

Focus on High-Precision Hollow Rotary Platform

Standard Model

Hypoid Gear Model

Heavy-Duty Right-Angle Model

fs-motion.com

sales@fs-motion.com

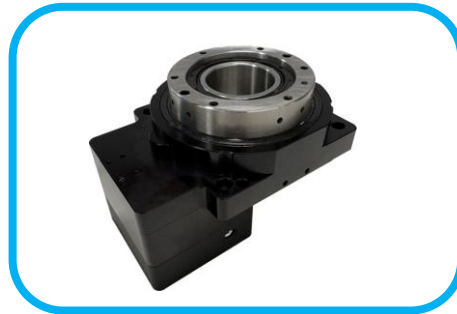


Hollow Rotary Platform Series

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

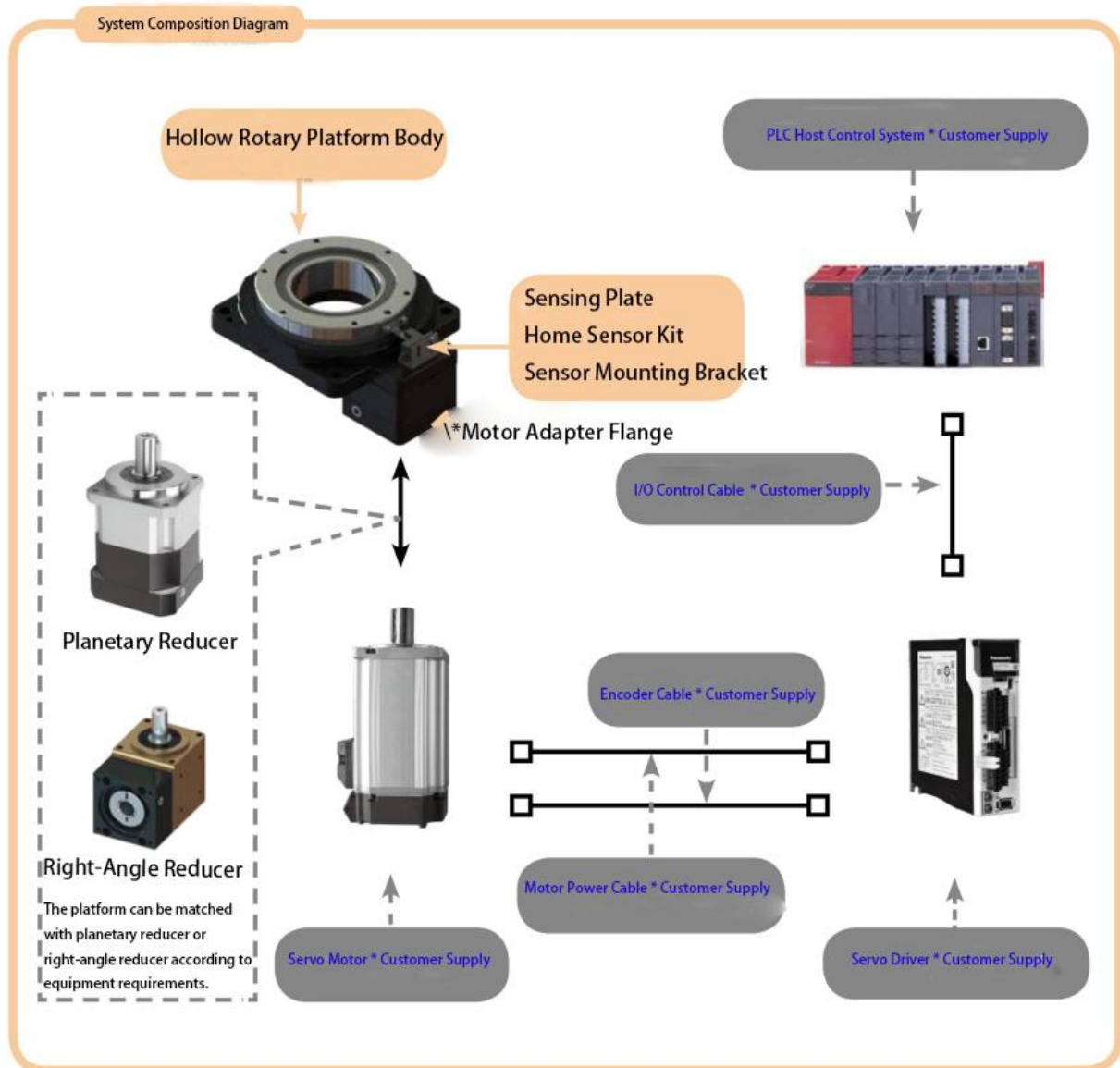
Intelligent • Efficient • Reliable

中空旋转平台

HOLLOW ROTARY PLATFORM

STANDARD CONFIGURATION

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

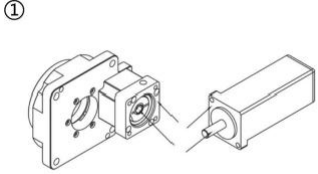
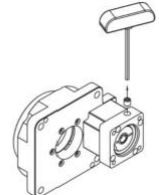
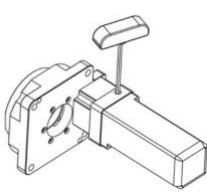
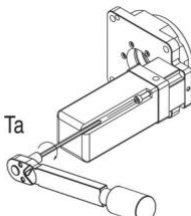
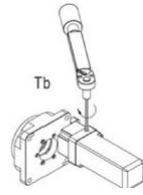


Optional Accessories: The above optional accessories are for reference only. Customers may select and purchase them according to equipment requirements.

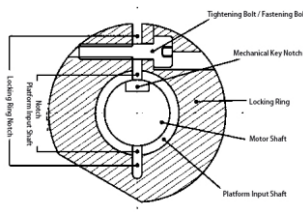
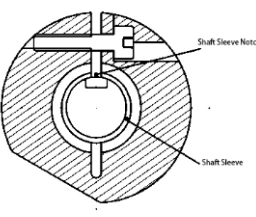
中空旋转平台

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.
---	--

Note 2: Tightening Torque for Wrench Bolts

扳手螺栓尺寸 Wrench Bolt Size	马达安装 Ta (8.8 级) Motor Mounting Ta (Grade 8.8)		锁紧环安装 Tb (12.9 级) 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

中空旋转平台

HOLLOW ROTARY PLATFORM

订货型号
Order Model



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
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

中空旋转平台

HOLLOW ROTARY PLATFORM

型号Model

FS60-5



技术参数

Technical Parameters

中文参数	Standard English 标准工业英文	保守修正参数值
适配伺服电机 (功率 / 法兰)	Matched Servo Motor (Power & Flange)	100W (8-30-42-M3)
承载轴承类型	Bearing Type	交叉滚子轴承 RPA6028-1
最大倾覆力矩	Max. Tilting Moment	137 Nm
额定径向载荷	Rated Radial Load	1500 N
额定轴向载荷	Rated Axial Load	1500 N
额定连续扭矩	Rated Continuous Torque	10 Nm
瞬时峰值扭矩	Peak Torque	20 Nm
额定输入转速	Rated Input Speed	1500 RPM
最高允许输入转速	Max. Allowable Input Speed	2000 RPM
分度精度	Indexing Accuracy	$\leq 1 \text{ arcmin} (\pm 0.5 \text{ arcmin})$
重复定位精度	Repeat Positioning Accuracy	$\leq 10 \text{ arcsec}$
额定使用寿命	Rated Service Life	20000 h
防护等级	Protection Class	IP50
平台端面跳动	Platform Face Runout	$\leq 0.02 \text{ mm}$
平台径向跳动	Platform Radial Runout	$\leq 0.02 \text{ mm}$
润滑方式	Lubrication Type	长效润滑 Long-term Lubrication
工作温度范围	Operating Temperature Range	-10°C ~ +60°C
安装方式	Mounting Orientation	任意安装 Any Orientation
许用承载质量	Allowable Load Mass	$\leq 10 \text{ kg}$

以上性能参数为保守标称值，实际产品性能优于表格标注；所有参数仅供参考，正式技术文件以客户确认后出具版本为准。

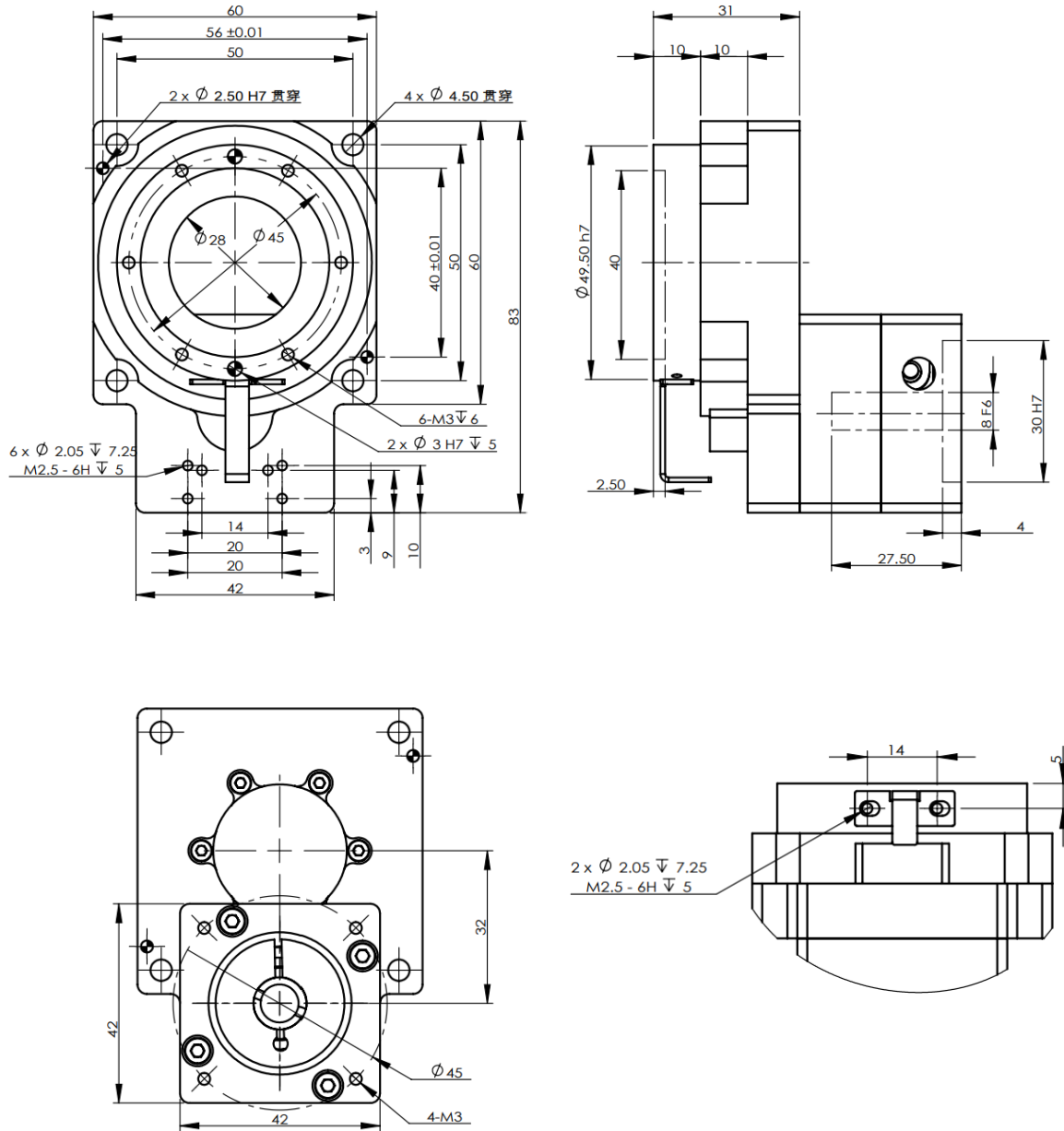
All performance parameters are conservatively marked, and the actual performance of the product is better than the table data. All data are for reference only, and official technical documents shall be issued after customer confirmation.

中空旋转平台

HOLLOW ROTARY PLATFORM

外形尺寸图
Outline Dimension Drawing

FS60-5



以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。
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

中空旋转平台

HOLLOW ROTARY PLATFORM

型号Model

FS60-10



技术参数

Technical Parameters

中文参数	Standard English 标准工业英文	保守修正参数值
适配伺服电机 (功率 / 法兰)	Matched Servo Motor (Power & Flange)	100W (8-30-42-M3)
承载轴承类型	Bearing Type	交叉滚子轴承 RPA6028-1
最大倾覆力矩	Max. Tilting Moment	137 Nm
额定径向载荷	Rated Radial Load	1500 N
额定轴向载荷	Rated Axial Load	1500 N
额定连续扭矩	Rated Continuous Torque	10 Nm
瞬时峰值扭矩	Peak Torque	20 Nm
额定输入转速	Rated Input Speed	2000 RPM
最高瞬时输入转速	Max. Instantaneous Input Speed	3000 RPM
分度精度	Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
重复定位精度	Repeat Positioning Accuracy	≤ 10 arcsec
额定使用寿命	Rated Service Life	20000 h
防护等级	Protection Class	IP50
平台端面跳动	Platform Face Runout	≤ 0.02 mm
平台径向跳动	Platform Radial Runout	≤ 0.02 mm
润滑方式	Lubrication Type	长效润滑 Long-term Lubrication
工作温度范围	Operating Temperature Range	-10°C ~ +60°C
安装方式	Mounting Orientation	任意安装 Any Orientation
许用承载质量	Allowable Load Mass	≤ 10 kg

以上性能参数为保守标称值；最高瞬时 3000RPM 仅适用于短时间间歇启停工况，长期连续工作请控制在 2000RPM 以内；所有参数仅供参考，正式技术文件以客户确认后出具版本为准。

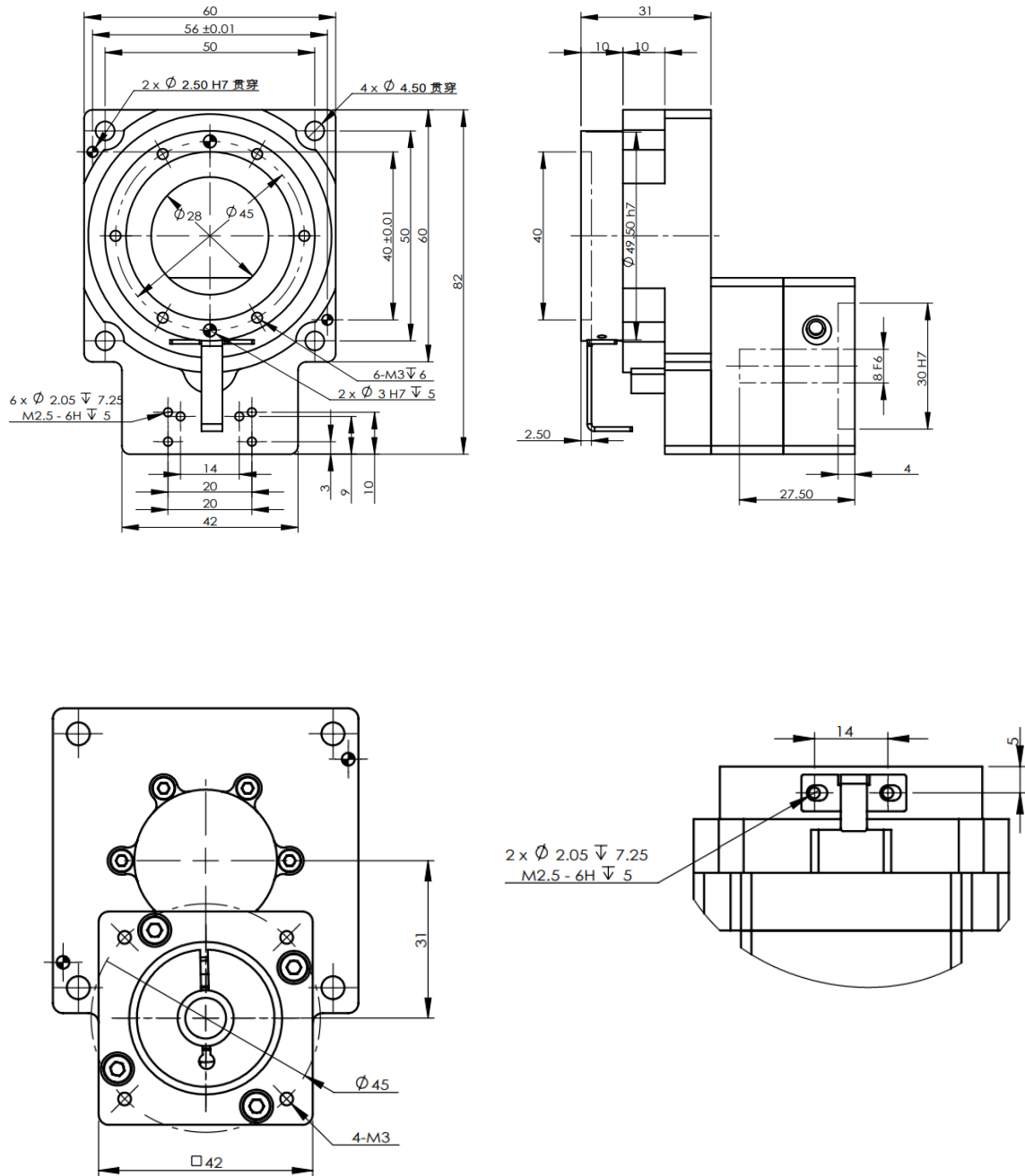
All performance parameters are conservatively marked. The max instantaneous speed of 3000 RPM is only applicable to short intermittent start-stop cycles. Continuous long-term operation shall be controlled within 2000 RPM. All data are for reference only, official technical documents will be issued after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

中空旋转平台

HOLLOW ROTARY PLATFORM

外形尺寸图
Outline Dimension Drawing

FS60-10



以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。
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

中空旋转平台

HOLLOW ROTARY PLATFORM

型号Model

FS85-5



技术参数

Technical Parameters

中文参数	Standard English 标准工业英文	保守修正参数值
适配伺服电机 (功率 / 法兰)	Matched Servo Motor (Power & Flange)	400W (14-50-60-M4)
承载轴承类型	Bearing Type	交叉滚子轴承 RPA6028-1
最大倾覆力矩	Max. Tilting Moment	369 Nm
额定径向载荷	Rated Radial Load	3800 N
额定轴向载荷	Rated Axial Load	3800 N
额定连续扭矩	Rated Continuous Torque	20 Nm
瞬时峰值扭矩	Peak Torque	40 Nm
额定输入转速	Rated Input Speed	2000 RPM
最高允许输入转速	Max. Allowable Input Speed	2000 RPM
分度精度	Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
重复定位精度	Repeat Positioning Accuracy	≤ 10 arcsec
额定使用寿命	Rated Service Life	20000 h
防护等级	Protection Class	IP50
平台端面跳动	Platform Face Runout	≤ 0.02 mm
平台径向跳动	Platform Radial Runout	≤ 0.02 mm
润滑方式	Lubrication Type	长效润滑 Long-term Lubrication
工作温度范围	Operating Temperature Range	-10°C ~ +60°C
安装方式	Mounting Orientation	任意安装 Any Orientation
许用承载质量	Allowable Load Mass	≤ 30 kg

以上性能参数为保守标称值，实际产品性能优于表格标注；所有参数仅供参考，正式技术文件以客户确认后出具版本为准。

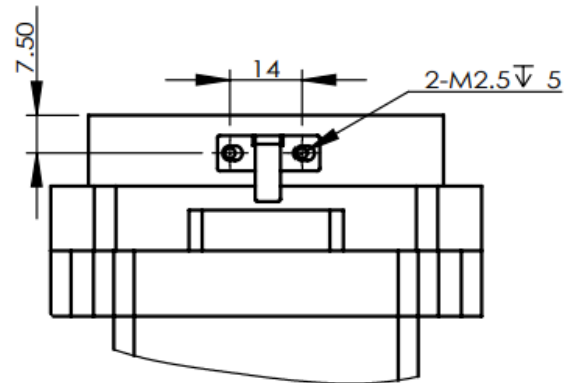
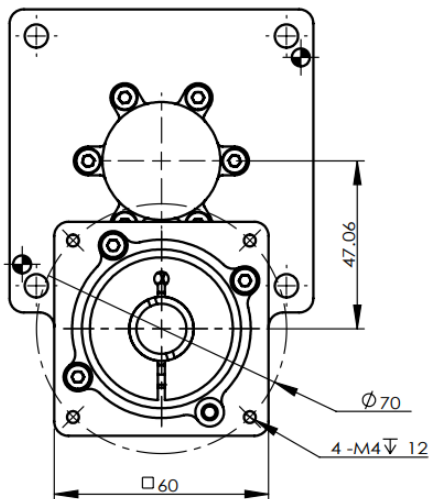
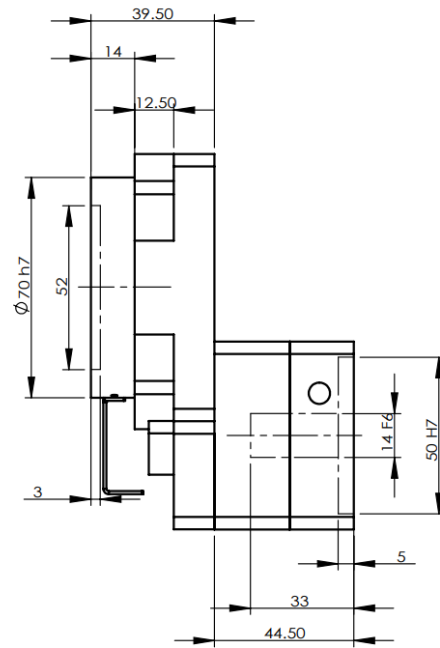
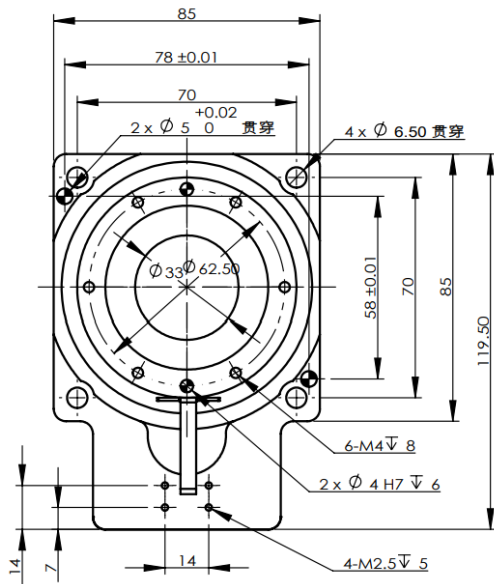
All performance parameters are conservatively marked, and the actual performance of the product is better than the table data. All data are for reference only, and official technical documents shall be issued after customer confirmation.

中空旋转平台

HOLLOW ROTARY PLATFORM

外形尺寸图
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

以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。
All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

中空旋转平台

HOLLOW ROTARY PLATFORM

型号Model

FS85-10



技术参数

Technical Parameters

中文参数	Standard English 标准工业英文	保守修正参数值
适配伺服电机 (功率 / 法兰)	Matched Servo Motor (Power & Flange)	400W (14-50-60-M4)
承载轴承类型	Bearing Type	交叉滚子轴承 RPA6028-1
最大倾覆力矩	Max. Tilting Moment	369 Nm
额定径向载荷	Rated Radial Load	3800 N
额定轴向载荷	Rated Axial Load	3800 N
额定连续扭矩	Rated Continuous Torque	20 Nm
瞬时峰值扭矩	Peak Torque	40 Nm
额定输入转速	Rated Input Speed	2000 RPM
最高允许输入转速	Max. Allowable Input Speed	2000 RPM
分度精度	Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
重复定位精度	Repeat Positioning Accuracy	≤ 10 arcsec
额定使用寿命	Rated Service Life	20000 h
防护等级	Protection Class	IP50
平台端面跳动	Platform Face Runout	≤ 0.02 mm
平台径向跳动	Platform Radial Runout	≤ 0.02 mm
润滑方式	Lubrication Type	长效润滑 Long-term Lubrication
工作温度范围	Operating Temperature Range	-10°C ~ +60°C
安装方式	Mounting Orientation	任意安装 Any Orientation
许用承载质量	Allowable Load Mass	≤ 30 kg

以上性能参数为保守标称值，实际产品性能优于表格标注；所有参数仅供参考，正式技术文件以客户确认后出具版本为准。

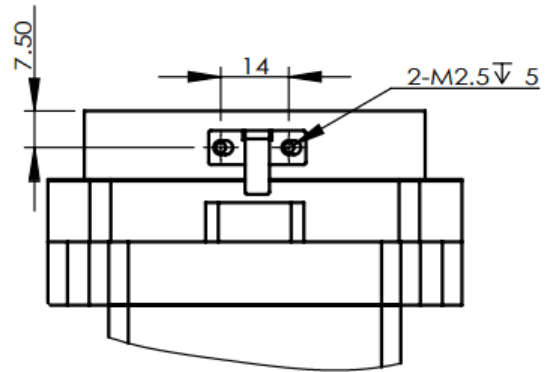
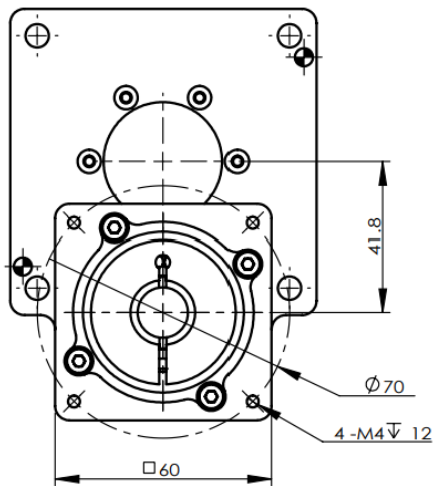
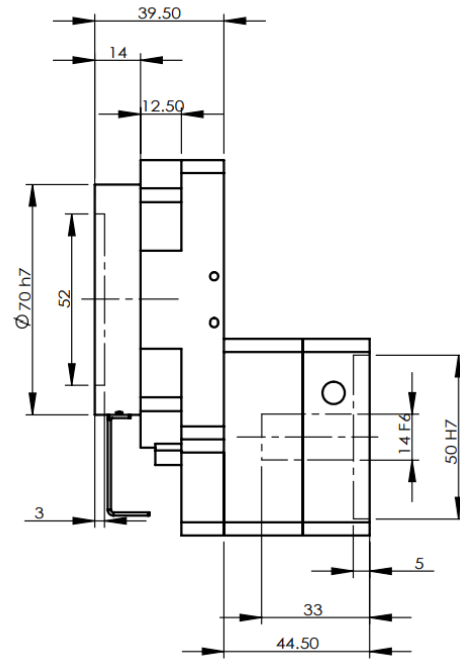
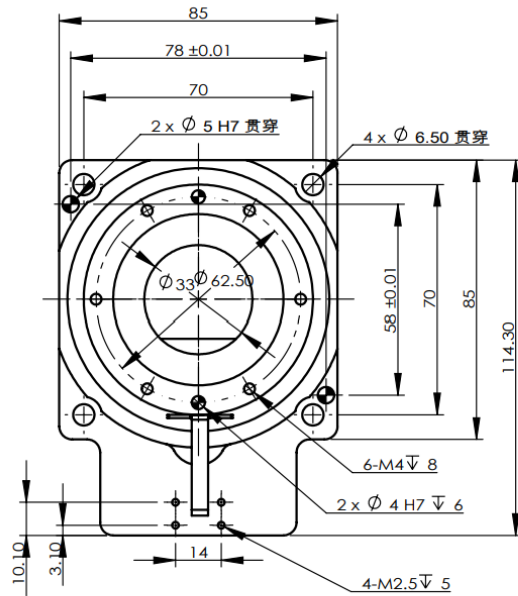
All performance parameters are conservatively marked, and the actual performance of the product is better than the table data. All data are for reference only, and official technical documents shall be issued after customer confirmation.

中空旋转平台

HOLLOW ROTARY PLATFORM

外形尺寸图
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

以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。
All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

中空旋转平台

HOLLOW ROTARY PLATFORM

型号Model

FS130-10



技术参数

Technical Parameters

中文参数	Standard English 标准工业英文	保守修正参数值
适配伺服电机 (功率 / 法兰)	Matched Servo Motor (Power & Flange)	400W (14-50-60-M4)
承载轴承类型	Bearing Type	交叉滚子轴承 RPA6028-1
最大倾覆力矩	Max. Tilting Moment	1090 Nm
额定径向载荷	Rated Radial Load	700 N
额定轴向载荷	Rated Axial Load	700 N
额定连续扭矩	Rated Continuous Torque	45 Nm
瞬时峰值扭矩	Peak Torque	120 Nm
额定输入转速	Rated Input Speed	2000 RPM
最高瞬时输入转速	Max. Instantaneous Input Speed	3000 RPM
分度精度	Indexing Accuracy	$\leq 1 \text{ arcmin}$ ($\pm 0.5 \text{ arcmin}$)
重复定位精度	Repeat Positioning Accuracy	$\leq 10 \text{ arcsec}$
额定使用寿命	Rated Service Life	20000 h
防护等级	Protection Class	IP50
平台端面跳动	Platform Face Runout	$\leq 0.02 \text{ mm}$
平台径向跳动	Platform Radial Runout	$\leq 0.02 \text{ mm}$
润滑方式	Lubrication Type	长效润滑 Long-term Lubrication
工作温度范围	Operating Temperature Range	-10°C ~ +60°C
安装方式	Mounting Orientation	任意安装 Any Orientation
许用承载质量	Allowable Load Mass	$\leq 50 \text{ kg}$

以上性能参数为保守标称值；最高瞬时 3000RPM 仅适用于短时间间歇启停工况，长期连续工作请控制在 2000RPM 以内；所有参数仅供参考，正式技术文件以客户确认后出具版本为准。

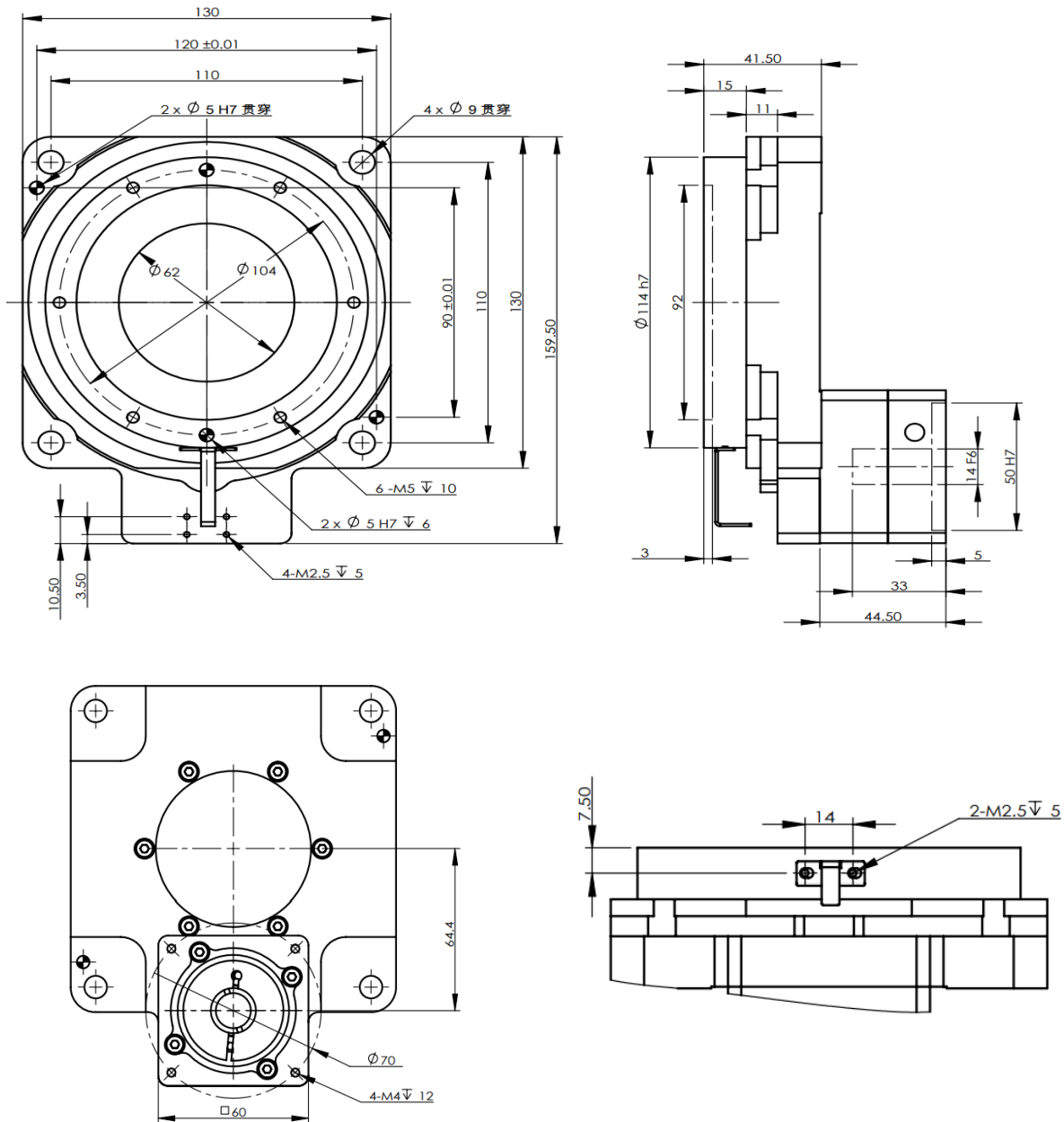
All performance parameters are conservatively marked. The max instantaneous speed of 3000 RPM is only applicable to short intermittent start-stop cycles. Continuous long-term operation shall be controlled within 2000 RPM. All data are for reference only, and official technical documents shall be issued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

中空旋转平台

HOLLOW ROTARY PLATFORM

外形尺寸图
Outline Dimension Drawing

FS130-10



以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。
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

中空旋转平台

HOLLOW ROTARY PLATFORM

型号Model

FS130-18



技术参数

Technical Parameters

中文参数	Standard English 标准工业英文	保守修正参数值
适配伺服电机 (功率 / 法兰)	Matched Servo Motor (Power & Flange)	400W (14-50-60-M4)
承载轴承类型	Bearing Type	交叉滚子轴承 RPA6028-1
最大倾覆力矩	Max. Tilting Moment	1090 Nm
额定径向载荷	Rated Radial Load	700 N
额定轴向载荷	Rated Axial Load	700 N
额定连续扭矩	Rated Continuous Torque	45 Nm
瞬时峰值扭矩	Peak Torque	120 Nm
额定输入转速	Rated Input Speed	2000 RPM
最高瞬时输入转速	Max. Instantaneous Input Speed	3000 RPM
分度精度	Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
重复定位精度	Repeat Positioning Accuracy	≤ 10 arcsec
额定使用寿命	Rated Service Life	20000 h
防护等级	Protection Class	IP50
平台端面跳动	Platform Face Runout	≤ 0.02 mm
平台径向跳动	Platform Radial Runout	≤ 0.02 mm
润滑方式	Lubrication Type	长效润滑 Long-term Lubrication
工作温度范围	Operating Temperature Range	-10°C ~ +60°C
安装方式	Mounting Orientation	任意安装 Any Orientation
许用承载质量	Allowable Load Mass	≤ 50 kg

以上性能参数为保守标称值；最高瞬时 3000RPM 仅适用于短时间间歇启停工况，长期连续工作请控制在 2000RPM 以内；所有参数仅供参考，正式技术文件以客户确认后出具版本为准。

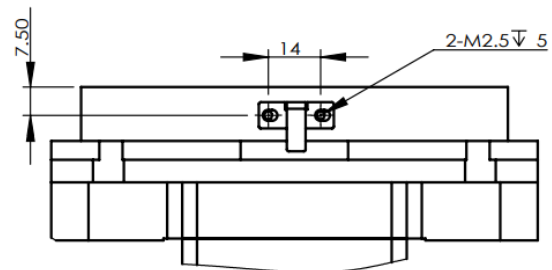
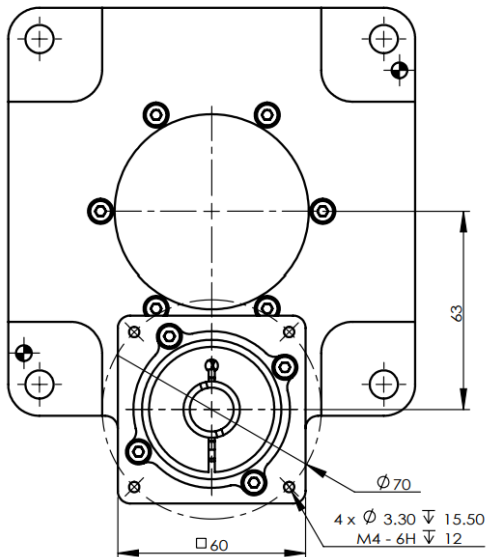
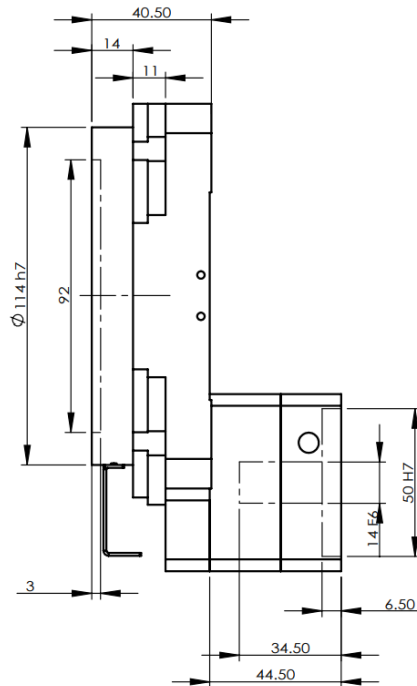
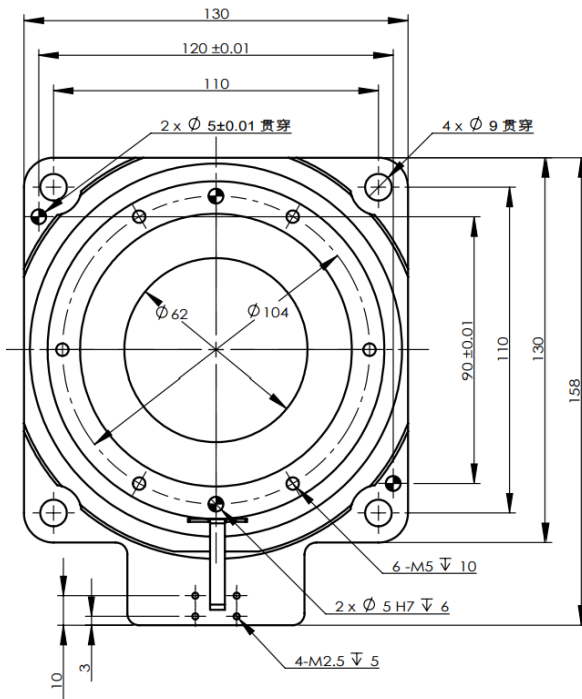
All performance parameters are conservatively marked. The max instantaneous speed of 3000 RPM is only applicable to short intermittent start-stop cycles. Continuous long-term operation shall be controlled within 2000 RPM. All data are for reference only, and official technical documents shall be issued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

中空旋转平台

HOLLOW ROTARY PLATFORM

外形尺寸图
Outline Dimension Drawing

FS130-18



以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。
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

中空旋转平台

HOLLOW ROTARY PLATFORM

型号Model

FS200-10



技术参数

Technical Parameters

中文参数	Standard English 标准工业英文	保守修正参数值
适配伺服电机 (功率 / 法兰)	Matched Servo Motor (Power & Flange)	750W (19-70-90-M5)
承载轴承类型	Bearing Type	交叉滚子轴承 RPA6028-1
最大倾覆力矩	Max. Tilting Moment	2500 Nm
额定径向载荷	Rated Radial Load	10500 N
额定轴向载荷	Rated Axial Load	10500 N
额定连续扭矩	Rated Continuous Torque	90.0 Nm
瞬时峰值扭矩	Peak Torque	180.0 Nm
额定输入转速	Rated Input Speed	2000 RPM
最高允许输入转速	Max. Allowable Input Speed	2000 RPM
分度精度	Indexing Accuracy	$\leq 1 \text{ arcmin}$ ($\pm 0.5 \text{ arcmin}$)
重复定位精度	Repeat Positioning Accuracy	$\leq 10 \text{ arcsec}$
额定使用寿命	Rated Service Life	20000 h
防护等级	Protection Class	IP50
平台端面跳动	Platform Face Runout	$\leq 0.02 \text{ mm}$
平台径向跳动	Platform Radial Runout	$\leq 0.02 \text{ mm}$
润滑方式	Lubrication Type	长效润滑 Long-term Lubrication
工作温度范围	Operating Temperature Range	-10°C ~ +60°C
安装方式	Mounting Orientation	任意安装 Any Orientation
许用承载质量	Allowable Load Mass	$\leq 100 \text{ kg}$

以上性能参数为保守标称值，实际产品性能优于表格标注；所有参数仅供参考，正式技术文件以客户确认后出具版本为准。

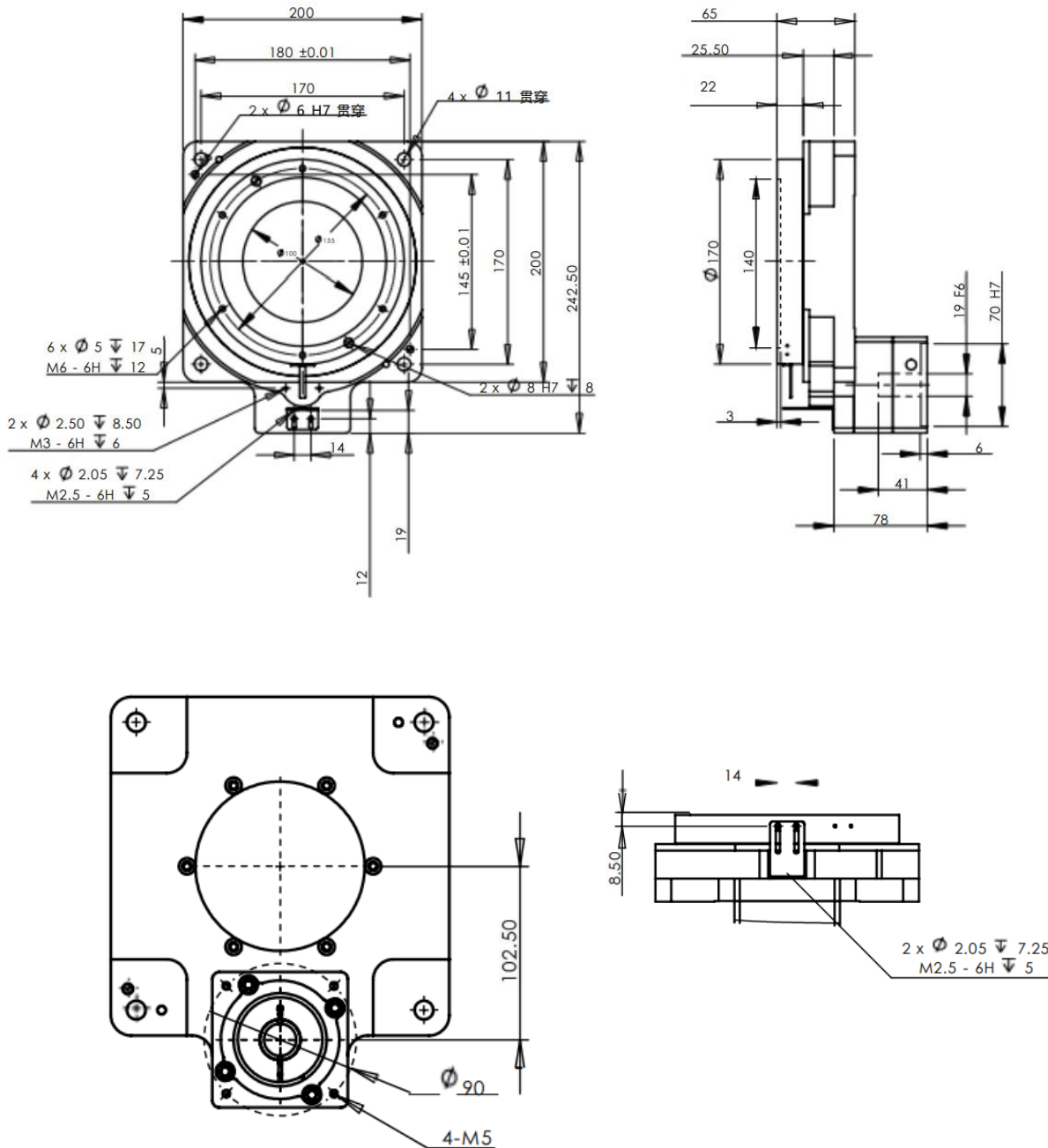
All performance parameters are conservatively marked, and the actual performance of the product is better than the table data. All data are for reference only, and official technical documents shall be issued after customer confirmation.

中空旋转平台

HOLLOW ROTARY PLATFORM

外形尺寸图
Outline Dimension Drawing

FS200-10



以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。
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

中空旋转平台

HOLLOW ROTARY PLATFORM

型号Model

FS200-18



技术参数

Technical Parameters

中文参数	Standard English 标准工业英文	保守修正参数值
适配伺服电机 (功率 / 法兰)	Matched Servo Motor (Power & Flange)	750W (19-70-90-M6)
承载轴承类型	Bearing Type	交叉滚子轴承 RPA6028-1
最大倾覆力矩	Max. Tilting Moment	2500 Nm
额定径向载荷	Rated Radial Load	10500 N
额定轴向载荷	Rated Axial Load	10500 N
额定连续扭矩	Rated Continuous Torque	90.0 Nm
瞬时峰值扭矩	Peak Torque	180.0 Nm
额定输入转速	Rated Input Speed	2000 RPM
最高允许输入转速	Max. Allowable Input Speed	2000 RPM
分度精度	Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
重复定位精度	Repeat Positioning Accuracy	≤ 10 arcsec
额定使用寿命	Rated Service Life	20000 h
防护等级	Protection Class	IP50
平台端面跳动	Platform Face Runout	≤ 0.02 mm
平台径向跳动	Platform Radial Runout	≤ 0.02 mm
润滑方式	Lubrication Type	长效润滑 Long-term Lubrication
工作温度范围	Operating Temperature Range	-10°C ~ +60°C
安装方式	Mounting Orientation	任意安装 Any Orientation
许用承载质量	Allowable Load Mass	≤ 100 kg

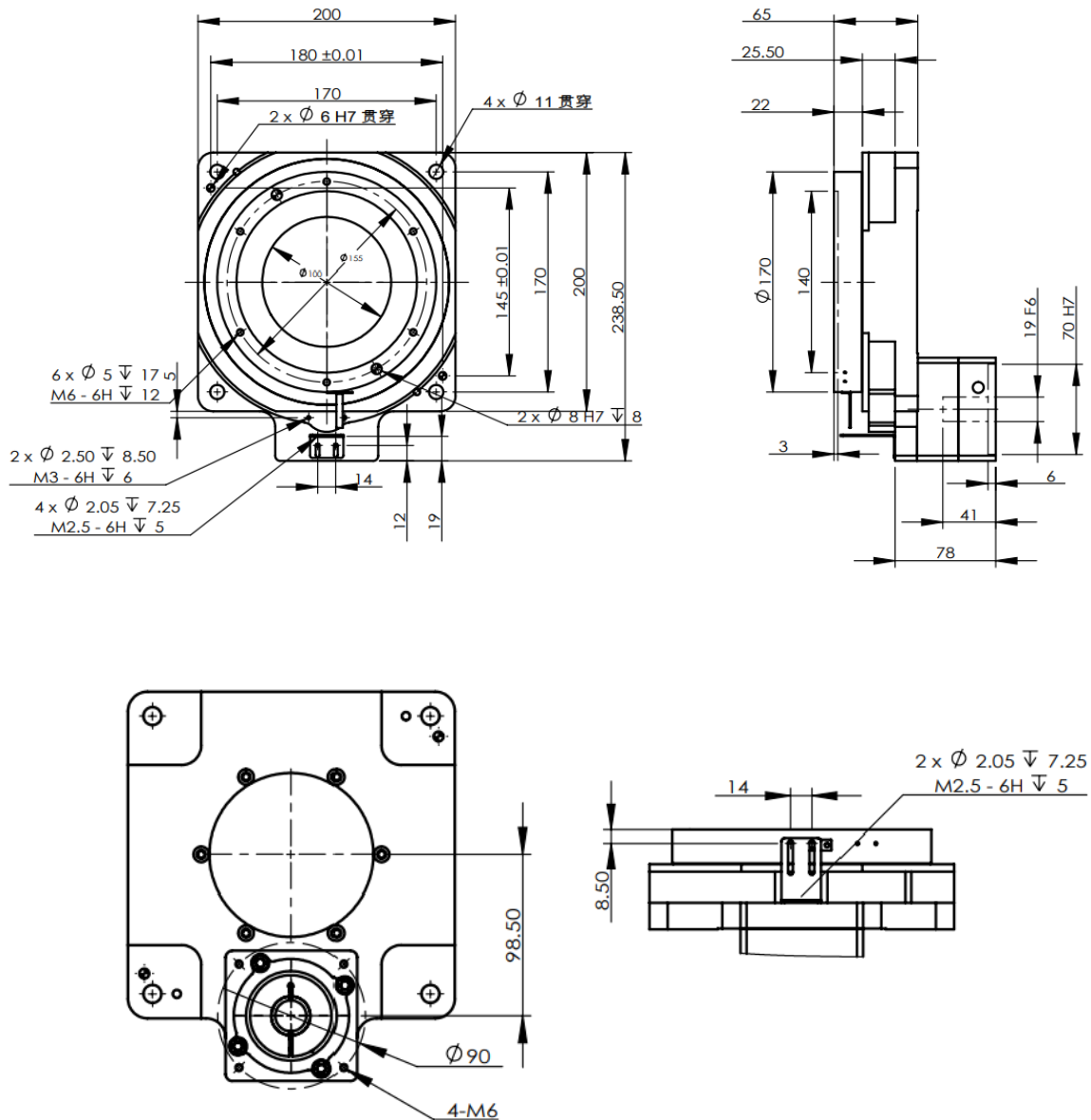
以上性能参数为保守标称值，实际产品性能优于表格标注；所有参数仅供参考，正式技术文件以客户确认后出具版本为准。

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

FS200-18



以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。
All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

FS

F
S
AF
S
B

中空旋转平台

HOLLOW ROTARY PLATFORM

型号Model

FS280-10



技术参数

Technical Parameters

中文参数	Standard English 标准工业英文	保守修正参数值
适配伺服电机 (功率 / 法兰)	Matched Servo Motor (Power & Flange)	1500W (24-110-145-M8)
承载轴承类型	Bearing Type	交叉滚子轴承 RPA240150-1
最大倾覆力矩	Max. Tilting Moment	3000 Nm
额定径向载荷	Rated Radial Load	37000 N
额定轴向载荷	Rated Axial Load	2500 N
额定连续扭矩	Rated Continuous Torque	110 Nm
瞬时峰值扭矩	Peak Torque	— Nm
额定输入转速	Rated Input Speed	2000 RPM
最高瞬时输入转速	Max. Instantaneous Input Speed	3000 RPM
分度精度	Indexing Accuracy	≤ 1 arcmin (± 0.5 arcmin)
重复定位精度	Repeat Positioning Accuracy	≤ 20 arcsec
额定使用寿命	Rated Service Life	20000 h
防护等级	Protection Class	IP50
平台端面跳动	Platform Face Runout	≤ 0.02 mm
平台径向跳动	Platform Radial Runout	≤ 0.02 mm
润滑方式	Lubrication Type	长效润滑 Long-term Lubrication
工作温度范围	Operating Temperature Range	-10°C ~ +60°C
安装方式	Mounting Orientation	任意安装 Any Orientation
许用承载质量	Allowable Load Mass	≤ 150 kg

以上性能参数为保守标称值；最高瞬时 3000RPM 仅适用于短时间间歇启停工况，长期连续工作请控制在 2000RPM 以内；所有参数仅供参考，正式技术文件以客户确认后出具版本为准。

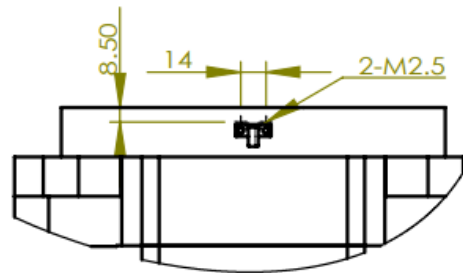
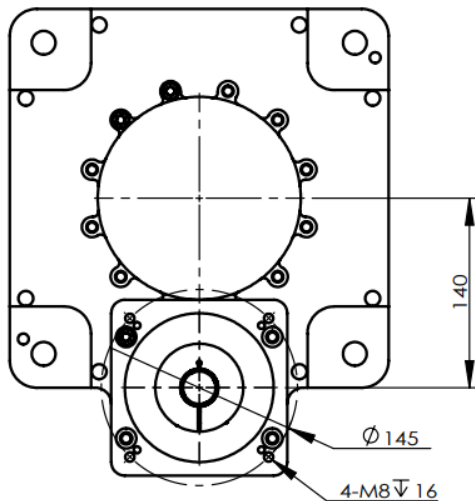
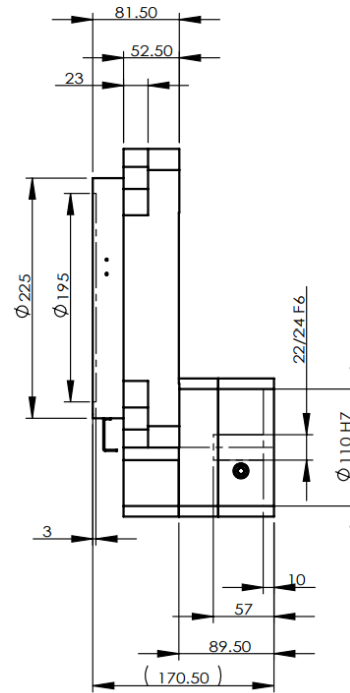
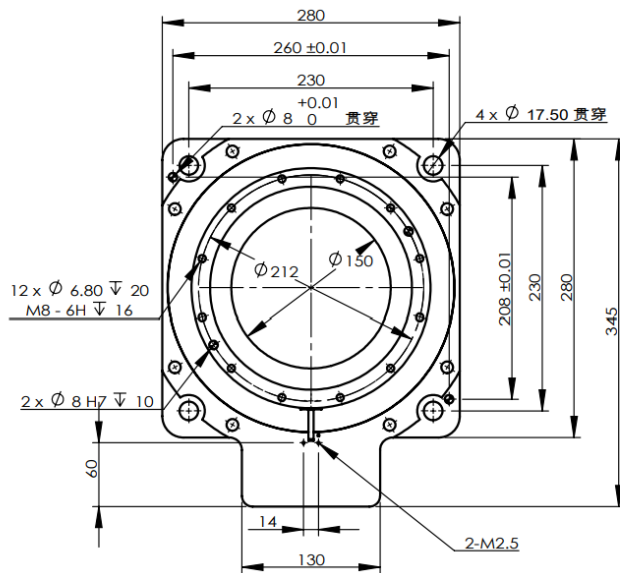
All performance parameters are conservatively marked. The max instantaneous speed of 3000 RPM is only applicable to short intermittent start-stop cycles. Continuous long-term operation shall be controlled within 2000 RPM. All data are for reference only, and official technical documents shall be issued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

中空旋转平台

HOLLOW ROTARY PLATFORM

外形尺寸图
Outline Dimension Drawing

FS280-10



以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。
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

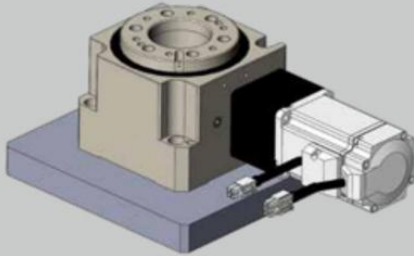
FS B

中空旋转平台

HOLLOW ROTARY PLATFORM

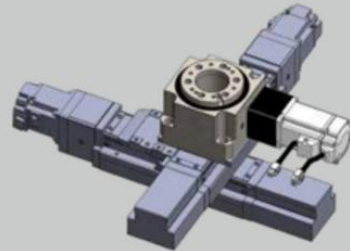
■ Mounting Methods

Horizontal Mounting

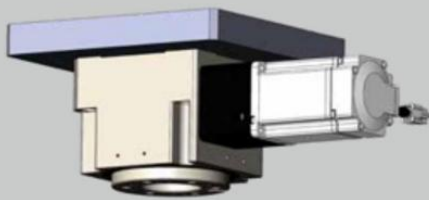


■ Mounting Examples

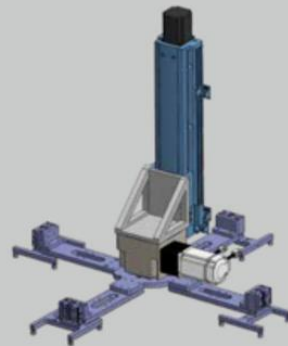
Horizontal Mounting with GXY Series



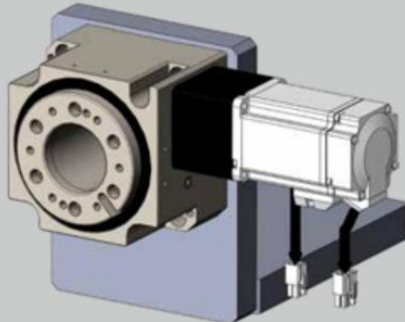
Overhead Mounting



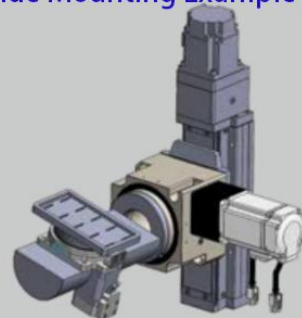
Overhead Mounting Example



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

中空旋转平台

HOLLOW ROTARY PLATFORM

订货型号
Order model

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
	165	P: Planetary Type		Compatible with 50W–100W AC servo motors of all brands
				T1: Stepper shaft Ø5, PCD43.8, M3
				T2: Stepper shaft Ø5, PCD43.8, M3
				Compatible with all-brand NEMA17 (42-type) stepper motors



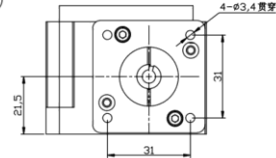
技术参数
Technical Parameter

型号Model	规格Unit	FSA60	FSA120	FSA165
容许转矩Allowable Torque	N·m	30		220
容许惯性力矩Allowable Moment of Inertia	N·m	5	150	400
容许盘面转速Allowable Disc Speed	rpm	100	100	90
减速比Reduction Ratio	i	30	30	30
定位精度Positioning Accuracy	arc-sec	≤30	≤30	≤30
重复精度Repeat Positioning Accuracy	arc-sec	≤10		≤10
容许轴向负载Allowable Axial Load	N	300		6000
背隙Backlash	mm	≤0.005		≤0.005
精度寿命（间歇运转）Service Life (Intermittent Operation)	hr	>30000		>30000
马达规格Matching Motor Power	W	100		750
防护等级IP Protection Grade	IP	65		65
允许环境温度Operating Ambient Temperature	-	-10℃~60℃		-10℃~60℃
质量Weight	kg	0.9		13

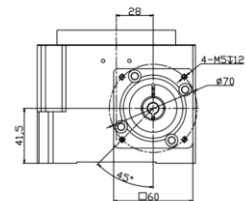
以上参数仅供参考，实际选型以客户现场工况数据为准。
Parameters are for reference only. Actual selection depends on customer on-site operating conditions.

HOLLOW ROTARY PLATFORM

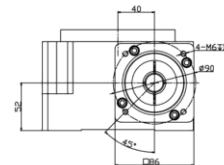
FSA60-30K



FSA120-30K



FSA165-30K



以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。

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

FS

FSA

F
S
B

HOLLOW ROTARY PLATFORM

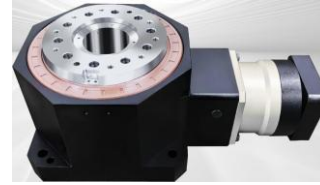
Heavy-Duty Right-Angle Rotary Platform

✓ 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.

标准款中空旋转平台

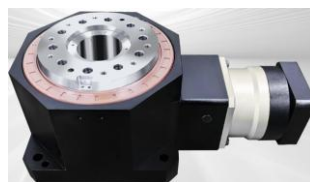
F
S

海波齿旋转平台

F
S
A

直角重载旋转平台

F
S
B



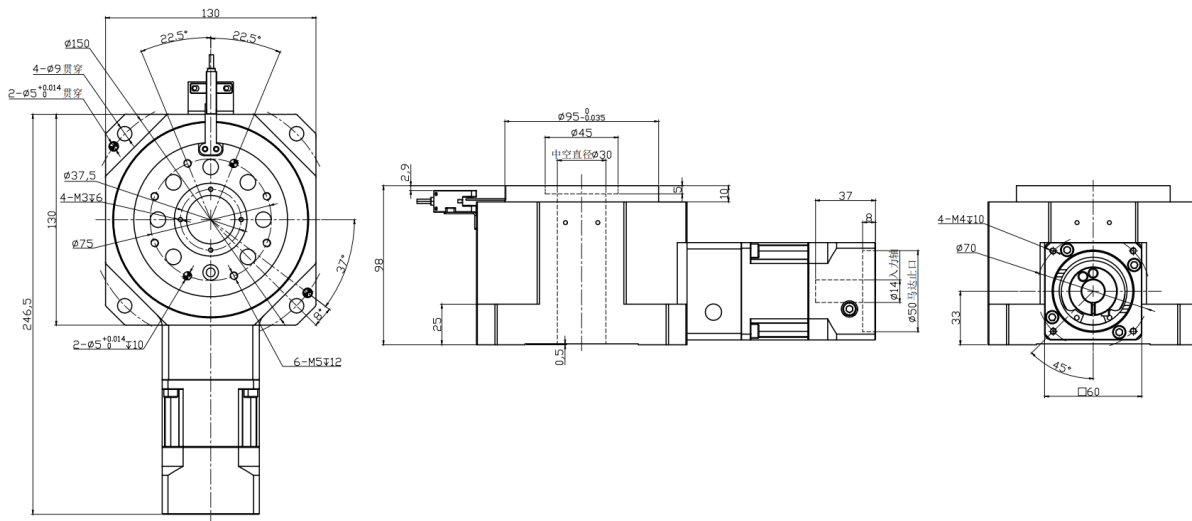
HOLLOW ROTARY PLATFORM

中空旋转平台

HOLLOW ROTARY PLATFORM

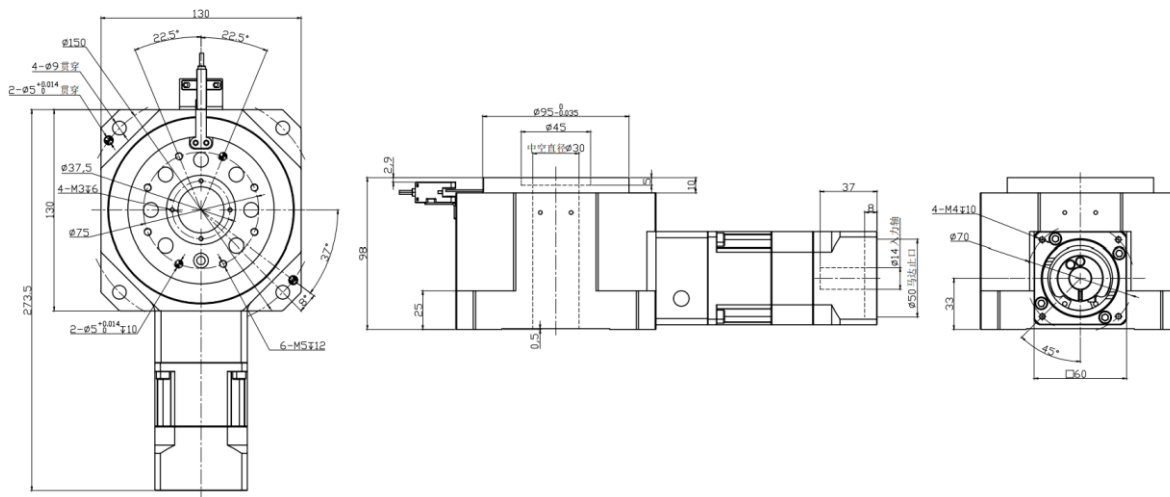
FSB130-L1

Servo Motor Interface



FSB130-L2

Stepper Motor Interface



以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。

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

中空旋转平台

HOLLOW ROTARY PLATFORM

订货型号

Order model

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



技术参数

Technical Parameter

型号 Model	规格Unit	FSB130-L1	FSB130-L2
轴承结构 Bearing structure		交叉滚子轴承 Cross roller bearing	
减速比 Reduction ratio	i	15、21、30	60、75、105、120、150、210、300
额定输出扭矩 Rated output torque	N.m	150、130、105	150、150、150、150、150、130、105
定位精度 Positioning accuracy	arc-min	≤1	≤4
反复定位精度 Repeated positioning accuracy	arc-sec	≤15	≤60
容许盘面转速 Allowable disk speed	rpm	200 (间歇运转) Intermitent operation	
适配伺服马达 Adapt to servo motor	W	200-400	
适配步进马达 Suitable for stepping motor		57 步进 Stepper	
容许轴向负载 Allowable axial load	N	7300	
容许惯性力矩 Allowable moment of inertia	N.m	50	
扭转刚性 Torsional rigidity	N.m/arcmin	20	
齿隙 Backlash		无齿隙 (可调节结构) No backlash (Adjustable structure)	
精度寿命 Accuracy life	h	30000h (间歇运转) Intermittent operation	
防护等级 Protection level	IP	55	
润滑方式 Lubrication method		长效润滑 Long-term lubrication	
安装方式 Installation method		任意 Arbitrary	
旋转平台同心度 Concentricity of rotating platform	mm	≤0.01	
旋转平台平行度 Parallelism of rotating platform	mm	≤0.01	
传动效率 Transmission efficiency	%	95	
重量 Weight	kg	7	7.6

以上参数仅供参考，实际选型以客户现场工况数据为准。
Parameters are for reference only. Actual selection depends on customer on-site operating conditions.

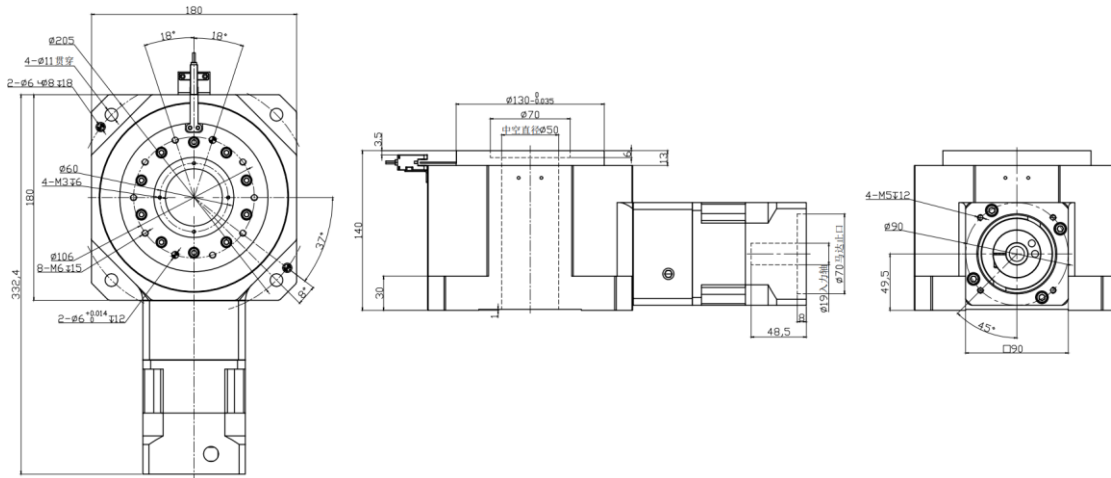
HOLLOW ROTARY PLATFORM

中空旋转平台

HOLLOW ROTARY PLATFORM

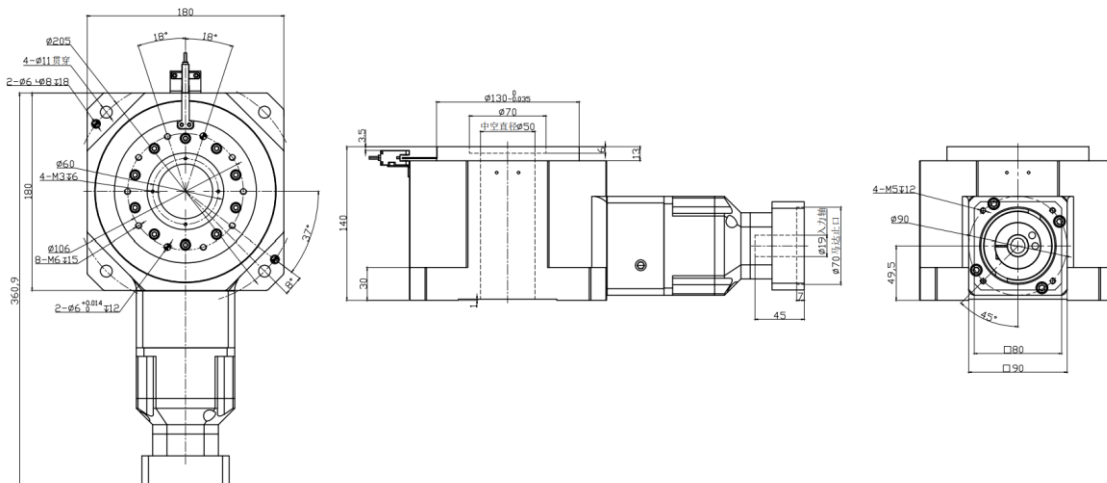
FSB180-L1

Servo Motor Interface



FSB180-L2

Stepper Motor Interface



以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。
All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

中空旋转平台

HOLLOW ROTARY PLATFORM

订货型号
Order model

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/	
			300	Stepper Motor Interface: For 86 type stepper motors



技术参数
Technical Parameter

型号 Model	Unit	FSB180-L1	FSB180-L2
轴承结构 Bearing structure		交叉滚子轴承 Cross roller bearing	
减速比 Reduction ratio	i	15、21、30	60、75、105、120、150、210、300
额定输出扭矩 Rated output torque	N.m	430、400、360	430、430、430、430、430、430、400
定位精度 Positioning accuracy	arc-min	≤1	≤4
反复定位精度 Repeated positioning accuracy	arc-sec	≤15	≤60
容许盘面转速 Allowable disk speed	rpm	200 (间歇运转) Intermittent operation	
适配伺服马达 Adapt to servo motor	W	750-1000	
适配步进马达 Suitable for stepping motor		86 步进 Stepper	
容许轴向负载 Allowable axial load	N	13500	
容许惯性力矩 Allowable moment of inertia	N.m	120	
扭转刚性 Torsional rigidity	N.m/arcmin	50	
齿隙 Backlash		无齿隙 (可调节结构) No backlash (Adjustable structure)	
精度寿命 Accuracy life	h	30000h (间歇运转) Intermittent operation	
防护等级 Protection level	IP	55	
润滑方式 Lubrication method		长效润滑 Long-term lubrication	
安装方式 Installation method		任意 Arbitrary	
旋转平台同心度 Concentricity of rotating platform	mm	≤0.01	
旋转平台平行度 Parallelism of rotating platform	mm	≤0.01	
传动效率 Transmission efficiency	%	95	
重量 Weight	kg	18	20

以上参数仅供参考，实际选型以客户现场工况数据为准。
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

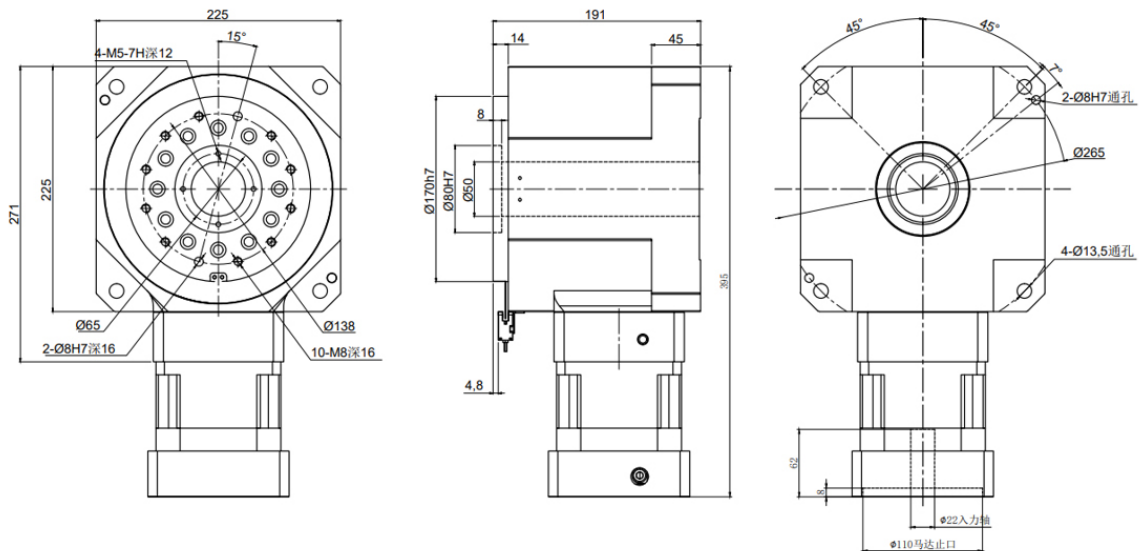
FS B

中空旋转平台

HOLLOW ROTARY PLATFORM

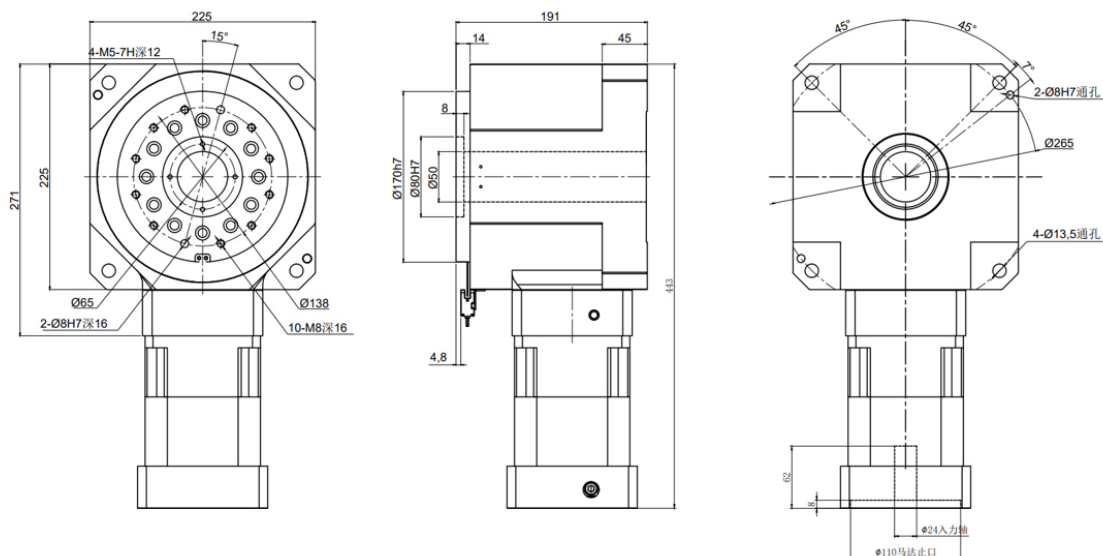
FSB225-L1

Servo Motor Interface



FSB225-L2

Stepper Motor Interface



以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。
All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

中空旋转平台

HOLLOW ROTARY PLATFORM

订货型号
Order model

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	



技术参数
Technical Parameter

型号 Model	Unit	FSB225-L1	FSB225-L2
轴承结构 Bearing structure		交叉滚子轴承 Cross roller bearing	
减速比 Reduction ratio	i	15、21、30	60、75、105、120、150、210、300
额定输出扭矩 Rated output torque	N.m	1400、1200、1200	1400、1400、1400、1400、1400、1200、1200
定位精度 Positioning accuracy	arc-min	≤1	≤4
反复定位精度 Repeated positioning accuracy	arc-sec	≤15	≤60
容许盘面转速 Allowable disk speed	rpm	200 (间歇运转) Intermittent operation	
适配伺服马达 Adapt to servo motor	W	1000-3000	
适配步进马达 Suitable for stepping motor		110-130 步进 Stepper	
容许轴向负载 Allowable axial load	N	20000	
容许惯性力矩 Allowable moment of inertia	N.m	230	
扭转刚性 Torsional rigidity	N.m/arcmin	80	
齿隙 Backlash		无齿隙 (可调节结构) No backlash (Adjustable structure)	
精度寿命 Accuracy life	h	30000h (间歇运转) Intermittent operation	
防护等级 Protection level	IP	55	
润滑方式 Lubrication method		长效润滑 Long-term lubrication	
安装方式 Installation method		任意 Arbitrary	
旋转平台同心度 Concentricity of rotating platform	mm	≤0.01	
旋转平台平行度 Parallelism of rotating platform	mm	≤0.01	
传动效率 Transmission efficiency	%	95	
重量 Weight	kg	35	38

以上参数仅供参考，实际选型以客户现场工况数据为准。
Parameters are for reference only. Actual selection depends on customer on-site operating conditions.

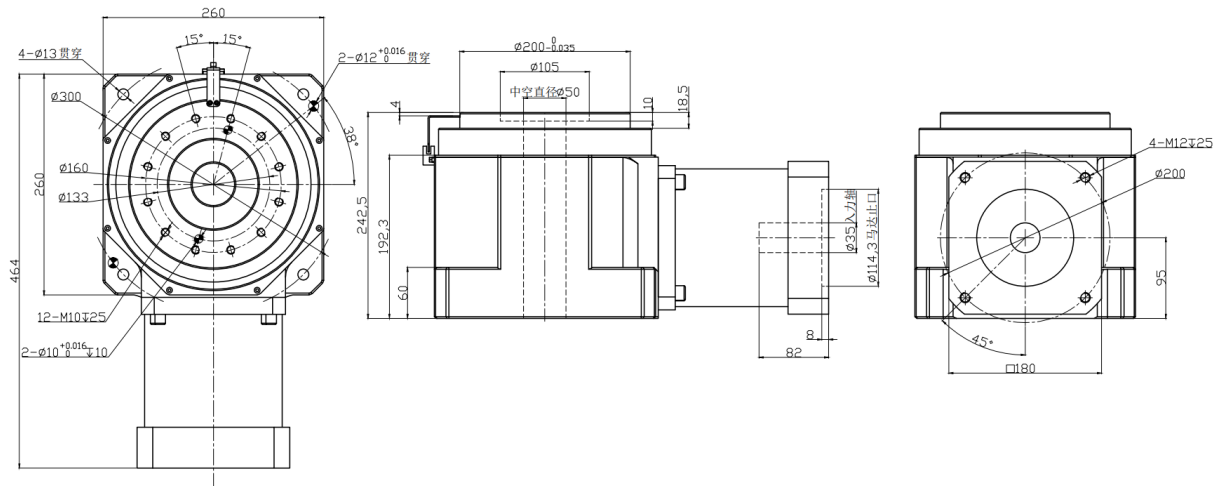
HOLLOW ROTARY PLATFORM

中空旋转平台

HOLLOW ROTARY PLATFORM

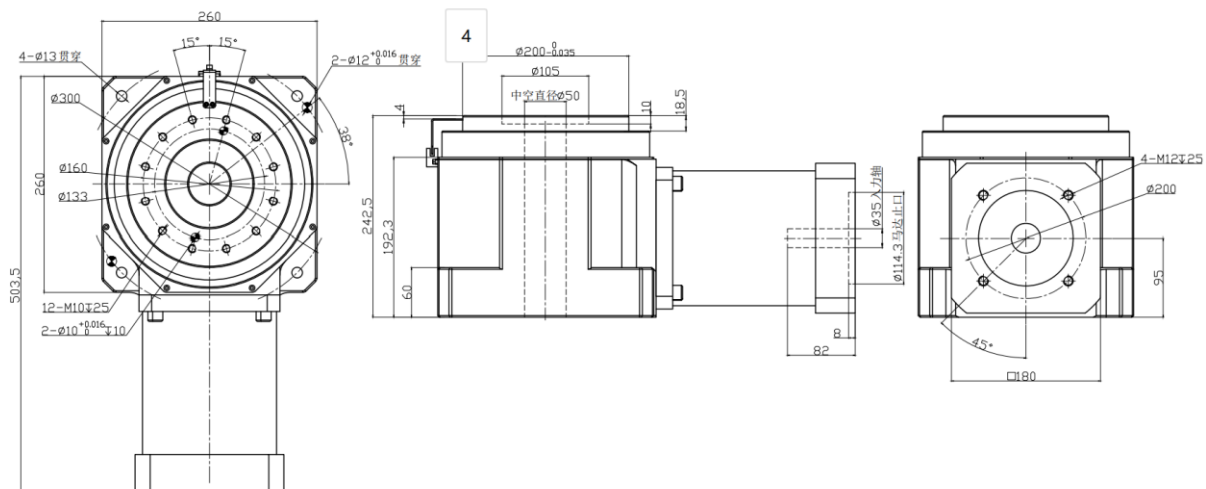
FSB260-L1

Servo Motor Interface



FSB260-L2

Stepper Motor Interface



以上图纸尺寸仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。
All dimensions in the drawing are for reference only. Official technical specifications and dimensions will be issued based on customer's actual requirements.

中空旋转平台

HOLLOW ROTARY PLATFORM

订货型号
Order model

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	



技术参数
Technical Parameter

型号 Model	Unit	FSB260-L1	FSB260-L2
轴承结构 Bearing structure		交叉滚子轴承 Cross roller bearing	
减速比 Reduction ratio	i	15、21、30	60、75、105、120、150、210、300
额定输出扭矩 Rated output torque	N.m	3500、3300、3300	3500、3500、3500、3500、3500、3300、3300
定位精度 Positioning accuracy	arc-min	≤1	≤4
反复定位精度 Repeated positioning accuracy	arc-sec	≤15	≤60
容许盘面转速 Allowable disk speed	rpm	200 (间歇运转) Intermittent operation	
适配伺服马达 Adapt to servo motor	W	3000-5000	
适配步进马达 Suitable for stepping motor		130-150 步进 Stepper	
容许轴向负载 Allowable axial load	N	30000	
容许惯性力矩 Allowable moment of inertia	N.m	800	
扭转刚性 Torsional rigidity	N.m/arcmin	180	
齿隙 Backlash		无齿隙 (可调节结构) No backlash (Adjustable structure)	
精度寿命 Accuracy life	h	30000h (间歇运转) Intermittent operation	
防护等级 Protection level	IP	55	
润滑方式 Lubrication method		长效润滑 Long-term lubrication	
安装方式 Installation method		任意 Arbitrary	
旋转平台同心度 Concentricity of rotating platform	mm	≤0.01	
旋转平台平行度 Parallelism of rotating platform	mm	≤0.01	
传动效率 Transmission efficiency	%	95	
重量 Weight	kg	58	60

以上参数仅供参考，实际选型以客户现场工况数据为准。
Parameters are for reference only. Actual selection depends on customer on-site operating conditions.

HOLLOW ROTARY PLATFORM

中空旋转平台 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: $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$. 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.