





FEEL THE MAGIC

THE FUTURE OF MARINE STABILIZATION

Enhancing operational efficiency - and safety - with advanced gyro stabilizers

Smartgyro gyro stabilizers optimize maritime operations for commercial vessels, such as military, patrol and passenger boats. The cutting-edge technology offers significant benefits to ship owners and operators, with improved performance and exceptional stability enhancing efficiency and safety at sea.

Founded in 2014 and based in La Spezia (Italy), Smartgyro is backed by strategic partner YANMAR and its companies, including VETUS, Maxwell and Flexofold.



IMPROVED NAVIGATION AND SAFETY

Smartgyro's superior stability improves sensor and radar accuracy for precise navigation and ultimate safety



INCREASED LONGEVITY

Reduced wear and tear on the vessel means less maintenance and an extended life cycle



(a) INCREDIBLE VERSATILITY

Designed for a wide range of commercial vessels – user-friendly, quick and easy to install



ENHANCED PRODUCTIVITY

Minimal vessel movement helps to decrease crew fatigue - promoting safer and more efficient operations

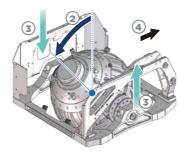
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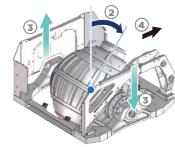
HERE IS THE KEY CONCEPT

When the boat rolls, it forces the gyroscope to change its orientation, resulting in a precession motion that generates a torque opposing this change of orientation.









- 1 Boat tilt
- 2 Precession angle
- 3 Anti-roll torque
- 4 Bow



ENHANCED STABILITY

Smartgyro actively stabilizes the vessel by reducing roll motion, ensuring a steady platform even in rough waters. This is vital for precision tasks, such as offshore construction or research operations.

INCREASED SAFETY

By reducing roll, Smartgyro improves safety by lowering the risk of accidents, keeping cargo secure, and helping crew members maintain their balance.

MINIMIZED CREW FATIGUE

Gyros significantly reduce vessel roll, which decreases motion sickness and fatigue among crew members. A well-rested crew operates more efficiently and with fewer errors.



IMPROVED FUEL EFFICIENCY

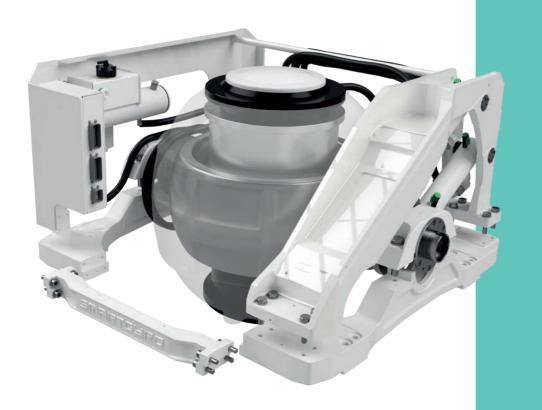
With less rolling, drag is reduced, leading to more efficient fuel consumption, cost savings, and a smaller environmental footprint – especially for workboats on extended operations.

HIGHER PRODUCTIVITY

Stability improvements allow vessels to operate longer and in different sea states where you might need to slow down or delay operations.

EASY INSTALLATION AND INTEGRATION

Smartgyro can be easily retrofitted or fitted to new builds without major modifications, making it a flexible solution for various workboat sizes and configurations.



WHAT MAKES SMARTGYRO SPECIAL?

Every second counts in the challenging world of commercial marine operations. That's why Smartgyro is designed to minimise not only unwanted movement, but also downtime during maintenance.

EXISTING BOATS

The base frame can be broken down into four parts to allow for installation through narrow access hatches, making refitting easier and more cost-efficient.

NEW BOATS

he unit's compact dimension allows boat builders be easily integrate Smartgyro into vessel design, acluding taking advantage of empty hull space.





MODULAR DESIGN

For easy assembly, servicing and maintenance inside the boat, reducing the need for downtime or expensive haul outs



LIQUID COOLING

Removes heat generated by the motor, bearings, invertor and hydraulic manifold



VACUUM FLYWHEEL ENCLOSURE

The built-in pump automatically restores the vacuum, ensuring top performance at all times



GYRO CONTROL MODULE

Monitors and processes boat behaviour data in real time



DRIVING PERFORMANCE

Stops the gyro's counteracting forces during quick turns for a smoother ride

CONTROL YOUR SMARTGYRO

Effortlessly manage Smartgyro's features with intuitive controls

Operators can easily navigate Smartgyro's key functions through an intuitive graphic user interface. Each Smartgyro unit comes equipped with a 5-inch touchscreen display or can seamlessly connect to multifunctional displays (MFDs).





PREMIUM WARRANTY



Committed to keeping your maritime operations running smoothly, Smartgyro offers a tailored 1 year/1000 hours warranty program for commercial applications. For detailed information, please contact the Smartgyro team.

SMARTGYRO THE FUTURE OF MARINE STABILIZATION GLOBAL NETWORK Smartgyro has a worldwide distribution network. To find a dealer near you, please go to the website: www.smartgyro.com/find-dealer

BACKED BY A GLOBAL LEADER

Smartgyro is part of YANMAR.

YANMAR is a privately-held, multinational company with headquarters in Osaka, Japan.











SMARTGYRO THE FUTURE OF MARINE STABILIZATION

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SPECIFICATIONS



5520







5580





Target boat
Maximum rated speed
Angular momentum at max. rated speed
Max. anti-rolling torque at max. rated speed
"Spool-up" time to max. rated speed
"Spool-up" time to stabilization
Input voltage (AC)
Control DC power input
14 " 1 " 10 (4)

"Spool-up" time to stabilization
Input voltage (AC)
Control DC power input
Max. "spool-up" AC power (*)
Operating AC power (*) (**)
Control DC power ("spool-up" and operating
Sea water supply

Operating temperature
Envelope dimensions
Weight

Noise output

45 - 55' or up to 25 tons	50 - 60' or up to 4
9.500 RPM	7.500 RPM
5.900 Nms	9.100 Nms
15.500 Nm	19.000 Nm
55 minutes	55 minutes
35 minutes (65% of rated speed)	25 minutes (65% of
115V nominal, 50/60 Hz, single phase 220V nominal, 50/60 Hz, single phase	220V nominal, 50/
12 Vdc	24 Vdc
3.5 kW	4.0 kW
1.5 - 2.5 kW	1.5 - 2.5 kW
150 W (including display)	150 W (including d
15 (min) - 30 (max) LPM [4 (min) - 8 (max) GPM]	15 (min) - 30 (max) [4 (min) - 8 (max)
0 - 55 °C [32 - 131 °F]	0 - 60 °C [32 - 140
0.76 x 0.77 x 0.65 m [29.9 x 30.3 x 25.6 in]	0.86 x 0.93 x 0.72 ı
495 kg [1091 lbs]	650 kg [1430 lbs]

70 - 72 dBC @ 1 meter

0 - 60' or up to 40 tons
500 RPM
.100 Nms
9.000 Nm
5 minutes
5 minutes (65% of rated speed)
20V nominal, 50/60 Hz, single phase
4 Vdc
.0 kW
5 - 2.5 kW
50 W (including display)
5 (min) - 30 (max) LPM
4 (min) - 8 (max) GPM]
- 60 °C [32 - 140 °F]
00 0 [02 140 1]
.86 x 0.93 x 0.72 m [34.0 x 36.5 x 28.4 in]

68 - 70 dBC @ 1 meter

5 - 65' or up to 50 tons
.500 RPM
2.500 Nms
4.300 Nm
5 minutes
7 minutes (65% of rated speed)
20V nominal, 50/60 Hz, single phase
4 Vdc
.5 kW
.0 - 3.3 kW
50 W (including display)
5 (min) - 30 (max) LPM
4 (min) - 8 (max) GPM]
- 60 °C [32 - 140 °F]
08 x 1.11 x 0.87 m [42.4 x 43.7 x 34.3 in]
10 kg [2006 lbs]
8 - 70 dBC @ 1 meter

60 - 70' or up to 60 tons
5.500 RPM
15.400 Nms
42.300 Nm
50 minutes
27 minutes (65% of rated speed)
220V nominal, 50/60 Hz, single phase
24 Vdc
4.9 kW
2.0 - 3.5 kW
150 W (including display)
15 (min) - 30 (max) LPM
[4 (min) - 8 (max) GPM]
0 - 60 °C [32 - 140 °F]
1.08 x 1.11 x 0.87 m [42.4 x 43.7 x 34.3 in]
980 kg [2160 lbs]
68 - 70 dBC @ 1 meter

) - 85' or up to 75 tons
000 RPM
3.000 Nms
3.200 Nm
) minutes
5 minutes (65% of rated speed)
80V nominal, 50/60 Hz, three phase
1 Vdc
0 kW
0 - 5.0 kW
50 W (including display)
) (min) - 30 (max) LPM
i.5 (min) - 8 (max) GPM]
- 60 °C [32 - 140 °F]
36 x 1.41 x 1.02 m [53.5 x 55.5 x 40.1 in]
70 kg [3902 lbs]

72 - 74 dBC @ 1 meter

80 - 95' or up to 100 tons
5.000 RPM
37.000 Nms
90.100 Nm
80 minutes
55 minutes (65% of rated speed)
380V nominal, 50/60 Hz, three phase
24 Vdc
6.8 kW
3.0 - 5.0 kW
250 W (including display)
35 (min) - 55 (max) LPM
[9 (min) - 15 (max) GPM]
0 - 60 °C [32 - 140 °F]
1.36 x 1.41 x 1.02 m [53.5 x 55.5 x 40.1 in]
1960 kg [4321 lbs]

72 - 74 dBC @ 1 meter



www.smartgyro.com/products

(*) Sea water pump excluded (**) Sea state dependent

VISIT smartgyro.com



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