

A large, white, parabolic satellite dish antenna is mounted on a metal structure against a clear blue sky. The dish is the central focus, with other smaller antennas visible in the background. The text is overlaid in the center of the image.

**CALLAN  
TECHNOLOGY  
ANTENNA  
CONTROL  
APPLICATIONS**



## Antenna Control Applications with Callan Technology Motors

One typical application of Callan Technology DC Servomotors is Antennae control for satellite tracking and radio telescopes. The main characteristics for this type of application are:

- To drive at high speed between positions (i.e. when changing target)
- Retain position at low or zero speed against a force (example wind or gravity)
- Track at various speeds.



Utilising high-energy rare earth magnets, Callan Technology DC Servomotor Tachogenerators units provide precise motion control.

The construction allows these motors to be operated in harsh environmental conditions. Modifications can be catered for to allow fitting to any machine

Because of the field-proven history of Callan Technology motors many of the world leaders in Antenna Control use Callan Motors:

- Orbit Technologies
- Thales
- Elta Electronics
- Marconi

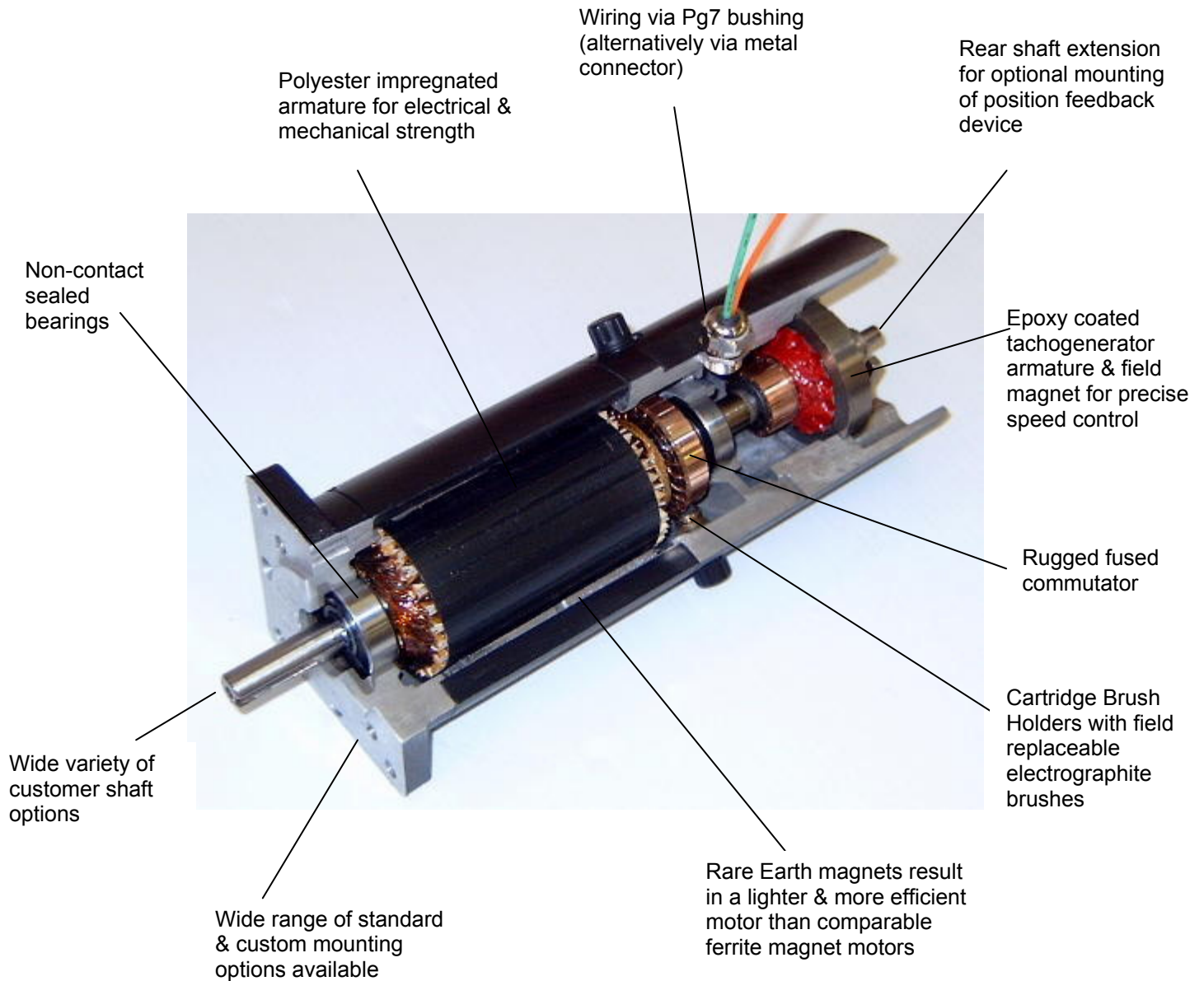


Callan Technology Motors are used on the azimuth and elevation drive axis in antenna control applications.

These motors can move large inertia loads to less than 1 r.p.m.



Callan Technology Motors are built to the highest design and manufacturing techniques. The 'cut-away' motor picture describes all the major sections of the DC Servomotor.





## CALLAN TECHNOLOGY PRODUCTS

### AS-80 DC Servo Drive



- 20 - 80V d.c Operation
- 8 amps continuous
- 15 amps peak
- Torque or Velocity Mode
- Tacho or Encoder Feedback
- Input Signal +/- 10V

### C4-16X Series

- 0.2 – 0.4 Nm Continuous
- 55 – 110 W
- 8000 rpm max. Speed
- 63 mm Diameter
- High Energy Rare Earth Magnets
- Available with or without Tach



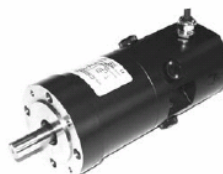
### M4-200X Series



- 0.4 – 1.6 Nm Continuous
- 90 – 300 W
- 6000 rpm max. Speed
- 75 mm Diameter
- High Energy Rare Earth Magnets
- Encoder mounting spigot provided
- Available with or without Tach

### M4-295X Series

- 2 – 8 Nm Continuous
- 750 – 1500 W
- 5000 rpm max. Speed
- 108 mm Diameter
- Exceptional Dynamic Performance
- High Energy Rare Earth Magnets
- Encoder mounting spigot provided
- Available with or without Tach



### M4-420X Series



- 10 – 30 Nm Continuous
- 1.5 – 2.6 kW
- 3200 rpm max. Speed
- 146 mm Diameter
- Exceptional Dynamic Performance
- High Energy Rare Earth Magnets
- Available with or without Tach