



New Kongsberg Maritime IBS – it's all about the integration

Sep 05, 2018 11:30 BST

Kongsberg Maritime - SMM 2018: Sensor Fusion powers safe navigation with new generation Integrated Bridge System from KONGSBERG

- New bridge system applies technology developed for autonomous vessels to deliver new levels of situational awareness to bridge crews

SMM 2018, Hamburg, Germany, 5thth September 2018 – New technology from KONGSBERG's extensive autonomous vessels program will contribute to

improving the operational and safety performance of manned vessels with the launch of a new generation of Integrated Bridge System (IBS), which is being presented for the first time at SMM 2018 in Hamburg this week (Hall B6, Stand 104).

Through its work on new autonomous vessels such as YARA Birkeland, the world's first all-electric, zero emissions and autonomous container ship, Kongsberg Maritime has developed a cutting-edge, integrated technology platform designed to deliver complete situational awareness through the process of Sensor Fusion, where traditional navigation sensors such as Radar and Sonar are combined with cameras and lasers.

While Sensor Fusion informs the autonomy controller of an unmanned ship, KONGSBERG's application of the technology in its new IBS for crewed vessels introduces a new level of awareness for bridge crew, by delivering a holistic real-time navigational picture based on precise data from diverse sensors. The result is a seamless, user-friendly presentation of vital data and more effective operation of navigation, remote control and advanced manoeuvring, automation, energy management and safety systems.

Already established as a technology-leading supplier of standardised and customised bridge systems for a wide range of vessels, Kongsberg Maritime has also further developed several key functions to deliver improved safety, especially in slow-speed situations. A new all-speed autopilot combines traditional autopilot and trackpilot functions with joystick and dynamic positioning into a single, common control logic, working from high-speed transit down to zero speed electronic anchoring or station keeping. Additionally, new automatic docking and soft thruster assist functions improve safety for critical operations. For passenger and cruise vessels, KONGSBERG has also introduced a new full-size safety management and control system.

"Designed to meet all IMO and classification societies' requirements, our new generation IBS is all about the integration. It adds significant new technologies to deliver safer and more effective navigation and vessel operations, either as a standalone solution, or integrated with a full KONGSBERG vessel delivery featuring automation, data handling and energy control systems," said Roger Trinterud, Senior Sales Manager, Kongsberg Maritime.

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About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable technology solutions for all marine industry sectors including merchant, offshore, subsea and naval. Headquartered in Kongsberg, Norway, the company has manufacturing, sales and service facilities in 20 countries.

Kongsberg Maritime systems for vessels cover all aspects of marine automation, safety, manoeuvring, navigation, and dynamic positioning. Subsea solutions include single and multibeam echo sounders, sonars, AUV/Underwater Robotics, underwater navigation, communication and camera systems.

Training courses at locations globally, LNG solutions, information management, position reference systems and technology for seismic and drilling operations are also part of the company's diverse technology portfolio.

In parallel with its extensive technology portfolio, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

Kongsberg Maritime delivers solutions that cover all aspects of technology underwater and on the water, aboard new build and retrofit vessels, and on offshore platforms and rigs, often under a single supplier strategy called The Full Picture.

Kongsberg Maritime is part of Kongsberg Gruppen (KONGSBERG), an international, knowledge-based group that celebrated 200 years in business during 2014. KONGSBERG supplies high-technology systems and solutions to customers in the oil and gas industry, the merchant marine, and the defence and aerospace industries.

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