



# Dynamic Marine Systems

Ahead in stabilisation



## DMS Anti Rolling Gyro

ARG manufactured by TOHMEI

**TECHNICAL SPECIFICATIONS & DIMENSIONS - ARG 375T**



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**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 375T (220 - 240 VAC)**  
**For Vessels from 45 - 60 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-37500T-A1**

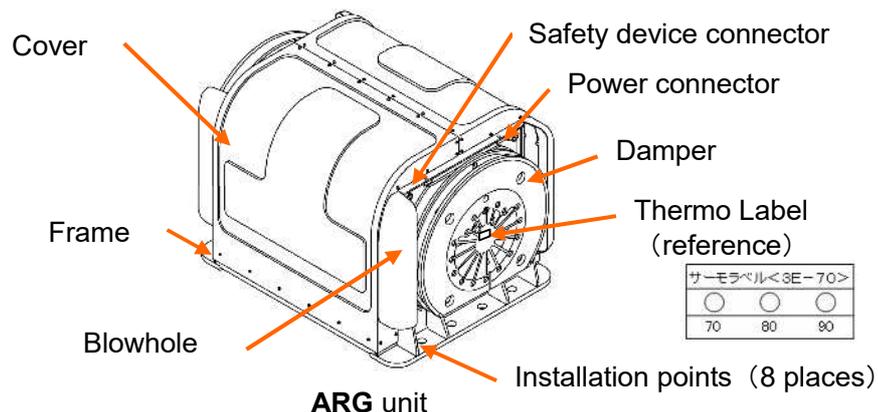
**ARG 375T - GENERAL INFORMATION**

Item	Specifications
Name	<b>ARG375T</b>
Model	MSM-37500T-A1
Dimensions	780mm(height) x 1,120mm(width) x 830mm(depth) 30.7 inches(height) x 44.1 inches(width) x 32.7 inches(depth)
Weight	Approx. 910kg / 2006 lbs
Power supply	Supplied exclusive Motor Driver(MAA-7500A-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. 5.5kW(Max) 4.5kW(Max) (Steady-state) Three-phase : Approx. 5.2kW(Max) 4.3kW(Max) (Steady-state)
Anti-Rolling Torque	Approx. 37,500 Nm (Max)
Angular momentum	Approx. 6,600 - 7,500Nms
Rotational speed	Approx. 2,900 - 3,250rpm
Noise *2)	80dBA maximum
Vibration *2)	1 m/s <sup>2</sup> maximum
Performance	<ul style="list-style-type: none"> <li>• The <b>ARG</b> suppresses rolling motion of the ship.</li> <li>• The <b>ARG</b> applies a principle that the Gyro torque (force) is generated by inclination of the flywheel rotating at high speed.</li> <li>• The <b>ARG</b> stops automatically in abnormal circumstances (excessive load, abnormal temperature, etc.).</li> </ul>
Others	Start up duration to the rated speed: Approx. 45 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.).

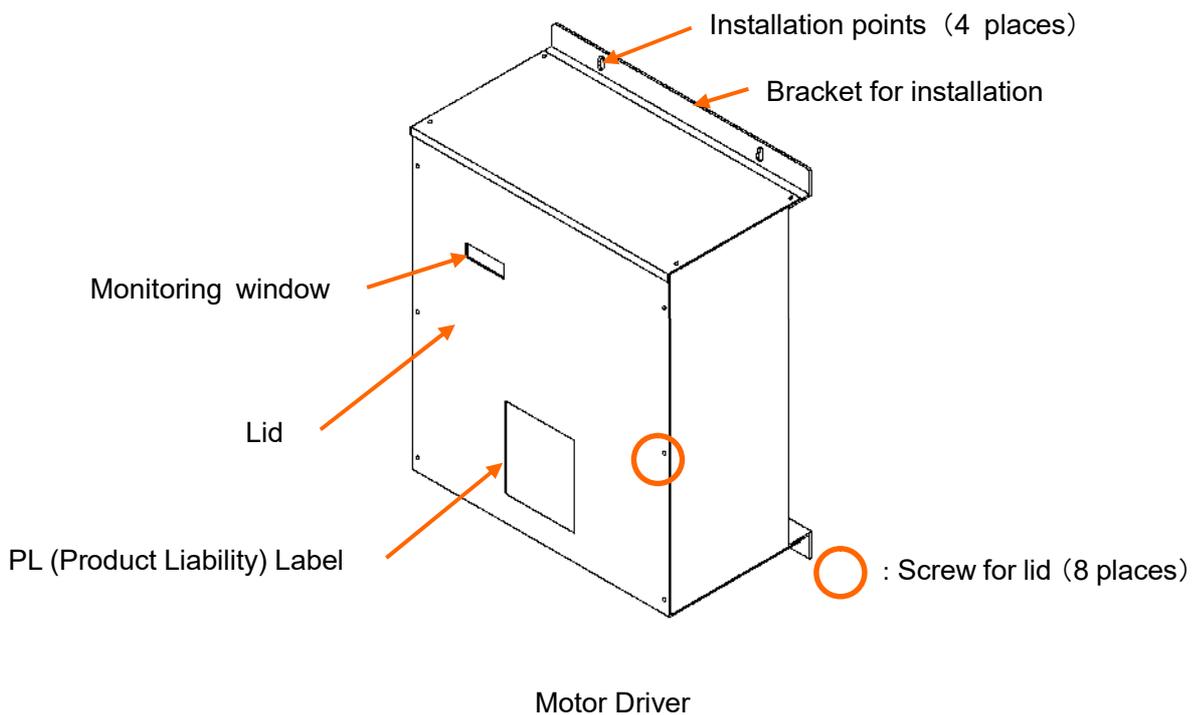


**Anti Rolling Gyro**  
**Model : MSM-37500T-A1**

**ARG 375T - MOTOR DRIVER**

Item	Specifications
Model	MAA-7500A-A200
Dimensions	450mm(height) x 400mm(width) x 200mm(depth) 17.8 inches(height) x 15.8 inches(width) x 7.9 inches(depth)
Weight	Approx. 18kg / 40 lbs
Control method	MAA-7500A-A200
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 <b>ARG</b> operation (ON/OFF). The <b>ARG</b> can be switched on /off by this remote switch. ② Start check lamp: connect to the Motor Driver to make sure the <b>ARG</b> is in operation or not. ③ Rotation rate check lamp: connect to the Motor Driver to make sure the <b>ARG</b> had reached the rated rotational speed (steady state) or not.
Others	The <b>ARG</b> 's operating condition is checked by Monitoring window.

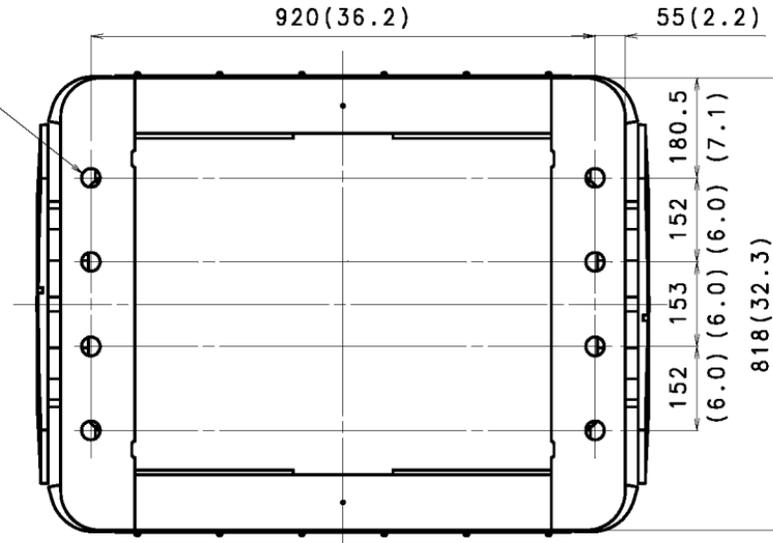
\*3) The Motor Driver is able to use both single-phase and three-phase. Please choose appropriate power input as needed.



# MSM-37500T-A1 specifications

Name	ARG375T
Model	MSM-37500T-A1
Angular momentum	Approx. 7500Nms
Anti-Rolling Torque	Approx. 37500Nm(MAX)
Dimensions	1120mm(width)x830mm(depth)x780mm(height) 44.1inches(width)x32.7inches(depth)x30.8inches(height)
Weight	Approx. 910kg/2006lbs
Rotational speed	Approx. 3250rpm
Power consumption (Steady-state)	Approx. 4.5kW / For single-phase Power supply220-240VAC Approx. 4.3kW / For three-phase Power supply200-240VAC
Power consumption (MAX)	Approx. 5.5kW / For single-phase Power supply220-240VAC Approx. 5.2kW / For three-phase Power supply200-240VAC

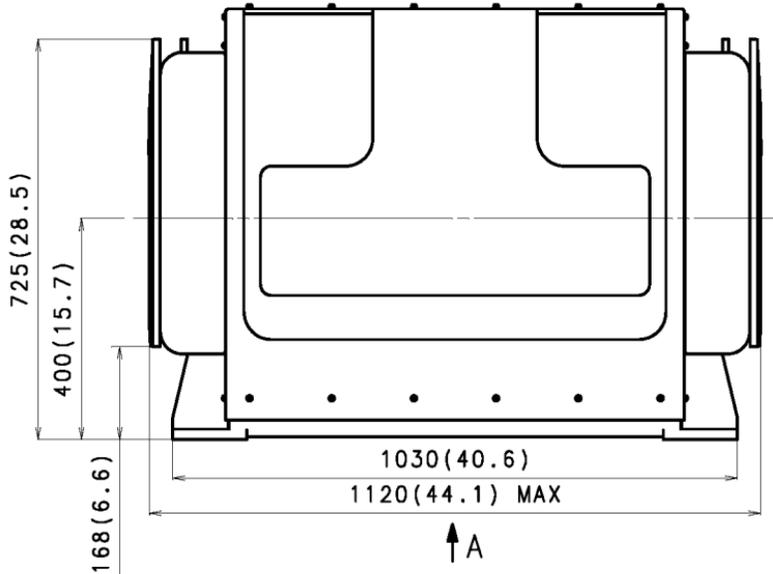
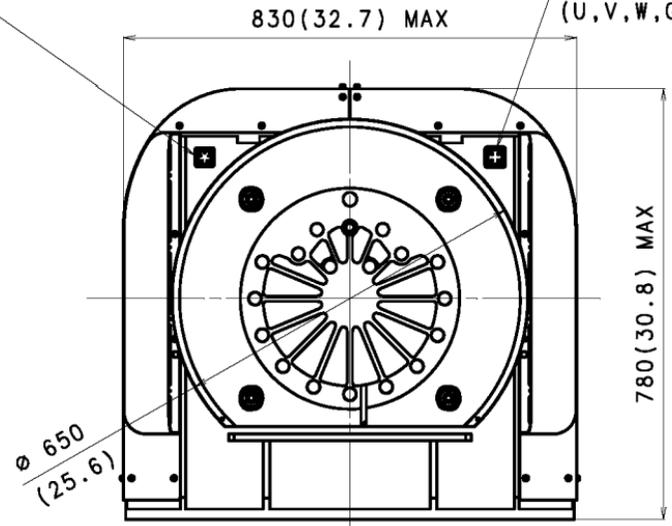
8- $\phi$ 34  
(8- $\phi$ 1.3)



VIEW A

SAFETY DEVICE CONNECTOR  
(1,2,GROUND)

POWER CONNECTOR  
(U,V,W,GROUND)



↑ A

unit:mm(inch)

MSM-37500T-A1

名 稱 TITLE	Anti Rolling Gyro MSM-37500T-A1
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