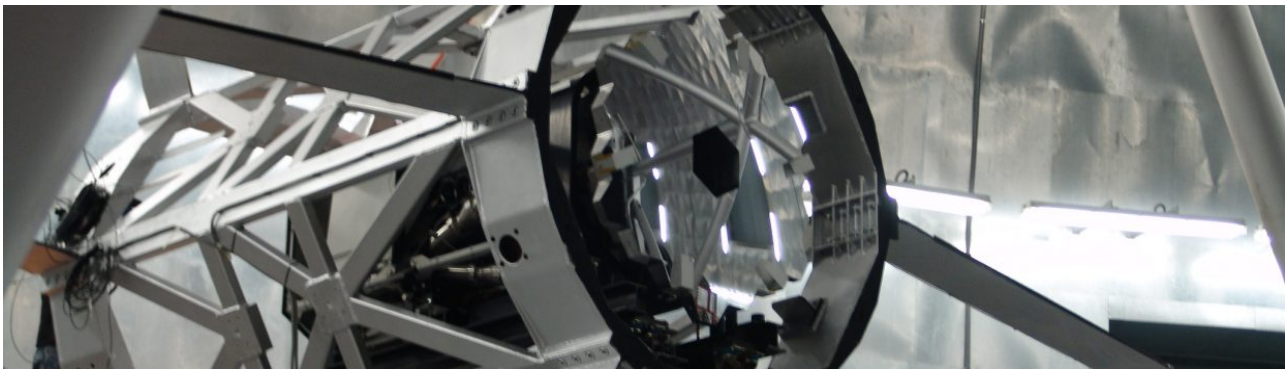




# GTC Secondary Mirror Drive System



SENER AEROSPACE & DEFENSE / ASTRONOMY AND SCIENCE / MIRROR CELLS / SPAIN

*GTC SECONDARY MIRROR DRIVE SYSTEM*

**Cliente: GRANTECAN**

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**País: Spain**

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The Secondary Mirror Drive System (M2DS) of the GTC consists of two main elements: a high-precision hexapode with field correction to drive a 1.2 m and 46 kg beryllium mirror.

The system is water-cooled, has integrated power and control electronics and heated external covers.

- Active alignment stage in 5 degrees of freedom with incremental accuracy of 1.5  $\mu\text{m}$  in displacements and 0.5  $\mu\text{rad}$  for rotation.
- Fast guiding for field corrections.
- Chopping motion up to 5 Hz for infrared observations with 0.02  $\mu\text{rad}$  repeatability and jitter below 1  $\mu\text{rad}$ .

## CHARACTERISTICS

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