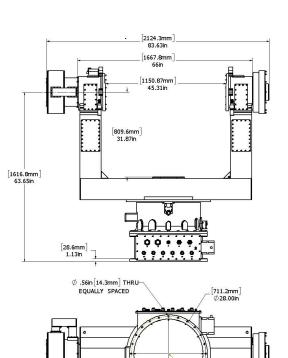
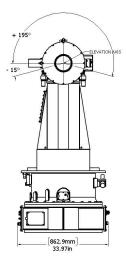
Model SPS-6000 Precision Positioner High Performance Positioning System

Features

- Cost-effective solution for precise positioning of . payloads weighing up to 1500 lbs (680 Kg)
- Brushless, direct drive motors reduce maintenance and EMI
- Zero backlash, highly reliable direct drive eliminates gearboxes
- Coude' Optical Path (Optional)
- Angular resolution of 24 bits (0.4 µradians with Inductosyns)
- C-based firmware: fast response, easy to use, flexible
- Controlled digitally via PC
- LOS Gyro Stabilization (Optional) .
- Suitable for operation in military land, sea, and airborne environments







ADVANCED ELECTRONICS

Model SPS-6000 Precision Positioner **High-Performance Positioning System**

Performance Specifications

RESOLUTION:	• 24 bits (0.4 µradians)
ACCURACY:	 ±0.0007° (±12 µradians) ±0.0003° (±6 µradians)
REPEATABILITY:	 ±0.00034°(6 μradians) ±0.00028° (±4.85 μradians)
LOS STABILIZATION:	• ±25 µradians (dependent)
ACCELERATION:	• 90°/SEC ² (payload inertia dependent)
TRAVEL:	 Azimuth - ±180°continuous Elevation15° to +195°
RESONANT FREQUENCY:	• Elevation 23 - 48 Hz
3RD MODE:	• Locked Azimuth >30 Hz
MOTOR TORQUE (PEAK):	 475 ft - lb (644 N m) AZ 100 ft - lb (136 N m) EL Standard

Mechanical

MOUNTING:	24 x 0.563 inch diameter holes on a 28.000 inch diameter bolt circle
LOS:	63.70 inches above the positioner mounting surface

Power / Voltage

- The Positioner derives its power from the servo control unit. The servo control unit operates from:
- 115 VAC single phase, 50/60 HZ power
- 3,450 Watts (peak) depending on dynamic requirements

Configuration

PEDESTAL TYPE:	٠	Direct drive, elevation over azimuth yoke
DRIVE MOTORS:	٠	Brushless DC
WEIGHT, POSITIONER:	٠	1670 lb (758 Kg)
PAYLOAD:	•	Up to 1500 lb (680 Kg)

Options

SPS-6000 has many options from past programs such as, Slip Rings, FORJ, and Customer Cabling through the positioner. Let us know any desired features or optional interfaces, as they already exist

Environmental

PIONEERING ADVANCED ELECTRONICS

TEMPERATURE:	• -40° to +55°C
RAIN:	• Weather tight seals
RELATIVE HUMIDITY:	• 98%
SHOCK & VIBRATION:	MIL Standard levels

Corrosion Prevention and Safety

The pedestal is pretreated with chemical conversion coating and a weather resistent urethane top coat. It uses all stainless steel hardware and is supplied with stow locks for safe transportation. A pedestal safe switch is included to allow maintenance personnel to immobilize the pedestal Mechanical during maintenance. stops and a payload specific electrical interface are also standard items

305 Richardson Road | Lansdale PA 19446 USA | 1-215-996-2416 | cobhamaes.com