



MTQ 400

Main Features

- Demisable
- Low Cost
- Low Mass, Low Volume

Lusospace' MTQ400 is a demisable magnetorquer ideal for middle/large size spacecrafts (S/C). It generates a magnetic moment that can be used for S/C attitude control or reaction wheels offloading.

The magnetorquers are in-house designed, manufactured, and tested, and they can be customized to meet mission requirements.

Performance Specifications	
Magnetic Dipole	+/- 400 A.m ²
Linearity Error	<= 1.5%
Residual Magnetic Moment	<= 0.5%
Time Constant	<= 250 ms

Electrical Specifications	
Supply Voltage	Up to +/- 28V
Power consumption	<= 15 W
Number of Coils	1 or 2

Mechanical Specifications	
Mass	< 7 Kg
Dimensions (LxWxH)	950 x 80 x 80 mm
Mounting I/F	2 x M5 per support

Environmental Specifications	
Operating Temperature	-35 C to +65 C (Qualification)
Non-operating Temperature	-40 C to +80 C (Qualification)
Radiation Hardness	Up to 100 kRad

Qualification

The MTQ400 was developed for space applications up to a TRL 6 according to ECSS (ESA) and its design is free from any non-EU export restrictions.