

# INVOLUTE

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## Precision antenna turner

- ▶ Precision antenna turners (PAT) or command antenna pedestals are used in the field of electronic communications for antenna manipulation in azimuth and /or elevation planes.
- ▶ Over the last twenty five years we have successfully commissioned more than 100 numbers of these antenna turners across the country.
- ▶ Antenna turners are available in the following models (single axis) azimuth, (Two axes) Elevation over azimuth, (Two axes) Azimuth over elevation, (3 axes) Dual elevation over azimuth.
- ▶ Antenna turners can be custom built with interface brackets depending on the payloads.
- ▶ Standard version of pedestal is supplied along with a Controller (with RS 232 Interface) and computer user interface.
- ▶ Positioning accuracy can be up to 0.1 degrees
- ▶ Backlash is less than 6 arc minutes.
- ▶ Prime movers are AC Brushless motors. Brushless motors are notable for their maintenance free operation (due to absence of brushes) and for low signal noise which is of paramount importance in antenna communications.
- ▶ Position feedback can be with an absolute encoder or with an incremental encoder integral with the prime mover.



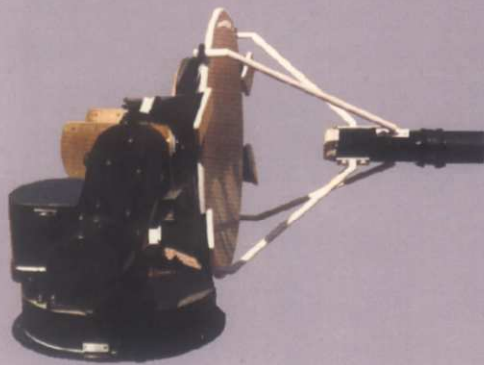
### \*Mode of operation

Velocity mode: PAT moves with a pre defined velocity.

Position mode: PAT moves to a predefined position with predefined velocity.

Inching mode: PAT moves by a predefined increment, every time it is commanded.

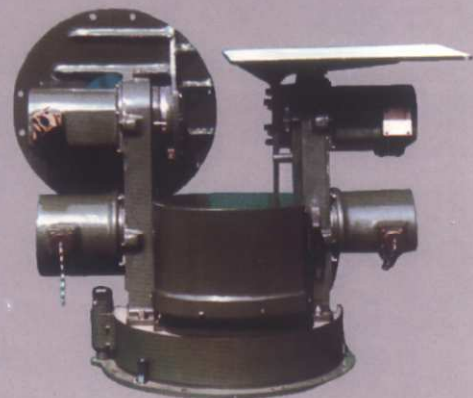
Program mode: PAT moves to 36 programmable positions with intermittent delay, one after the other.



ELEVATION OVER  
AZIMUTH



AZIMUTH



DUAL ELEVATION  
OVER AZIMUTH

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\*Other options include  
PAT with tracking mode  
PAT with Spin mode (RDF applications)  
PAT with 4U chassis controller