



# Model ASI 11.3-Mtr Turning Head Antenna (THA)

## Earth Station Antenna

### Engineering + Craftsmanship + Service

We welcome you to the world of Alpha Satcom, Inc. The oldest, new antenna company on the planet. ASI is dedicated to bringing to you, the discerning customer, world-class products and services at the right price and at the right time.

Comprised of a team of Engineers and Satellite Professionals, ASI is uniquely qualified to bring to the market new and state-of-the-art antennas that will provide years of exceptional service. Coupled with a network of select customer focused companies, ASI can address the various requirements your particular business plan requires.

We invite you to step into the professional world of Alpha Satcom, Inc.

### Antenna Features

- Wide variety of feed options designed to meet the latest international standards.
- Doubly contoured, high strength, lightweight aluminium panels fabricated on new aircraft quality tooling providing exacting close tolerances.
- All steel structure are hot dipped galvanized after fabrication providing a thermal homogenous structure to support operation at high frequencies.
- Generous hub enclosure with easy access for inclusion of RF components.
- Stainless steel and galvanized metric hardware throughout.
- Low cost apron type foundation design including anchor bolts and hardware.
- Three (3) years warranty.

### Optional Features

- +/- 170° Az Travel, +/- 270° Az Travel
- Tx/Rx, 2Tx/2Rx, TT&C, 6 Port Feeds
- Hybrid, Hi Power and Low Pim Feeds
- Two and Three Axis Motorization Packages
- Staircase and Platform for ready access to hub
- Aircraft Warning Lights
- Lightning Protection
- High Wind Designs
- Low Temperature Designs
- Single or Dual Tx Waveguide integration from Hub to Upper Axis
- S, C, X, Ku, DBS and Ka Band Configurations



Alpha Satcom, Inc.

[www.alpha-satcom.com](http://www.alpha-satcom.com)

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<b>MECHANICAL PERFORMANCE</b>	
<b>Antenna Diameter</b>	11.3 Meters (37.1 Feet)
<b>RF Configuration</b>	Cassegrain Optics
<b>Hub Dimension</b>	102.5" (2.6M) diameter x 56" (1.42M) height
<b>Antenna Structure</b>	Turning Head, Pedestal & Reflector, Hot Dipped Galvanized After Fabrication
<b>Reflector Panels</b>	Thirty-six (36) - Precision, Stretched Formed, Aluminum, High Quality Panels
<b>Azimuth Drive</b>	+/- 170° Coverage Turning Head
<b>Elevation Drive Configuration</b>	5° to 90° Continuous, Self Locking, Mechanical Screw Jack
<b>Maximum Feed Pressure</b>	0.50 psi
<b>Foundation</b>	27ft x 27ft x 2ft : 34.2 yds <sup>3</sup> of concrete and 3,100 lbs. of reinforced bar
<b>ENVIRONMENTAL PERFORMANCE</b>	
<b>Operational Wind</b>	45 mph (72km/h) Gusting to 60 mph (97km/h) High Wind designs available
<b>Survival Wind</b>	130 mph (209 km/h) at any position
<b>Operational Temperature</b>	+5°F to +122°F (-15°C to +50°C)
<b>Survival Temperature</b>	-22°F to +140°F (-30°C to +60°C)
<b>Rain</b>	4 inches/hr. (10cm/hr.)
<b>Relative Humidity</b>	100%
<b>Solar Radiation</b>	360 BTU/hr./ft <sup>2</sup> (1000 Kcal/hr./m <sup>2</sup> )
<b>Ice (Survival)</b>	1 in (2.54cm) on all surfaces, no wind: 0.5 in (1.25cm) on all surfaces at 80 mph (130km/h) gusts
<b>Atmospheric Conditions</b>	As per the environment in industrial areas or coastal regions
<b>Shock and Vibration</b>	As encountered by commercial truck and air transportation
<b>Seismic</b>	0.1 G Vertical and 0.3 G Horizontal Acceleration (8.3 Richter/11 Modified Mercalli Scale)

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