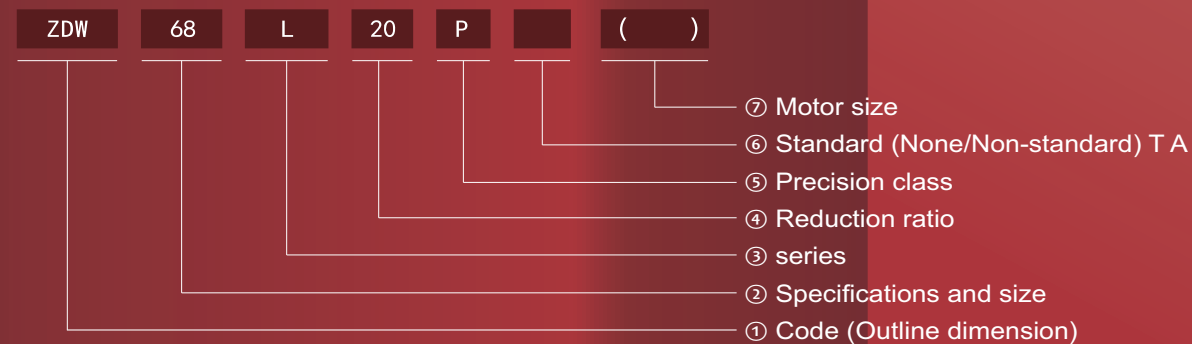


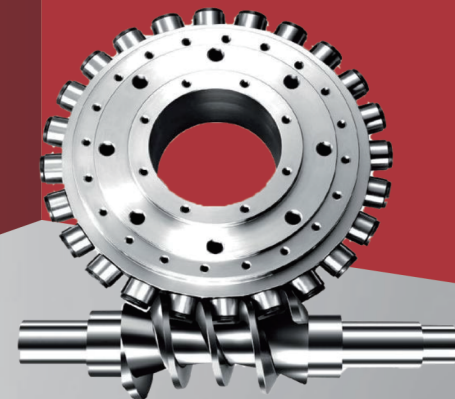
ZDW Series

CAM roller type hollow rotating platform

Model Names / Model Numbers



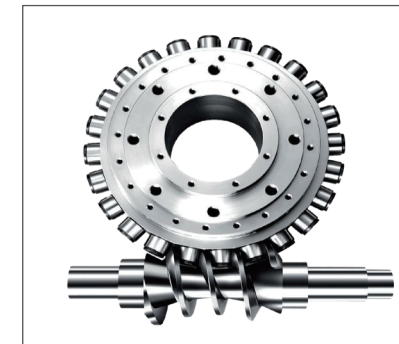
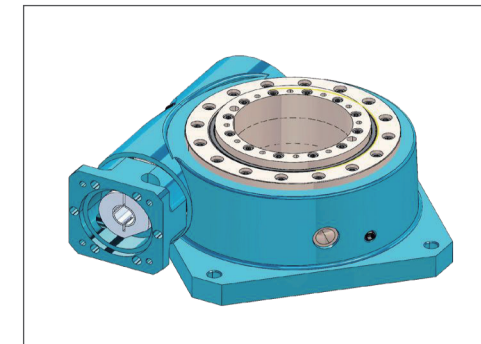
- Employs a servo cam structure with cam bearings driving the turntable/hub surface.
- The turntable surface is supported by cross roller bearings.
- The structure consists of two parts: the turntable mechanical body and the reduction motor.
- The overall connection structure has no easily damaged parts.
- The turntable cavity is filled with lubricating oil, requiring no maintenance for life.



- The servo CAM structure is adopted, and the CAM bearing drives the turntable/hub disk surface.
- The turntable surface is supported by cross roller bearings.
- The structure is divided into two parts: turntable mechanical body + gear motor.
- The whole connection structure has no wearing parts.
- The rotary table cavity is filled with lubricating oil, and it is maintenance-free for life.



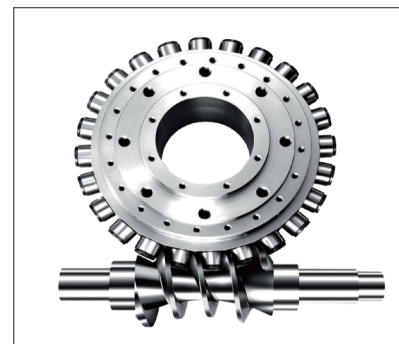
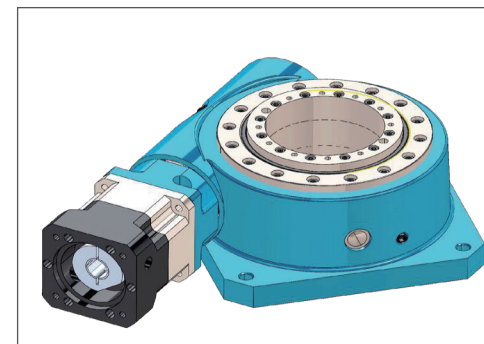
Heavy- Duty hollow rotary platform series



Note: The reduction ratio of the 68/90/115 model body is...
The reduction ratio of the 1:20 and 215 models is 1:40,
and the reduction ratio of the 315/415 models is 1:60.



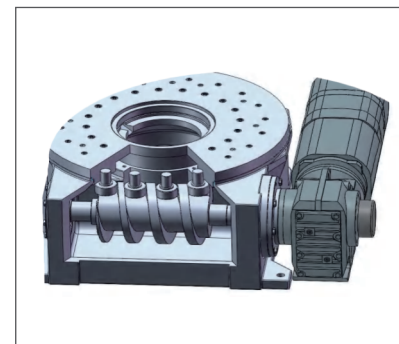
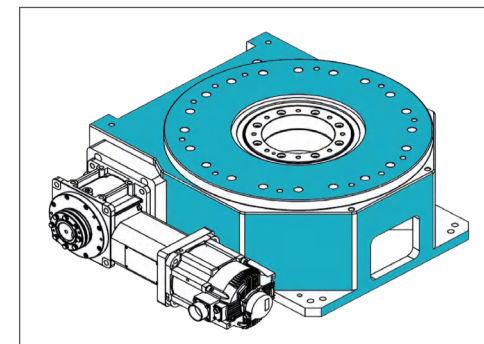
Heavy-Duty Hollow Rotary Platform + Precision Planetary Reducer Series



Note: For example, the main body reduction ratio is 1:20,
the planetary reducer reduction ratio is 1:5, and the total
reduction ratio is 1:100. The interface is compatible with
any brand of servo and stepper motor.



Heavy- Duty hollow rotary platform series

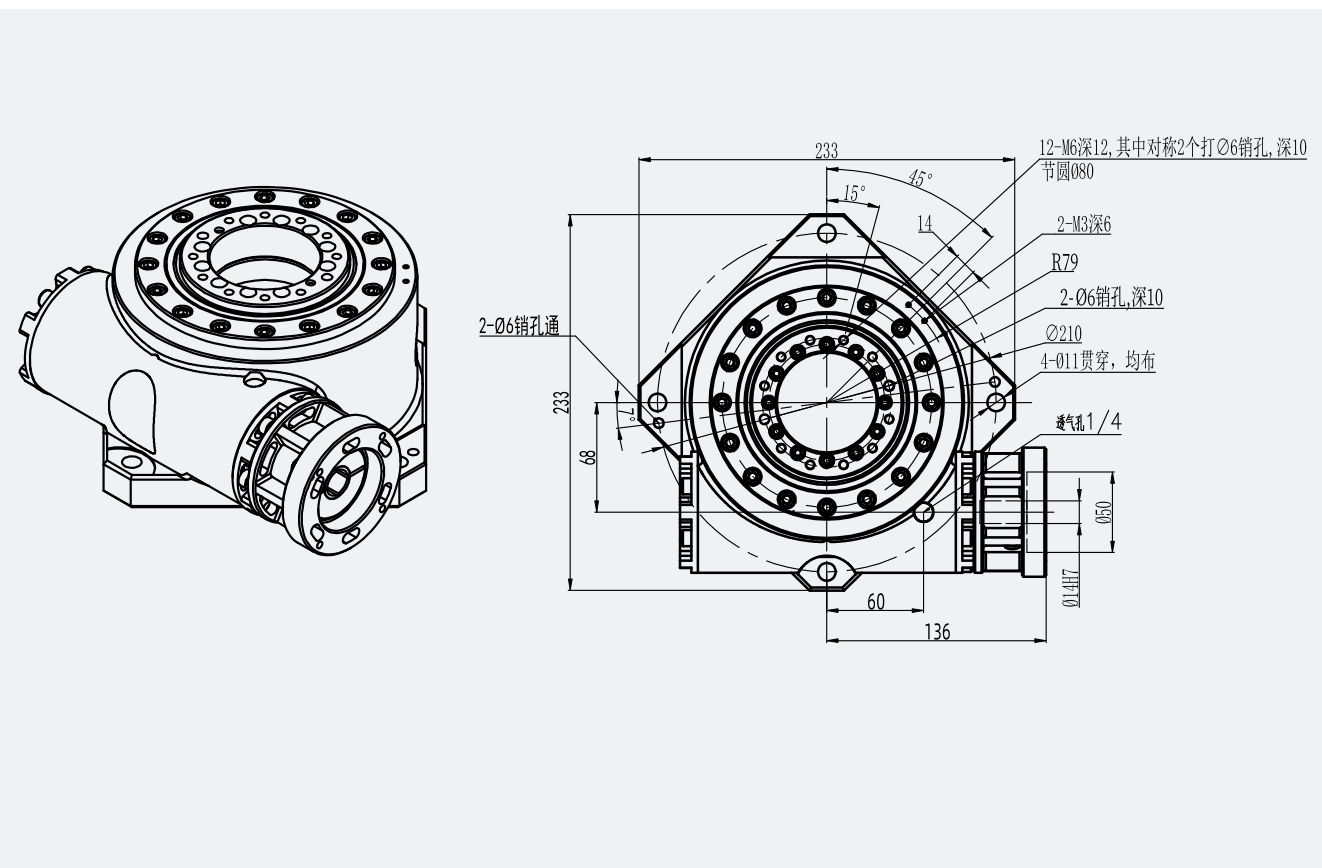
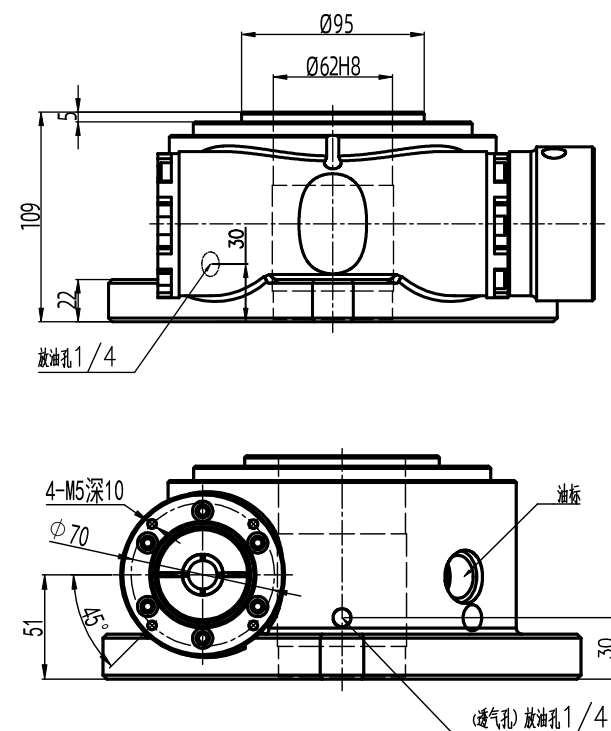


Note: Models 400/500/600/800 offer options for mechanical
indexing and servo-based arbitrary indexing.
Models 950/1100/1300 only offer arbitrary indexing
(arbitrary indexing requires high precision from the external reducer).
Note: For information on heavy-duty cams, please contact our sales representative.

Cam roller type hollow rotating platform

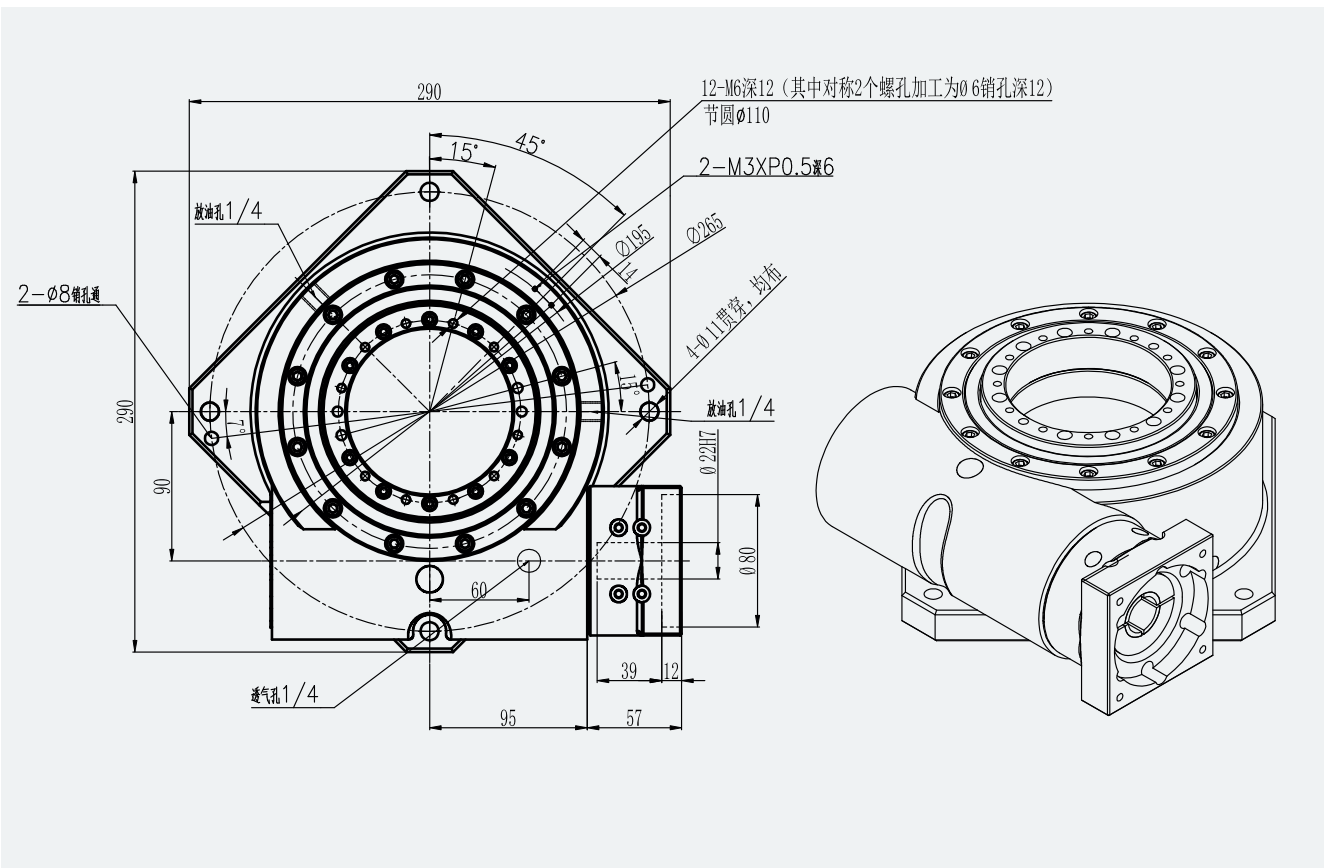
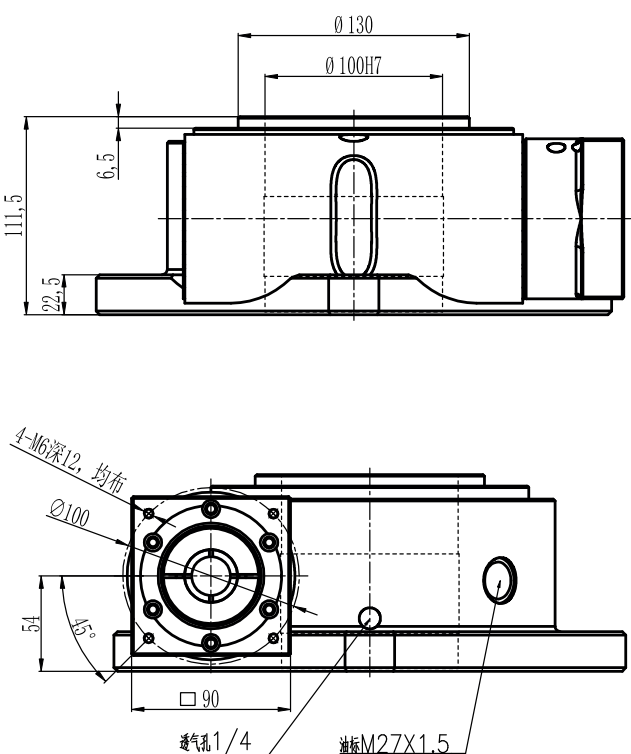
Heavy-duty hollow rotary platform 68 series

Parameters of Hollow rotary platform for cam rollers	
Design load-bearing	≤ 80kg
Maximum outer diameter of rotating tooling disc	≤ 500mm
Turntable body reduction ratio i	1:20
Overturning moment N.m	400
Allowable input torque N.m	≤ 30
Rated output torque N.m	≤ 600
Allowable moment of inertia N.m	75
Allowable input speed r/min	2000
Repeatability arc-sec	±5
Positioning accuracy arc-sec	±10
Rotating platform parallelism mm	0.02
Concentricity of rotating platform (mm)	0.02
Accuracy life h	20000 (interval exercise)
Structure type	0.4kW / 0.75kW
Adapted motor	Cam roller + crossed roller bearing
Compatible motor type	Planetary reducer/servo motor
Protection level	Ip40
Weight kg	16



Heavy-duty hollow rotary platform 90 series

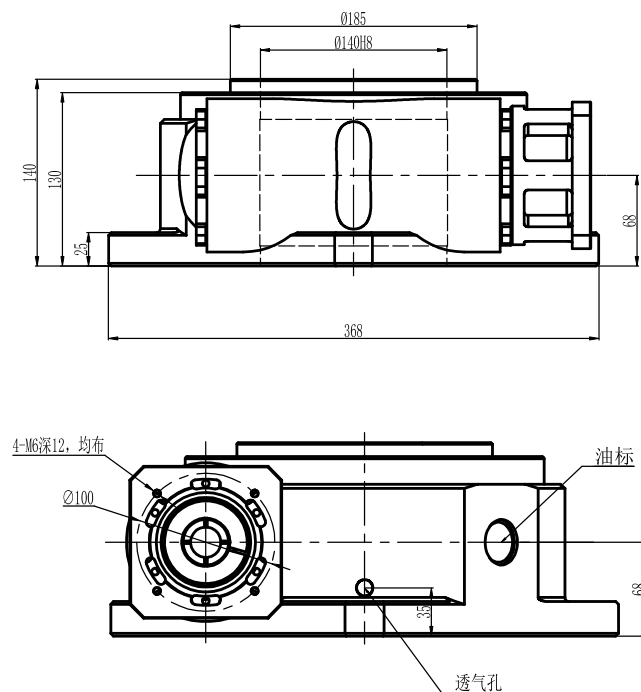
Parameters of Hollow rotary platform for cam rollers	
Design load-bearing	≤ 280kg
Maximum outer diameter of rotating tooling disc	≤ 900mm
Turntable body reduction ratio i	1:20
Overturning moment N.m	625
Allowable input torque N.m	≤ 72
Rated output torque N.m	≤ 1440
Allowable moment of inertia N.m	220
Allowable input speed r/min	2000
Repeatability arc-sec	±5
Positioning accuracy arc-sec	±10
Rotating platform parallelism mm	0.02
Concentricity of rotating platform (mm)	0.02
Accuracy life h	20000 (interval exercise)
Structure type	Cam roller + crossed roller bearing
Adapted motor	80 servo
Compatible motor type	Planetary reducer/servo motor
Protection level	Ip40
Weight kg	24



Cam roller type hollow rotating platform

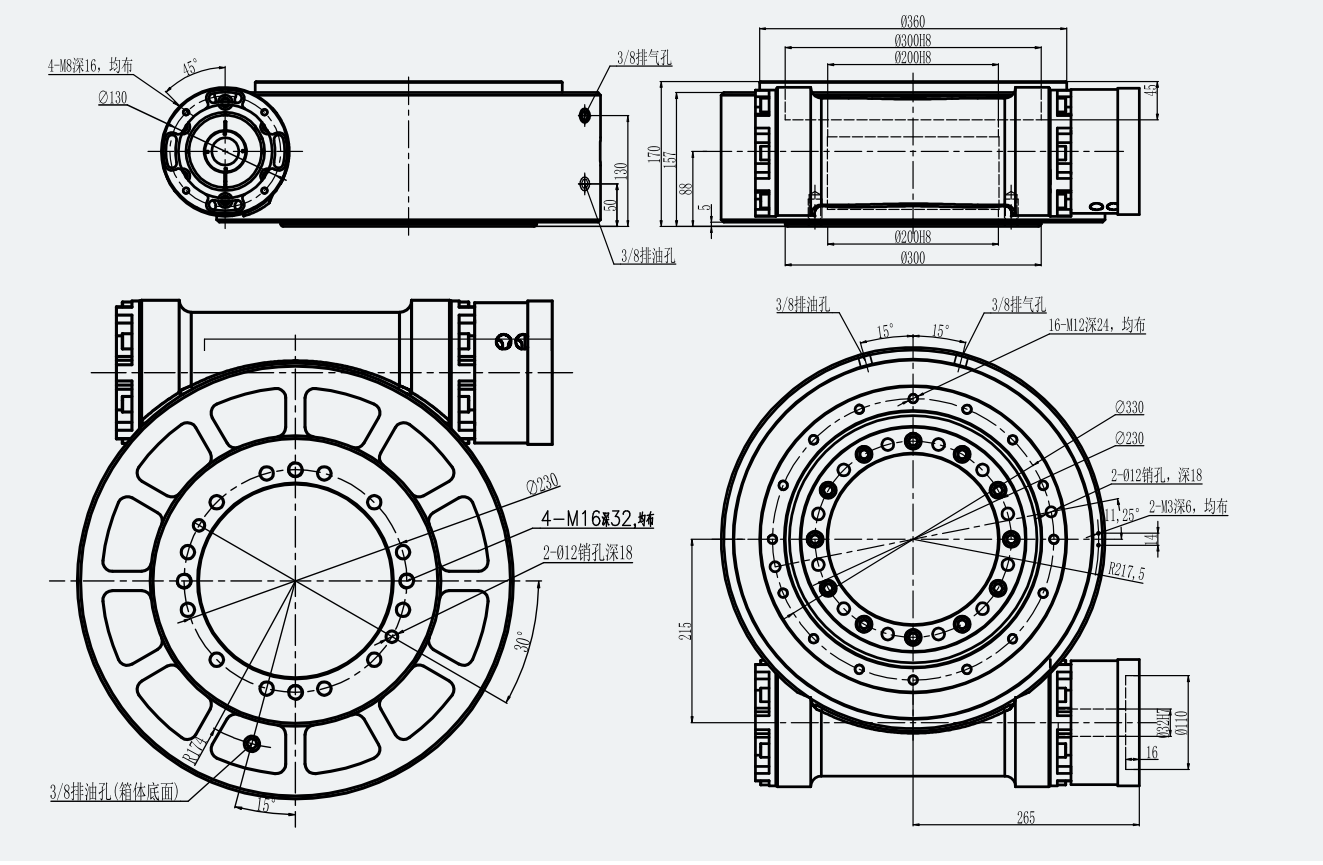
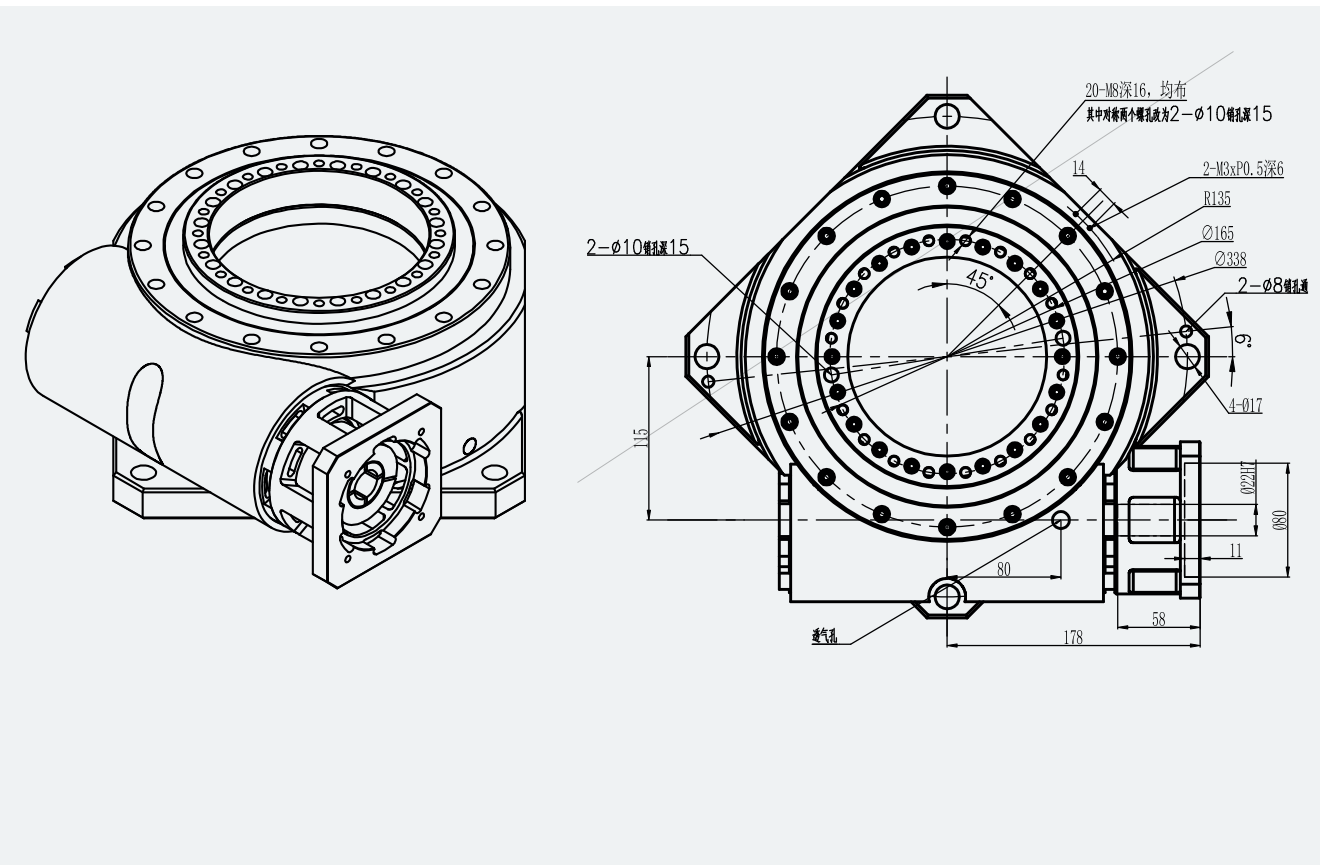
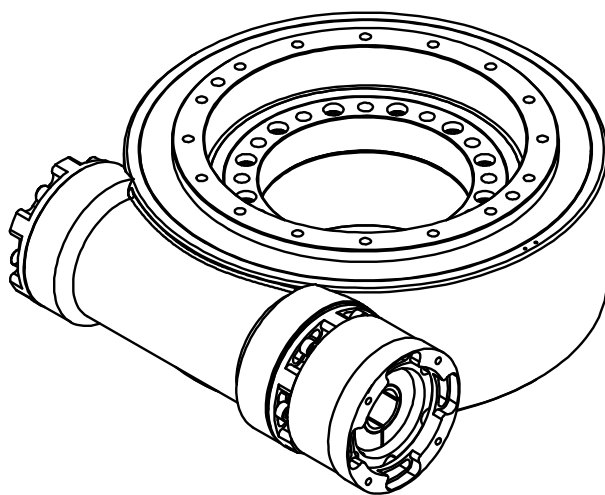
Heavy-duty hollow rotary platform 115 series

Parameters of Hollow rotary platform for cam rollers	
Design load-bearing	≤ 500kg
Maximum outer diameter of rotating tooling disc	≤ 1200mm
Turntable body reduction ratio i	1:20
Overturning moment N.m	1028
Allowable input torque N.m	≤ 90
Rated output torque N.m	≤ 1800
Allowable moment of inertia N.m	260
Allowable input speed r/min	2000
Repeatability arc-sec	±5
Positioning accuracy arc-sec	±10
Rotating platform parallelism mm	0.02
Concentricity of rotating platform (mm)	0.02
Accuracy life h	20000 (interval exercise)
Structure type	Cam roller + crossed roller bearing
Adapted motor	80 servo / 130 servo
Compatible motor type	Planetary reducer/servo motor
Protection level	Ip40
Weight kg	45



Heavy-duty hollow rotary platform 215 series

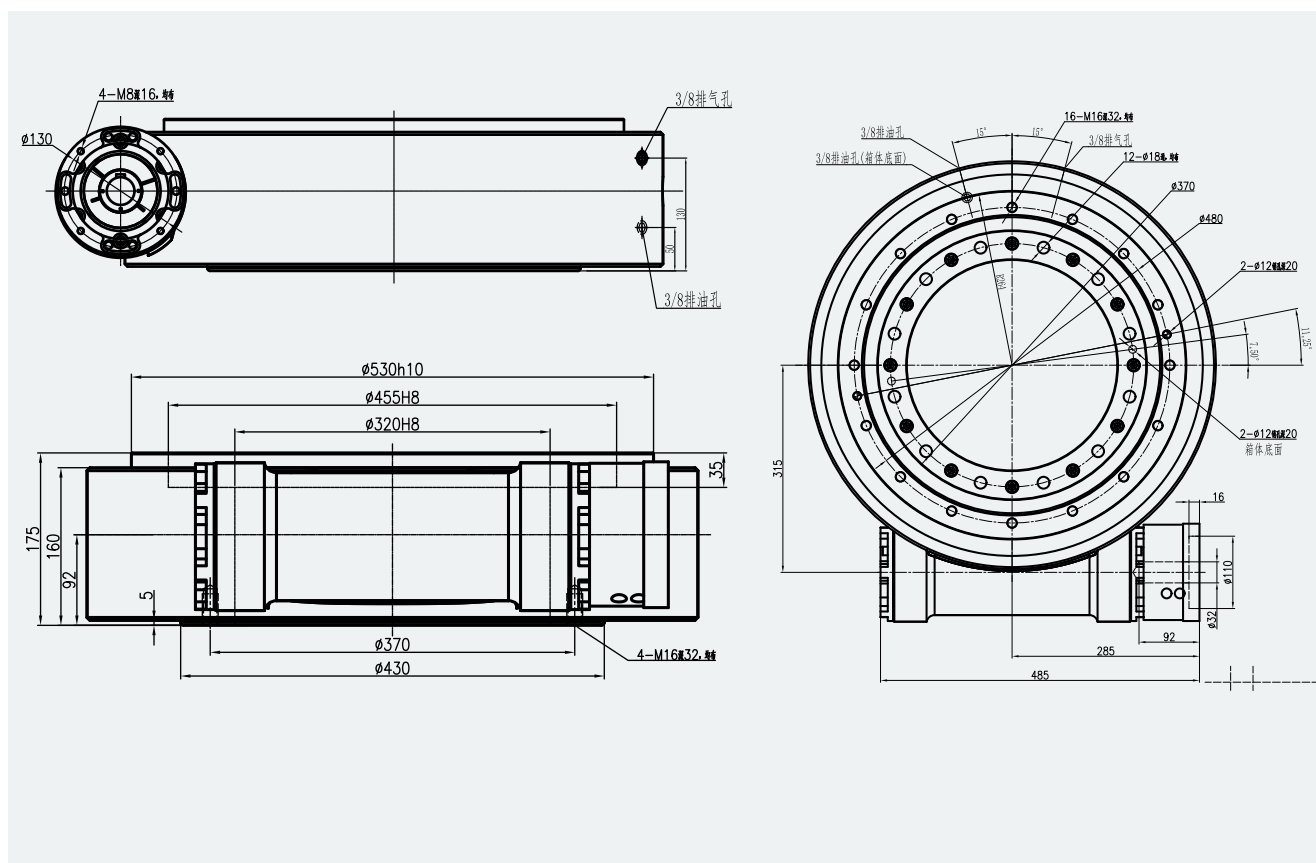
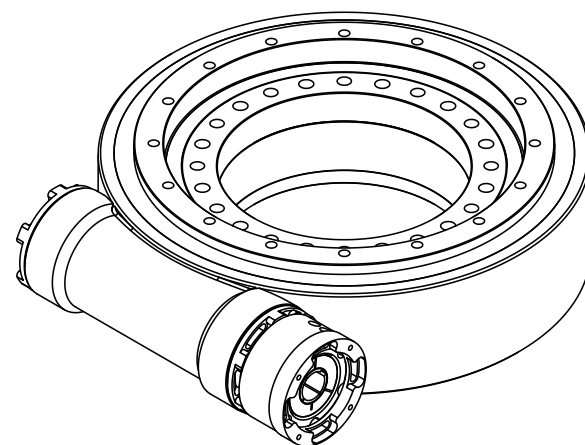
Parameters of Hollow rotary platform for cam rollers	
Design load-bearing	≤ 1600kg
Maximum outer diameter of rotating tooling disc	≤ 2000mm
Turntable body reduction ratio i	1:40
Overturning moment N.m	3500
Allowable input torque N.m	≤ 500
Rated output torque N.m	≤ 20000
Allowable moment of inertia N.m	18000
Allowable input speed r/min	1200
Repeatability arc-sec	±5
Positioning accuracy arc-sec	±10
Rotating platform parallelism mm	0.02
Concentricity of rotating platform (mm)	0.02
Accuracy life h	20000 (interval exercise)
Structure type	Cam roller + crossed roller bearing
Adapted motor	130 servo / 180 servo
Compatible motor type	Planetary reducer/servo motor
Protection level	Ip40
Weight kg	120



Cam roller type hollow rotating platform

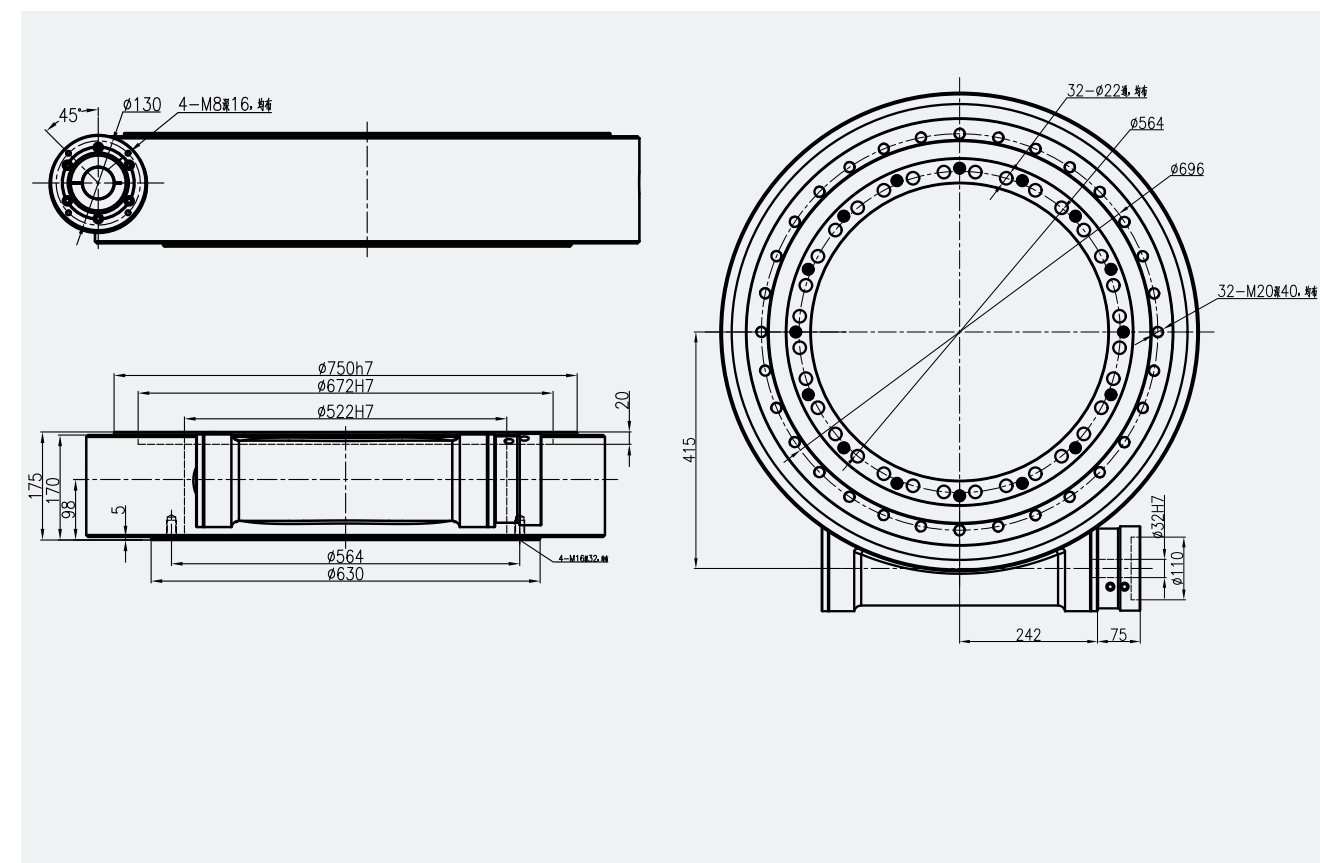
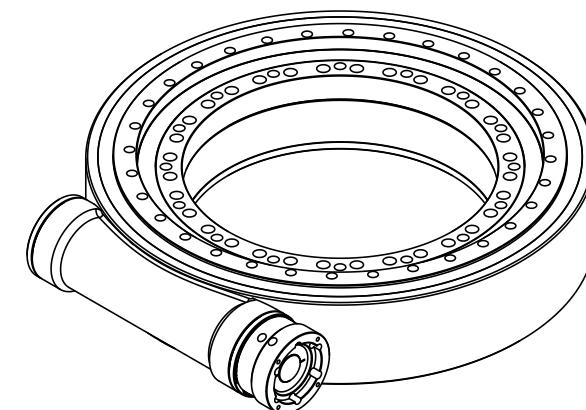
Heavy-duty hollow rotary platform 315 series

Parameters of Hollow rotary platform for cam rollers	
Design load-bearing	≤ 2.5T
Maximum outer diameter of rotating tooling disc	≤ 2500mm
Turntable body reduction ratio i	1:60
Overturning moment N.m	14000
Allowable input torque N.m	≤ 500
Rated output torque N.m	≤ 30000
Allowable input speed r/min	2000
Repeatability accuracy arc-sec	±5
Positioning accuracy arc-sec	±10
Rotating platform parallelism mm	0.02
Rotating platform Concentricity mm	0.02
Accuracy life h	20000 (interval exercise)
Structure type	Cam roller + crossed roller bearing
Adapted motor	180 servo
Compatible motor type	Planetary reducer/servo motor
Protection level	Ip40
Weight kg	200



Heavy-duty hollow rotary platform 415 series

Parameters of Hollow rotary platform for cam rollers	
Design load-bearing	≤ 4.5T
Maximum outer diameter of rotating tooling disc	≤ 3000mm
Turntable body reduction ratio i	1:60
Overturning moment N.m	30000
Permissible input torque N.m	≤ 500
Rated output torque N.m	≤ 30000
Allowable input speed r/min	2000
Repeatability accuracy arc-sec	±5
Positioning accuracy arc-sec	±10
Rotating platform parallelism mm	0.02
Rotating platform Concentricity mm	0.02
Accuracy life h	20000（间歇运动）
Structure type	凸轮滚子 + 交叉滚子轴承
Adapted motor	180 伺服
Compatible motor type	行星减速器 / 伺服马达
Protection level	IP40
Weight kg	300

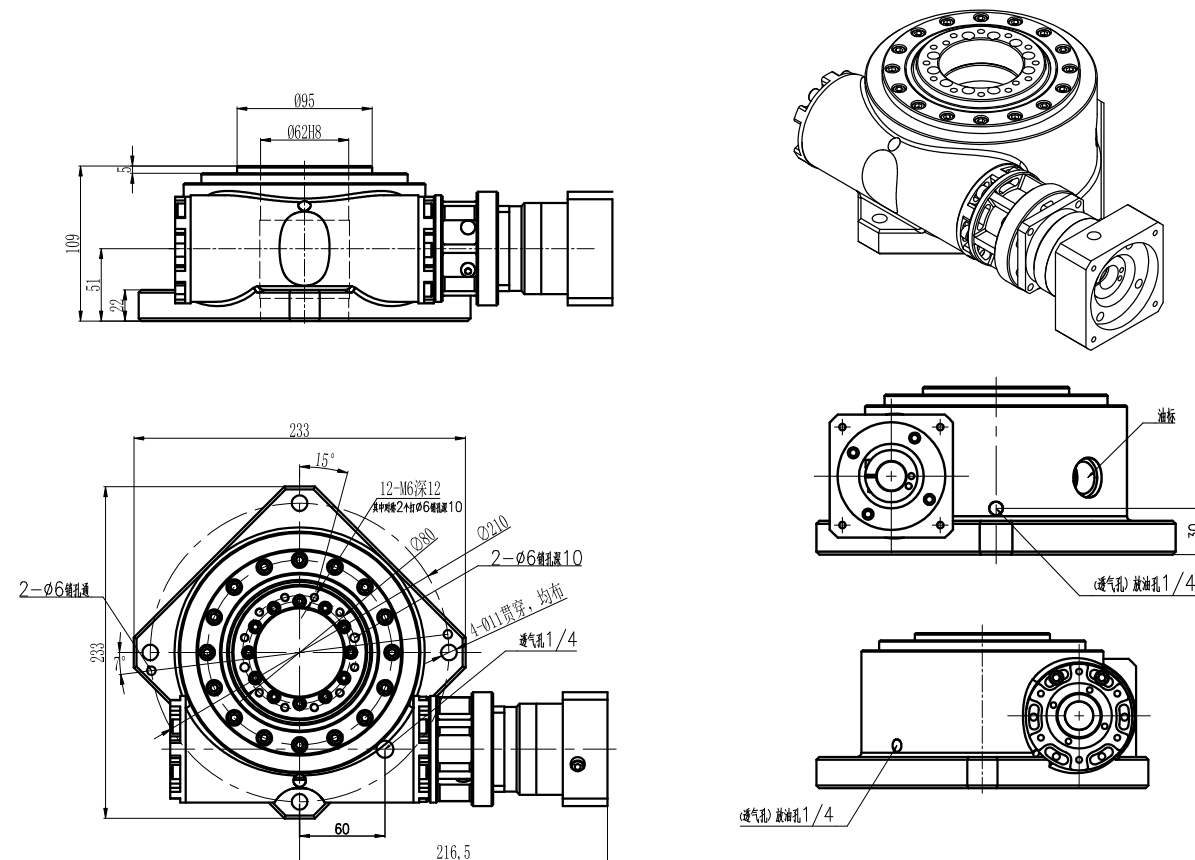


Cam roller type hollow rotating platform

Heavy-duty hollow rotary platform + Precision planetary reducer 68 series

Parameters of Hollow rotary platform for cam rollers	
Design load-bearing	≤ 80kg
Maximum outer diameter of rotating tooling disc	≤ 500mm
Turntable body reduction ratio i	1:20
Overturning moment N.m	400
Allowable input torque N.m	≤ 30
Rated output torque N.m	≤ 600
Permissible moment of inertia N.m	75
Allowable input speed r/min	20000
Repeatability accuracy arc-sec	±5
Positioning accuracy arc-sec	±10
Rotating platform parallelism mm	0.02
Concentricity of rotating platform (mm)	0.02
Accuracy life h	20000 (interval exercise)
Structure type	Cam roller + crossed roller bearing
Adapted motor	0.4kw/0.75kw
Compatible motor type	Planetary reducer/servo motor
Protection level	Ip40
Weight kg	16

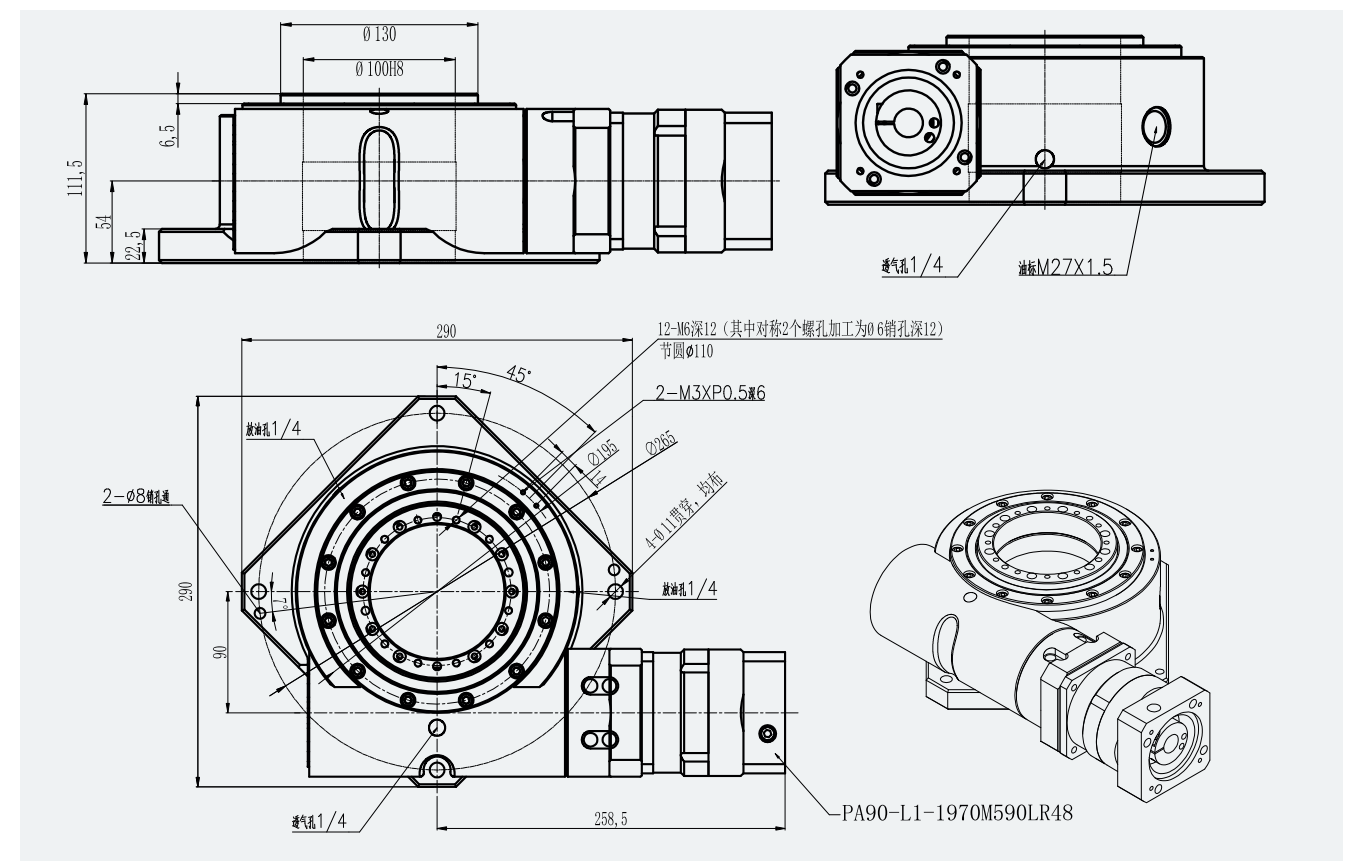
Precision Planetary reducer	
Reduction ratio i	5
Rated output torque N.M	45
Maximum torque N.M	1.5 times
Emergency braking torque N.M	2.5 times
Torsional stiffness N.M/Arcmin	6
Rated input speed N/mir	4000
Maximum input speed r/min	8000
Noise dB	≤ 58
Average life speed r/min	2000
Full load efficiency%	95%
Return clearance arcmin	≤3
Moment of inertia kg.cm	0.13
Protection level	Ip65
Working Temperature	90°C to -10°C
Weight kg	1.6



Heavy-duty hollow rotary platform + Precision planetary reducer 90 series

Parameters of Hollow rotary platform for cam rollers	
Design load-bearing	≤ 280kg
Maximum outer diameter of rotating tooling disc	≤ 900mm
Turntable body reduction ratio i	1:20
Overturning moment N.m	625
Allowable input torque N.m	≤ 72
Rated output torque N.m	≤ 1440
Permissible moment of inertia N.m	220
Allowable input speed r/min	2000
Repeatability accuracy arc-sec	±5
Positioning accuracy arc-sec	±10
Rotating platform parallelism mm	0.02
Concentricity of rotating platform (mm)	0.02
Accuracy life h	20000 (interval exercise)
Structure type	Cam roller + crossed roller bearing
Adapted motor	80 servo
Compatible motor type	Planetary reducer/servo motor
Protection level	Ip40
Weight kg	16

Precision Planetary reducer	
Reduction ratio i	5
Rated output torque N.M	112
Maximum torque N.M	1.5 times
Emergency braking torque N.M	2.5 times
Torsional stiffness N.M/Arcmin	12
Rated input speed N/mir	3000
Maximum input speed r/min	6000
Noise dB	≤ 58
Average life speed r/min	2000
Full load efficiency%	95%
Return clearance arcmin	≤3
Moment of inertia kg.cm	0.47
Protection level	Ip65
Working Temperature	90°C to -10°C
Weight kg	3.75

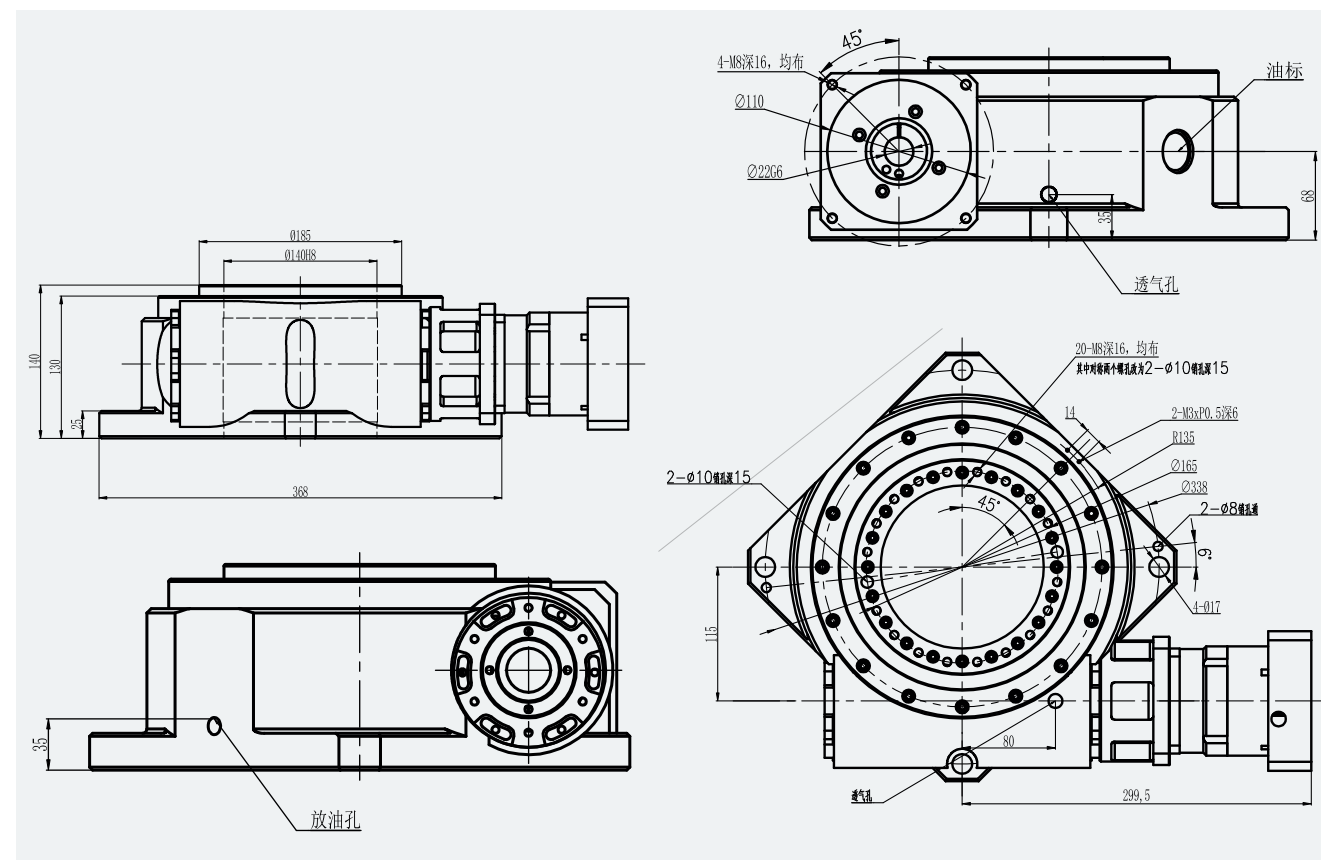


Cam roller type hollow rotating platform

Heavy-duty hollow rotary platform + Precision planetary reducer 115 series

Parameters of Hollow rotary platform for cam rollers	
Design load-bearing	≤ 500kg
Maximum outer diameter of rotating tooling disc	≤ 1200mm
Turntable body reduction ratio i	1:20
Overturning moment N.m	1028
Allowable input torque N.m	≤ 90
Rated output torque N.m	≤ 1800
Permissible moment of inertia N.m	260
Allowable input speed r/min	2000
Repeatability accuracy arc-sec	±5
Positioning accuracy arc-sec	±10
Rotating platform parallelism mm	0.02
Concentricity of rotating platform (mm)	0.02
Accuracy life h	20000 (interval exercise)
Structure type	Cam roller + crossed roller bearing
Adapted motor	80 servo/130 servo
Compatible motor type	Planetary reducer/servo motor
Protection level	Ip40
Weight kg	45

Precision Planetary reducer	
Reduction ratio i	5
Rated output torque N.M	112
Maximum torque N.M	1.5 times
Emergency braking torque N.M	2.5 times
Torsional stiffness N.M/Arcmin	12
Rated input speed N/mir	3000
Maximum input speed r/min	6000
Noise dB	≤ 58
Average life speed r/min	20000
Full load efficiency%	95%
Return clearance arcmin	≤3
Moment of inertia kg.cm	0.47
Protection level	Ip65
Working Temperature	90°C to -10°C
Weight kg	4.5



Heavy-duty hollow rotary platform + Precision planetary reducer 215 series

Parameters of Hollow rotary platform for cam rollers	
Design load-bearing	≤ 1600kg
Maximum outer diameter of rotating tooling disc	≤ 2000mm
Turntable body reduction ratio i	1:40
Overturning moment N.m	3500
Allowable input torque N.m	≤ 500
Rated output torque N.m	≤ 20000
Permissible moment of inertia N.m	18000
Allowable input speed r/min	1200
Repeatability accuracy arc-sec	±5
Positioning accuracy arc-sec	±10
Rotating platform parallelism mm	0.02
Concentricity of rotating platform (mm)	0.02
Accuracy life h	20000 (interval exercise)
Structure type	Cam roller + crossed roller bearing
Adapted motor	130 servo/180 servo
Compatible motor type	Planetary reducer/servo motor
Protection level	Ip40
Weight kg	120

Precision Planetary reducer	
Reduction ratio i	5
Rated output torque N.M	230
Maximum torque N.M	1.5 times
Emergency braking torque N.M	2.5 times
Torsional stiffness N.M/Arcmin	23
Rated input speed N/mir	3000
Maximum input speed r/min	6000
Noise dB	≤ 65
Average life speed r/min	20000
Full load efficiency%	95%
Return clearance arcmin	≤3
Moment of inertia kg.cm	2.71
Protection level	Ip65
Working Temperature	90°C to -10°C
Weight kg	8.5

Helical gear 120 planetary 130 servo interface

