

# TYPHOON ENCLOSURE



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**EOS is a leading manufacturer of large aperture beam directors and astronomical telescopes, lasers, enclosures and observatory systems.**

EOS provides robust, industrial grade control systems for remote and robotic telescope and observatory control. EOS observatory products are found in many astronomical and military space sensing systems around the world.

The Typhoon Enclosure is a two-axis, all-weather dome for unattended operations in harsh environments, allowing for full thermal control of the telescope inside. The dome uses an extended hemisphere construction to provide unprecedented strength, and is built using high strength, fiber reinforced polymers.



## Applications

- Astronomy
- Optical tracking
- Satellite laser ranging
- Laser communications

FEATURES	
Structure	<ul style="list-style-type: none"><li>• All weather and enclosed</li><li>• Suitable for remote, unmanned locations in harsh environments</li><li>• Standard and custom prefabricated towers</li><li>• Two axis with multiple windows and / or apertures</li><li>• Access stairs</li></ul>
Diameter	4.5m diameter standard, custom designs available
Windows	<ul style="list-style-type: none"><li>• Standard window positioning accelerations to 20°/sec<sup>2</sup> and speeds to 20°/sec</li><li>• Specifications are customizable</li></ul>
Operating environment	<ul style="list-style-type: none"><li>• High strength for 200km/h wind loads</li><li>• High thermal insulation for precise seeing control and telescope thermal conditioning</li><li>• Telescopes operate in an ideal, clean, controlled environment extending telescope MTBF (MTBF &gt; 60,000 operational hours when properly maintained)</li><li>• Optional seals for pressurized, dustproof operation to cleanroom specifications</li></ul>

**High Performance, High Reliability - 10 Year Mean Time Between Failure**

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