

Helicon-X3 propulsion control system upgrades

Marine services

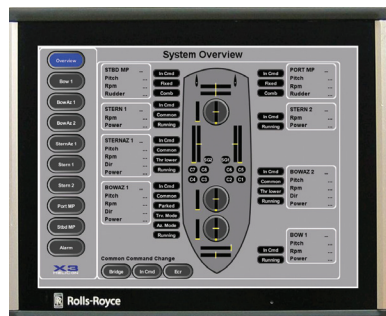
Helicon-X3

This system is the latest in the series of Rolls-Royce propeller and thruster control. Systems for azimuth thrusters, tunnel thrusters, auxiliary thrusters and shaft line propulsion can all be upgraded to Helicon-X3. The Helicon-X3 manoeuvring station is comprised of one control lever per propeller or thruster, and a touchscreen which can be used to manage several propellers and thrusters.



Control levers

The compact ergonomic design has integrated pushbuttons for key functions including command transfer, alarm acknowledge and back-up control on/off. Levers require very little space therefore can be integrated easily into existing bridge or pilot house layouts.



Touch screen

The 10.4 inches screen gives overall status of propulsion systems, warnings and alarms. Separate views can be selected for more detail on each propeller or thruster.



Upgrading propulsion control systems helps vessels and rigs to remain safe, reliable and competitive. All upgrades are tailored to customer requirements and can be supplied as turnkey solutions anywhere in the world.

The system is able to switch automatically between normal and back-up control (both are follow-up control systems) in order to provide redundancy. This can also be performed manually. In addition, analogue indicators are fed through a separate independent loop driven from the back-up element of the control system. This provides a redundant indication system to the indicators on the touch screen. Indicators with illuminated scale (96x96mm) are available for the bridge desk or in overhead consoles.

Cable installation is simplified and reduced through the use of serial line communications. Helicon-X3 and Rolls-Royce Dynamic Positioning systems integrate through a standard platform and standard network interfaces. Helicon-X3 can also be supplied with conventional hardwired interfaces for other DP systems. Helicon-X3 has standard RS422 serial line interfaces with alarm plant, conning display, VDR etc. using NMEA 0183 protocol.

Benefits of upgrading to Helicon-X3

- Compact levers and touch screens are located close to the navigator, making them easier to reach and operate. This contributes to safe operation of the ship.
- Helicon-X3 is based on the Rolls-Royce Common Control Platform, using standard modules. If a vessel is equipped with a range of Rolls-Royce products, fewer spare parts need to be carried on board.
- The latest products are supported with global spare parts and service 24/7. Rolls-Royce is well positioned to respond quickly.
- Upgrading results in less wear and tear on thrusters, therefore less maintenance is required and the risk of incident or breakdown is reduced.
- Rolls-Royce uses its knowledge and experience in complete vessel and system design to adjust Helicon-X3 and the propellers or thrusters for optimal performance.