

Focus on High-Precision Hollow Rotary Platform

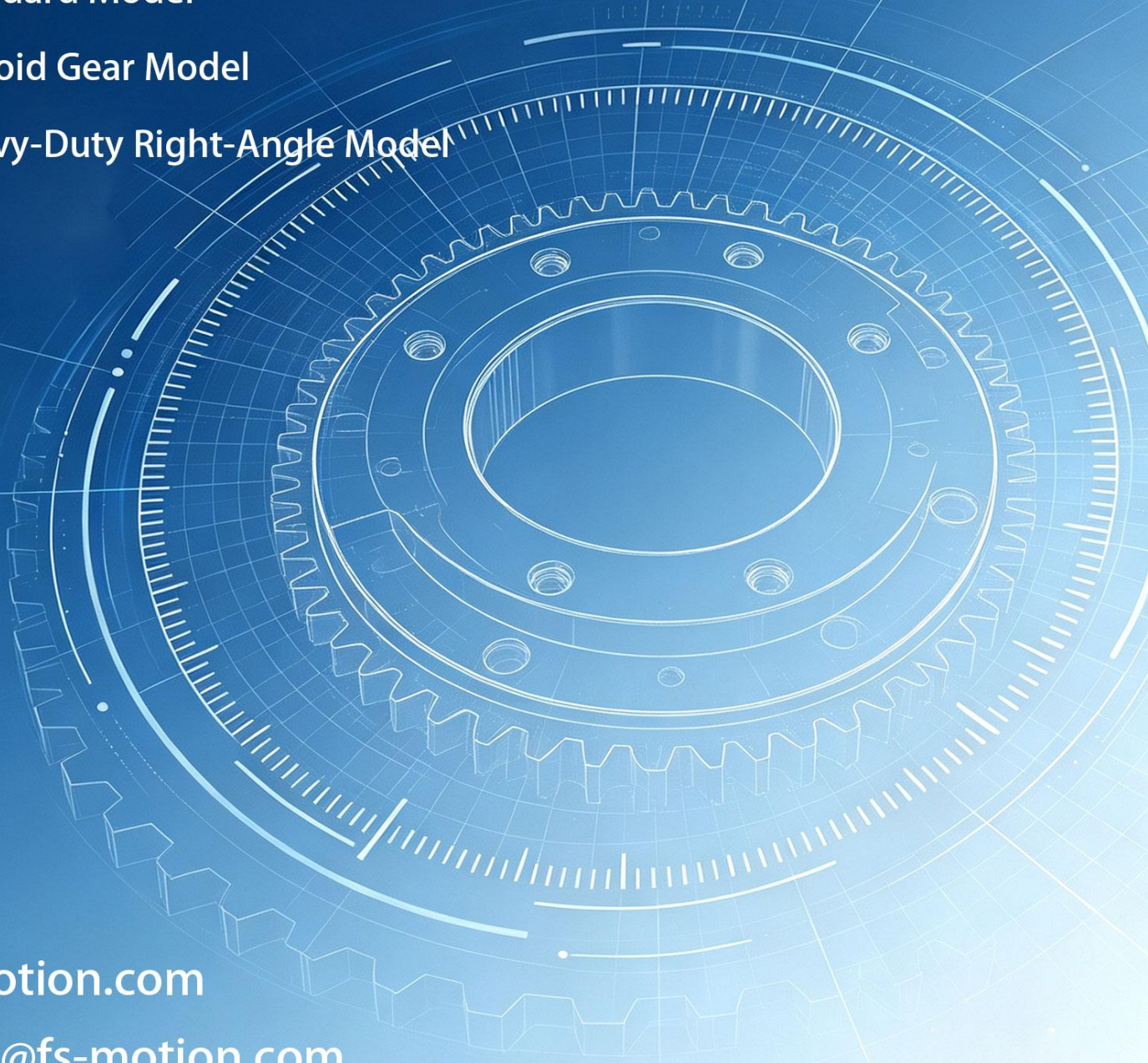
Standard Model

Hypoid Gear Model

Heavy-Duty Right-Angle Model

fs-motion.com

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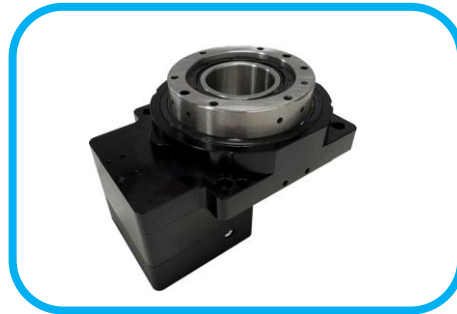


Hollow Rotary Platform Series

There is always one suitable for you

FS Standard Series

Low deformation, high precision & excellent wear resistance Convenient for cable & air tube routing



FSA Hypoid Gear Series

High rigidity, high torque, high precision
Compact size, wide speed ratio options



FSB Heavy-Duty Right-Angle Series

High torque, high precision, space-saving



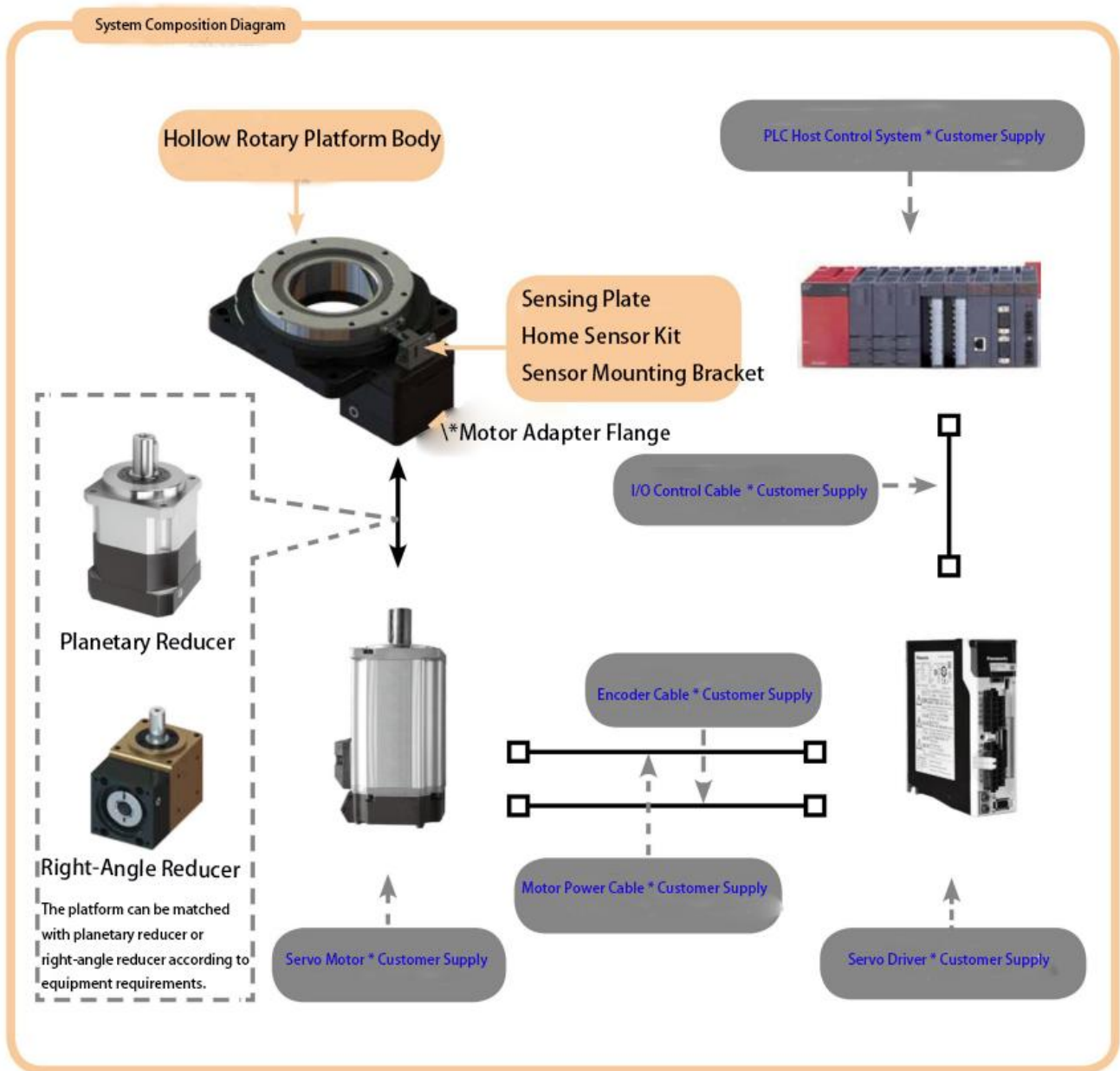
FS-MOTION | Customer-Oriented

Intelligent • Efficient • Reliable

HOLLOW ROTARY PLATFORM

STANDARD CONFIGURATION

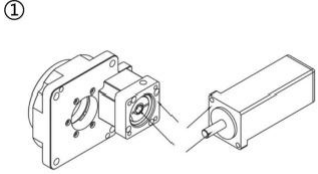
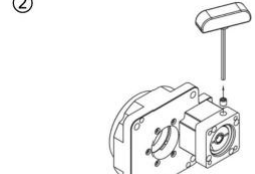
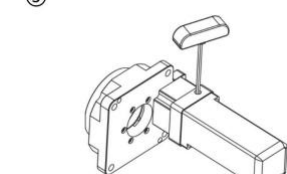
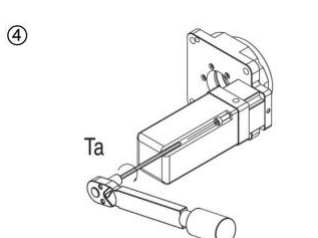
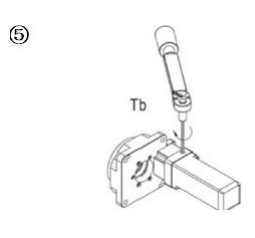
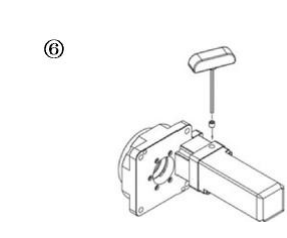
1 set Rotary Platform Body	1 set Home Sensor Kit
1 piece Sensing Plate	1 set Sensor Mounting Bracket



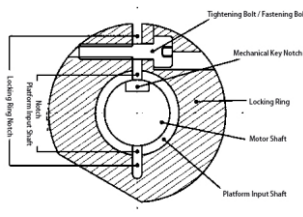
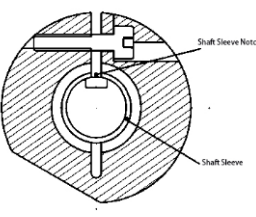
Optional Accessories: The above optional accessories are for reference only. Customers may select and purchase them according to equipment requirements.

HOLLOW ROTARY PLATFORM

Motor Installation Instructions

		
Verify the mounting dimensions of the motor and hollow rotary platform, and clean all debris from the mating surface.	Remove the threaded plug on the adapter flange, adjust the mounting position to expose the fixed locking ring (Note 1).	Align the motor and adapter flange properly, slightly pre-tighten the fixing bolts until there is no backlash of the locking ring.
		
Pre-tighten all fixing bolts diagonally. After Step 5, tighten the motor mounting bolts to torque specification Ta (Note 2).	Tighten the locking ring fixing bolts to torque specification Tb (Note 2).	Tighten the threaded plug.

Note 1: How to Install the Motor

 Motor Installation Method with Mechanical Key Pull out the mechanical key, adjust the slot of the locking ring to align with the slot of the rotary platform input shaft. Apply grease to the shaft bore of platform input shaft and motor shaft, insert the motor shaft, align the mechanical key slot, then fully tighten the locking ring fixing bolts for secure connection.	 Installation Method with Shaft Sleeve If the motor shaft diameter is too small to match the bore of platform input shaft, a shaft sleeve can be used for adjustment. The installation procedure is the same as the motor with mechanical key. Simply fit the shaft sleeve onto the motor shaft, align it with the locking ring slot, then tighten the locking ring fixing bolts.
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Note 2: Tightening Torque for Wrench Bolts

Wrench Bolt Size	Motor Mounting Ta (Grade 8.8)		Lock Ring Mounting Tb (Grade 12.9)	
	N·m	kgf·cm	N·m	kgf·cm
M3	1.28	13	2.15	22
M4	2.9	30	4.95	50
M5	5.75	59	9.7	99
M6	9.9	101	16.5	168
M8	24	245	40	408
M10	48	489	81	826
M12	83	846	140	1428
M14	132	1346	220	2243
M16	200	2039	340	3467

HOLLOW ROTARY PLATFORM

Order Model

FS130-10-400W



Model Code	Size (Table Outer Diameter, mm))	Structure Type	Reduction Ratio	Servo Motor Spec.	or	Stepper Motor Spec.
FS	130		10	V2	/	T2
FS = Standard Series Hollow Rotary Platform	60	Standard Type	5: High-speed Light Load Type, Max. Input Speed 2000RPM	V1: Servo shaft Ø8, Flange 40, PCD45/46, M3/M4, compatible with 100W servo motors of all brands (Exclusive for FS60)		T1: Stepper shaft Ø5, PCD43.8, M3, compatible with all-brand 42-type stepper motors (Exclusive for FS60)
	85		10: General Balanced Type, Max. Input Speed 2000RPM	V2: Servo shaft Ø14, Flange 60, PCD70, M4/M5, compatible with 400W servo motors of all brands (Exclusive for FS85/FS130)		T2: Stepper shaft Ø8, PCD66.7, M4, compatible with all-brand 57-type stepper motors (Exclusive for FS85/FS130)
	130		18: High Torque Heavy Load Type, Max. Input Speed 3000RPM	V3: Servo shaft Ø19, Flange 80, PCD90, M5/M6, compatible with 750W servo motors of all brands (Exclusive for FS200)		T3: Stepper shaft Ø14, PCD98.4, M5/M6, compatible with all-brand 86-type stepper motors (Exclusive for FS200)
	200		60 & 85: Only ratio 5 and 10 available	V4: Servo shaft Ø22/Ø24, Flange 130, PCD145, M8, compatible with 1500W servo motors of all brands (Exclusive for FS280)		
	280		130, 200, 280: Only ratio 10 and 18 available			

◆ Hollow Through Hole | Space-saving & Easy Wiring

Large-diameter through hollow design. Cables and air tubes can pass directly through, achieving tidy equipment layout, ideal for compact automation system integration.

◆ Cross Roller Bearing | High Rigidity & High Load Capacity

Built-in high-precision cross roller bearing with stable multi-direction load resistance. The table panel resists deformation, delivering superior load capacity and rigidity compared with ordinary rotary platforms.

◆ Zero Backlash Drive | Precise & Stable Positioning

Precision ground gear zero-backlash structure, no cumulative error, high positioning accuracy. Suitable for precision indexing, inspection and high-precision assembly applications.

◆ Long Service Life | Maintenance-free & Durable

IP50 dust-proof protection, lifelong lubrication design. Service life reaches up to 20,000 hours; basically maintenance-free under normal working conditions.



Note: The unit is NOT waterproof or oil-proof. Do NOT use in humid or oily environments.

◆ High Compatibility & Easy Installation | Wide Adaptability & High Efficiency

Direct connection with servo & stepper motors without extra adapter parts. Supports multi-angle mounting, compatible with mainstream control systems.

FS Full Series Hollow Rotary Platform Selection Guide

Parameter Comparison Table for 9 Models

Model Spec.	Compatible Motor	Max. Load Capacity	Core Features	Application Scenarios
FS60-5 / 60-10	100W Servo	10kg	Compact size, ultra-lightweight design, fast dynamic response, minimum installation space occupation	Mini laser marking, small precision vision inspection, indexing & assembly of tiny 3C components
FS85-5 / 85-10	400W Servo	30kg	Optimal volume-to-load ratio, balanced load capacity, cost-effective, highly versatile for industrial applications	3C electronic assembly, production line vision positioning, precision machining in dry small-scale environments
FS130-10 / 130-18	400W Servo	50kg	Stable high-speed operation without vibration, strong output torque, repeat indexing accuracy up to ± 15 arcsec	Precision automated assembly, metal workpiece grinding & polishing, dry processing of new energy batteries
FS200-10 / 200-18	750W Servo	100kg	Reinforced high-rigidity structure, excellent impact resistance & load capacity, suitable for heavy-load working conditions	Automotive battery module assembly, heavy fixture precision rotation, large automated production lines
FS280-10	1500W Servo	150kg	Extra-large flange table, superior radial load capacity, heavy-industry stable operation	Heavy machinery fixture positioning, large mold flipping, precision indexing for CNC heavy-duty machining

标准款中空旋转平台

海波齿旋转平台

直角重载旋转平台



HOLLOW ROTARY PLATFORM

HOLLOW ROTARY PLATFORM

Model

FS60-5



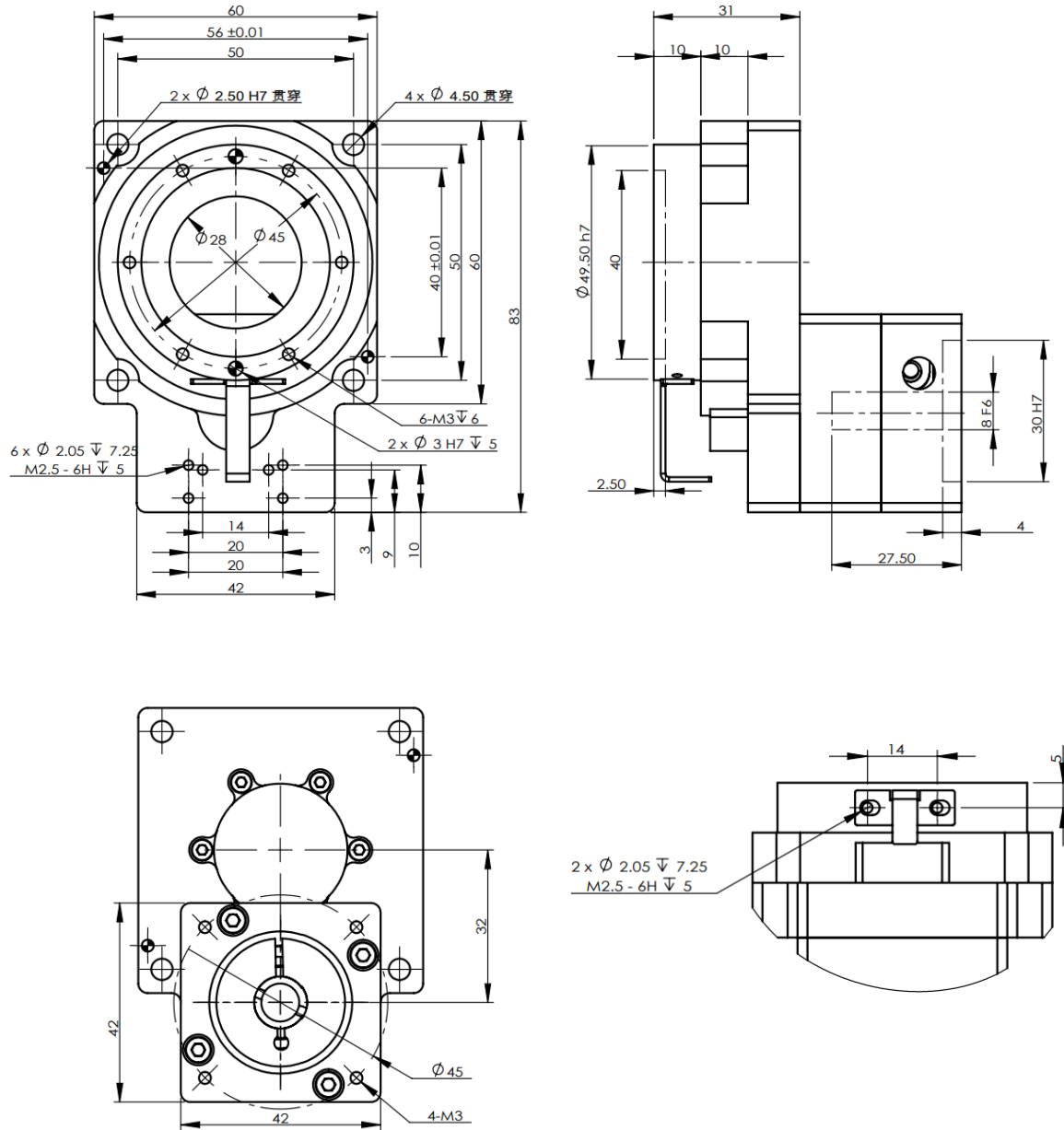
Technical Parameters

Parameter Item	Conservative Revised Value
Matched Servo Motor (Power & Flange)	100W (8-30-42-M3)
Bearing Type	Cross-roller Bearing RPA6028-1
Max. Tilting Moment	137 Nm
Rated Radial Load	1500 N
Rated Axial Load	1500 N
Rated Continuous Torque	10 Nm
Peak Torque	20 Nm
Rated Input Speed	1500 RPM
Max. Allowable Input Speed	2000 RPM
Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
Repeat Positioning Accuracy	≤ 10 arcsec
Rated Service Life	20000 h
Protection Class	IP50
Platform Face Runout	≤ 0.02 mm
Platform Radial Runout	≤ 0.02 mm
Lubrication Type	Long-term Lubrication
Operating Temperature Range	-10°C ~ +60°C
Mounting Orientation	Any Orientation
Allowable Load Mass	≤ 10 kg

All performance parameters are conservatively marked, and the actual performance of the product is better than the table data. All data are for reference only, and official technical documents shall be issued after customer confirmation.

Outline Dimension Drawing

FS60-5



All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

标准款中空旋转平台

FS

海波齿旋转平台

FS A

直角重载旋转平台

FS B

HOLLOW ROTARY PLATFORM

Model

FS60-10



Technical Parameters

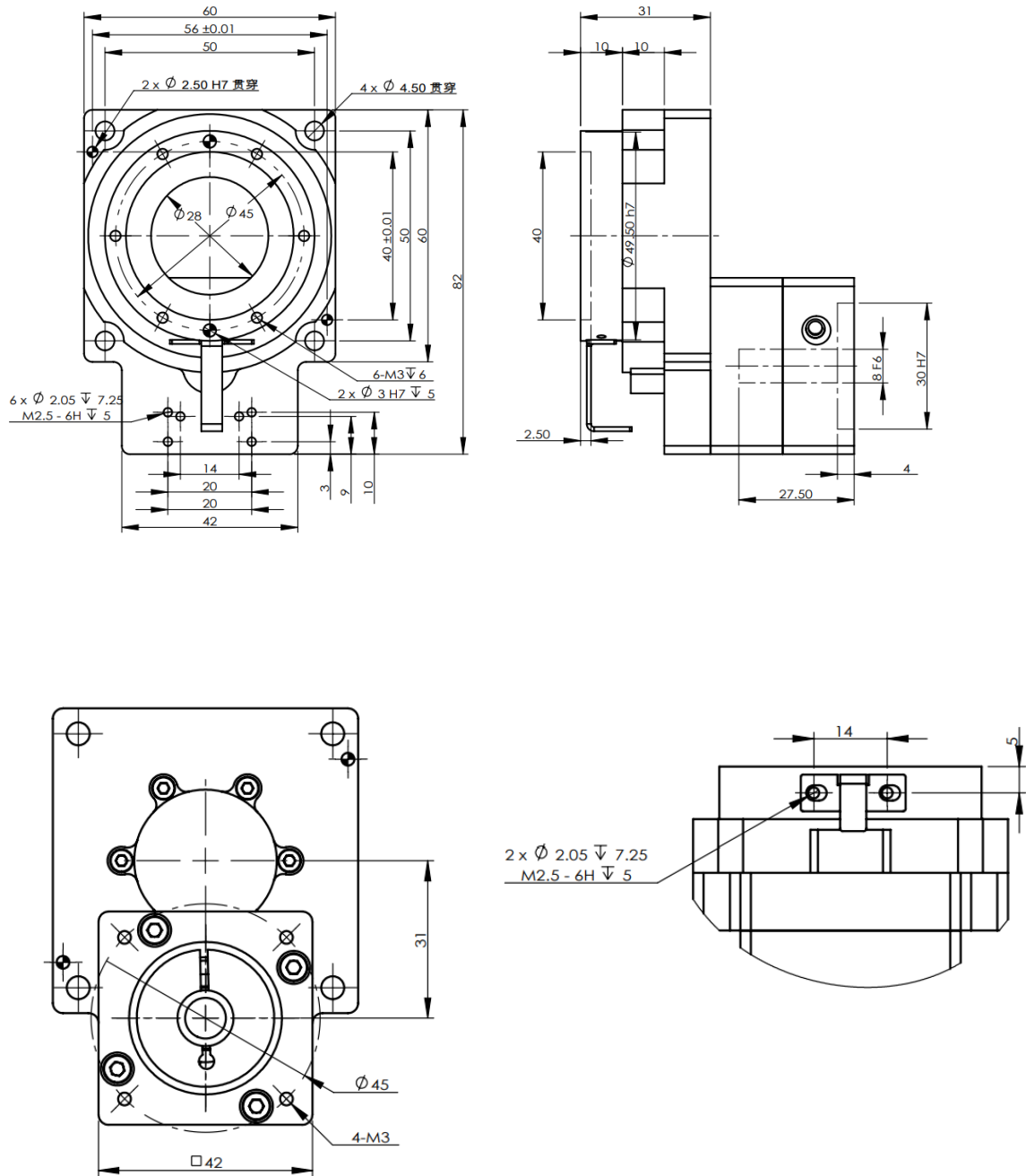
Parameter Item	Conservative Revised Value
Matched Servo Motor (Power & Flange)	100W (8-30-42-M3)
Bearing Type	Cross-roller Bearing RPA6028-1
Max. Tilting Moment	137 Nm
Rated Radial Load	1500 N
Rated Axial Load	1500 N
Rated Continuous Torque	10 Nm
Peak Torque	20 Nm
Rated Input Speed	2000 RPM
Max. Instantaneous Input Speed	3000 RPM
Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
Repeat Positioning Accuracy	≤ 10 arcsec
Rated Service Life	20000 h
Protection Class	IP50
Platform Face Runout	≤ 0.02 mm
Platform Radial Runout	≤ 0.02 mm
Lubrication Type	Long-term Lubrication
Operating Temperature Range	-10°C ~ +60°C
Mounting Orientation	Any Orientation
Allowable Load Mass	≤ 10 kg

All performance parameters are conservatively marked. The max instantaneous speed of 3000 RPM is only applicable to short intermittent start-stop cycles. Continuous long-term operation shall be controlled within 2000 RPM. All data are for reference only, official technical documents will be issued after customer confirmation.

HOLLOW ROTARY PLATFORM

Outline Dimension Drawing

FS60-10



标准款中空旋转平台

FS

海波齿旋转平台

FS A

直角重载旋转平台

FS B

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HOLLOW ROTARY PLATFORM

Model

FS85-5



Technical Parameters

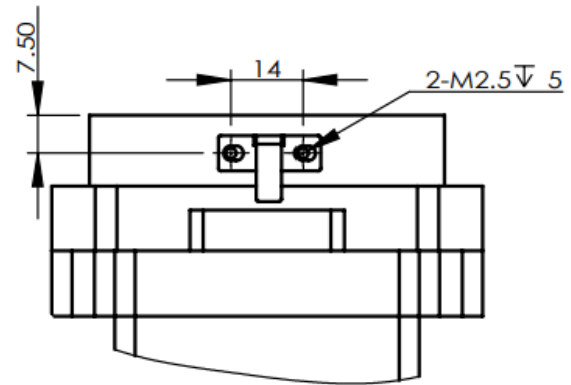
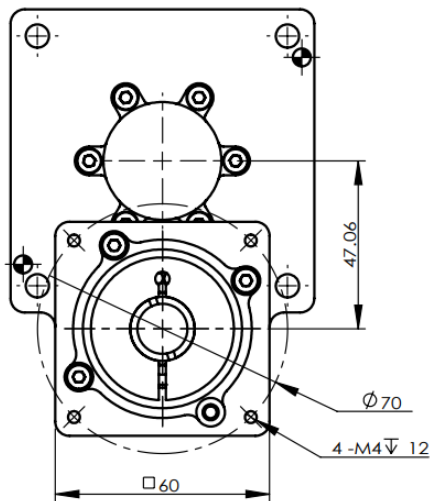
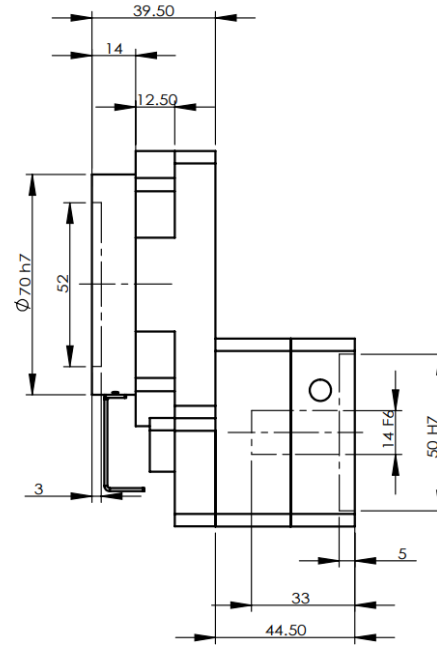
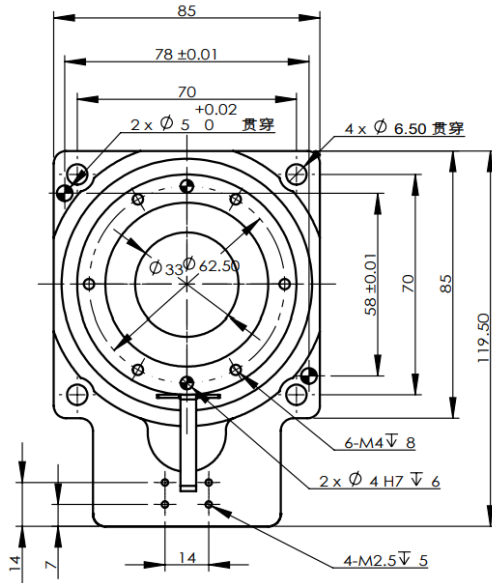
Parameter Item	Conservative Revised Parameter Value
Matched Servo Motor (Power & Flange)	400W (14-50-60-M4)
Bearing Type	Cross-roller Bearing RPA6028-1
Max. Tilting Moment	369 Nm
Rated Radial Load	3800 N
Rated Axial Load	3800 N
Rated Continuous Torque	20 Nm
Peak Torque	40 Nm
Rated Input Speed	2000 RPM
Max. Allowable Input Speed	2000 RPM
Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
Repeat Positioning Accuracy	≤ 10 arcsec
Rated Service Life	20000 h
Protection Class	IP50
Platform Face Runout	≤ 0.02 mm
Platform Radial Runout	≤ 0.02 mm
Lubrication Type	Long-term Lubrication
Operating Temperature Range	-10°C ~ +60°C
Mounting Orientation	Any Orientation
Allowable Load Mass	≤ 30 kg

All performance parameters are conservatively marked, and the actual performance of the product is better than the table data. All data are for reference only, and official technical documents shall be issued after customer confirmation.

HOLLOW ROTARY PLATFORM

Outline Dimension Drawing

FS85-5



标准款中空旋转平台

FS

海波齿旋转平台

FS A

直角重载旋转平台

FS B

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HOLLOW ROTARY PLATFORM

Model

FS85-10



Technical Parameters

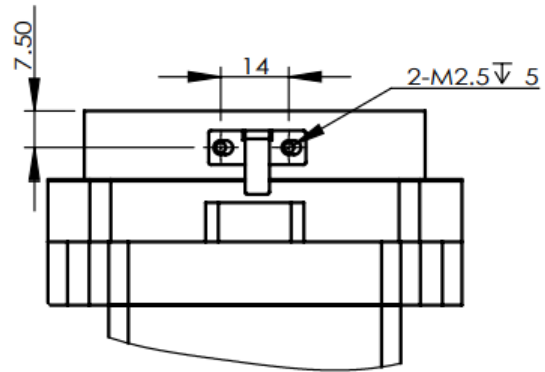
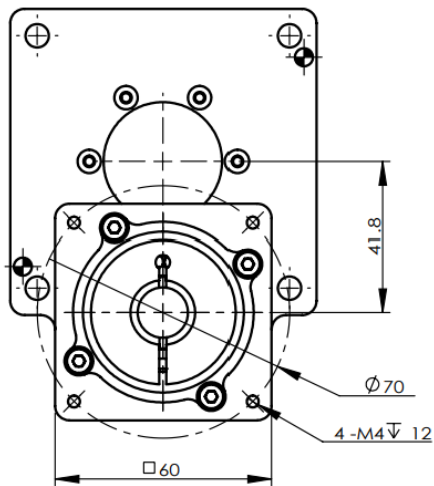
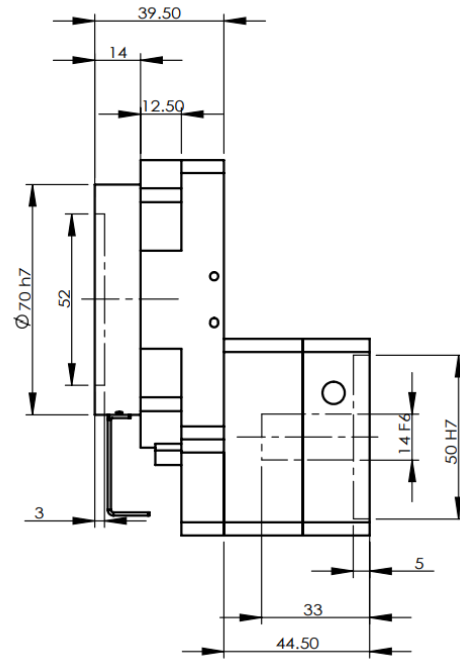
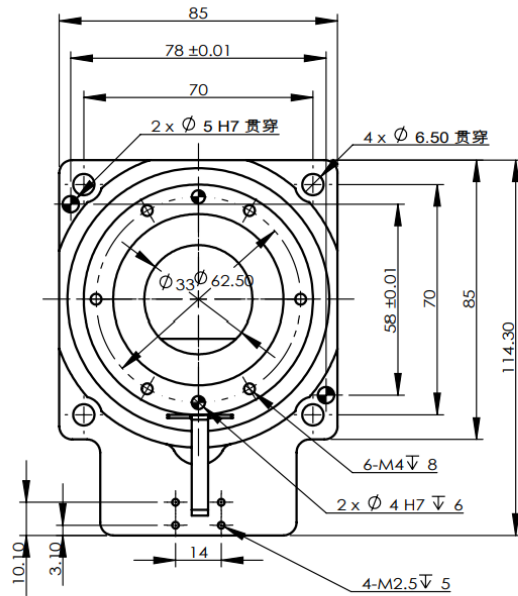
Parameter Item	Conservative Revised Value
Matched Servo Motor (Power & Flange)	400W (14-50-60-M4)
Bearing Type	Cross-roller Bearing RPA6028-1
Max. Tilting Moment	369 Nm
Rated Radial Load	3800 N
Rated Axial Load	3800 N
Rated Continuous Torque	20 Nm
Peak Torque	40 Nm
Rated Input Speed	2000 RPM
Max. Allowable Input Speed	2000 RPM
Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
Repeat Positioning Accuracy	≤ 10 arcsec
Rated Service Life	20000 h
Protection Class	IP50
Platform Face Runout	≤ 0.02 mm
Platform Radial Runout	≤ 0.02 mm
Lubrication Type	Long-term Lubrication
Operating Temperature Range	-10°C ~ +60°C
Mounting Orientation	Any Orientation
Allowable Load Mass	≤ 30 kg

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HOLLOW ROTARY PLATFORM

Outline Dimension Drawing

FS85-10



标准款中空旋转平台

FS

海波齿旋转平台

FS A

直角重载旋转平台

FS B

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HOLLOW ROTARY PLATFORM

Model

FS130-10



Technical Parameters

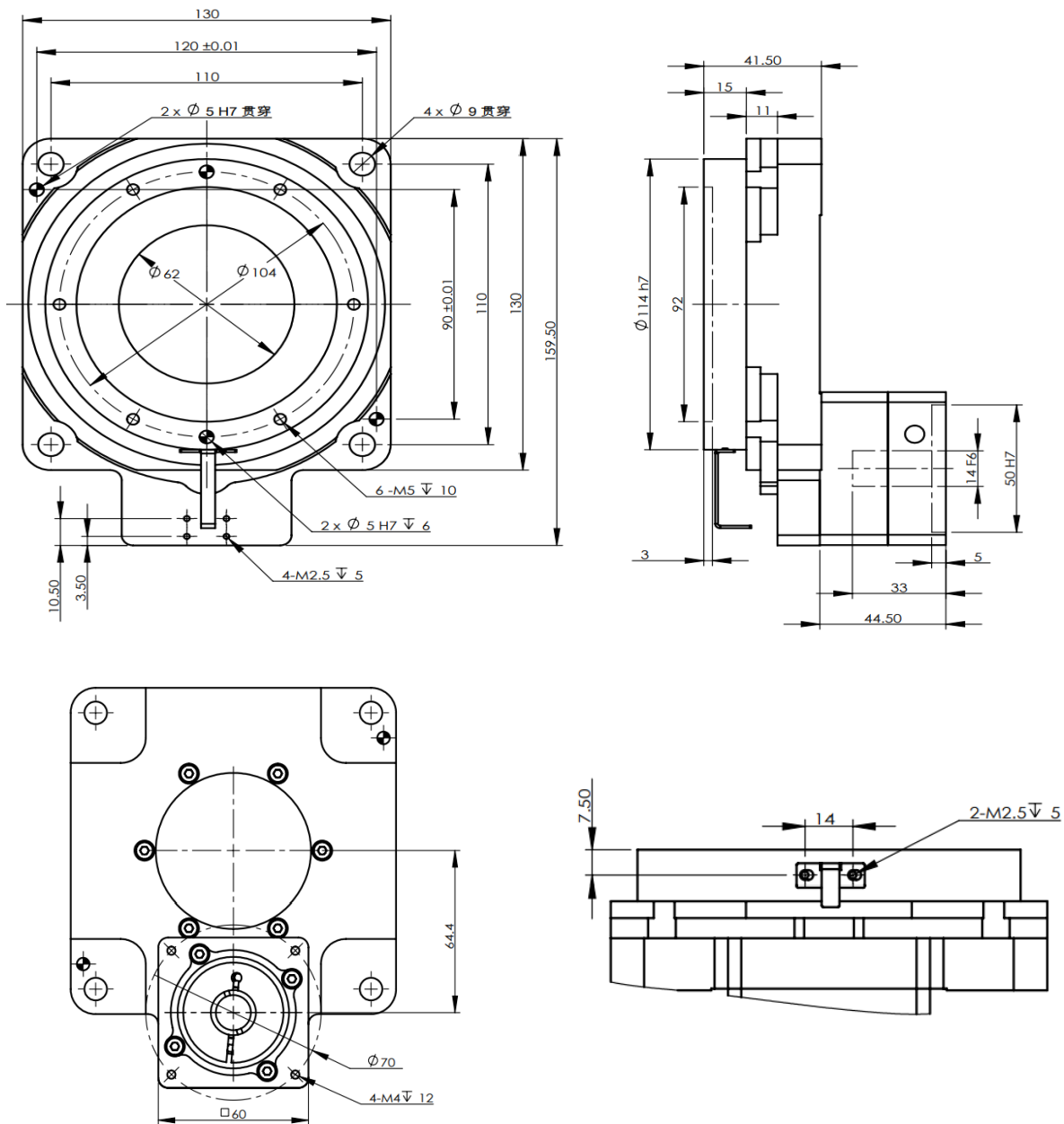
Parameter Item	Conservative Revised Value
Matched Servo Motor (Power & Flange)	400W (14-50-60-M4)
Bearing Type	Cross-roller Bearing RPA6028-1
Max. Tilting Moment	1090 Nm
Rated Radial Load	700 N
Rated Axial Load	700 N
Rated Continuous Torque	45 Nm
Peak Torque	120 Nm
Rated Input Speed	2000 RPM
Max. Instantaneous Input Speed	3000 RPM
Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
Repeat Positioning Accuracy	≤ 10 arcsec
Rated Service Life	20000 h
Protection Class	IP50
Platform Face Runout	≤ 0.02 mm
Platform Radial Runout	≤ 0.02 mm
Lubrication Type	Long-term Lubrication
Operating Temperature Range	-10°C ~ +60°C
Mounting Orientation	Any Orientation
Allowable Load Mass	≤ 50 kg

All performance parameters are conservatively marked. The max instantaneous speed of 3000 RPM is only applicable to short intermittent start-stop cycles. Continuous long-term operation shall be controlled within 2000 RPM. All data are for reference only, and official technical documents shall be issued after customer confirmation.

HOLLOW ROTARY PLATFORM

Outline Dimension Drawing

FS130-10



All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

标准款中空旋转平台

FS

海波齿旋转平台

FS A

直角重载旋转平台

FS B

HOLLOW ROTARY PLATFORM

Model

FS130-18



Technical Parameters

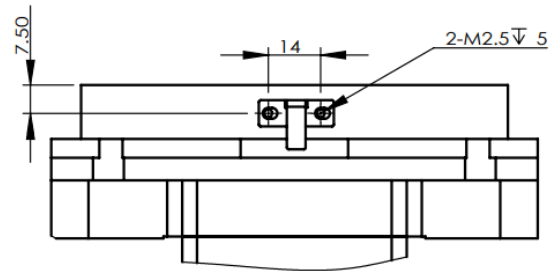
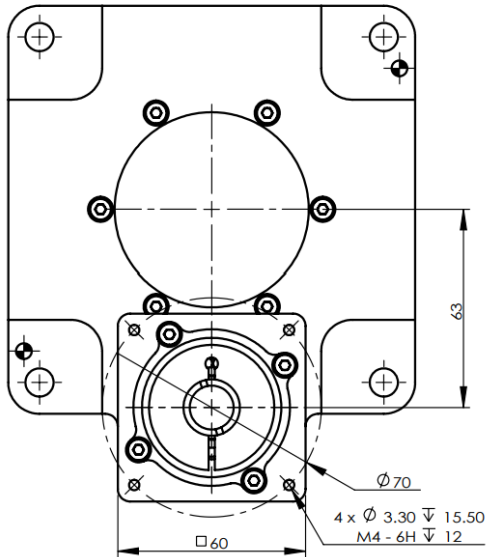
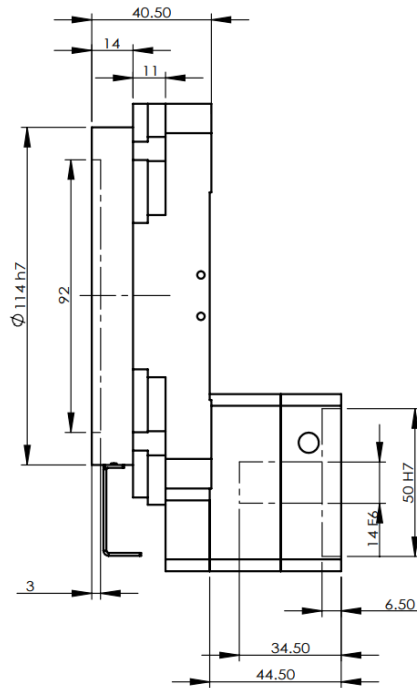
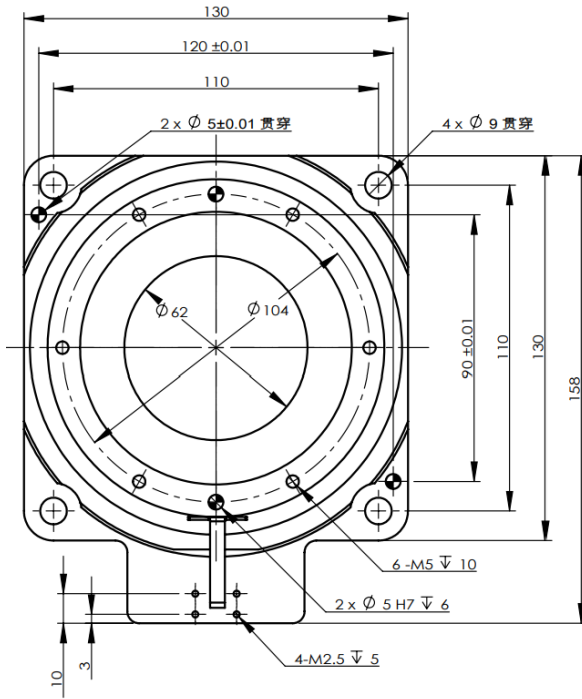
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Matched Servo Motor (Power & Flange)	400W (14-50-60-M4)
Bearing Type	Cross-roller Bearing RPA6028-1
Max. Tilting Moment	1090 Nm
Rated Radial Load	700 N
Rated Axial Load	700 N
Rated Continuous Torque	45 Nm
Peak Torque	120 Nm
Rated Input Speed	2000 RPM
Max. Instantaneous Input Speed	3000 RPM
Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
Repeat Positioning Accuracy	≤ 10 arcsec
Rated Service Life	20000 h
Protection Class	IP50
Platform Face Runout	≤ 0.02 mm
Platform Radial Runout	≤ 0.02 mm
Lubrication Type	Long-term Lubrication
Operating Temperature Range	-10°C ~ +60°C
Mounting Orientation	Any Orientation
Allowable Load Mass	≤ 50 kg

All performance parameters are conservatively marked. The max instantaneous speed of 3000 RPM is only applicable to short intermittent start-stop cycles. Continuous long-term operation shall be controlled within 2000 RPM. All data are for reference only, and official technical documents shall be issued after customer confirmation.

HOLLOW ROTARY PLATFORM

Outline Dimension Drawing

FS130-18



标准款中空旋转平台

FS

海波齿旋转平台

FS A

直角重载旋转平台

FS B

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HOLLOW ROTARY PLATFORM

Model

FS200-10



Technical Parameters

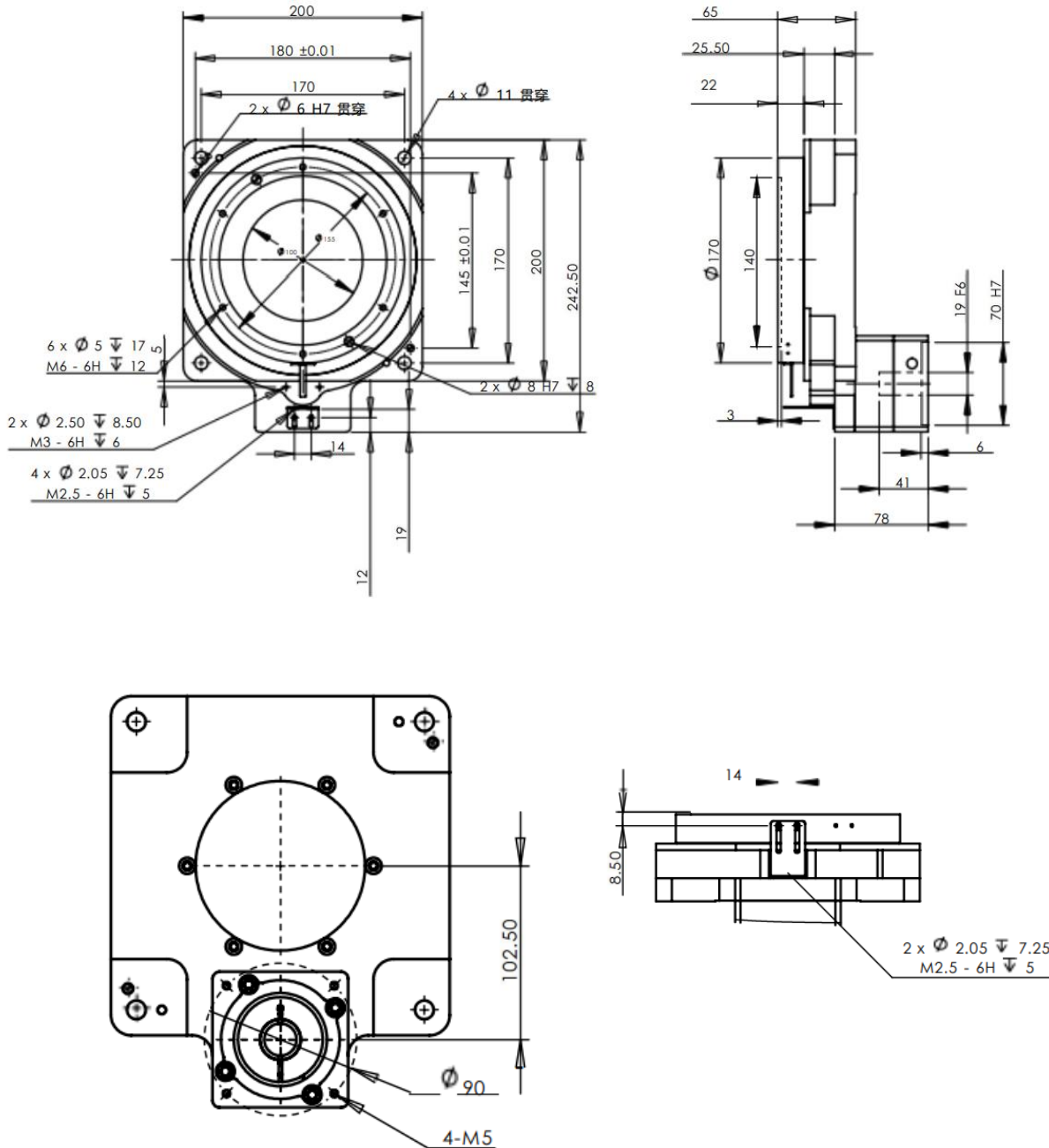
Parameter Item	Conservative Revised Value
Matched Servo Motor (Power & Flange)	750W (19-70-90-M5)
Bearing Type	Cross-roller Bearing RPA6028-1
Max. Tilting Moment	2500 Nm
Rated Radial Load	10500 N
Rated Axial Load	10500 N
Rated Continuous Torque	90.0 Nm
Peak Torque	180.0 Nm
Rated Input Speed	2000 RPM
Max. Allowable Input Speed	2000 RPM
Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
Repeat Positioning Accuracy	≤ 10 arcsec
Rated Service Life	20000 h
Protection Class	IP50
Platform Face Runout	≤ 0.02 mm
Platform Radial Runout	≤ 0.02 mm
Lubrication Type	Long-term Lubrication
Operating Temperature Range	-10°C ~ +60°C
Mounting Orientation	Any Orientation
Allowable Load Mass	≤ 100 kg

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HOLLOW ROTARY PLATFORM

Outline Dimension Drawing

FS200-10



标准款中空旋转平台

FS

海波齿旋转平台

FS A

直角重载旋转平台

FS B

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HOLLOW ROTARY PLATFORM

Model

FS200-18



Technical Parameters

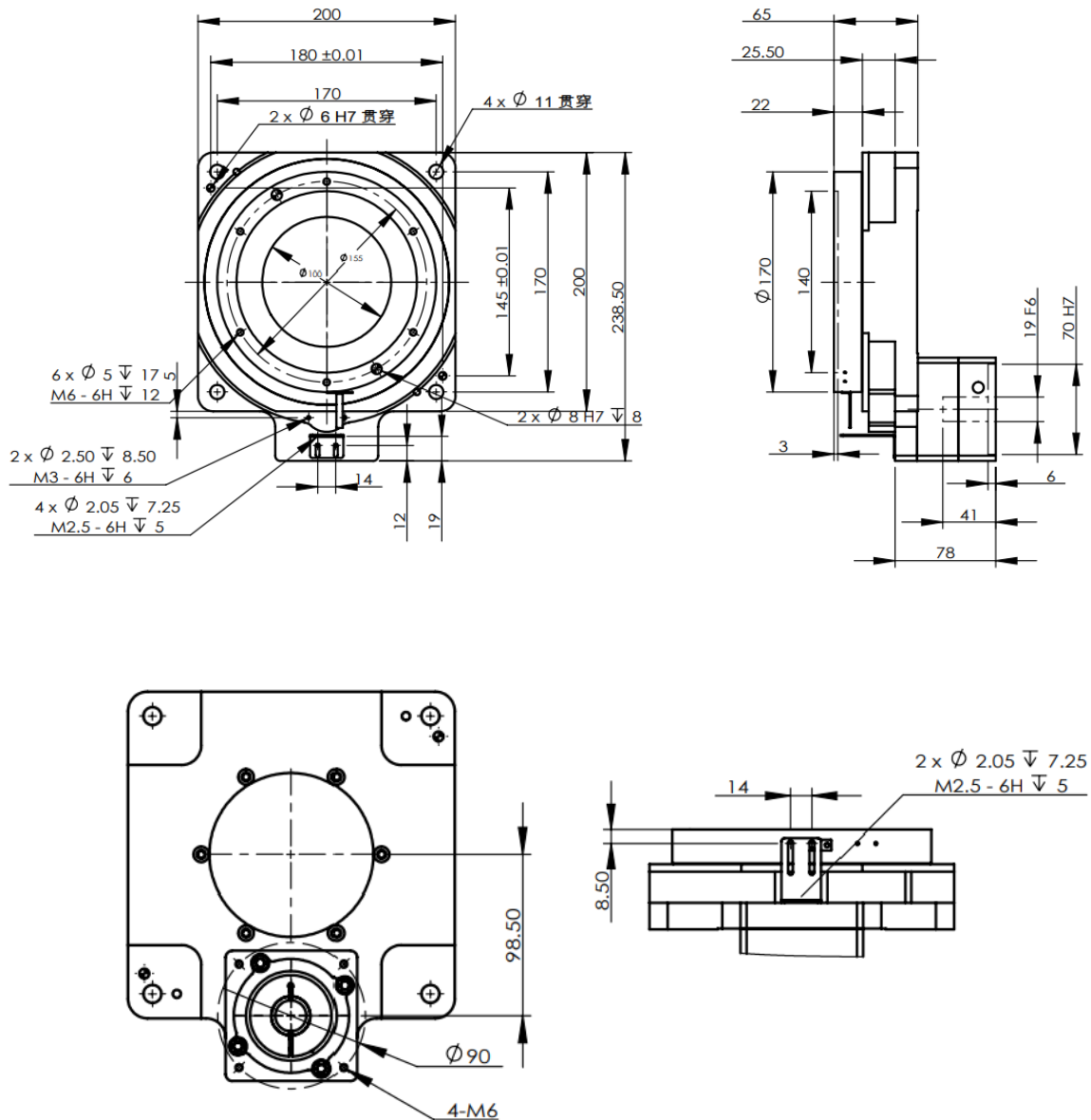
Parameter Item	Conservative Revised Value
Matched Servo Motor (Power & Flange)	750W (19-70-90-M6)
Bearing Type	Cross-roller Bearing RPA6028-1
Max. Tilting Moment	2500 Nm
Rated Radial Load	10500 N
Rated Axial Load	10500 N
Rated Continuous Torque	90.0 Nm
Peak Torque	180.0 Nm
Rated Input Speed	2000 RPM
Max. Allowable Input Speed	2000 RPM
Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
Repeat Positioning Accuracy	≤ 10 arcsec
Rated Service Life	20000 h
Protection Class	IP50
Platform Face Runout	≤ 0.02 mm
Platform Radial Runout	≤ 0.02 mm
Lubrication Type	Long-term Lubrication
Operating Temperature Range	-10°C ~ +60°C
Mounting Orientation	Any Orientation
Allowable Load Mass	≤ 100 kg

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HOLLOW ROTARY PLATFORM

Outline Dimension Drawing

FS200-18



标准款中空旋转平台

FS

海波齿旋转平台

FS A

直角重载旋转平台

FS B

All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

HOLLOW ROTARY PLATFORM

Model

FS280-10



Technical Parameters

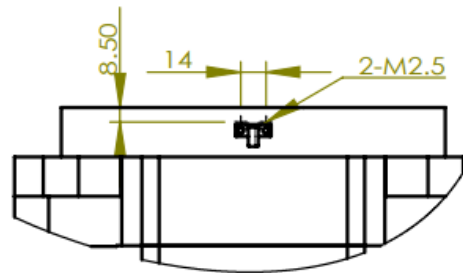
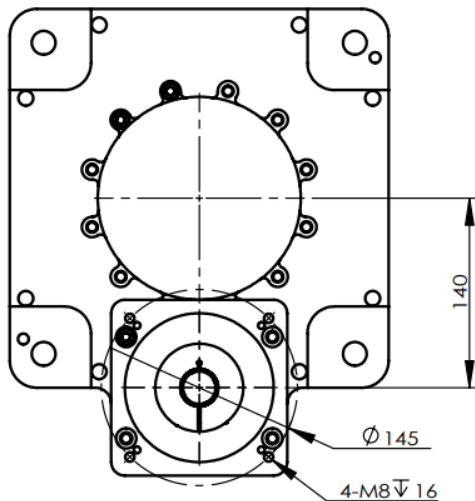
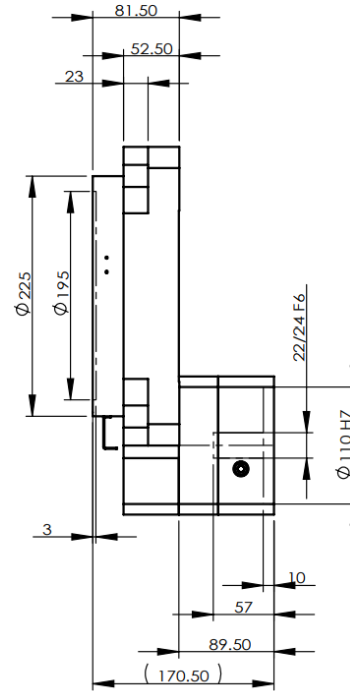
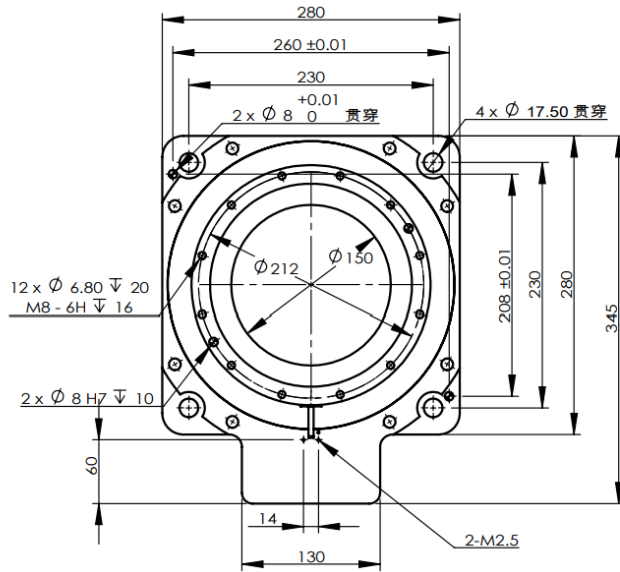
Parameter Item	Conservative Revised Value
Matched Servo Motor (Power & Flange)	1500W (24-110-145-M8)
Bearing Type	Cross-roller Bearing RPA6028-1
Max. Tilting Moment	3000 Nm
Rated Radial Load	37000 N
Rated Axial Load	2500 N
Rated Continuous Torque	110 Nm
Peak Torque	— Nm
Rated Input Speed	2000 RPM
Max. Instantaneous Input Speed	3000 RPM
Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
Repeat Positioning Accuracy	≤ 20 arcsec
Rated Service Life	20000 h
Protection Class	IP50
Platform Face Runout	≤ 0.02 mm
Platform Radial Runout	≤ 0.02 mm
Lubrication Type	Long-term Lubrication
Operating Temperature Range	-10°C ~ +60°C
Mounting Orientation	Any Orientation
Allowable Load Mass	≤ 150 kg

All performance parameters are conservatively marked. The max instantaneous speed of 3000 RPM is only applicable to short intermittent start-stop cycles. Continuous long-term operation shall be controlled within 2000 RPM. All data are for reference only, and official technical documents shall be issued after customer confirmation.

HOLLOW ROTARY PLATFORM

Outline Dimension Drawing

FS280-10



标准款中空旋转平台

FS

海波齿旋转平台

FS A

直角重载旋转平台

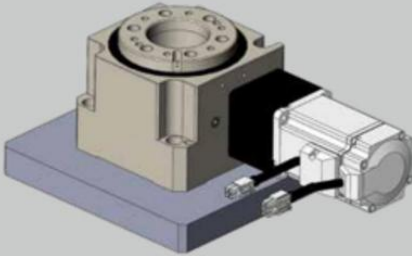
FS B

All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

HOLLOW ROTARY PLATFORM

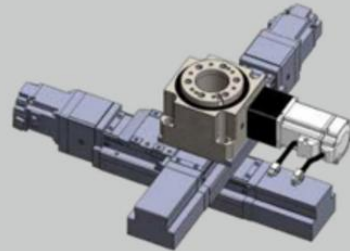
■ Mounting Methods

Horizontal Mounting

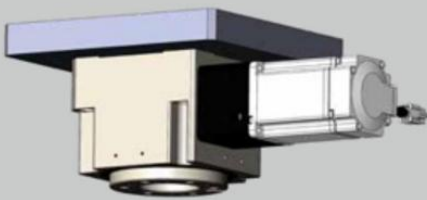


■ Mounting Examples

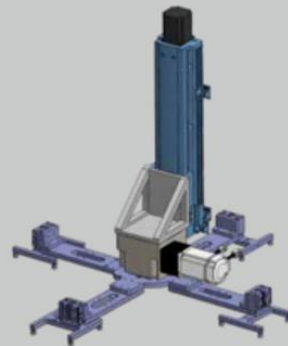
Horizontal Mounting with GXY Series



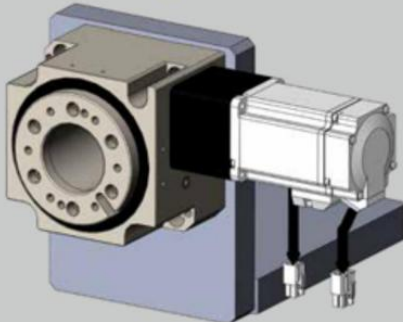
Overhead Mounting



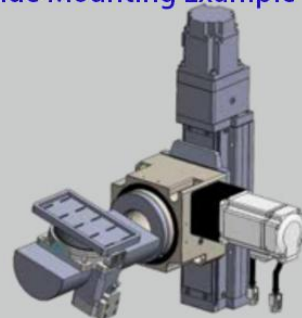
Overhead Mounting Example



Side Mounting



Side Mounting Example



Hypoid Gear Rotary Platform

✓ FSA60-30K ✓ FSA120-30K ✓ FSA165-30K

Evolution in Precision & Rigidity

- ◆ IP65 Protection Grade
- ◆ Ultra-low Noise
- ◆ Long Service Life
- ◆ High Precision
- ◆ High Rigidity & High Torque



HOLLOW ROTARY PLATFORM

标准款中空旋转平台
F
S

海波齿旋转平台
F
S
A

直角重载旋转平台
F
S
B

HOLLOW ROTARY PLATFORM

Order model

FSA60-30K-8-30-45-M3

Product Code	Size (Table Outer Diameter, mm)	Structure Type	Reduction Ratio	Motor Spec.
FSA	60		30	V1
	60	None: Standard Type		V1: Servo shaft Ø8, PCD45, M3
	120	Z: Right-Angle Type		V2: Servo shaft Ø8, PCD46, M4 Compatible with 50W–100W AC servo motors of all brands
	165	P: Planetary Type		T1: Stepper shaft Ø5, PCD43.8, M3 T2: Stepper shaft Ø5, PCD43.8, M3 Compatible with all-brand NEMA17 (42-type) stepper motors



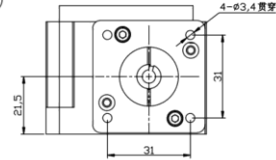
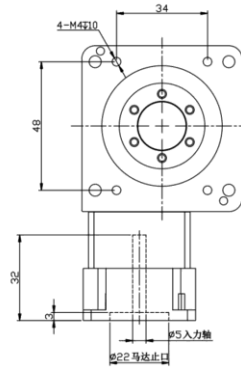
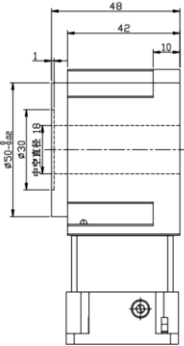
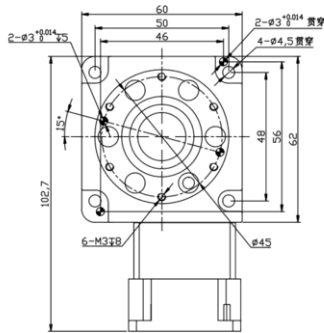
Technical Parameter

Model	Unit	FSA60	FSA120	FSA165
Allowable Torque	N·m	30		220
Allowable Moment of Inertia	N·m	5	150	400
Allowable Disc Speed	rpm	100	100	90
Reduction Ratio	i	30	30	30
Positioning Accuracy	arc-sec	≤30	≤30	≤30
Repeat Positioning Accuracy	arc-sec	≤10		≤10
Allowable Axial Load	N	300		6000
Backlash	mm	≤0.005		≤0.005
Service Life (Intermittent Operation)	hr	>30000		>30000
Matching Motor Power	W	100		750
IP Protection Grade	IP	65		65
Operating Ambient Temperature	-	-10℃~60℃		-10℃~60℃
Weight	kg	0.9		13

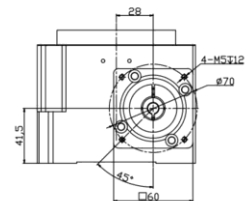
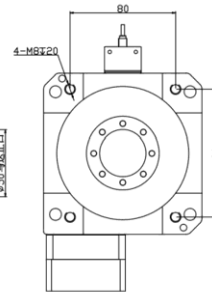
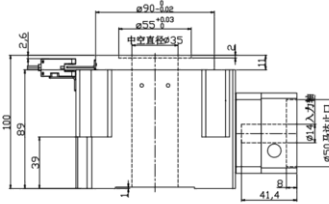
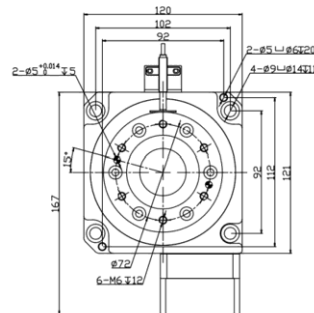
Parameters are for reference only. Actual selection depends on customer on-site operating conditions.

FS

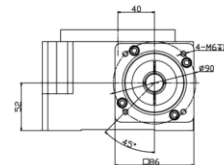
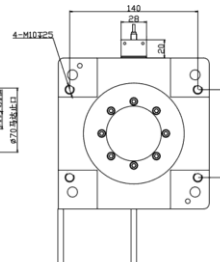
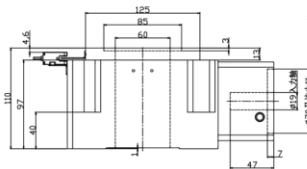
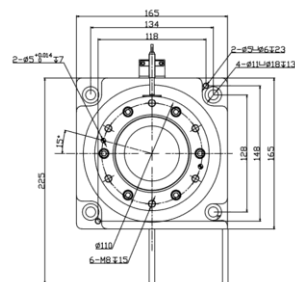
FSA60-30K



FSA120-30K



FSA165-30K



海波齿旋转平台

FSA

直角重载旋转平台

F
S
B

All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

HOLLOW ROTARY PLATFORM

HOLLOW ROTARY PLATFORM

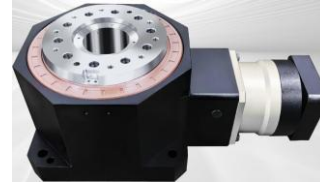
Heavy-Duty Right-Angle Rotary Platform

✓ FSB130

✓ FSB225

✓ FSB180

✓ FSB260



01 High-Rigidity Main Body Structure

Cross roller bearings equipped as standard for the full series, delivering excellent axial & radial load capacity. Precision ground gears achieve zero-backlash transmission, completely eliminating positioning deviation to guarantee accurate rotation every time.

02 Micron-level Precision Control

Positioning Accuracy ≤ 1 arcmin, Repeat Positioning Accuracy ≤ 15 arcsec. Gear transmission efficiency steadily above 95%, ultra-low power loss, stable and vibration-free operation, meeting stringent requirements for precision machining.

03 Industrial-Grade Environmental

ProtectionThe whole unit reaches IP55 protection grade, effective against dust and low-pressure water spray. Adaptable to harsh industrial environments with dust and oil contamination. Precision service life up to 30,000 hours; long-term lubrication technology keeps later maintenance cost nearly zero.

04 Full Compatibility for Drive Connection

Seamless interface for servo and stepper motors without extra adapter modules. Servo power range covers 200W ~ 5000W, compatible with 57/110/130/150 series stepper motors. Modular design enables fast integration with various PLC and motion control systems to shorten commissioning cycle.

HOLLOW ROTARY PLATFORM

Heavy-Duty Right-Angle Rotary Platform - Series Feature Summary

FSB130 Series · Medium & Small Load

Designed for 3C precision inspection and small indexing equipment. Lightweight body with fast dynamic response, ideal for precision micro-assembly applications.

FSB180 Series · Medium Load Adaptation

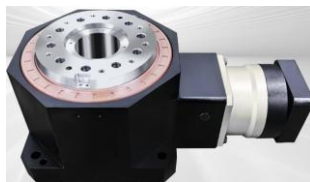
Perfectly matched for laser welding and automated assembly processes. Achieve optimal balance between positioning accuracy and dynamic response to improve production line cycle efficiency.

FSB225 Series · Heavy Load Bearing

Focused on robot joint rotation and new energy battery production lines. High-rigidity structure effectively resists overturning torque and ensures stability under high-speed motion.

FSB260 Series · Extreme Heavy-Duty Working Conditions

Suitable for heavy-duty CNC rotary tables and large tooling fixtures. Designed with ultra-high output torque to meet continuous high-intensity operation demands in heavy industry.



HOLLOW ROTARY PLATFORM

标准款中空旋转平台
F
S

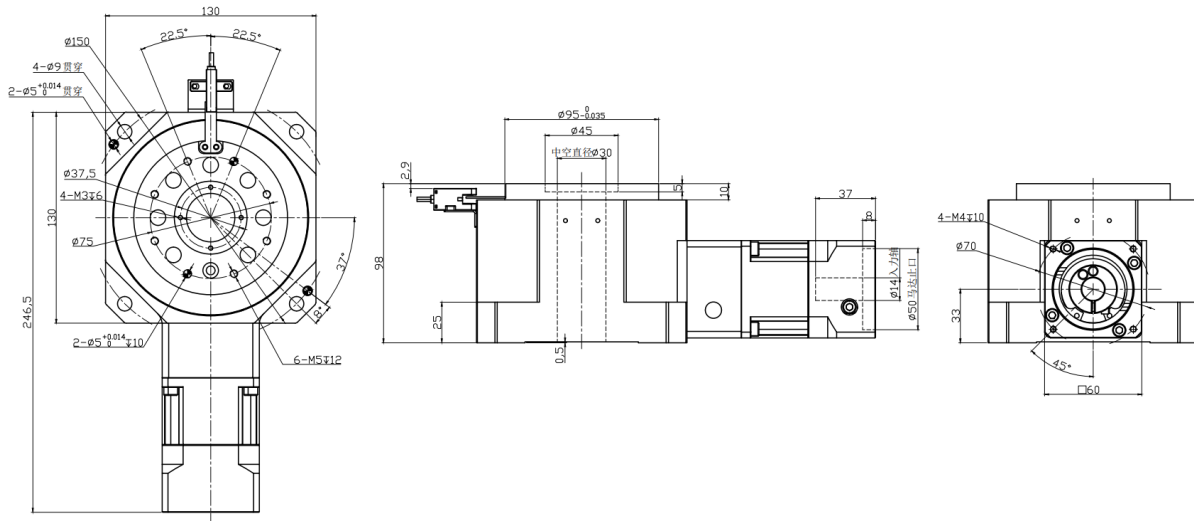
海波齿旋转平台
F
S
A

直角重载旋转平台
F
S
B

HOLLOW ROTARY PLATFORM

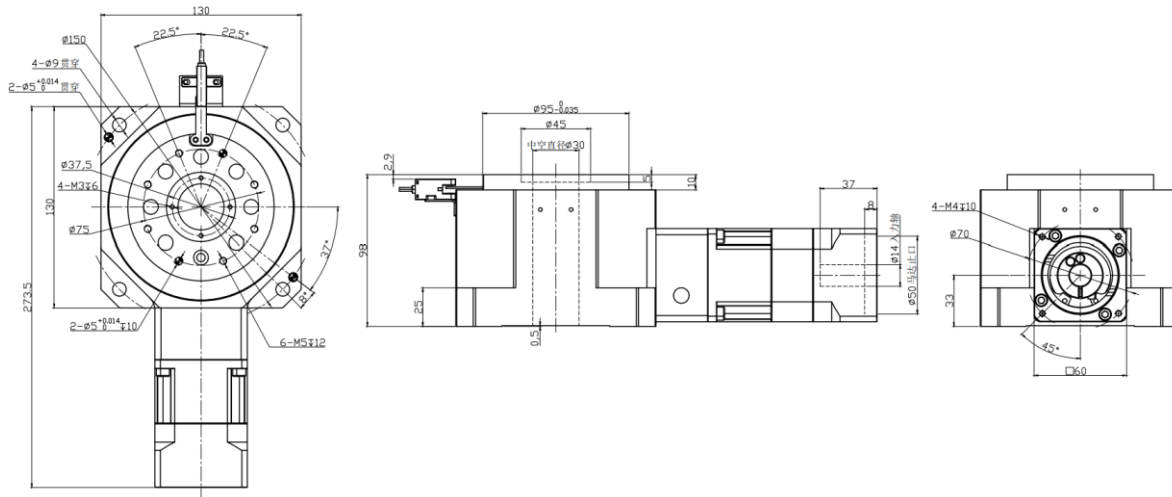
FSB130-L1

Servo Motor Interface



FSB130-L2

Stepper Motor Interface



All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

HOLLOW ROTARY PLATFORM

Order model

FSB130P-30K-14-50-70-M4

Product Code	Size (Table Outer Diameter, mm)	Structure Type	Reduction Ratio	Motor Spec.
FSB	130		L1	V1
	130	None: Standard Type	L1:15/21/30	V1: Servo shaft ø14 PCD70, M4
	180	P: Planetary Type	L2:60/75/	V2: Servo shaft ø14 PCD70, M5
	225		105/120/	Compatible with 200W–400W AC servo motors of all brands
	260		150/210/	
			300	Stepper Motor Interface: For 57–60 type stepper motors



Technical Parameter

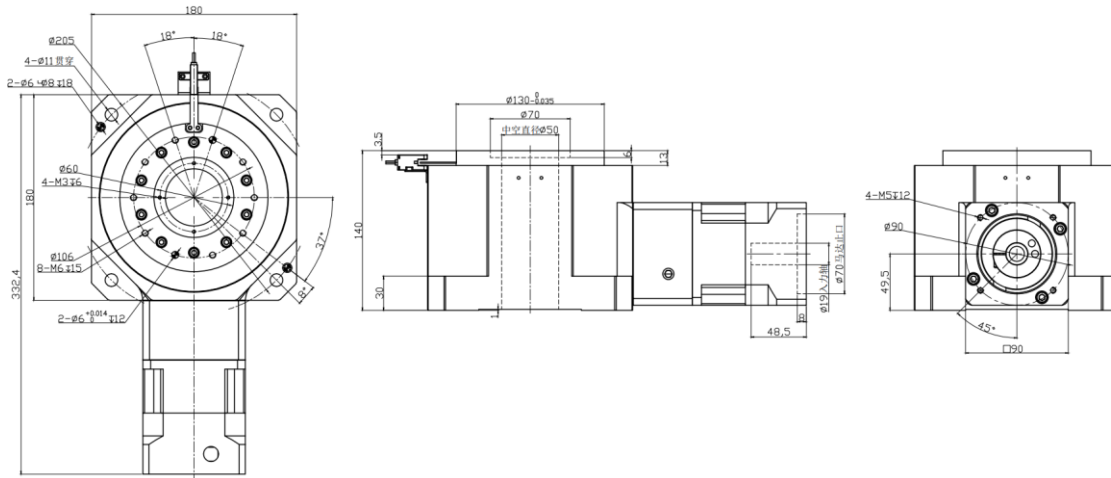
Model	Unit	FSB130-L1	FSB130-L2
Bearing structure		Cross roller bearing	
Reduction ratio	i	15、21、30	60、75、105、120、150、210、300
Rated output torque	N.m	150、130、105	150、150、150、150、150、130、105
Positioning accuracy	arc-min	≤1	≤4
Repeated positioning accuracy	arc-sec	≤15	≤60
Allowable disk speed	rpm	200 Intermitent operation	
Adapt to servo motor	W	200-400	
Suitable for stepping motor		Stepper	
Allowable axial load	N	7300	
Allowable moment of inertia	N.m	50	
Torsional rigidity	N.m/arcmin	20	
Backlash		No backlash (Adjustable structure)	
Accuracy life	h	30000h Intermittent operation	
Protection level	IP	55	
Lubrication method		Long-term lubrication	
Installation method		Arbitrary	
Concentricity of rotating platform	mm	≤0.01	
Parallelism of rotating platform	mm	≤0.01	
Transmission efficiency	%	95	
Weight	kg	7	7.6

Parameters are for reference only. Actual selection depends on customer on-site operating conditions.

HOLLOW ROTARY PLATFORM

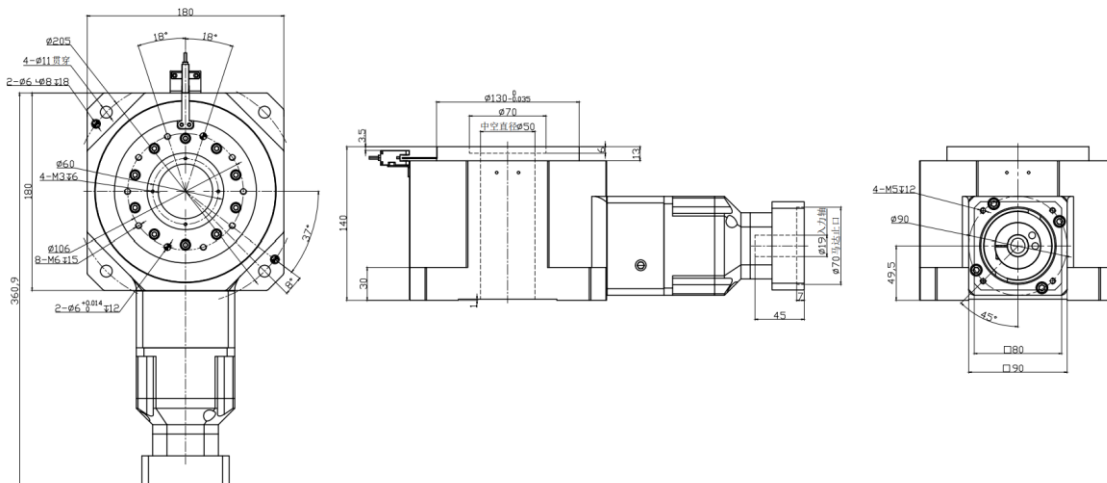
FSB180-L1

Servo Motor Interface



FSB180-L2

Stepper Motor Interface



All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

HOLLOW ROTARY PLATFORM

Order model

FSB180P-30K-19-70-90-M5

Product Code	Size (Table Outer Diameter, mm)	Structure Type	Reduction Ratio	Motor Spec.
FSB	180		L1	V1
	130	None: Standard Type	L1:15/21/30	V1: Servo shaft ø19 PCD90, M5
	180	P: Planetary Type	L2:60/75/	V2: Servo shaft ø19 PCD90, M6
	225		105/120/	Compatible with 750W AC servo motors of all brands
	260		150/210/	Stepper Motor Interface: For 86 type stepper motors
			300	



Technical Parameter

Model	Unit	FSB180-L1	FSB180-L2
Bearing structure		Cross roller bearing	
Reduction ratio	i	15、21、30	60、75、105、120、150、210、300
Rated output torque	N.m	430、400、360	430、430、430、430、430、430、400
Positioning accuracy	arc-min	≤1	≤4
Repeated positioning accuracy	arc-sec	≤15	≤60
Allowable disk speed	rpm	200 Intermittent operation	
Adapt to servo motor	W	750-1000	
Suitable for stepping motor		Stepper	
Allowable axial load	N	13500	
Allowable moment of inertia	N.m	120	
Torsional rigidity	N.m/arcmin	50	
Backlash		No backlash (Adjustable structure)	
Accuracy life	h	30000h Intermittent operation	
Protection level	IP	55	
Lubrication method		Long-term lubrication	
Installation method		Arbitrary	
Concentricity of rotating platform	mm	≤0.01	
Parallelism of rotating platform	mm	≤0.01	
Transmission efficiency	%	95	
Weight	kg	18	20

Parameters are for reference only. Actual selection depends on customer on-site operating conditions.

HOLLOW ROTARY PLATFORM

标准款中空旋转平台

FS

海波齿旋转平台

FS A

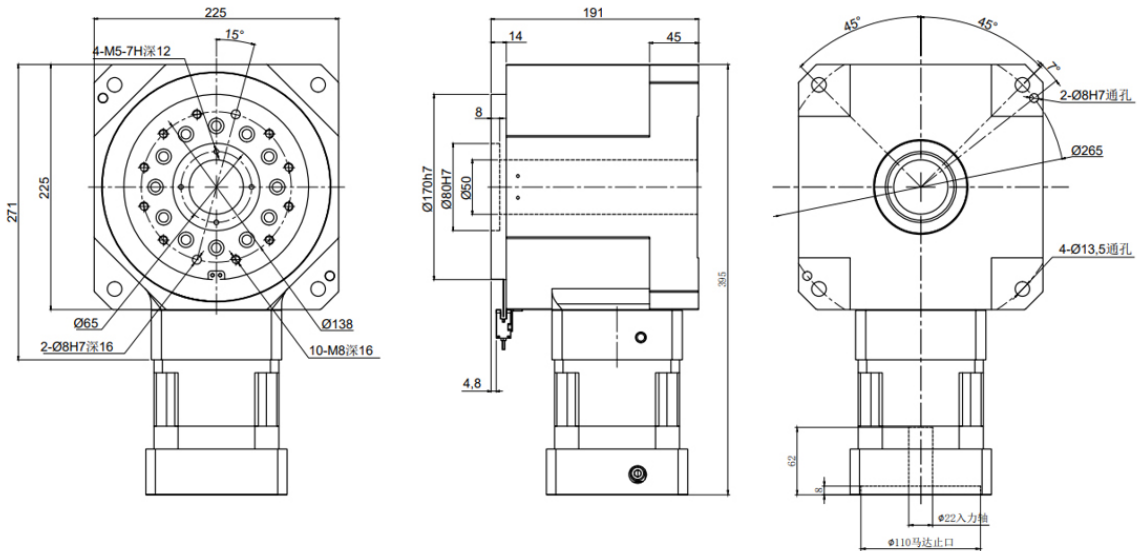
直角重载旋转平台

FS B

HOLLOW ROTARY PLATFORM

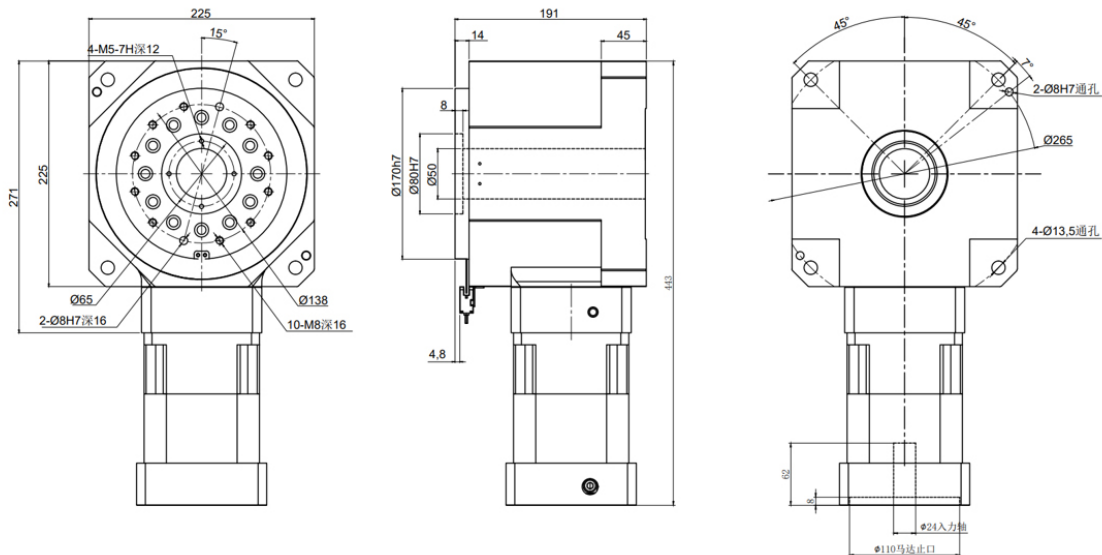
FSB225-L1

Servo Motor Interface



FSB225-L2

Stepper Motor Interface



All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

HOLLOW ROTARY PLATFORM

Order model

FSB225P-30K-22-110-145-M8



Product Code	Size (Table Outer Diameter, mm)	Structure Type	Reduction Ratio	Motor Spec.
FSB	225		L1	V1
	130	None: Standard Type	L1:15/21/30	V1: Servo shaft ø22 PCD145, M8
	180	P: Planetary Type	L2:60/75/	V2: Servo shaft ø24 PCD145, M8
	225		105/120/	Compatible with 1000W AC servo motors of all brands
	260		150/210/	
			300	

Technical Parameter

Model	Unit	FSB225-L1	FSB225-L2
Bearing structure		Cross roller bearing	
Reduction ratio	i	15、21、30	60、75、105、120、150、210、300
Rated output torque	N.m	1400、1200、1200	1400、1400、1400、1400、1400、1200、1200
Positioning accuracy	arc-min	≤1	≤4
Repeated positioning accuracy	arc-sec	≤15	≤60
Allowable disk speed	rpm	200 Intermittent operation	
Adapt to servo motor	W	1000-3000	
Suitable for stepping motor		110-130 Stepper	
Allowable axial load	N	20000	
Allowable moment of inertia	N.m	230	
Torsional rigidity	N.m/arcmin	80	
Backlash		No backlash (Adjustable structure)	
Accuracy life	h	30000h Intermittent operation	
Protection level	IP	55	
Lubrication method		Long-term lubrication	
Installation method		Arbitrary	
Concentricity of rotating platform	mm	≤0.01	
Parallelism of rotating platform	mm	≤0.01	
Transmission efficiency	%	95	
Weight	kg	35	38

Parameters are for reference only. Actual selection depends on customer on-site operating conditions.

HOLLOW ROTARY PLATFORM

标准款中空旋转平台

FS

海波齿旋转平台

FS A

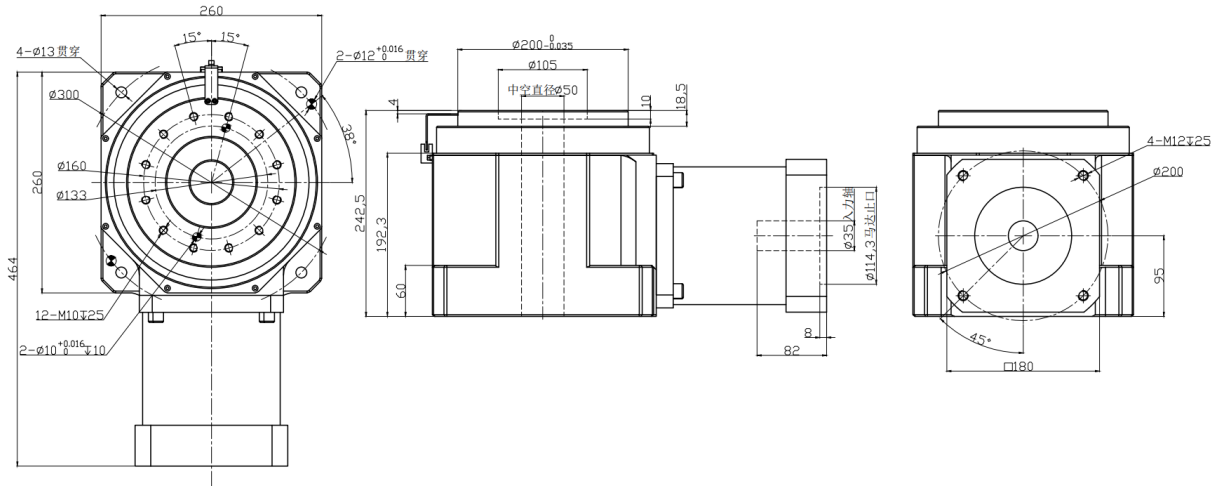
直角重载旋转平台

FS B

HOLLOW ROTARY PLATFORM

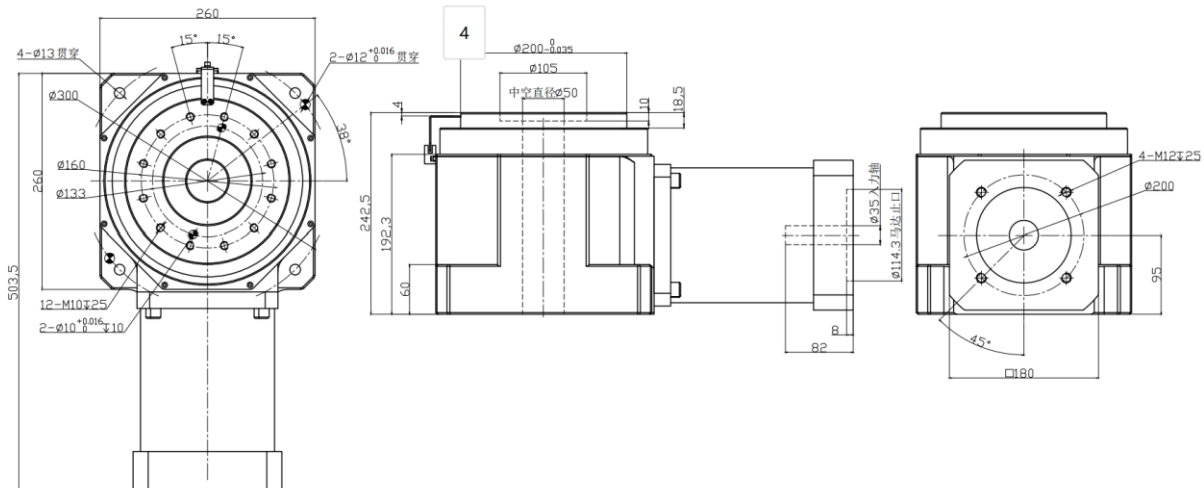
FSB260-L1

Servo Motor Interface



FSB260-L2

Stepper Motor Interface



All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

HOLLOW ROTARY PLATFORM

Order model

FSB260P-30K-35-114.3-200-M12

Product Code	Size (Table Outer Diameter, mm)	Structure Type	Reduction Ratio	Motor Spec.
FSB	260		L1	V1
	130	None: Standard Type	L1:15/21/30	V1: Servo shaft ø35 PCD200, M12
	180	P: Planetary Type	L2:60/75/	V2: Servo shaft ø35 PCD200, M12
	225		105/120/	Compatible with 3000W-5000W AC servo motors of all brands
	260		150/210/	
			300	



Technical Parameter

Model	Unit	FSB260-L1	FSB260-L2
Bearing structure		Cross roller bearing	
Reduction ratio	i	15、21、30	60、75、105、120、150、210、300
Rated output torque	N.m	3500、3300、3300	3500、3500、3500、3500、3500、3300、3300
Positioning accuracy	arc-min	≤1	≤4
Repeated positioning accuracy	arc-sec	≤15	≤60
Allowable disk speed	rpm	200 Intermittent operation	
Adapt to servo motor	W	3000-5000	
Suitable for stepping motor		130-150 Stepper	
Allowable axial load	N	30000	
Allowable moment of inertia	N.m	800	
Torsional rigidity	N.m/arcmin	180	
Backlash		No backlash (Adjustable structure)	
Accuracy life	h	30000h Intermittent operation	
Protection level	IP	55	
Lubrication method		Long-term lubrication	
Installation method		Arbitrary	
Concentricity of rotating platform	mm	≤0.01	
Parallelism of rotating platform	mm	≤0.01	
Transmission efficiency	%	95	
Weight	kg	58	60

Parameters are for reference only. Actual selection depends on customer on-site operating conditions.

HOLLOW ROTARY PLATFORM

标准款中空旋转平台

FS

海波齿旋转平台

FS A

直角重载旋转平台

FS B

HOLLOW ROTARY PLATFORM

Application Scenarios



Application Scenario 1

3C Industry
Application Processes:
① Precision Electronic Dispensing
② Precision Electronic Assembly
③ Precision Electronic Assembly Inspection



Application Scenario 4

Precision Assembly Industry
Application Processes:
① Bearing Housing Assembly
② Sealing Dispensing on Bearing Inner Ring
③ Bearing Flange Screw Tightening



Application Scenario 2

Wire Harness Manufacturing Industry
Application Processes:
① Wire Harness & Housing Assembly
② Housing Position Inspection
③ Full-line Sleeving & Heat Shrinkage



Application Scenario 5

3C Industry
① PCB Assembly
② PCB Component Soldering
③ Screw Tightening
④ PCB Functional Test



Application Scenario 3

Home Appliance Manufacturing Industry
Application Processes:
① Vacuum Cleaner Motor Assembly
② Motor Inner Ring Dispensing
③ Motor Housing Screw



Application Scenario 6

New Energy Industry
Application Processes:
① Battery Pack Assembly
② Dispensing on Lower Battery Pack Housing
③ Screw Tightening for Upper & Lower Battery Pack Housing
④ Battery Pack Sealing Test

HOLLOW ROTARY PLATFORM

Precautions for Hollow Rotary Platform

Please read the instructions carefully. Improper operation may cause equipment damage and personal injury. Failures caused by non-compliant operation are not covered by the warranty.

- Do not strike the equipment with an iron hammer or drop it. Handle with care during transportation, protect edges and keyways. Do not lift the table panel with one hand.
- When the equipment is running, keep hands, cables and foreign objects away from the rotating shaft and table panel. Avoid heavy impact on the unit during assembly of keys and pulleys.
- Mount the load with centered center of gravity; eccentric use is prohibited. Motor coaxiality shall be controlled within 0.03mm. Tighten bolts diagonally to specified torque.
- Do not exceed rated torque and rated speed, to prevent bolt loosening, vibration and gear damage.
- Unauthorized disassembly is forbidden. Disassembly will void factory precision and warranty eligibility.
- In case of abnormal noise, overheating, jamming or other faults, cut off power and stop operation immediately. Do not operate under faulty conditions. The unit is pre-filled with special grease at factory. Top up with the same type of grease after 2000 continuous operating hours. Dry running without lubrication is strictly prohibited.
- Applicable ambient temperature: -10°C ~ 60°C. Protective devices must be installed under harsh conditions with dust, water mist or cutting fluid. Do not immerse or splash water on the equipment.
- If idle for more than one month, run empty for 5 minutes every half month. For long-term storage, apply anti-rust oil, lay flat in dry environment, and avoid heavy stacking.
- Damage caused by artificial impact, overload, unauthorized disassembly, or operation in harsh environments without protection is excluded from warranty coverage.