

## NSI-SC-7701

### 5-Axis Far-field Positioner System



#### DESCRIPTION

The NSI-SC-7701 is a 5-axis Roll over Upper-slide over Azimuth over Elevation over Lower slide positioner which is ideal for use in an indoor far-field measurement system.

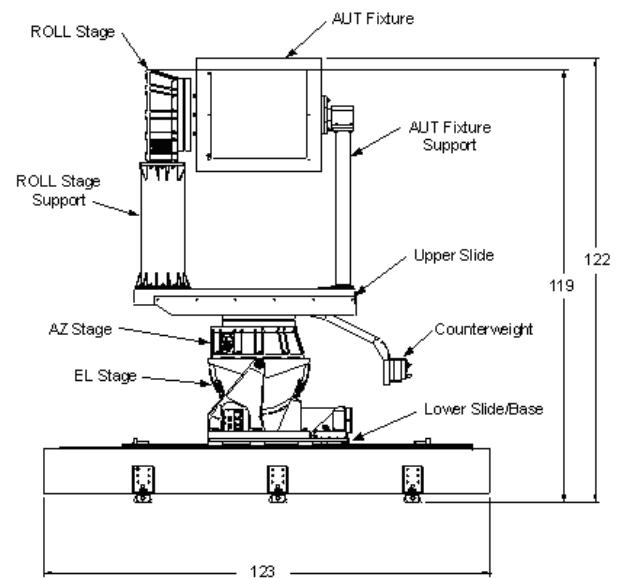
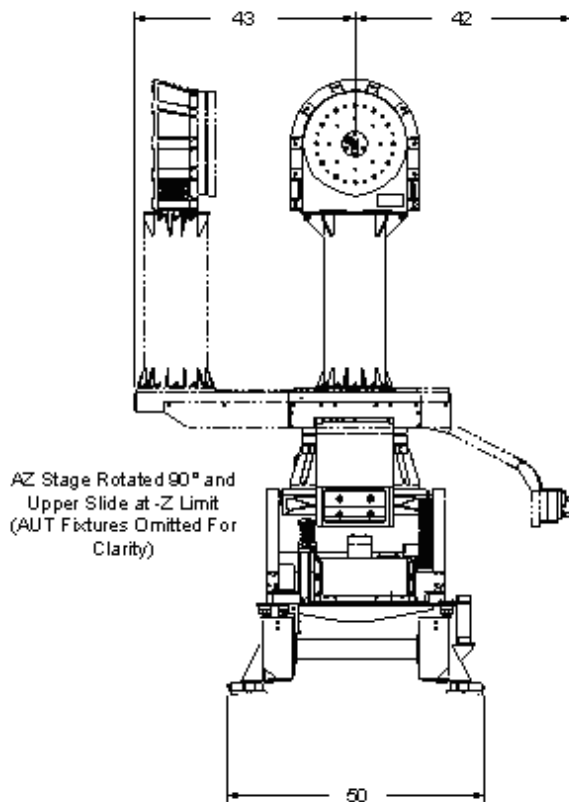
#### CAPABILITIES

The 5-axis system can support a load of 400 lb (181 Kg) on the Roll stage. An optional support post mounted on the the upper slide can be used to convert the Roll stage into an Elevation motion for the antenna. The 5-axis system interfaces to a standard NSI 2000 motion controller or can also be controlled directly by the customer using TTL pulse and direction control commands. The Azimuth and Roll stages also have an integral 26.5 GHz rotary joint and 24 contact slip ring assembly to pass additional signals through the stages for other customer applications such as antenna control or for an additional positioner.

#### FEATURES

- High accuracy/capacity
- Stepper motor driven
- Motor driver electronics
- Power input can be 110 or 220 Volts
- Roll and Azimuth stage travel 360 deg
- Elevation stage travel +/-20 deg
- Lower slide travel 36" (0.9m)
- Upper slide travel 16" (0.4m)
- Optional encoders can be added to any axis

SPECIFICATIONS	
Total load	400 lb (181 kg)
Operating speed - angular	ROLL/AZ/EL - 30/5/1 deg/sec
Operating speed - linear	Upper/Lower slides - 0.2 / 1.0 in/sec
Mechanical backlash of rotation stages	0.05 deg
Travel-linear	Lower slide 36" (0.9 m) Upper slide 16" (.4 m)
Travel-angular	ROLL 360 deg, AZ 360 deg, EL +/-20 deg
Accuracy-angular	+/-0.05 deg
Accuracy-linear	+/-0.001"



## DIMENSIONS

- ◆ Width - 123 in (3.12 m)
- ◆ Depth - 85 in (2.16 m)
- ◆ Height - 119 in (3.02 m)
- ◆ Weight - 3,200 lb (1,451 kg)

## ORDERING INFORMATION

Please contact the NSI Sales department to order this product.

### Nearfield Systems, Incorporated

19730 Magellan Drive, Torrance, CA 90502, USA, Tel: 310.525.7000, Fax: 310.525.7100  
 Email: sales@nearfield.com. Visit our website: www.nearfield.com