



Dynamic Marine Systems

Ahead in stabilisation



DMS Anti Rolling Gyro

ARG manufactured by TOHMEI

TECHNICAL SPECIFICATIONS & DIMENSIONS - ARG 250T & 250T-1



Download Video Brochure

Email: stabilisers@dmssalesuk.com

Office: 0044 (0)2380 970 970 • Mobile: 0044 (0)7740 100 870

Web: www.dmssalesuk.com

The ARG Gyro Range we represent is markedly different to most other gyros, it is simple to operate, easy to service and exceptionally robust.

A few key points about ARG Gyros are:

- **5 Years Extended Warranty**
- **Air Cooling**
- **Natural Precession Control**
- **Reliable, Robust & Uncomplicated**
- **No Complicated Hydraulics or Electrics**
- **No Vacuum Chamber**
- **No Water Cooling or Hull Openings**
- **Exceptionally Simple Operation**
- **Large 180 Degree Gimbal Angle**
- **Low Maintenance & Ultra-Life Bearings**
- **No Need to Remove for Servicing**
- **Exceptional Big Sea Performance**
- **Extremely Competitive Pricing**

DMS Anti Rolling Gyro

ARG 250T (220 - 240 VAC)
For Vessels from 30 - 45 Tonnes



DMS Anti Rolling Gyro

* Note: Selection of correct gyro unit can only be made following performance prediction from DMS/Gyro Manufacturer.

Anti Rolling Gyro
Model : MSM-25000T-B1

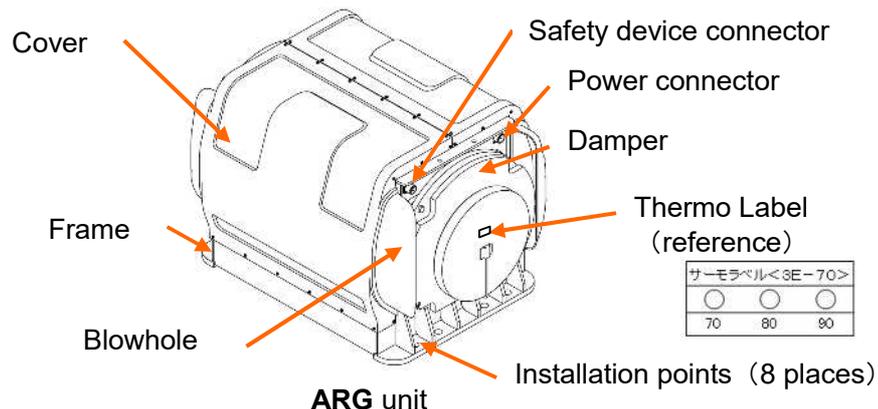
ARG 250T - GENERAL INFORMATION:

Item	Specifications
Name	ARG250T
Model	MSM-25000T-B1
Dimensions	700mm(height) x 1,020mm(width) x 720mm(depth) 27.6 inches(height) x 40.2 inches(width) x 28.3 inches(depth)
Weight	Approx. 700kg / 1543 lbs
Power supply	Supplied exclusive Motor Driver(MAA-2000/4000A-A200) (Single-phase 220 to 240VAC 50/60Hz) (Three-phase 200 to 240VAC 50/60Hz)
Ambient temperature	-10 to 40°C
Power consumption *1)	Single-phase : Approx. 4.8kW(Max) 3.5kW(Max) (Steady-state) Three-phase : Approx. 4.3kW(Max) 3.0kW(Max) (Steady-state)
Anti-Rolling Torque	Approx. 25,000 Nm (Max)
Angular momentum	Approx. 4,250 - 5,000Nms
Rotational speed	Approx. 3,200 - 3,750rpm
Noise *2)	80dBA maximum
Vibration *2)	1 m/s ² maximum
Performance	<ul style="list-style-type: none"> • The ARG suppresses rolling motion of the ship. • The ARG applies a principle that the Gyro torque (force) is generated by inclination of the flywheel rotating at high speed. • The ARG stops automatically in abnormal circumstances (excessive load, abnormal temperature, etc.).
Others	Start up duration to the rated speed: Approx. 40 minutes To stop the operation completely from the steady state: Approx. 60 minutes.

*1) Power consumption varies with the customer generator.

*2) Measurement as per TOHMEI's specification.

The measurements data depend on measurements conditions (installation place, measurements method, etc.).

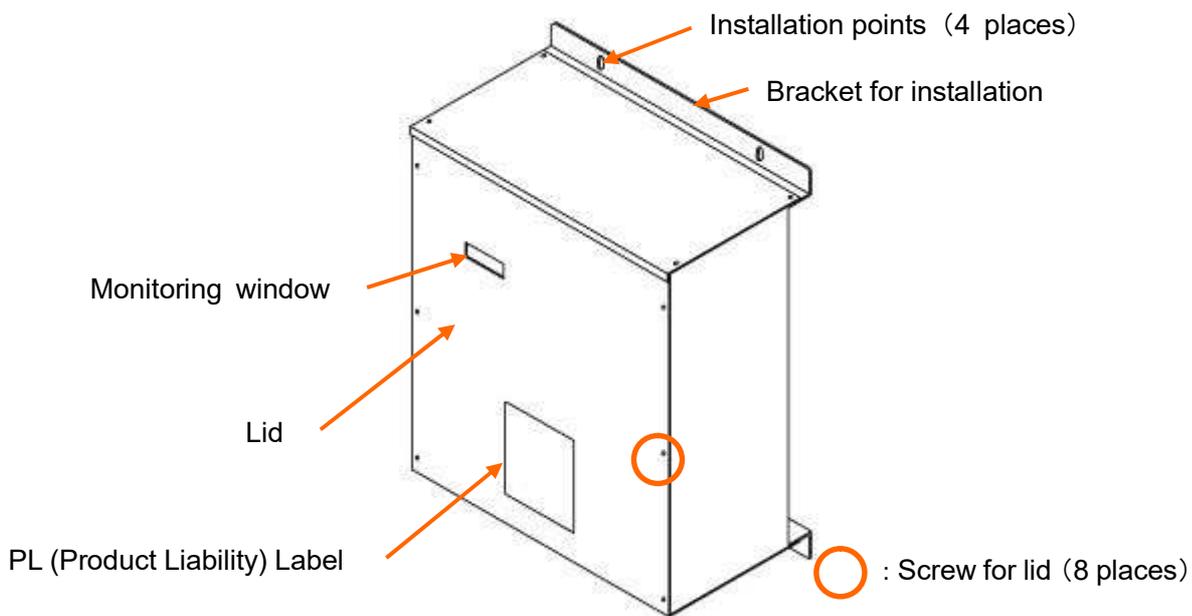


Anti Rolling Gyro
Model : MSM-2500T-B1

ARG 250T - MOTOR DRIVER:

Item	Specifications
Model	MAA-25000B-A200
Dimensions	400mm(height) x 350mm(width) x 180mm(depth) 15.7 inches(height) x 13.8 inches(width) x 7.1 inches(depth)
Weight	Approx. 15kg / 33.1 lbs
Control method	Inverter control
Ambient temperature	-10 to 40°C
Humidity	5 to 95% (with no condensation)
Atmosphere	Do not be exposed to dust, direct sunlight, corrosive or flammable gases, oil mist, vapor or water drops. (Pollution Degree 2 (IEC60664-1))
Power supply *3)	Single-phase 220 to 240VAC 50/60Hz Three-phase 200 to 240VAC 50/60Hz
Options (outer connecting terminal) (Please prepare by customer)	① Remote switch: connect to the Motor Driver to remote control the ARG operation (ON/OFF). The ARG can be switched on /off by this remote switch. ② Start check lamp: connect to the Motor Driver to make sure the ARG is in operation or not. ③ Rotation rate check lamp: connect to the Motor Driver to make sure the ARG had reached the rated rotational speed (steady state) or not.
Others	The ARG's operating condition is checked by Monitoring window.

*3) The Motor Driver is able to use both single-phase and three-phase. Please choose appropriate power input as needed.

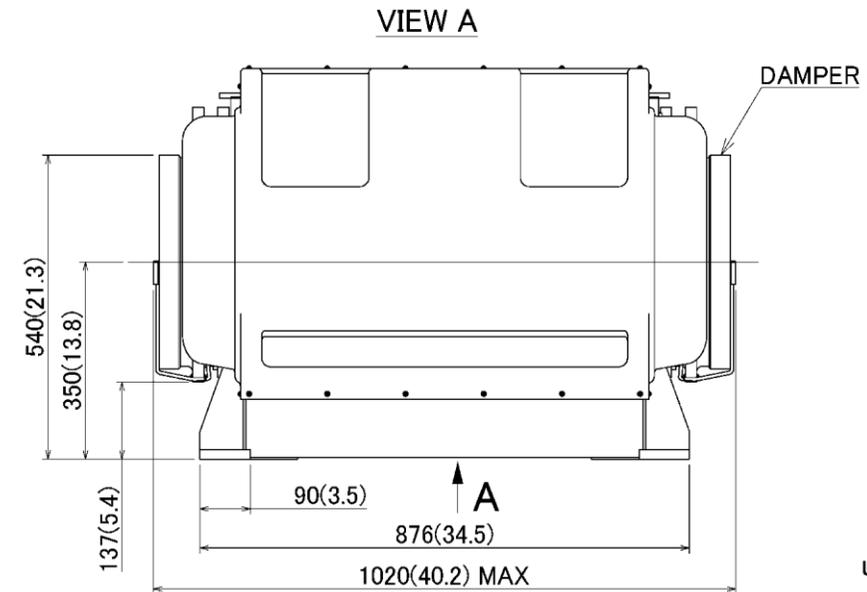
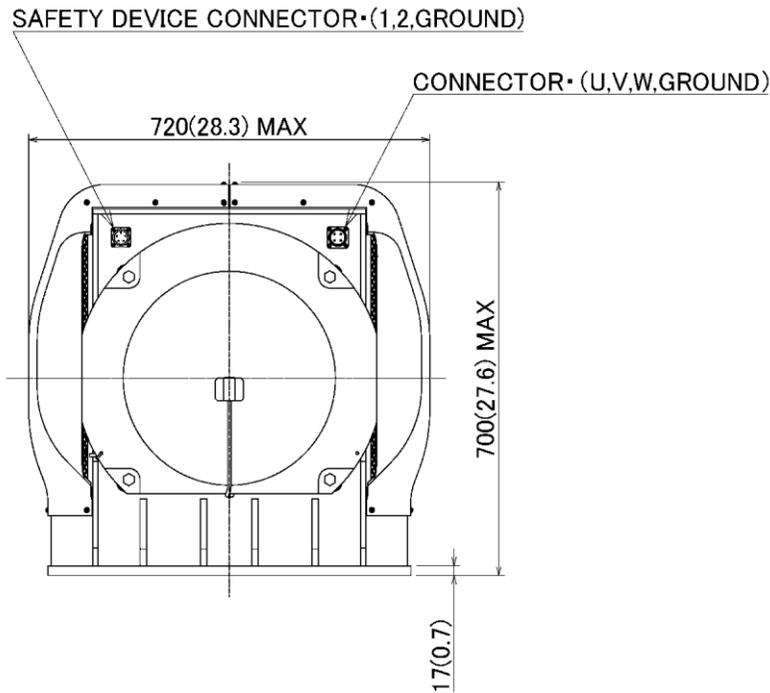
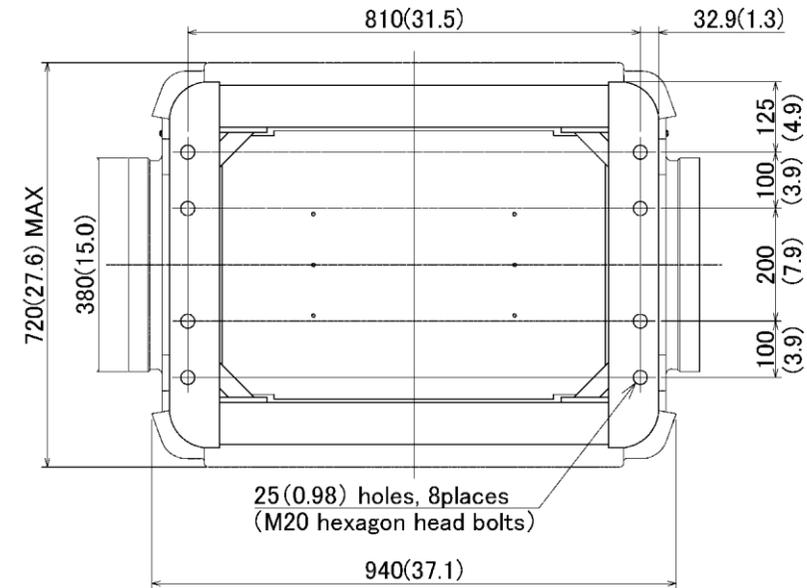


Motor Driver

MSM-25000T-B1 Specifications

Name	ARG250T
Model	MSM-25000T-B1
Angular momentum	Approx. 5,000 Nms
Anti-Rolling Torque	Approx. 25,000 Nm (MAX)
Dimensions height × width × depth	700 mm × 1,020 mm ^(*) × 720 mm 27.6 inches × 40.2 inches × 28.3 inches
Weight	Approx. 700 kg / 1,543 lbs
Rotational speed	Approx. 3,750 rpm
Power consumption (Steady-state)	Approx. 3.5 kW / For single-phase Power supply@220-240VAC Approx. 3.0 kW / For three-phase Power supply@200-240VAC
Power consumption (MAX)	Approx. 4.8 kW / For single-phase Power supply@220-240VAC Approx. 4.3 kW / For three-phase Power supply@200-240VAC

(*) Include the SAFETY DEVICE



unit:mm(inch)

MSM-25000T-B1

名称 TITLE

**Anti Rolling Gyro
MSM-25000T-B1**

ARG 250T-1 (220 - 240 VAC)
For Vessels from 30 - 45 Tonnes

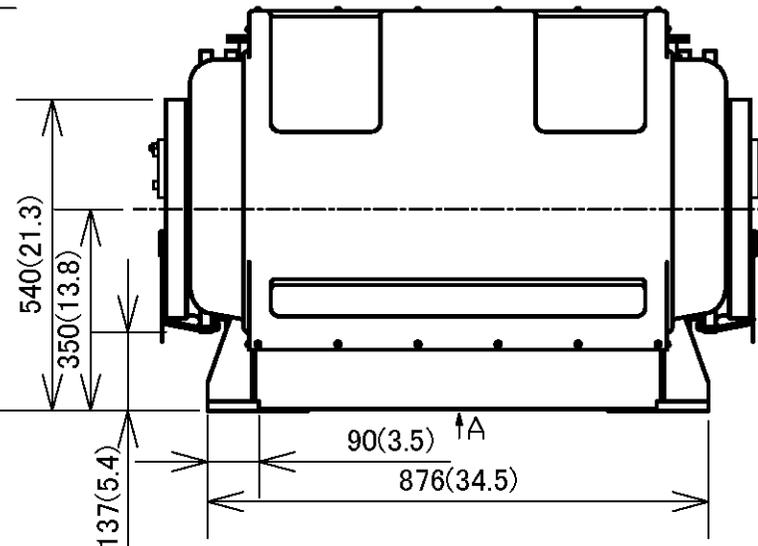
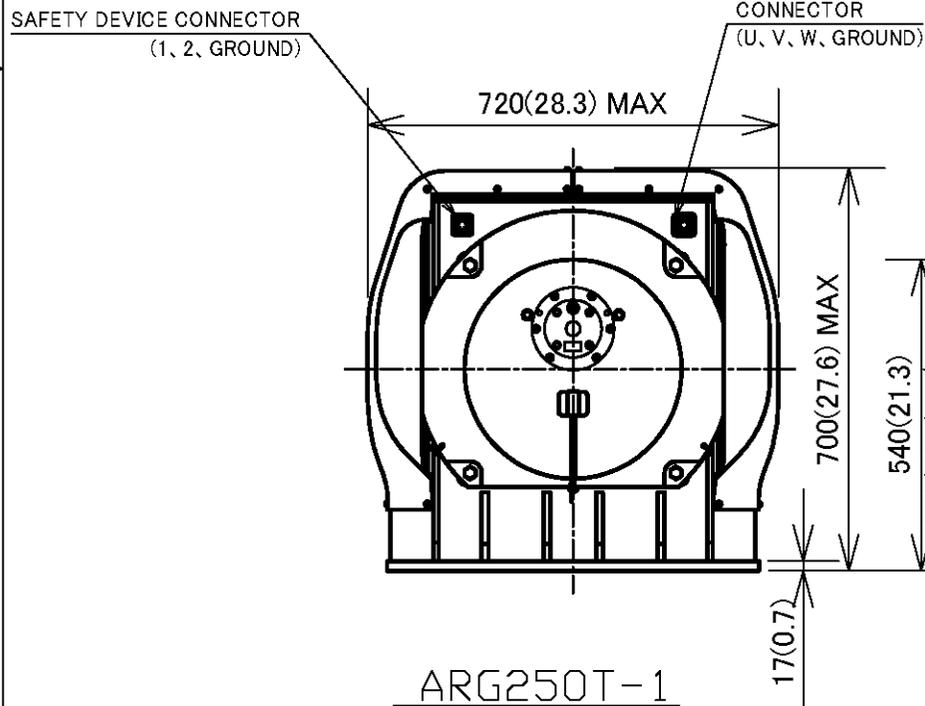
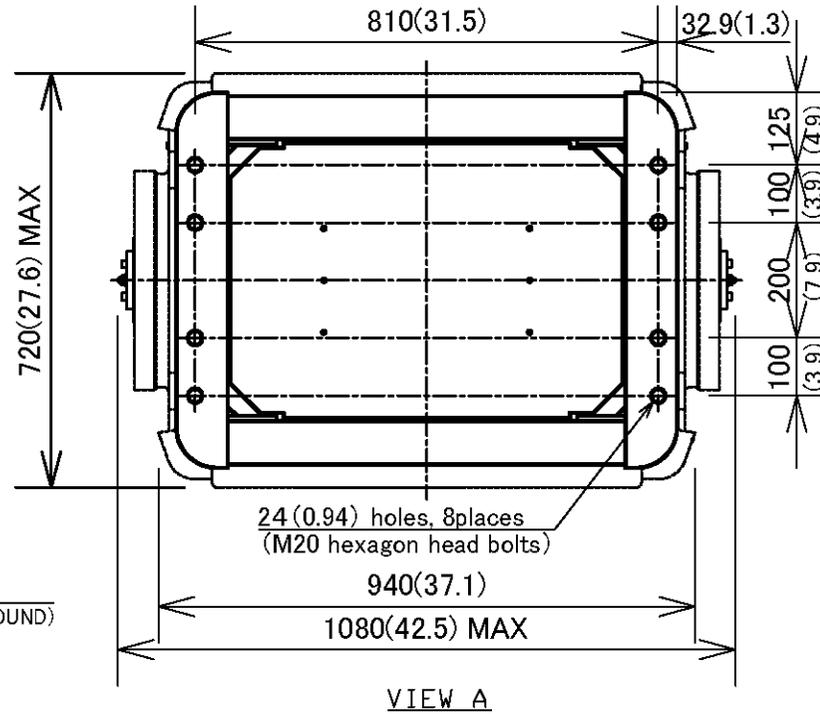


DMS Anti Rolling Gyro

* Note: Selection of correct gyro unit can only be made following performance prediction from DMS/Gyro Manufacturer.

ARG250T-1 Specification
(For Low wave height)

Name	ARG250T-1
Model	MSM-25000T-B1
Angular Momentum	Approx. 5,000Nms
Anti-Rolling Torque	Approx. 25,000Nm(Max)
Dimensions	700mm × 1,080mm × 720mm
Weight	Approx. 700kg
Rotation Speed	Approx. 3,750rpm
Power Consumption (Steady-state)	Approx. 3.5kW/For single-phase Power Supply @220-240VAC Approx. 3.0kW/For three-phase Power Supply @200-240VAC
Power Consumption (Max)	Approx. 4.8kW/For single-phase Power Supply @220-240VAC Approx. 4.3kW/For three-phase Power Supply @200-240VAC



unit : mm(Inch)

名称 TITLE
Anti Rolling Gyro
250T-1