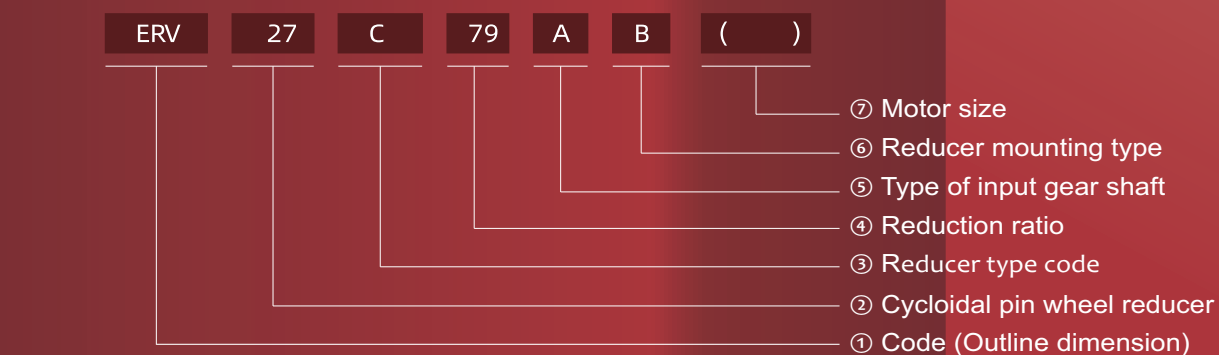


ERV—C Series

Cycloidal Pinwheel RV Hollow Series

Model Names / Model Numbers



- High transmission precision, high torsional stiffness, and low backlash.
- Applications: manipulator rotating shaft, mechanical arm, indexing plate



Allowable moment (bending moment)
The instantaneous allowable torque is generally twice the allowable torque of the reducer.

Technical Parameters

Specification	Reducer ratio	Rated output torque NM kgf·m	Acceleration and braking torque NM kgf·m	Instantaneous maximum allowable torque NM kgf·m	Rated input speed NR (rpm)	Effective transfer within the working cycle ner (rpm)	Maximum allowable input speed nmf (rpm)	Tilt stiffness Nm/arcmin kgf/m arcmin	Torsional stiffness Nm/arcmin kgf/m arcmin	speed
ERV-10C	27	98 (10)	245 (25)	490 (50)	2000	3000	4000	421 (43)	47 (4.8)	
ERV-27C	36.57	295 (30)	736 (75)	1472 (150)	2000	3000	4000	1068 (109)	147 (15)	
ERV-50C	32.54	490 (50)	1125 (125)	2450 (250)	2000	2500	3500	1960 (200)	255 (26)	
ERV-100C	36.75	1029 (105)	2570 (262)	4900 (500)	2000	2500	3500	2813 (287)	510 (52)	
ERV-200C	34.86	1961 (200)	4900 (500)	9800 (1000)	2000	2500	3500	9800 (1000)	980 (100)	
ERV-325C	35.61	3136 (325)	7840 (800)	15680 (1600)	1500	2000	3000	12740 (1300)	1960 (200)	
ERV-500C	37.34	4900 (500)	12250 (1250)	24500 (2500)	1500	2000	3000	245000 (2500)	3430 (350)	

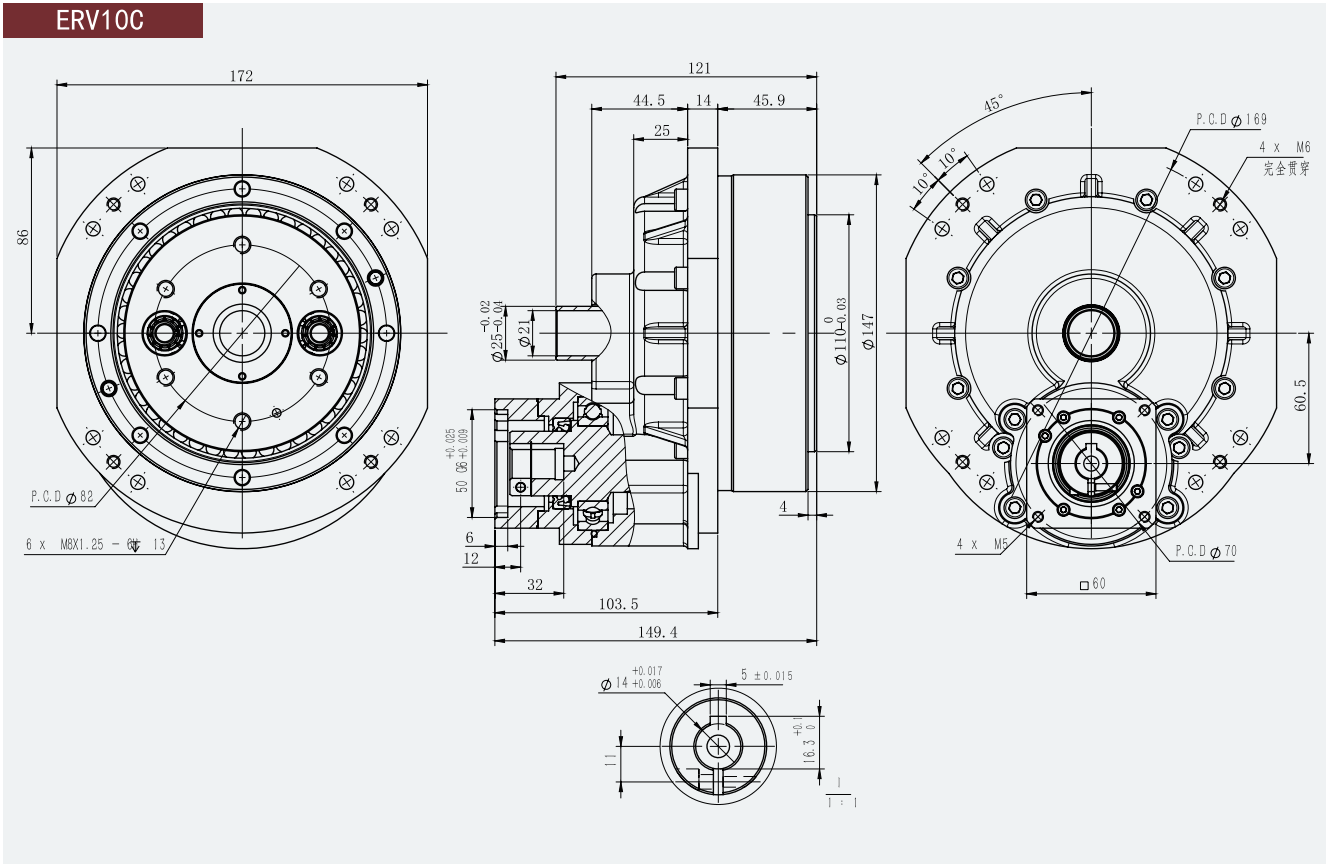
Specification	Reducer ratio	Average Starting torque under no load nm	Maximum invalid stroke LOST motim (arc. min)	Angular offset during torsional transmission ATE (arcsec)	Gap Back assht (arcsec)	Maximum tilting moment N/M kgf/m	Rated radial N/M	Axial thrust N	Inertial bending moment/input inertia (I=10 ⁻⁴) kg·m ²	Bare metal weight kg
ERV-10C	27	6.18	<1.0	50	<1.0	1372 (140)	686	5880	1.4x10 ⁻⁶	4.5
ERV-27C	36.57	0.25	<1.0	50	<1.0	1960 (200)	980	8820	0.75x10 ⁻⁴	8.5
ERV-50C	32.54	0.7	<1.0	50	<1.0	3528 (360)	1764	11760	1.9x10 ⁻⁴	15
ERV-100C	36.75	1	<1.0	50	<1.0	4900 (500)	2450	13720	0.5x10 ⁻³	18
ERV-200C	34.86	1.9	<1.0	50	<1.0	17640 (1800)	8820	19600	1x10 ⁻²	55
ERV-325C	35.61	2.2	<1.0	50	<1.0	39200 (4000)	20580	29400	0.7x10 ⁻²	78
ERV-500C	37.34	2.6	<1.0	50	<1.0	78400 (8000)	34300	39200	1.1x10 ⁻²	150

Specification	Bare metal reduction ratio	ERV model reduction ratio	Suitable for motor shaft diameter
ERV-10C	27	81, 108, 153, 189, 243	11, 14
ERV-27C	36.57	79, 103, 120, 157, 177, 231.5	14, 19, 22
ERV-50C	32.54	80, 107, 151, 177, 234	19, 22, 24
ERV-100C	36.75	76.3, 100.2, 124.7, 152, 214.3, 264.6	22, 24, 35
ERV-200C	34.86	106, 122, 156, 206, 245, 281	22, 24, 35, 42
ERV-325C	35.61	106, 122, 156, 206, 245, 281	35, 42
ERV-500C	37.34	106, 122, 156, 206, 245, 281	根据客户需求

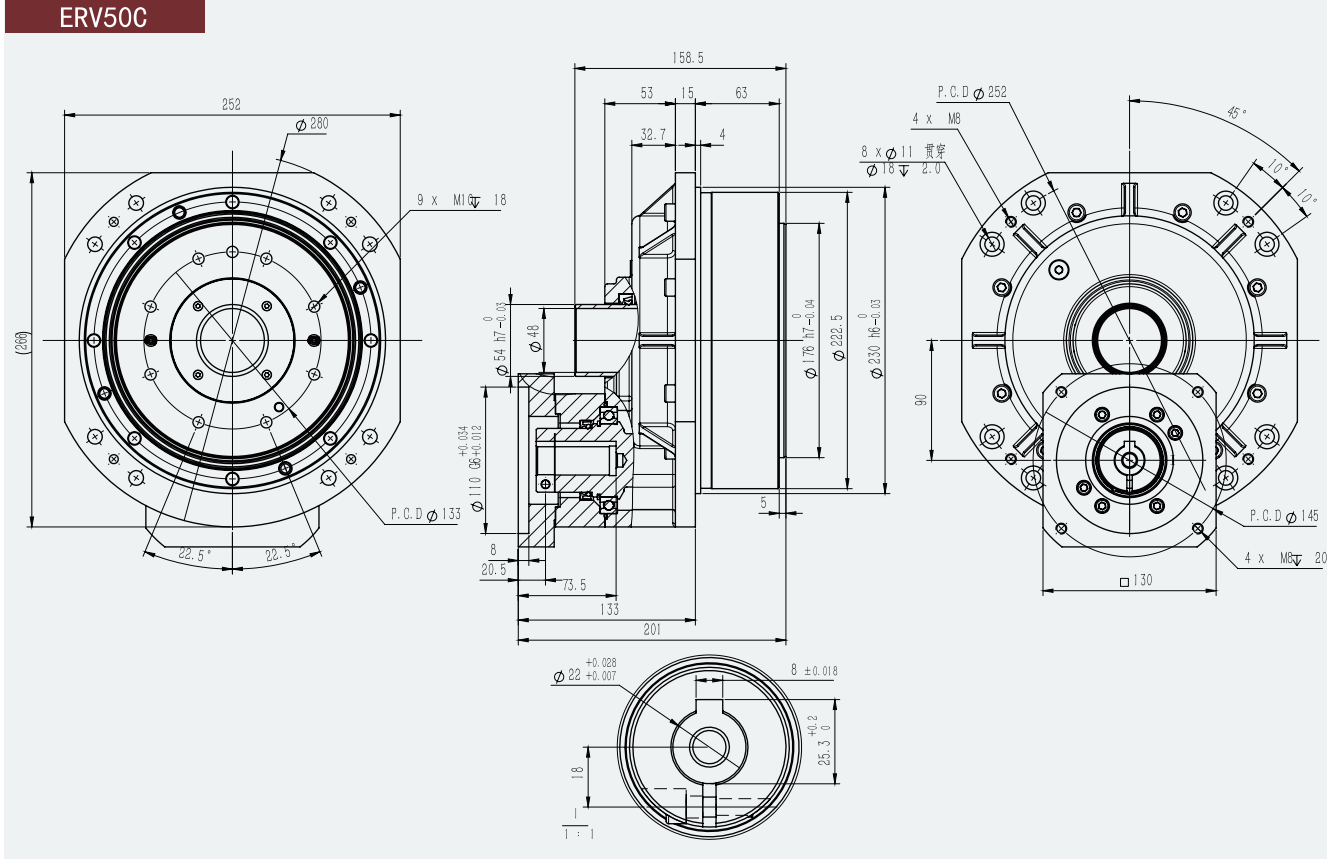
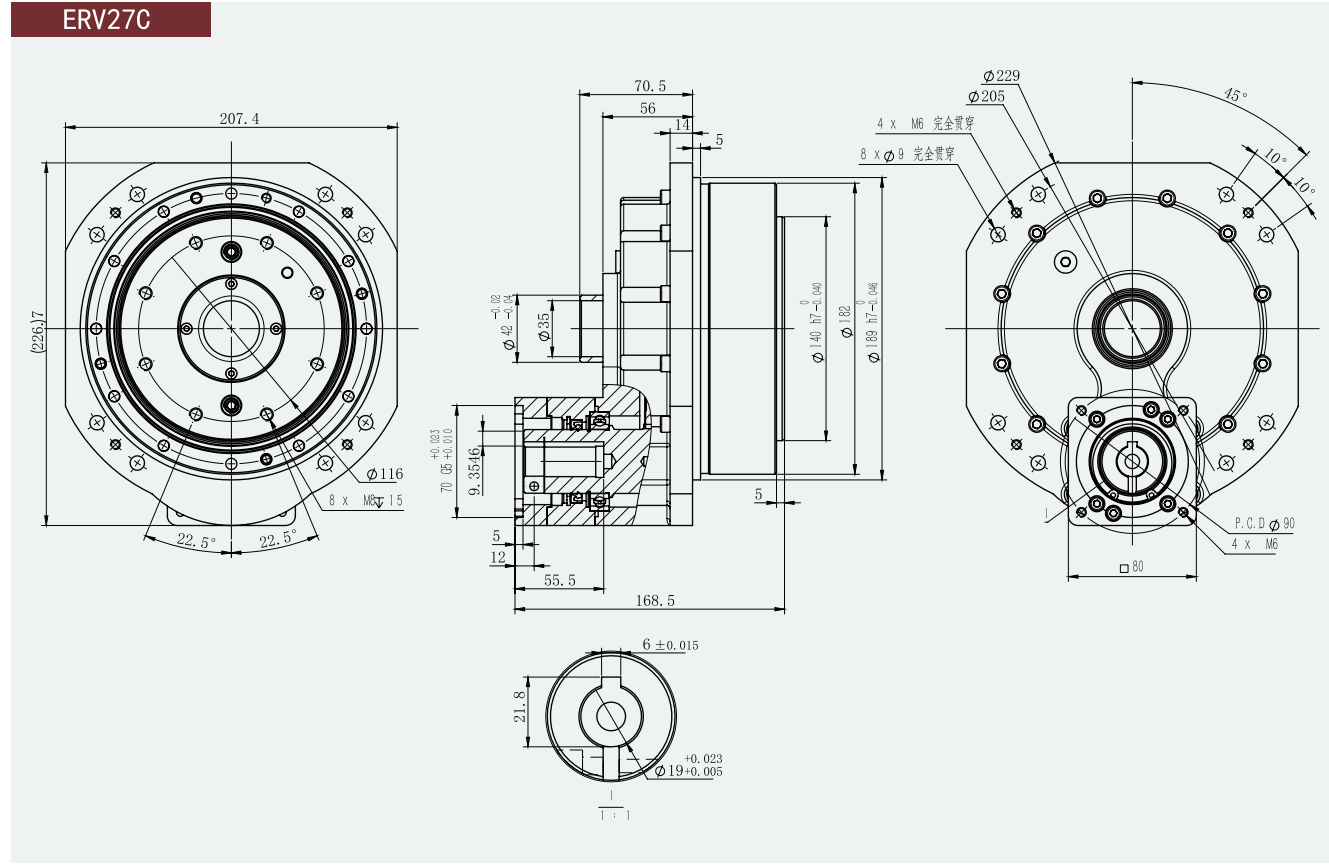
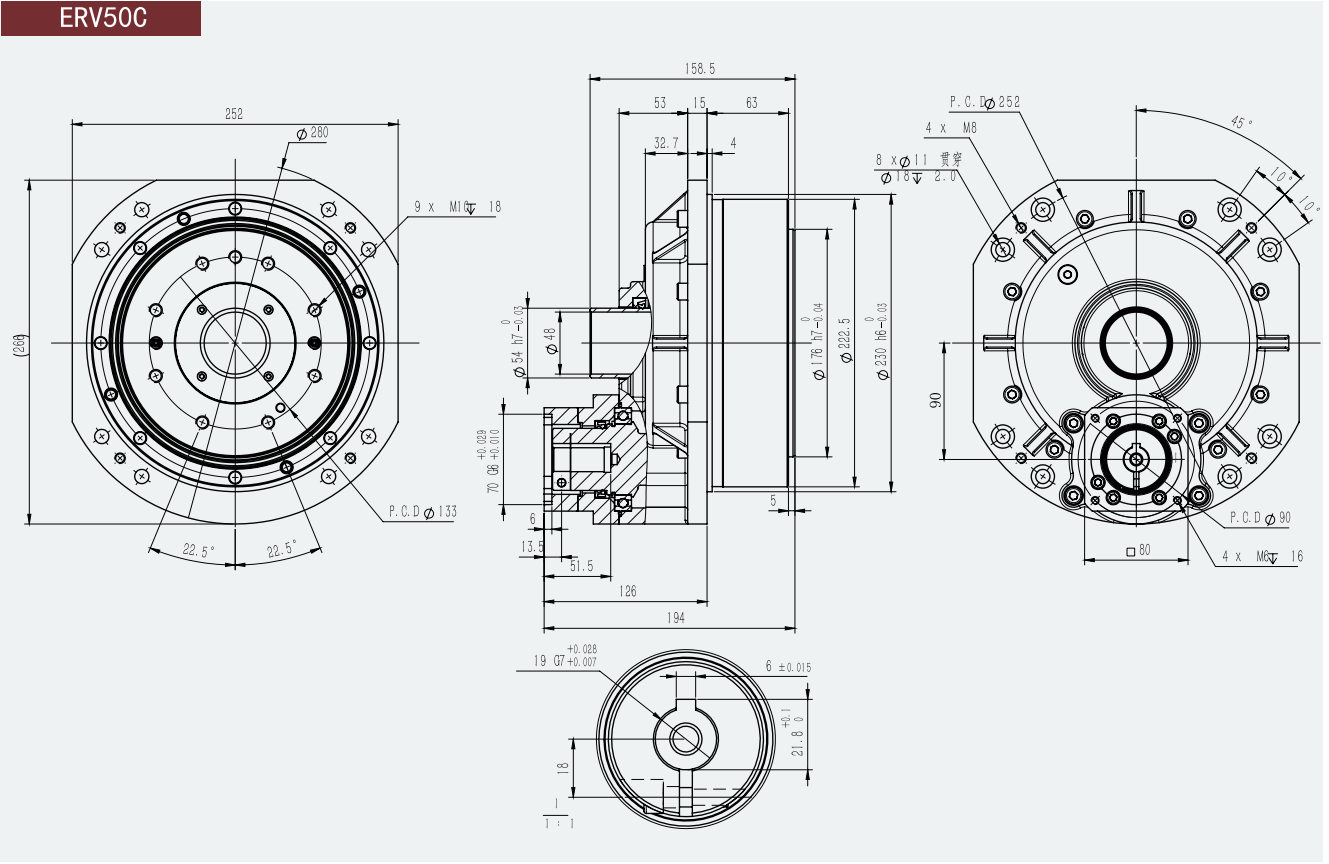
*The above technical parameters are for reference only.
Actual technical parameters and dimensions will be provided based on the data provided by the customer.

Cycloidal Pinwheel RV Hollow Series

Dimensional Drawings



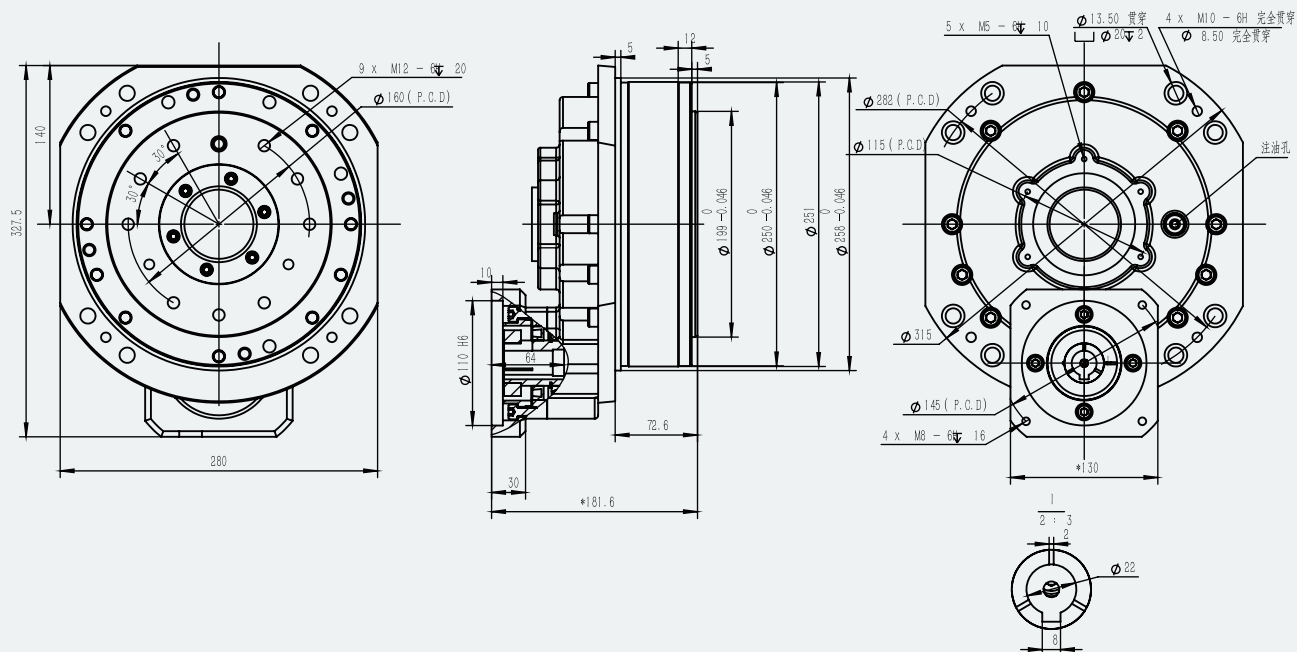
Dimensional Drawings



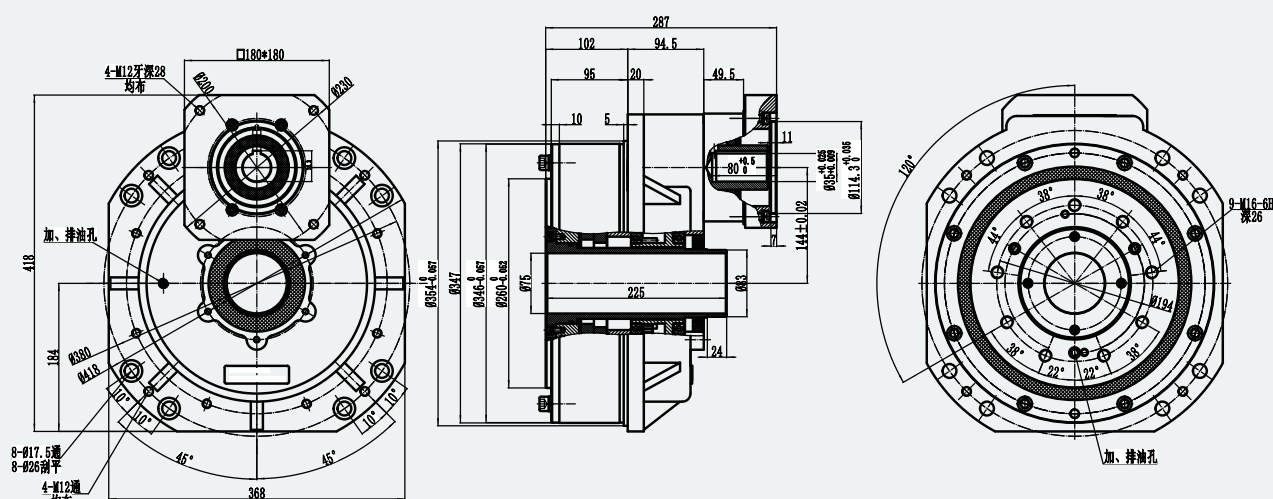
Cycloidal Pinwheel RV Hollow Series

Dimensional Drawings

ERV100C

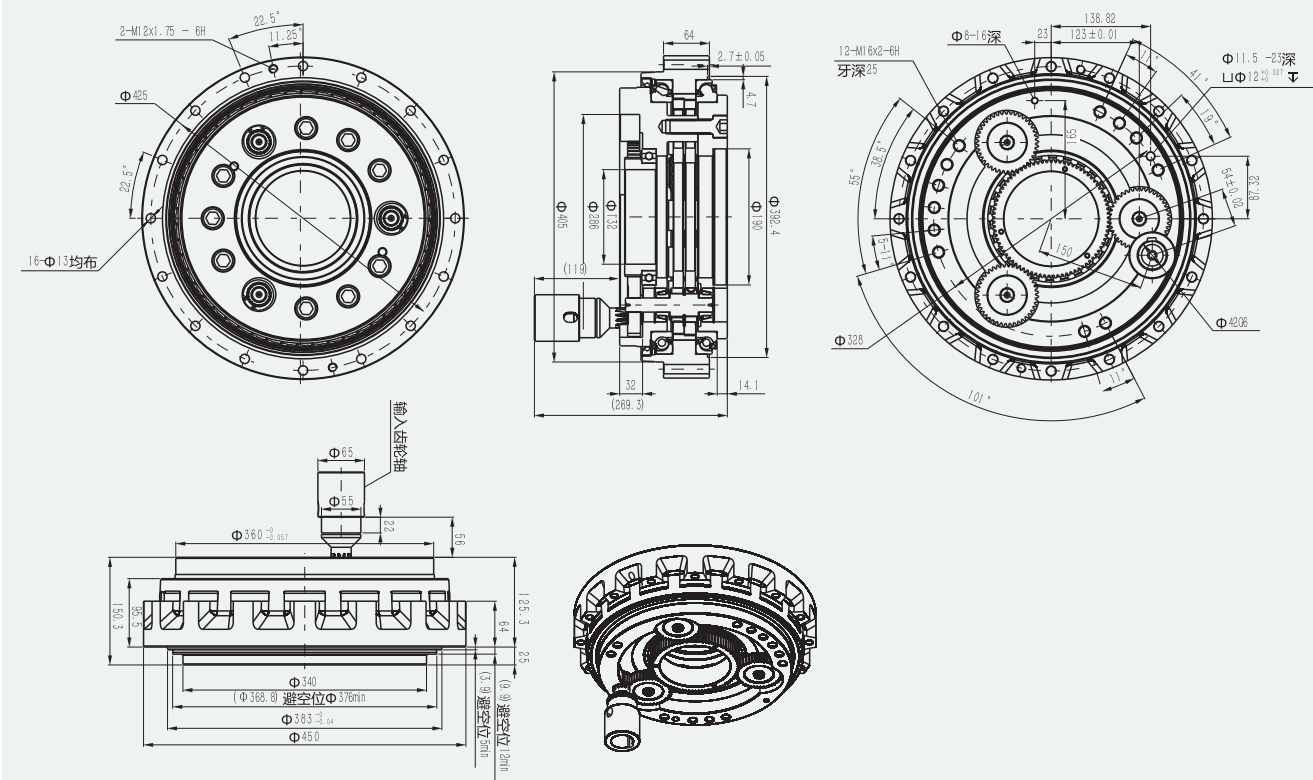


ERV200C



Dimensional Drawings

ERV325C



ERV500C

