



DESCRIPTION

The NSI-SC-5633 is a high accuracy rotational positioner which is ideal for use as an azimuth stage for far-field measurements or as a theta or phi rotation stage for a spherical near-field systems.

CAPABILITIES

The rotator can support a vertical load of 1,595 lb (723 Kg) and includes an integral precision stepper motor. The stage interfaces to a standard NSI 2000 antenna range controller (NSI-SC-5911). The stage is typically fitted with a 26.5 GHz rotary joint.(NSI model number for this configuration is NSI-SC-5631), but it can also accommodate a 40 GHz or 50 GHz rotary joint.

FEATURES

- High accuracy/capacity
- Stepper motor driven
- Integral +/- limits
- Optional 26.5 or 40 or 50 GHz rotary joint
- Includes 40' motor cable

| SPECIFICATIONS | |
|---------------------|---------------------------|
| Total vertical load | 1,595 lb (723 Kg) |
| Total radial load | 550 lb (249 Kg) |
| Bending moment | 70 ft-lb (95 N-m) |
| Operating speed | 20 deg/sec |
| Delivered torque | 23 ft-lb (31 N-m) |
| Withstand torque | 27 ft-lb (37 N-m) |
| Mechanical backlash | 0.05 deg |
| Travel | 360 deg (limits disabled) |
| Step resolution | 0.0125 deg |
| Repeatability | <0.03 deg |
| Accuracy | 0.09 deg |
| Platen diameter | 6" (150 mm) |

DIMENSIONS

- ◆ Width - 5.91" (148 mm)
- ◆ Depth - 14.5" (368 mm)
- ◆ Height - 2.95" (75 mm)
- ◆ Weight - 14.5lb (6.6 kg)

ORDERING INFORMATION

NSI-SC-5633 - Rotation Stage with 40' motor cable

NSI-SC-5631 - Rotation Stage with 40' motor cable and 26.5 GHz rotary joint

Please contact the NSI Sales department to order this product.

Nearfield Systems, Incorporated

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