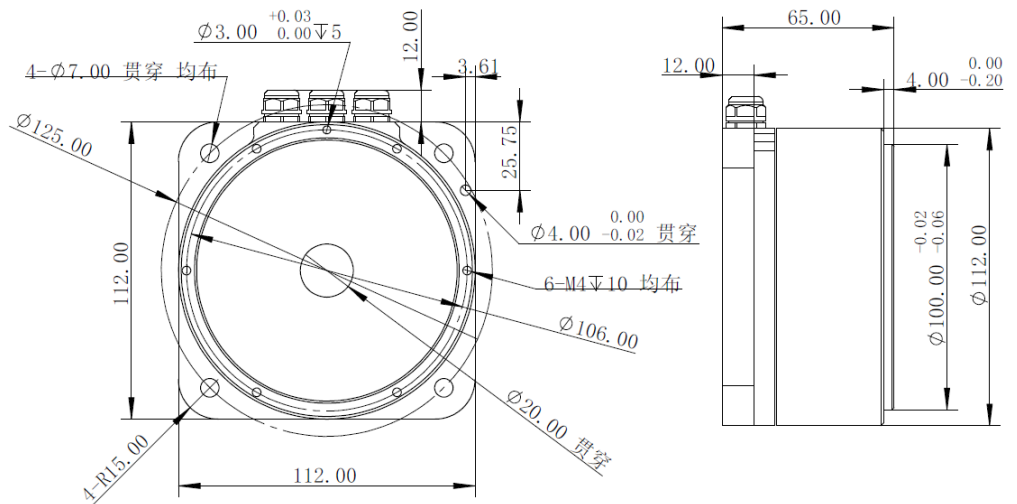
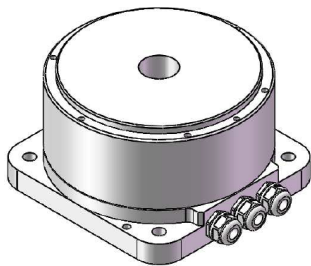
ACR90-058_ (Unit: mm)



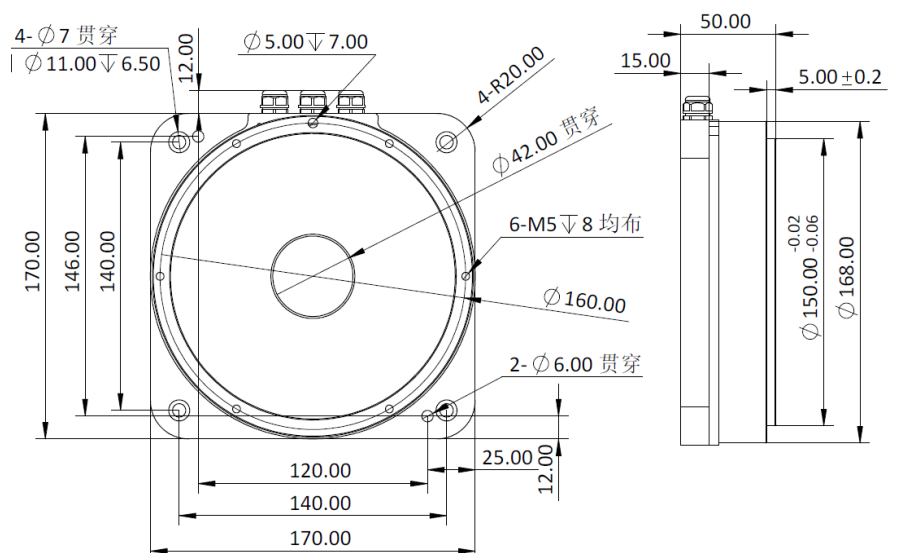
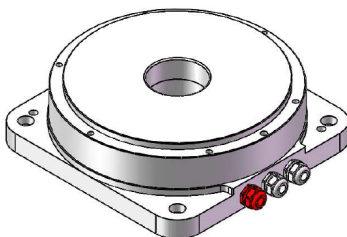
Parameters		ACR112-065	ACR170-050	ACR170-095	ACR170-125/125A	ACR170-155	ACR220-167H	ACR224-042	ACR224-062	ACR263-113	ACR263-138	ACR163-188
Height	mm	112	170	170	170	170	220	224	224	263	263	163
Outer Diameter	mm	65	50	95	125	155	167	42	62	113	138	188
Peak Torque	Nm	9	14	65	125	179	138	42	105	190	300	500
Continuous Torque	Nm	3	4.6	20	40	60	45	14	35	95	150	250
Peak Current	Arms	7.5	4.2	7.5	7.5	7.5	16.2	6.6	6.6	14.2	14.2	14.2
Continuous current	Arms	2.5	1.4	2.5	2.5	2.5	5.5	2.6	2.2	7.1	7.1	7.1
Torque constant	Nm/Arms	1.2	3.3	8	16.7	23.8	8.5	6.4	16	13.4	21.9	35.2
Resistance @ 25°C	Ohm	2.2	6	8.7	13.4	16.8	5.8	8.4	13.9	3.4	1.2	6.7
Inductance @ 1kHz	mH	1.8	7.5	10.5	32	56	53	15.5	46	10.8	13.9	22.8
Back EMF constant	Vp/krpm	74.3	200.5	527.3	1009.6	1440.8	700	386.2	799	809.5	1322	2131.5
Max Speed	Rpm	350	450	180	150	120	400	450	200	150	200	100
Resolution	Count/rev	1638400	2348000	2348000	2348000/23Bit	2348000	16384	2348000	2348000	3276800	3276800	3276800
Repeatability	arc sec	2.5	2.5	2.5	2.5	2.5	2	2.5	2.5	2.5	2.5	2.5
Positional Accuracy	arc sec	30	30	30	30	30	20	30	30	30	30	30
Rotor inertia	Kgcm ²	20	66	200	250	370	170	180	200	1300	1600	2100
Radial/Axial run-out	um	8	8	8	8	8	20			8	8	8
Axial load rating	N	2000	2000	4000	4000	4000	1600	2000	2000	4000	4000	4000
Radial load rating	N	40	60	200	200	200	80	60	20	400	400	400
Mass	g	2.8	3.7	11.5	14.5	20	24	5.5	8.9	23.8	35	48
Pole pairs		14	15	15	15	15	12	20	20	20	20	20
Rotor		ironcore	ironcore	ironcore	ironcore	ironcore	ironcore	ironcore	ironcore	ironcore	ironcore	ironcore

Note: ACR170-125A with a 23Bit absolute encoder

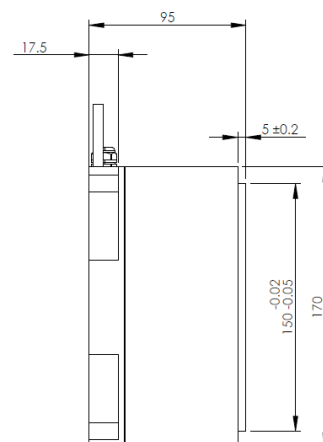
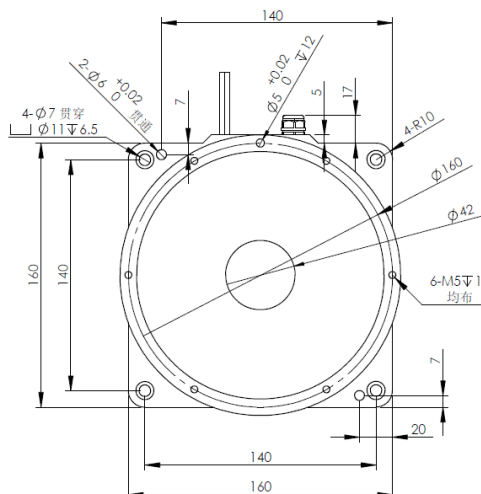
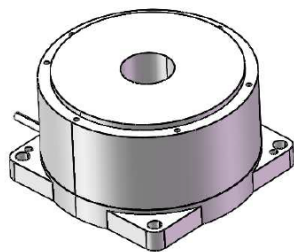
ACR112-065_ (Unit: mm)



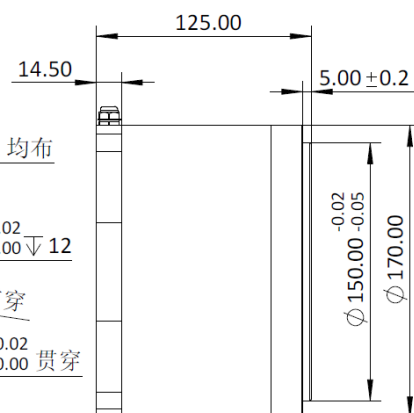
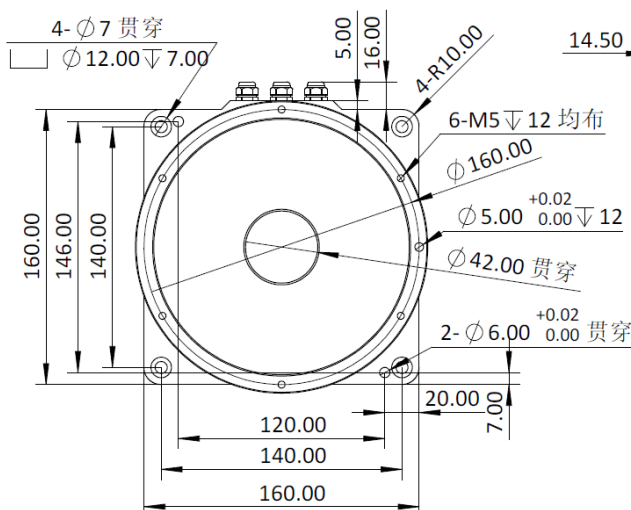
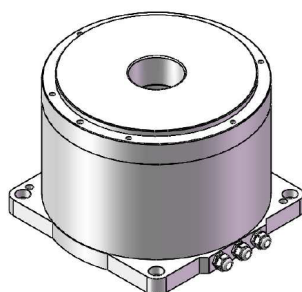
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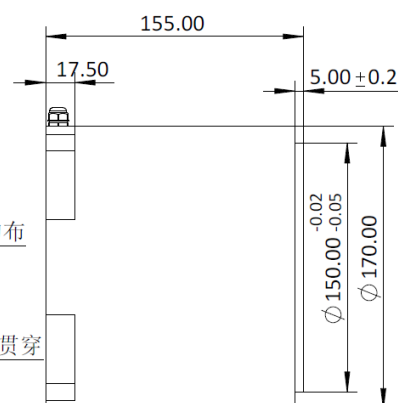
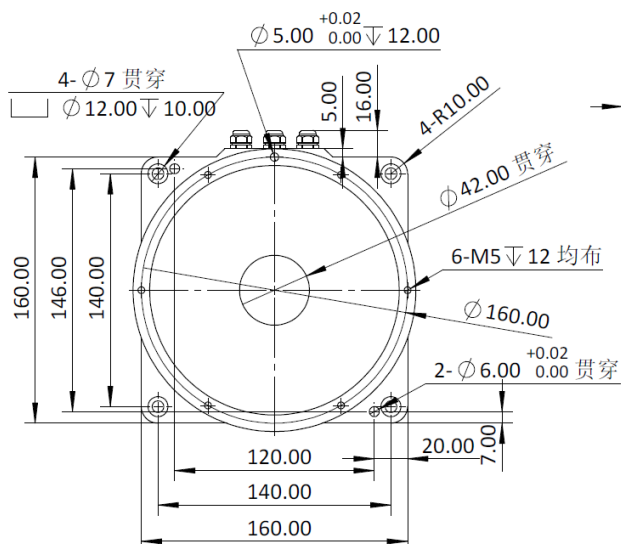
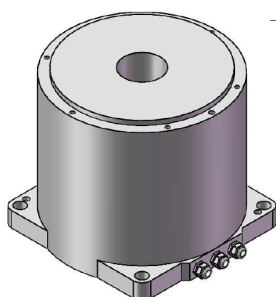
ACR170-095_ (Unit: mm)



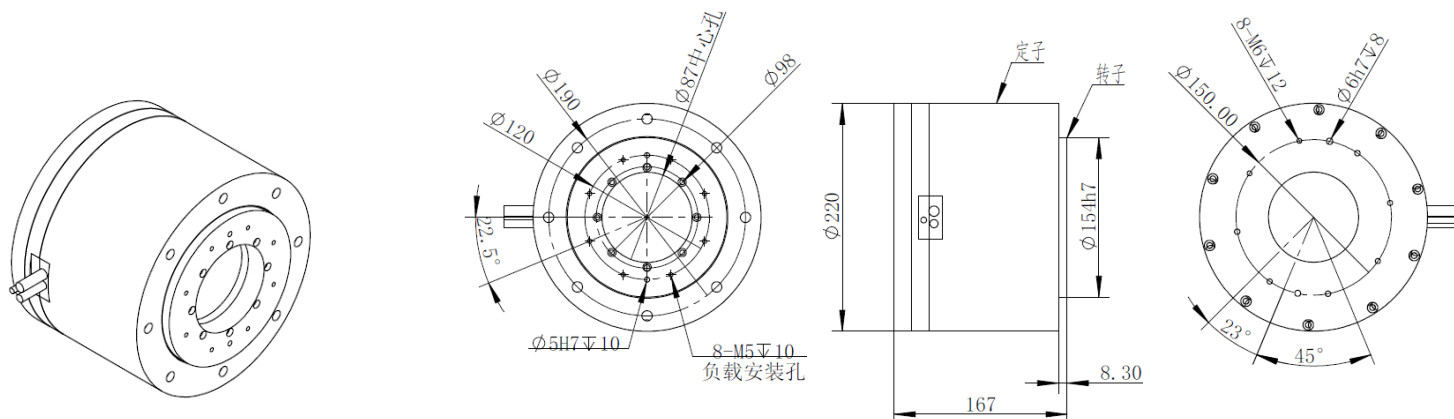
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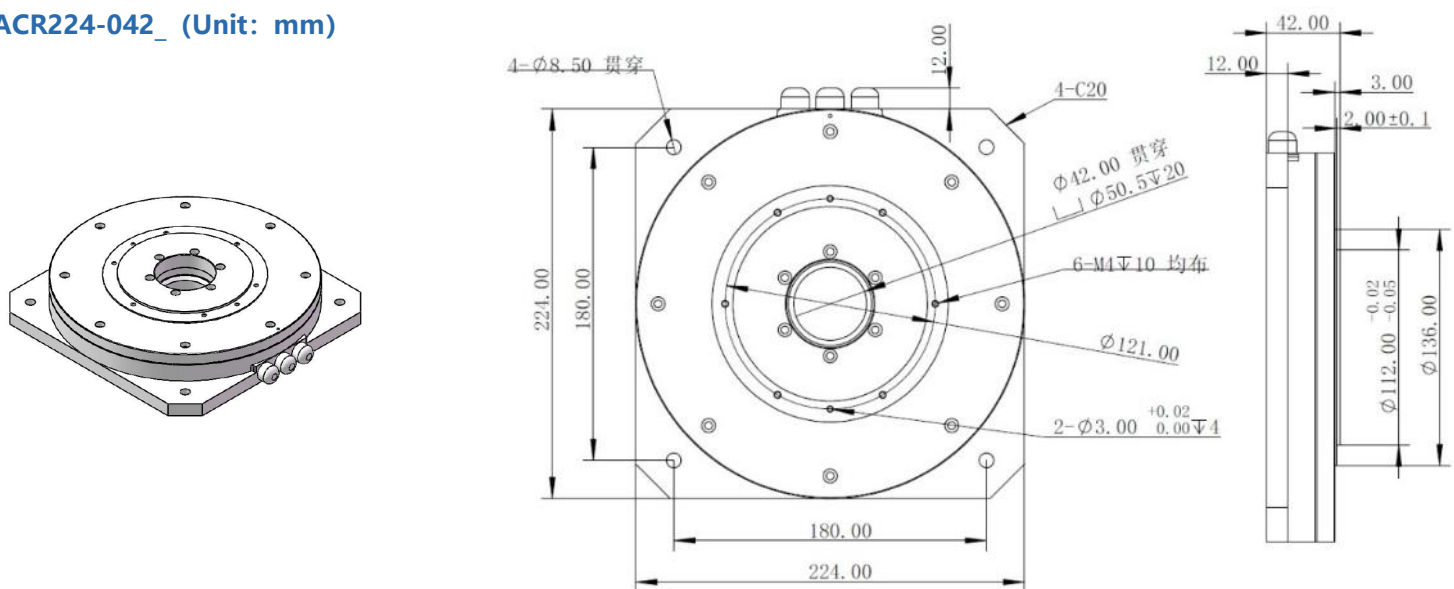
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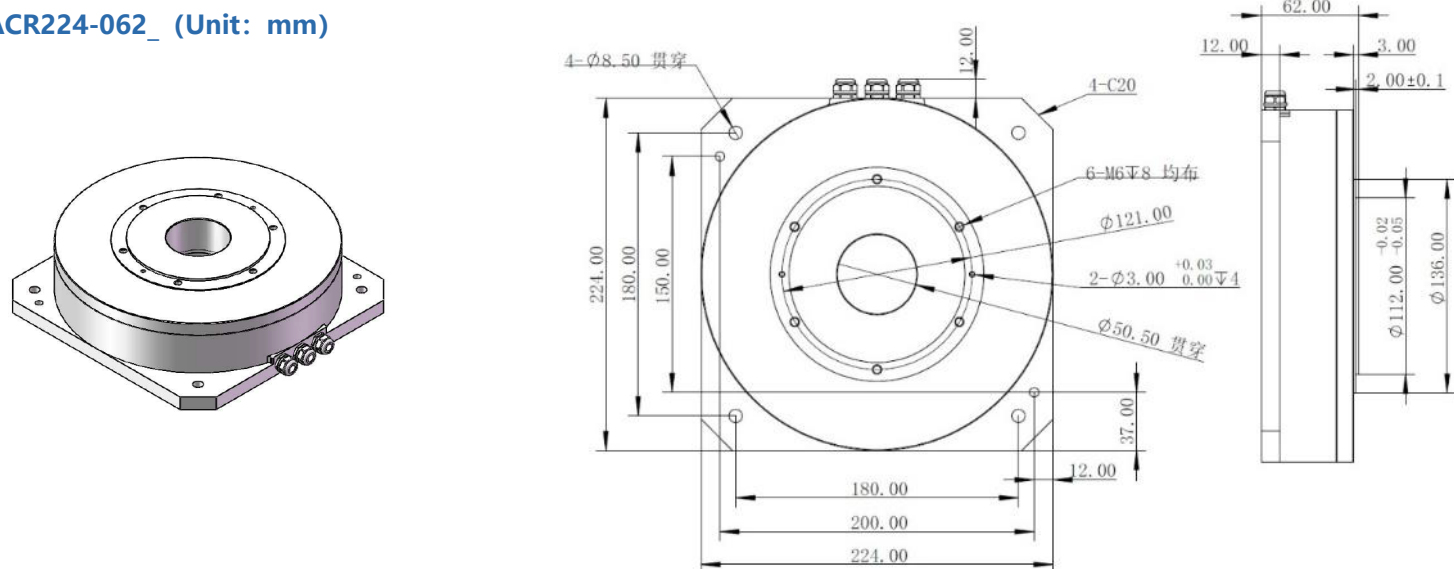
ACR220-167-H_ (Unit: mm)



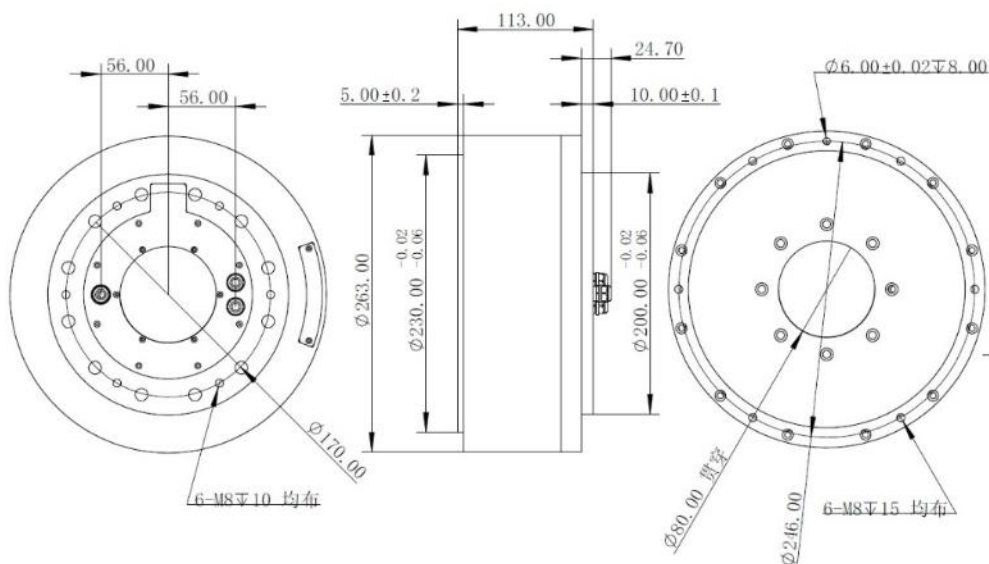
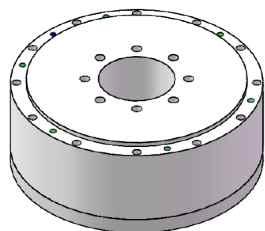
ACR224-042_ (Unit: mm)



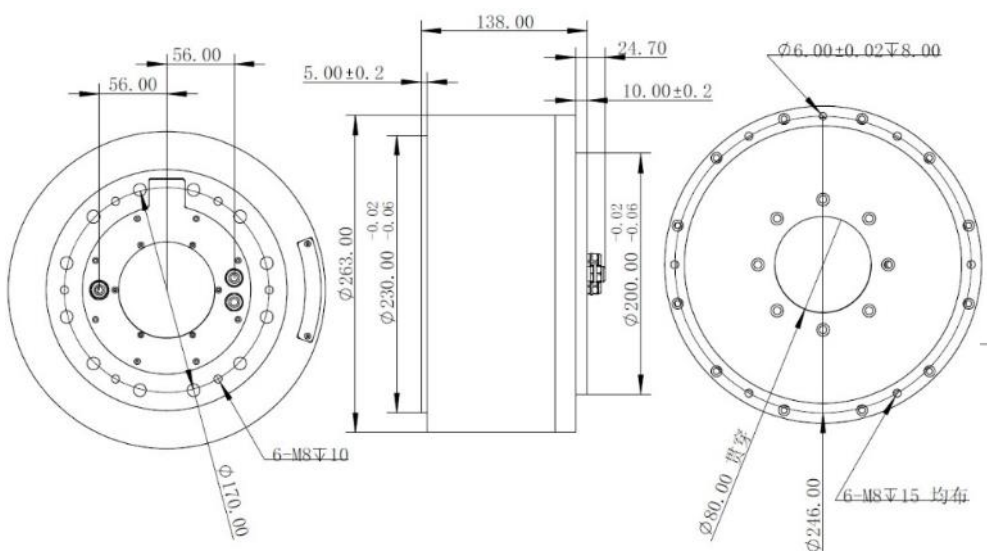
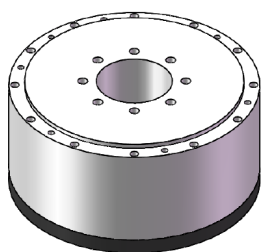
ACR224-062_ (Unit: mm)



ACR263-113_ (Unit: mm)



ACR263-138_ (Unit: mm)



ACR263-188_ (Unit: mm)

