

Sperry Marine

Magnetic Compass Systems



**Accurate, Reliable and Durable
Compass Systems**

Magnetic Compass Systems

A wide range of compass equipment to provide the ultimate in dependability

With a long history of expertise in navigational systems, Northrop Grumman Sperry Marine has an unrivalled reputation for providing equipment to suit the specific needs of mariners.

Our magnetic compass equipment has evolved over many years to provide accurate and reliable compass systems. The range includes the legendary Jupiter magnetic flat glass compass, a range of binnacles, a fluxgate pick-off, bypass arrangements and azimuth devices.

The system offers many benefits, including:

- Reliability and durability
- Wide range of products
- Type-approved
- Full support

Reliability and Durability

With over 135 years' experience of working with mariners, we have a deep understanding of what our customers want and need in their compass equipment, for all kinds of vessels, in all conditions.

Above all, you can rely on Northrop Grumman Sperry Marine's magnetic compass equipment to provide the essential information you depend on. We manufacture our equipment to deliver rugged construction and dependable performance, combined with the essential accuracy you require.

Wide Range of Products

The knowledge and expertise we have gained over many years has enabled us to develop a comprehensive range of magnetic compass equipment:

- The Jupiter Flat Glass Magnetic Compass
- NAVIPOL Magnetic Compass Binnacles
- Fluxgate with integrated sine/cosine interface
- Universal Digital Repeaters
- Analogue Repeaters
- Azimuth Device

Jupiter Flat Glass Magnetic Compass

The robust and reliable Jupiter flat glass magnetic compass features a bearing compass, steering compass, reflector compass and overhead compass. This is a 'Class A' compass with a card diameter of 180 mm and

accuracy better than 0.5°, and a weight of just 8.8 kg. It may be installed in all NAVIPOL binnacles, or within the wheelhouse.

NAVIPOL Magnetic Compass Binnacles

We have designed the NAVIPOL range of binnacles to provide durable performance in the most demanding conditions. You can also choose whichever binnacle arrangement best suits your classification needs and particular requirements.

NAVIPOL I Steering and Bearing Compass Binnacle with Bypass Arrangement.

A reflector binnacle made of seawater-resistant aluminium alloy with reflector tube.

Reflector tubes are available in the following lengths: 1000, 1500 and 2000mm.



Jupiter magnetic compass



NAVIPOL II Bearing Compass Reflector Binnacle. A bearing binnacle made of seawater-resistant aluminium alloy.

NAVIPOL III Steering and Bearing Compass Binnacle with Window. A steering and bearing binnacle, with a window, made of seawater-resistant aluminium alloy.

The Fluxgate with Integrated Sine/Cosine Interface

The optional Sperry Marine fluxgate incorporates a fully-integrated sine/cosine interface for the transmission of the magnetic heading signal.

A Jupiter magnetic compass with a fluxgate pick-off, combined with a NAVITWIN V Heading

Management System, provides an ideal independent back-up heading source in gyrocompass systems for distribution to autopilots, repeaters, radars and other peripheral appliances.



Universal Digital Repeater

The Universal Digital Repeater is available as a console version and in a watertight housing with bracket attachment.

Analogue Repeater

Magnetic heading console repeater. For permanent indication of magnetic heading.

Azimuth Devices

Prismatic azimuth device PV24, in transport box.



Magnetic Speed Boat Compass (MARS):

The MARS is a hemispherical magnetic compass designed especially for application under difficult operational conditions. The compass is very accurate and reliable, even at high speeds and during great acceleration and extreme vessel movement, and is extremely insensitive to shock and vibration.

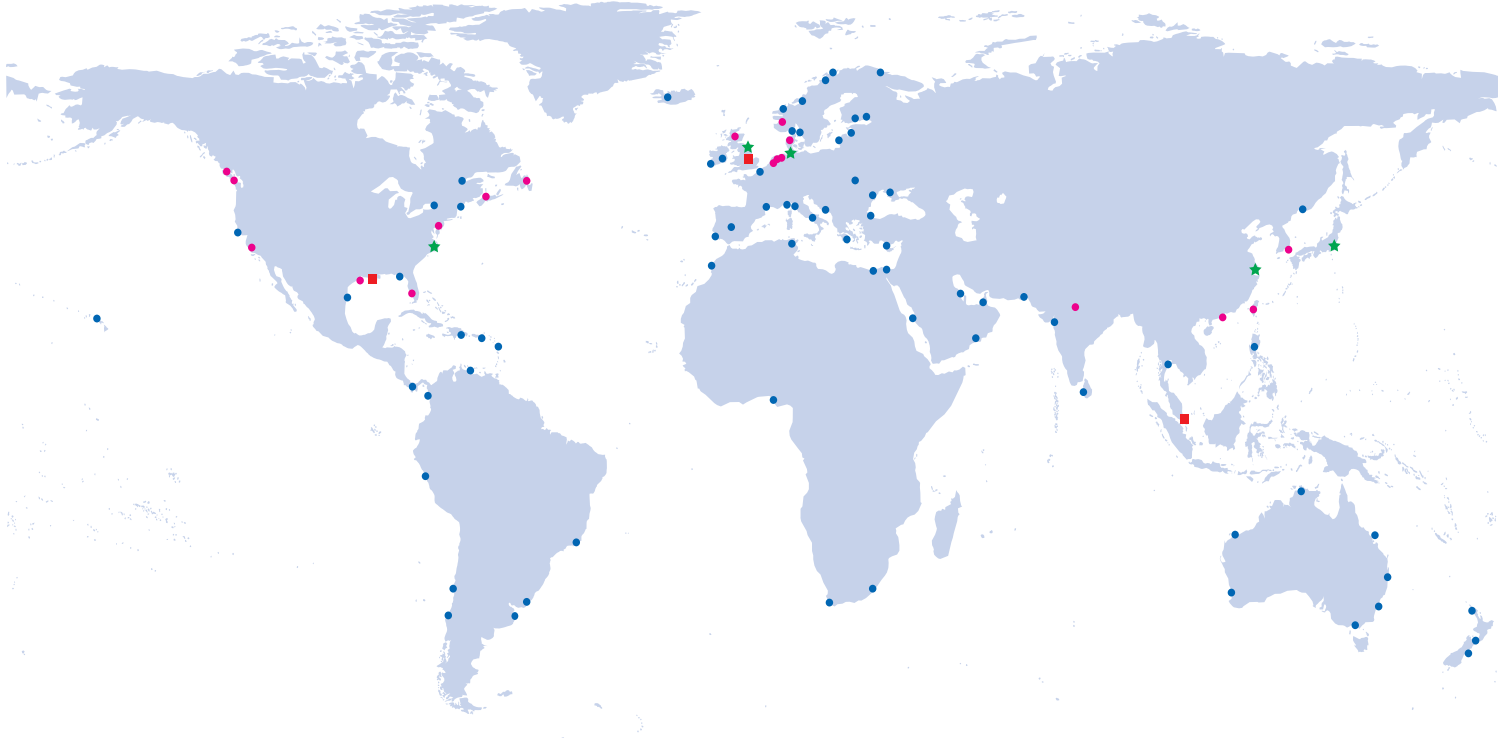
Fitted to the top of the cast aluminium housing is a glass hemisphere; the base of the compass is of glass or plexiglass (with fluxgate). The combination of the compass liquid and hemispherical glass cover enlarge the compass card so that it appears to be 125 mm in diameter.

Type-Approved

All Northrop Grumman Sperry Marine magnetic compass systems' equipment is type-approved by Germanischer Lloyd to Marine Equipment Directive (MED) 96/98/EC.

Total Support: 24/7/365

As with all Northrop Grumman Sperry Marine systems and products, our range of magnetic compass systems is supported by one of the world's most extensive worldwide service networks, with help available around the clock, 24 hours a day, 365 days a year. Our global service network provides prompt shipboard maintenance and repair services in every major seaport in the world. We also offer comprehensive maintenance contracts, as well as support for all products for at least ten years after any is discontinued, so providing continuing peace of mind to all our customers.



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A division of the Northrop Grumman Corporation, Sperry Marine provides a range of sophisticated navigation solutions for mariners around the world: autopilot and steering control systems, compass systems, integrated bridge and platform management systems, speed/velocity logs, navigation radar and ECDIS. Working with mariners around the globe for over 100 years.

Specifications and features subject to change without notice.
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