



SYSTEM CONTROLS

Versatility is Reality

System Controls Technology Solutions Pvt Ltd

IFF PEDESTAL

Products:

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

Services:

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



The function of IFF Pedestal Assembly is to support the Antenna and Electronic Units and to rotate the Antenna according to functional requirements. The Assembly has electrical/data interfaces through rotary joint for monitoring and controlling the IFF Radar operation remotely. The modules of IFF Pedestal Assembly are Quadripod, Pedestal, Power Supply, Rotary Joint, Rotary Frame and Antenna Frame. The Pedestal is a single axis platform with Antenna Interface Frame assembly on top of the pedestal.

Technical Specifications

Pedestal Assembly Deployment Time	: < 20 minutes (installation & leveling)
Pedestal Assembly Weight	: < 400 kg
Payload Weight	: 150 kg
Rotational Payload	: < 150 kg (including rotating frame & antenna)
Rotational Speed	: 12 to 30 rpm (programmable)
Platform Leveling Accuracy	: < 0.5°
Antenna Elevation Angle	: 90° ± 0.1° (fixed angle)
Azimuth Accuracy	: ± 0.1° (with readout accuracy of ± 0.01°)
Mode	: Operation Mode & Manual Rotation
Cable Routing	: Through rotary joint
Fastener	: Quick operating type
Online Health Status	: Available
Power Supply	: Input - 230 VAC, 50 Hz, 1 phase, 3 wire Output - 28 VDC, 1kW
Wind Speed	: 100 kmph (operational) and 160 kmph (survival)
Operational Temperature	: - 20 °C to +55 °C
Storage Temperature	: - 30 °C to +70 °C
Humidity	: 95% at +40°C
Rotary Joint & Slip Ring	: Available



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