



OSM 5000

The OSM 5000 is the most powerful gyro-based stabilization platform ever developed by SOMAG and aims to stabilize heavy single- or multi-sensor payloads in marine settings. The Mount is equipped with high-precision built-in sensors to detect movements and automatically compensate them to keep the payload in a leveled position for razor-sharp imagery and comprehensive situational awareness.

TECHNICAL SPECIFICATIONS

Angular Stabilization Ranges	Pitch at 0° Roll: $\leq \pm 12.2^\circ$ 14.1° (optional) Roll at 0° Pitch: $\leq \pm 17.4^\circ$ 14.1° (optional) Yaw (Drift): no drift correction
Residual Deviation¹	$\leq 0.3^\circ$ rms
Payload²	300 kg 250 kg 200 kg 661 lbs 551 lbs 441 lbs
Continuous Torque	275 Nm
Dynamic Peak Torque³	550 Nm
Mass	54 kg 119 lbs
Dimensions	290 mm 11.42 in $\varnothing 665$ mm $\varnothing 26.18$ in
IP Class	IP 67
Operating Temperature	-32 °C ... +67 °C -22 °F ... +131 °F
Storage Temperature	-55 °C ... +85 °C -67 °F ... +185 °F
Communication Interfaces	Ethernet RS422 RS232 (optional)
Operational Voltage	48 VDC (44...52 VDC)
Average Power Consumption⁴ at Operational Voltage	100 W
Peak Power Consumption⁴ at Operational Voltage	950 W
Applied Standards	IACS E10, DNV GL, 2006/42/EC Machinery

Preliminary data, subject to change.

The technical specifications in the metric system represent the binding reference values. The imperial units are rounded approximations and are provided for reference only.

¹ Vehicle motion $\leq \pm 12^\circ$ / $12^\circ/\text{s}$ / $10^\circ/\text{s}^2$ - small periodical lateral accelerations (≤ 0.5 g) acceptable, constant lateral accelerations for more than 1 minute resulting from vehicle's turning maneuvers are compensated by internal or external GPS input. No GPS input could reduce the performance of the Mount during turning maneuvers.

² Possible payload weight depends on lateral acceleration and CoG of payload / shown data is based on 0.5 g lateral acceleration and a CoG payload offset to the Mount surface of: 370 mm (14.6 in) | 450 mm (17.7 in) | 550 mm (21.7 in)

³ Maximum duration 90 s at 55 °C surrounding temperature | longer if temperature inside the unit is $< 55^\circ\text{C}$

⁴ Horizontal payload CoG offsets are not considered; without wind force and other possible external forces

OSM 5000 OFFSHORE STABILIZATION MOUNT

**HIGHEST PAYLOAD STABILIZATION**

of SOMAG Marine
Gyro Stabilization Mounts

**IP class 67**

for high performance stabilization
in rough maritime environments

**TWO STABILIZATION RANGES AVAILABLE**

for best stabilization results tailored to
individual application

**ETHERNET INTERFACE**

for integration in ship's
infrastructure

Field of Application



MARINE

Application Examples



Pan/Tilt Surveillance
System



Radar System

**SCAN ME.**

Scan this QR-Code with
your phone to get further
information about the
OSM 5000 - Marine.

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