



SYSTEM CONTROLS
Versatility is Reality

System Controls Technology Solutions Pvt Ltd

AZIMUTH POSITIONER FOR IFF ANTENNA



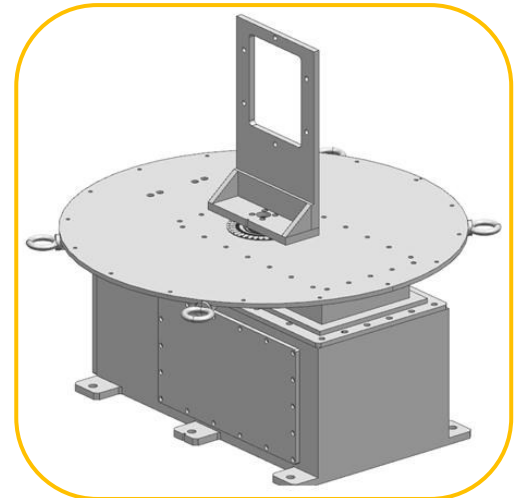
Products:

- Stabilized Platforms
- Gimbals
- Positioners
- Pointing Systems
- Pan Tilt Units
- Radar Subsystems
- Electro-Optical Systems
- Opto-Mechanical Systems
- Motion Controls Systems
- Test Benches

Services:

- Engineering Design & Development
- Electronic Testing & Assembly
- CNC Machining & Manufacturing
- System Integration

The Azimuth Positioner System is a stand-alone, compact unit for mounting the intended payload namely, a Grid Antenna of an IFF Radar System as top mount. The System is mountable on its intended platform, either on a vehicle or on a ship. The System moves the antenna in azimuth axis, as per the functional requirements. The Positioner System consists of a Servo Drive Assembly (SDA) and an independent Servo Control Unit (SCU). While the SDA operates in an open environment, the SCU can be located, away from SDA, in a closed convenient location for ease of operation. The SDA and SCU are electrically interfaced with the usage of suitable cables and connectors. The System works with motor control. A rotary joint is integrated in SDA for electrical connectivity between rotating and non-rotating segments of the System. An optimum motor is used for the Azimuth movement and associated electronics provides stable and accurate angular motion to the payload. The travel of payload is controlled by SCU loaded with a controller software program.



Servo Drive Assembly (SDA)



Servo Control Unit (SCU)



Technical Specifications

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Azimuth Drive

No. of Axis	: Single axis
Travel Limits	: N x 360° (continuous)
Accuracy	: ± 0.01°
RPM	: 15 RPM
Application Type	: Ground / Marine
Mounting Type	: Vehicle / Ship
Payload Mounting	: Top Mount
Weight of Pedestal	: 20 kg max
Weight of Payload **	: 25 kg max
Dimensions of Pedestal	: Turn Table Dia - 300 mm Height - 400 mm Hallow Shaft Dia - 40 mm
Interface	: RS485 / Ethernet
Power	: Rated Torque - 25 Nm at 15 RPM
Rotary Joint	: 2 channel Co-axial Rotary Joint
Motion Controller	: Independent Controller
Finish	: Painting or Powder Coating as per customer requirement

Environmental

Operating Environment	: Outdoor Environment at 3500 m altitude
Defence Standards	: JSS55555
EMI/EMC	: MIL-STD-461F

** - The payload will be enclosed under the Radome, hence there will be no windload