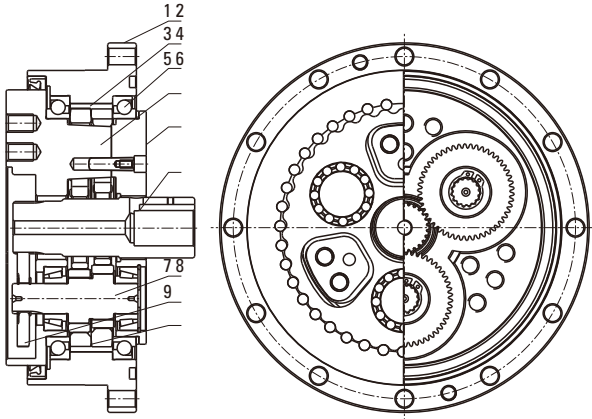


Reducer structure

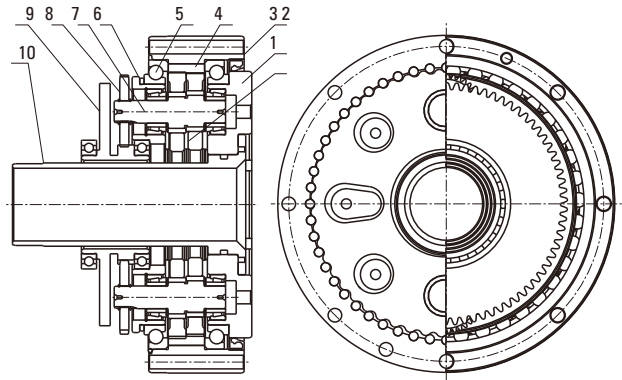
E series reducer structure

- 1- Needle tooth shell
- 3- Main bearing
- 5- Supporting flange
- 7- Crankshaft
- 9- Cycloidal gear
- 2- Pin gear
- 4- Output flange
- 6- Input shaft
- 8- Planetary gear



C series reducer structure

- 1- Cycloidal gear
- 3- Needle tooth shell
- 5- Main bearing
- 7- Crankshaft
- 9- Central gear
- 2- Output flange
- 4- Pin gear
- 6- Supporting flange
- 8- Planetary gear
- 10- Low speed tube



Code

Reducer Code

E Series			C Series		
Code	Outline dimension (mm)	General model	Code	Outline dimension (mm)	The original code
120	Φ122	6E	10C	Φ145	150
150	Φ145	20E	27C	Φ181	180
190	Φ190	40E	50C	Φ222	220
220	Φ222	80E	100C	Φ250	250
250	Φ244	110E	200C	Φ345	350
280	Φ280	160E	320C	Φ440	440
320	Φ325	320E	500C	Φ520	520
370	Φ370	450E	/	/	/

Reduction Ratio

E Series		C Series	
Code	Reduction ratio (output flange output)	Code	Monomer reduction ratio
120	31, 43, 53.5, 59, 79, 103	10CBX	27.00
150	41, 57, 81, 105, 121, 141, 161	27CBX	36.57
190	41, 57, 81, 105, 121, 153	50CBX	32.54
220	57, 81, 101, 121, 153	100CBX	36.75
250	81, 111, 161, 175.28	200CBX	34.86
280	81, 101, 129, 145, 171	320CBX	35.61
320	81, 101, 118.5, 129, 141, 171, 185	500CBX	37.34
370	81, 101, 118.5, 129, 154.8, 171, 192.4	/	/

Note 1: E series, such as by the shell (pin shell) output, the corresponding reduction ratio by 1.

Note 2: C series gear ratio refers to the motor installed in the casing of the reduction ratio, if installed on the output flange side, the corresponding reduction ratio by 1.

■ C系列输出转矩及效率 C output series torque and efficiency

输出转速项目 Output Speed Project 型号 Model	5 r/min		15 r/min			25 r/min		30 r/min		容许最高输出转速 Maximum Allowable Loss Out Speed r/min
	输出转矩 Output Torque N.m	输入功率 Input Power Kw	输出转矩 Output Torque N.m	输入功率 Input Power Kw	效率 Efficiency %	输出转矩 Output Torque N.m	输入功率 Input Power Kw	输出转矩 Output Torque N.m	输入功率 Input Power Kw	
10CBX	134	0.09	98	0.20	78	89	0.3	87	0.35	80
27CBX	372	0.25	264	0.54	78	239	0.8	223	0.90	60
50CBX	745	0.50	490	1.00	78	447	1.5	434	1.75	50
100CBX	1490	1.00	980	2.00	78	894	3.0	819	3.30	40
120CBX	1490	1.00	1176	2.36	78	941	3.16	856	3.45	40
200CBX	2235	2.00	1960	4.00	78	1788	6.0	1638	6.60	30
320CBX	4470	3.00	3136	6.30	78	2830	9.5	/	/	25
500CBX	7003	4.70	4900	10.0	78	/	/	/	/	20
注1: 额定转矩是指输出转速为15rpm时的输出转矩。输入功率考虑了减速器的效率。 Note 1: The rated torque is the output torque of the output speed of 15rpm. The input power considers the efficiency of the reducer.										
注2: 转矩计算公式 Note 2: Torque calculation formula: $T=9549XP\eta/N$ (T: 转矩Nm, P: 功率Kw, N: 转速RPM, η : 效率%)。 $T=9549XP\eta/N$ (T: Torque Nm, P: Power Kw, N: Speed RPM, η : Efficiency %).										

■ C系列技术参数 C series of technical parameters

项目 Project 型号 Model	减速器 单体减速比 Retarder Monomer Reduction Ratio	容许力矩 Allowable Moment N.m	扭转刚度 Torsional Rigidity N.m/(Arc.min)	启动停止许用 输出转矩 Stat And Stop Allowing Output Torque N.m	瞬时容许最大转矩 Instantaneous Maximum Torque N.m	传动精度 Transmission Accuracy Arc.min	齿隙回差 Backlash Of Backlash Arc.min	寿命 Life h	减速器单体 惯性力矩 Retarder Inertia Moment Kg.m ²	重量 Weight kg
10CBX	27.00	686	47	245	490	1.0	1.0	6000	1.380×10^{-5}	4.60
27CBX	36.57	980	147	662	1323	1.0	1.0	6000	0.550×10^{-4}	8.50
50CBX	32.54	1764	255	1225	2450	1.0	1.0	6000	1.820×10^{-4}	14.6
100CBX	36.75	2450	510	2450	4900	1.0	1.0	6000	0.475×10^{-3}	19.5
120CBX	36.75	2940	588	2990	5880	1.0	1.0	6000	0.475×10^{-3}	19.5
200CBX	34.86	8820	980	4900	9800	1.0	1.0	6000	1.390×10^{-3}	55.6
320CBX	35.61	20580	1960	7840	15680	1.0	1.0	6000	0.518×10^{-2}	79.5
500CBX	37.34	34300	3430	12250	24500	1.0	1.0	6000	0.996×10^{-2}	154

说明Note: 惯性力矩值是减速器单体的值，不考虑中心齿轮、输入齿轮的惯性力矩。电机轴换算的惯性力矩值请参照以下公式计算。
Inertial moment value is the value of the reducer unit, without considering the inertial moment of the central gear and the input gear. For the inertia moment value converted by the motor shaft, refer to the following formula.

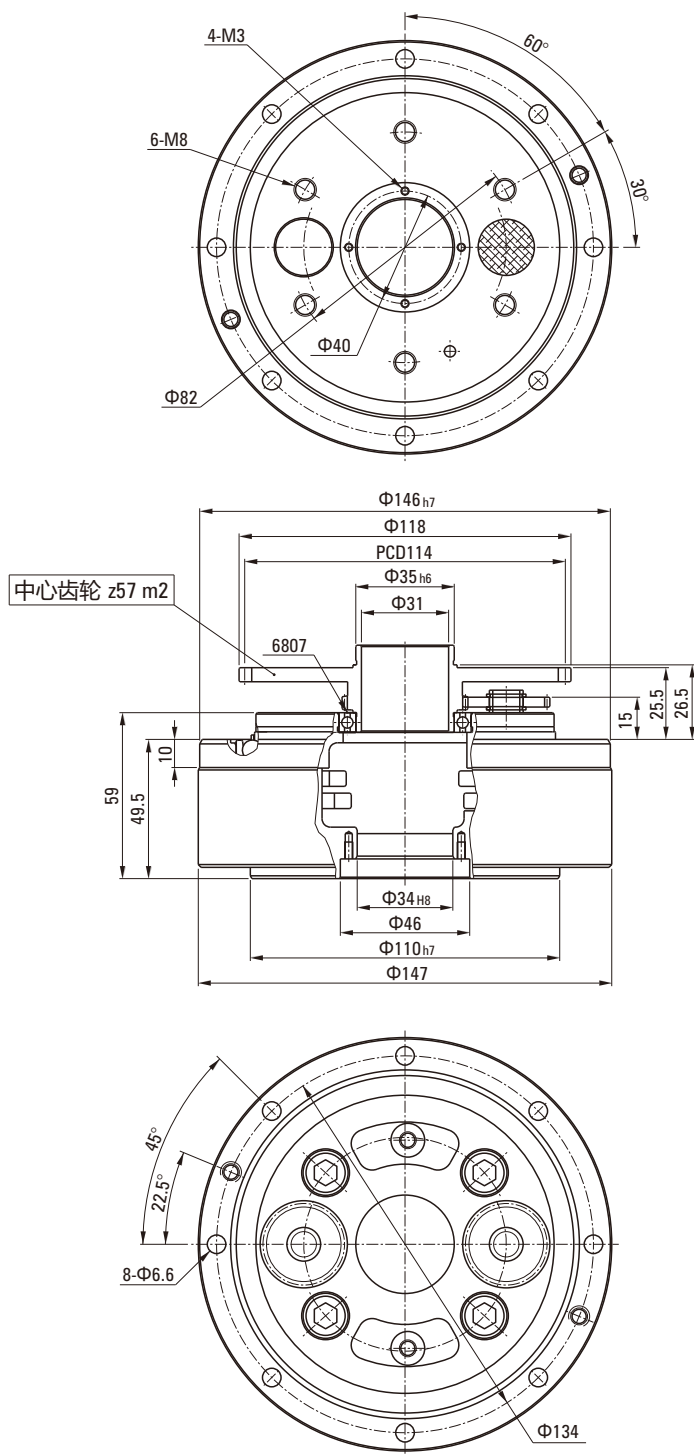
惯性力矩(减速器单体) + 中心齿轮的惯性力矩
Inertia moment (Reducer Unit) + Inertia moment of the central gear

————— + 输入齿轮的惯性力矩 Inertia moment of input gear
(中心齿轮大齿轮的齿数/输入齿轮的齿数)²
(Tooth Number of Central Gear/Tooth Number of Input Gear)²

RVC系列外形尺寸图

RVC SERIES OUTLINE DIMENSION DRAWING

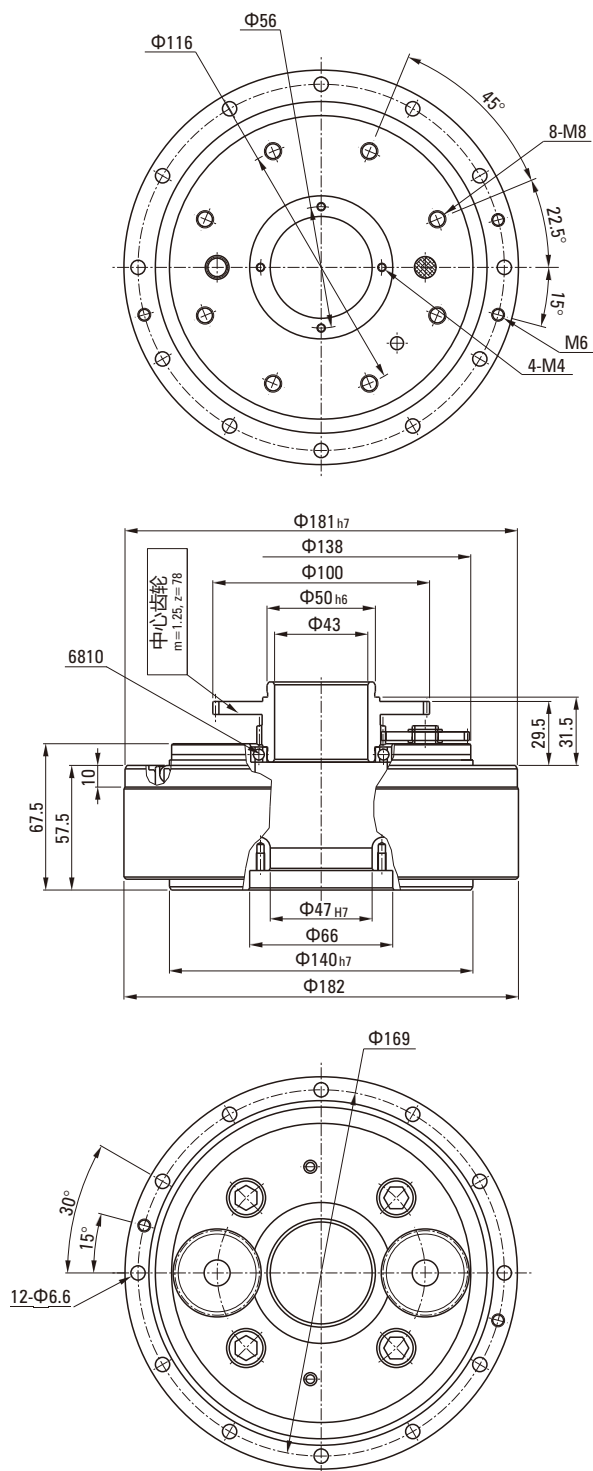
10CBX-RVC 外形图 10CBX-RVC Outline Drawing



RVC系列外形尺寸图

RVC SERIES OUTLINE DIMENSION DRAWING

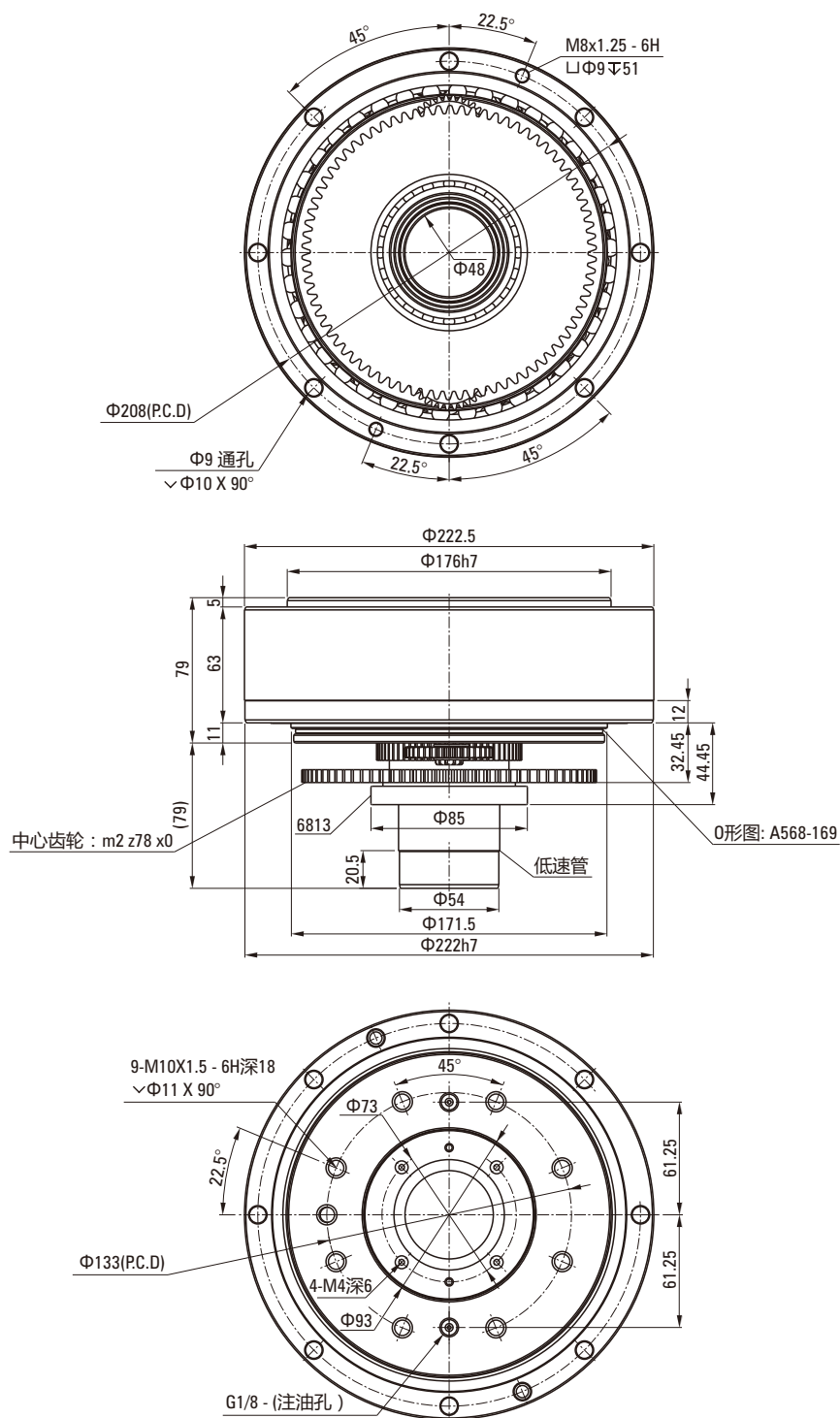
27CBX-RVC 外形图 27CBX-RVC Outline Drawing



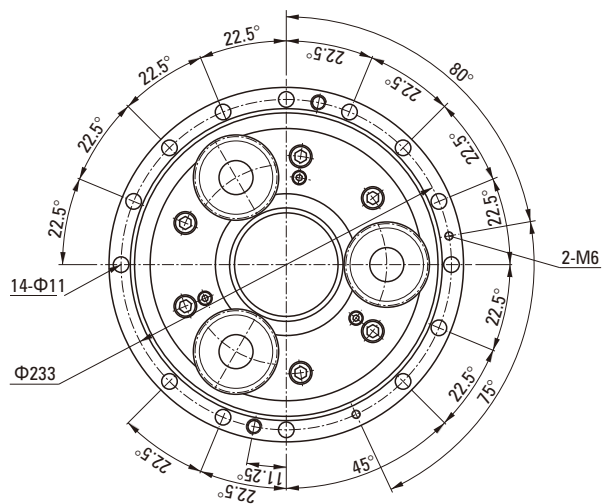
RVC系列外形尺寸图

RVC SERIES OUTLINE DIMENSION DRAWING

■ 50CBX-RVC 外形图 50CBX-RVC Outline Drawing



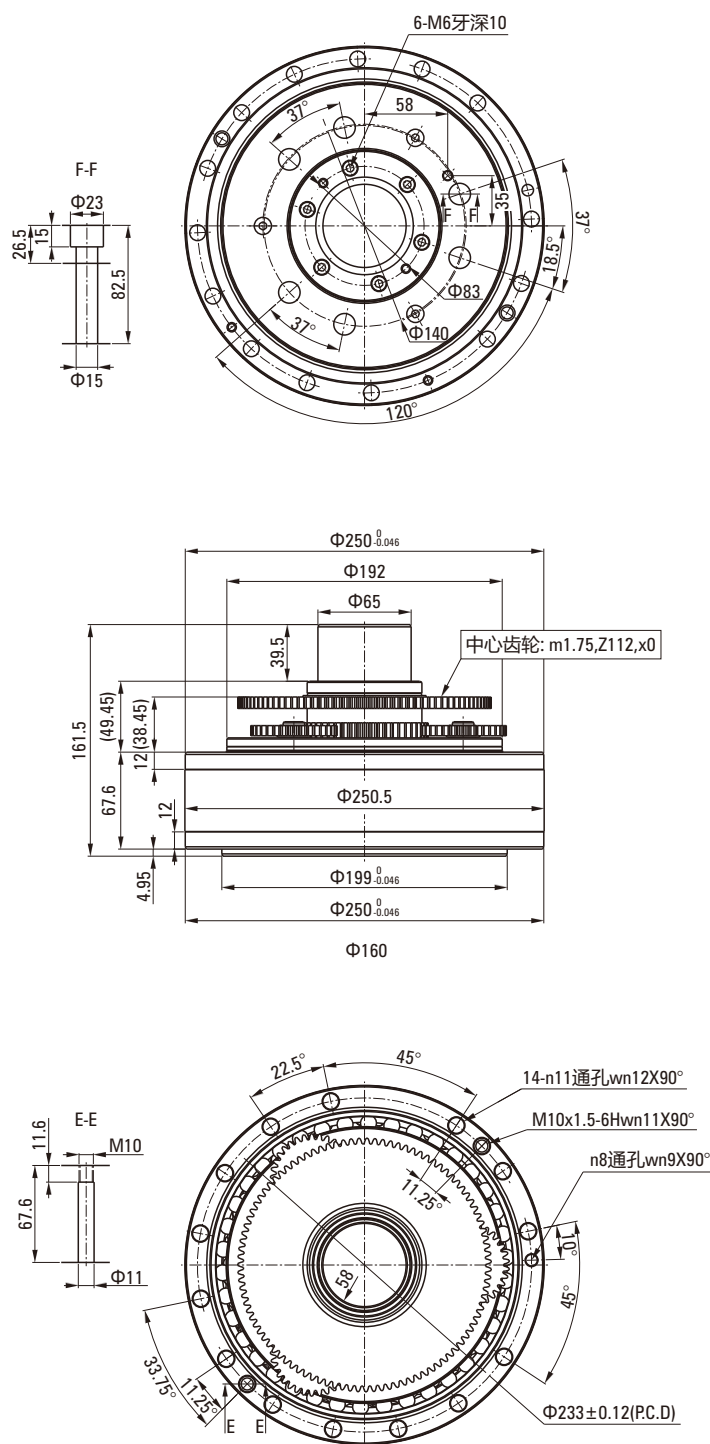
■ 100CBX-RVC 外形图 100CBX-RVC Outline Drawing



RVC系列外形尺寸图

RVC SERIES OUTLINE DIMENSION DRAWING

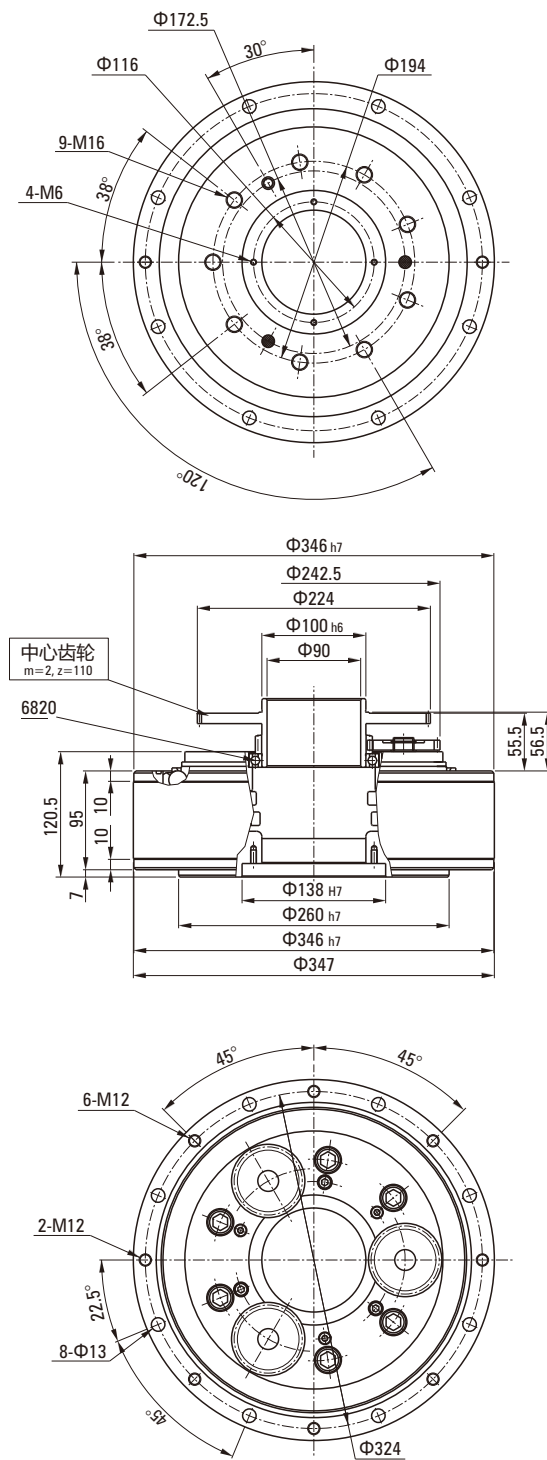
120CBX-RVC-P 外形图 120CBX-RVC-P Outline Drawing



RVC系列外形尺寸图

RVC SERIES OUTLINE DIMENSION DRAWING

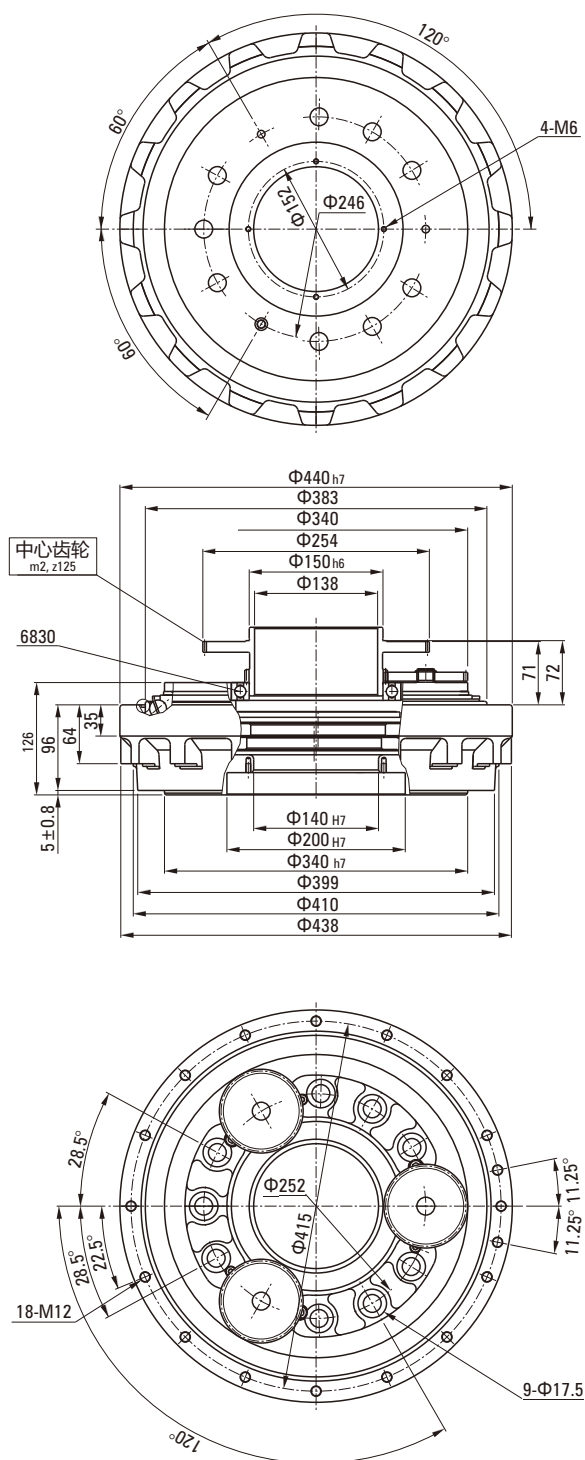
■ 200CBX-RVC 外形图 200CBX-RVC Outline Drawing



RVC系列外形尺寸图

RVC SERIES OUTLINE DIMENSION DRAWING

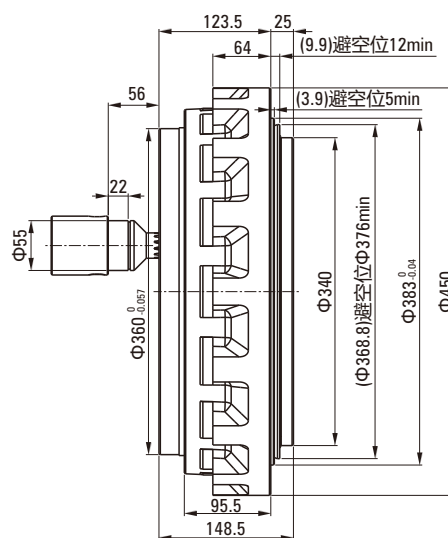
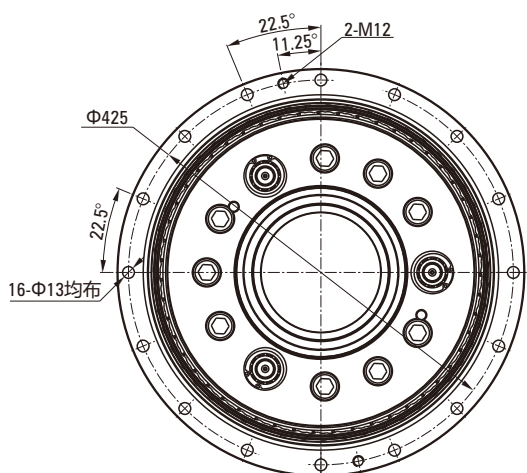
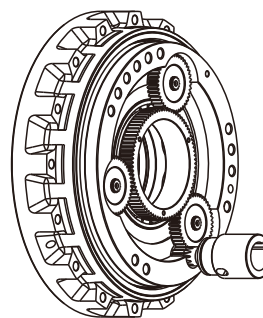
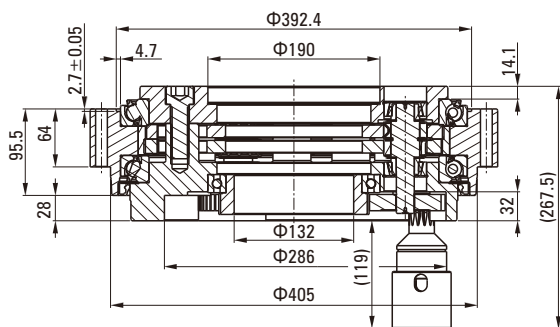
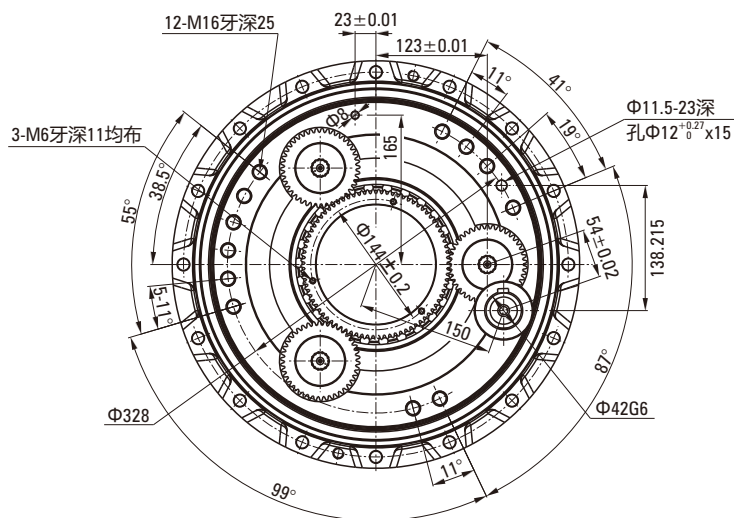
■ 320CBX-RVC 外形图 320CBX-RVC Outline Drawing



RVC系列外形尺寸图

RVC SERIES OUTLINE DIMENSION DRAWING

320CA-RVC 外形图 320CA-RVC Outline Drawing



齿轮 Horizontal Installation	模数 Vertical Installation	齿数 Size A	变位系数 Size A
输入齿轮	2	12	+0.5
行星齿轮	2	42	+0.5
中心齿轮	2	81	+0.5

RVC系列外形尺寸图

RVC SERIES OUTLINE DIMENSION DRAWING

500CBX-RVC 外形图 500CBX-RVC Outline Drawing

