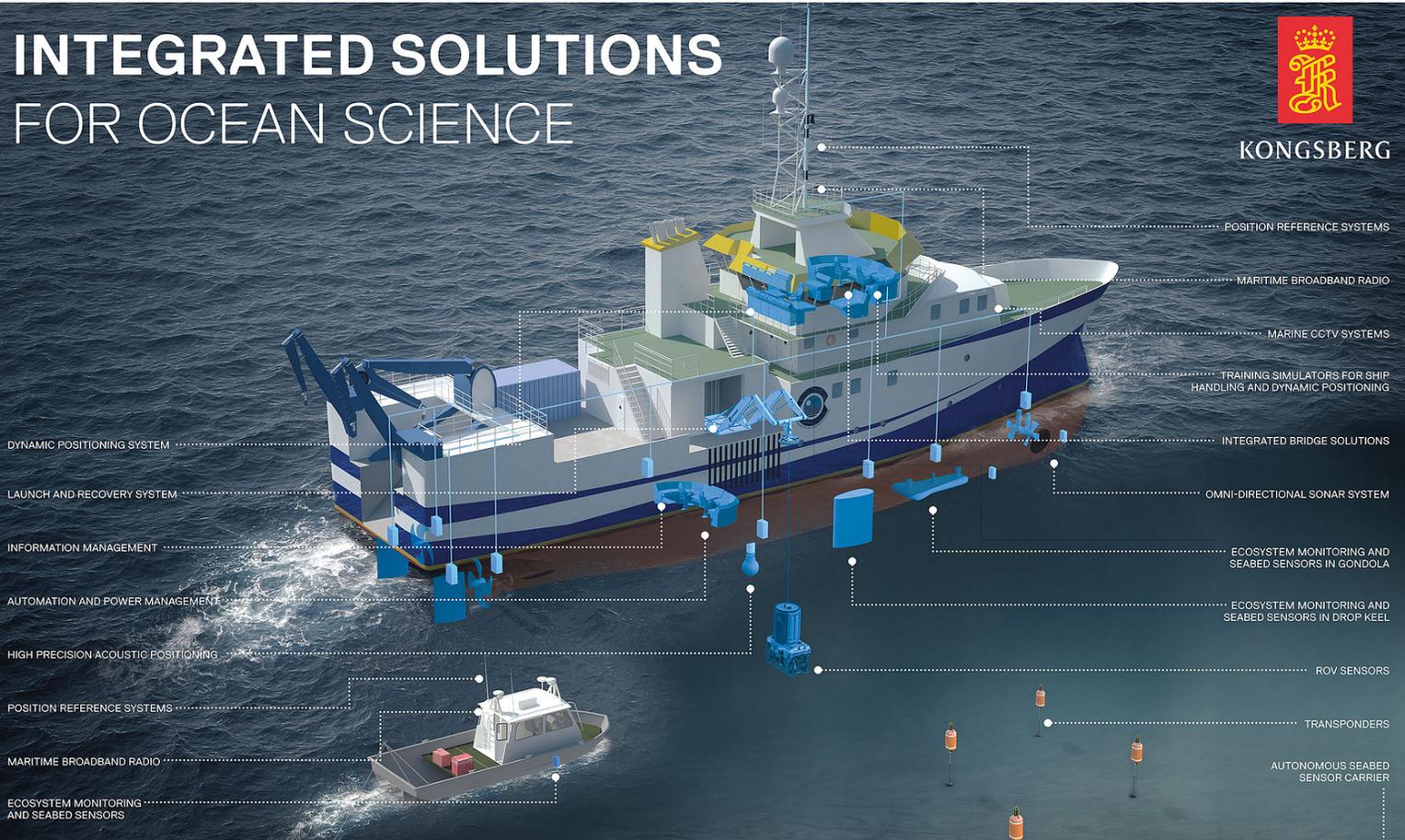


INTEGRATED SOLUTIONS FOR OCEAN SCIENCE



KONGSBERG



KONGSBERG's Integrated Solutions for Research Vessels cover all key technology areas

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Kongsberg Maritime: Integrated Solutions for Research Vessels - KONGSBERG Presents 'The Full Picture' at Oceanology

Integrated Solutions for Research Vessels are in focus on the Kongsberg Maritime stand (D600) at Oceanology International 2016. The Norwegian headquartered global maritime technology company has over many years focused on a 'Full Picture' strategy, which enables it to support Shipowners, Naval Architects and ship-builders throughout the entire design, construction and operational life-time of a vessel. KONGSBERG's Integrated Solutions for Research Vessels cover all key technology areas on board including

navigation and automation, in addition to cutting-edge hydroacoustic and position reference systems.

By integrating and harmonising its extensive portfolio of high-technology marine and subsea systems, KONGSBERG can deliver and install a full suite of scientific acoustics systems, advanced K-Bridge navigation, fully interconnected with K-Chief automation and control systems, and K-Pos Dynamic Positioning, with all sensors shared throughout the network. Additional technologies include communication systems like the unique Marine Broadband Radio (MBR), underwater and vessel camera systems, seabed monitoring solutions and data handling applications such as the KONGSBERG Information Management System (K-IMS).

Integrated Solutions for Research Vessels takes the Full Picture to the next level. For research and surveying applications, KONGSBERG integrates the widest range of multibeam and single beam echo sounders, sonars, Marine Robotics systems (i.e. AUV) and position reference systems available from a single supplier. In addition to marine and subsea specific technology, The Full Picture strategy also supports vessel designers, shipyards at the procurement and engineering phases, and owners/operator with single source service and support throughout the life-time of a vessel. This significantly reduces the amount of suppliers in the chain, resulting in streamlined vessel construction, and effective support during operations.

The advanced multi-purpose research vessel R/V Ramon Margalef, which belongs to the Spanish Oceanographic Institute (IEO) is a contemporary example of an Integrated Solutions for Research Vessels delivery. KONGSBERG played an important role in the vessel's construction by delivering and integrating all key vessel technology systems including K-Bridge navigation and an extensive hydroacoustic suite, which today enables high productivity, with acoustic synchronisation for accurate research.

Specifically at Oceanology, KONGSBERG is showing new products that can be delivered as part of an Integrated Solution for Research Vessels, including the latest generation HiPAP system, cNODE miniS transponders, EM 712 shallow-to-medium depth multibeam echo sounder, EA 440 single beam echo sounder, MGC R3 gyrocompass and the Seapath series of Heading, Attitude and Positioning Sensors. All of these new technologies can be included in a custom Full Picture delivery featuring navigation, automation and positioning systems across the entire vessel.

“We are uniquely positioned to support shipyards and owners above and below the water,” said Helge Uhlen, VP Subsea Sales, Kongsberg Maritime. “A Full Picture delivery is a complete collaboration with all stakeholders, ensuring a harmonised technology solution that benefits vessel operations, from complex scientific research using de-facto industry standard hydroacoustic systems to safe voyage making, engine monitoring and data handling. As a single supplier we act as a partner for the vessel’s whole design, construction, maintenance and operational cycle, ensuring reliability and high performance across the board.”

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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 and a total of 65 worldwide offices.

Kongsberg Maritime developed systems for vessels cover all aspects of automation, control, navigation, safety and dynamic positioning. Kongsberg Maritime also develops subsea solutions covering systems for Underwater Mapping (UMAP), Underwater Navigation (UNAV), Subsea Monitoring (SUMO) and Marine Robotics in addition underwater cameras.

Marine and offshore training simulators, LNG equipment, information management software, position reference systems, integrated aquaculture technology and advanced products to support seismic and drilling operations are also part of the company’s diverse 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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