



2.4MT ANTENNA WITH AZ/EL/POL MOTORIZATION SUB-SYSTEM

The solution developed by Antech Space's Mechanical Design department provides high gain and exceptional pattern characteristics with Ku band feed and it is ideal for receiving from GEO satellite.

The **2.4 mt antenna** is a rugged, reliable antenna system that **operates at Ku band frequencies with high efficiency** and at the same time successfully with stands environmental effects. **Antenna consists of main reflector**, segmented in 4 pieces to reduce shipping volume and to facilitate transport to remote sites, with 2-ports feed assembly and motorization sub-system for Az/El/Pol with servo mechanism.

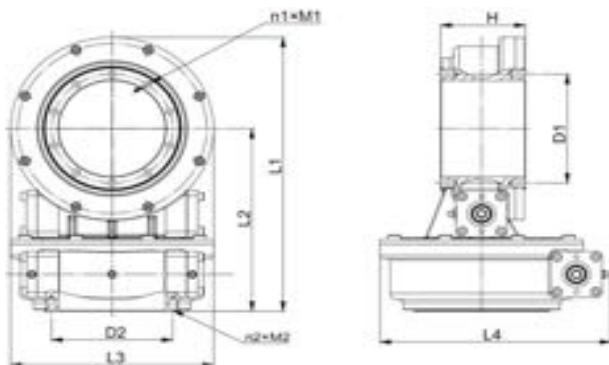
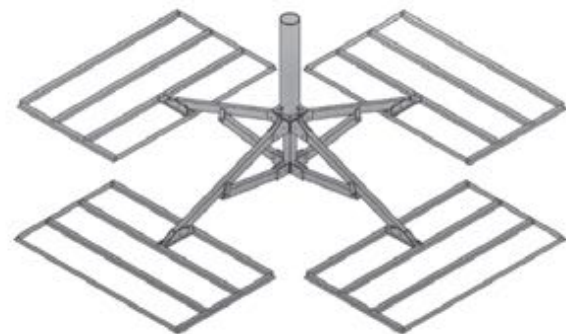
This motorization sub-system will be placed on a pedestal mount with Elevation over Azimuth configuration with fine adjustment on each axis.

The **system has an emergency stop** for safety intervention and allow, in case of ACU fault, to the operator to move manually all the mechanical sub-system.

The **Hot-dipped galvanized** finishes for the steel mount, **maintains pointing accuracy** and ensures durability and reliability.

The antenna can also be provided with the following **OPTIONS:**

- High performance LNA/LNBs
- Full RF chain with LNA, Up/Down converters
- Uplink Power Amplifiers
- Installation Services
- Civil Engineering Analysis



ISO 9001:2015



ANTENNA SPECIFICATION

Type	2.4 mt X Band Antenna		
	Rx	Tx	
Antenna Diameter	2.4 mt		
Antenna Type	Dual reflector		
Frequency (GHz)	9 - 10	9 -10	
Gain, Mid-band (dBi)	46		
Feed Port	2 Ports Linear		
Feed Interface	WR - 90	WR - 90	
Power Handling		1 KW	

MECHANICAL SPECIFICATION

Mount Type	Elevation over Azimuth		
	Tripod for high wind application		
Antenna Pointing Range (Continous)	Azimuth	Elevation	Polarization
	0 - 180°	5° to 90°	± 90°
Drive Mode (3 axis)	Motorized		
Azimuth Drive Speed	Up to 2°/sec max		
Elevation Drive Speed	Up to 3°/sec max		
Polarization Drive Speed	Up to 5°/sec max		

ENVIRONMENTAL SPECIFICATION

Operational Wind	80 km/h
Survival Wind (in stow position)	200 Km/h
Ambient Temperature	-20 °C to +50 °C
Storage Temperature	-25 °C to +65 °C
Altitude	4000m AMSL operational
Relative Humidity	Up to 100%
Seismic (Survaival)	0.3 G's horizontal 0.15 G's vertical

OPTIONAL ACCESSORIES

Antenna Control Unit	Antech Space ASC0010 series
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