

Product Specifications

1. Product Overview

- 1.1 Product Name: Meteorological Servo Pan-Tilt System
- 1.2 Product Model: RU-PTU-200-005-350-M
- 1.3 Product Description:

This product is used to carry and drive parabolic meteorological radars. Based on external servo control information, it controls the horizontal (azimuth) and vertical (pitch) rotation of the antenna, enabling the radar to achieve accurate, rapid, and reliable scanning capabilities for the target airspace.

Product Features:

- ✓ Supports control commands such as azimuth positioning, pitch positioning, constant-speed azimuth scanning (PPI), azimuth sector scanning, pitch sector scanning (RHI), azimuth volume scanning, pitch volume scanning, and parking and homing (PARK).
- ✓ Equipped with real-time display and reporting functions for azimuth and pitch angle information.
- ✓ Equipped with real-time turntable status monitoring and safety protection functions.

Application scenarios: it can be applied in search radars, tracking radars, meteorological radars, and jamming radars. It supports various loading methods and can be used with parabolic antennas and flat-panel antennas, featuring flexible deployment.

2. Technical Parameters

2.1 Parameter Table

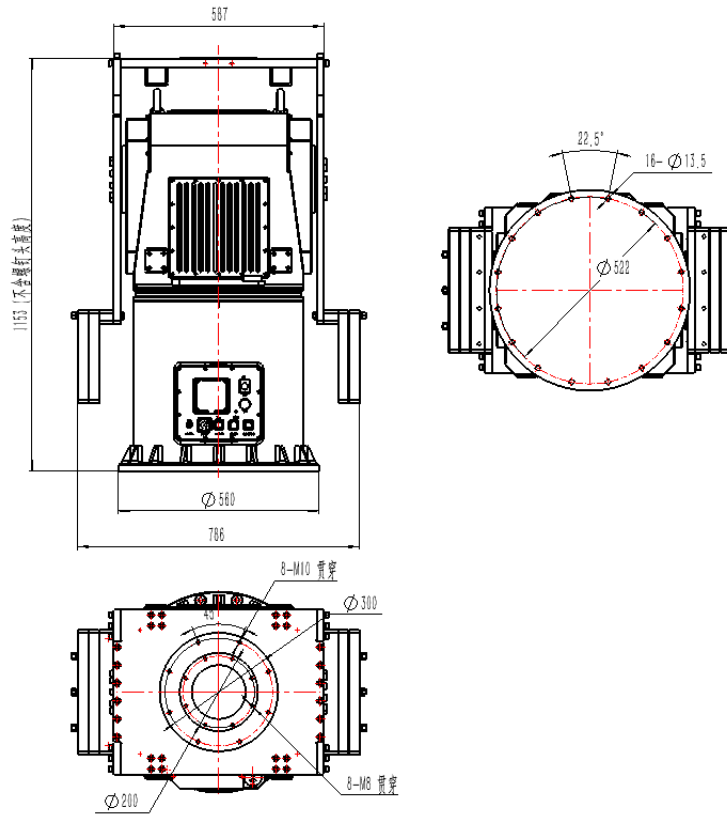
Technical Indicators			
Category	Item	Parameters	Remarks
Performance Parameters	Positioning Accuracy	±0.05°	
	Maximum Load	200KG	
	Rated Rotational Speed	Azimuth: 36°/s; Pitch: 36°/s	
	Rotational Acceleration	Azimuth: 20°/s ² ; Pitch: 20°/s ²	
	Rotational Range	Azimuth: 0°~360°; Pitch: -2°~182°	
Mechanical Parameters	Weight	350KG	
	Dimensions	786*560*1153(L*W*H, mm)	
Electrical Parameters	Rated Supply Voltage	AC220v	
	Rated Power	2500W	
Environmental Parameters	Operating Temperature	-40°~+85°	
	Storage Temperature	-50°~+85°	
	Protection Class	IP65	
	Wind Resistance Class	Level 8 Wind	

2.2 Interface Information Table

Category	Interface ID	Cores Qty.	Interface Definition	Remarks
Power Interface	XS01	3	AC220v/2500W	L/N/PE
	XS02	1	Optical Fiber	
Communication Interface	XS03	6	RS422	
	XS04	12	Hand Control Box	
	XS05	6	Temperature and Humidity Sensor	

3. Overall Dimensions

3.1 Dimension Drawing



3.2 Appearance Photos

