



News Release

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Rolls-Royce presents new mtu bridge and propeller solutions in Cannes

- New fully integrated bridge and automation systems with Team Italia and mtu NautIQ
- mtu yacht engines now released for sustainable fuels
- Better maneuverability and propulsion efficiency with new mtu ZF pod systems
- locally emission-free with the mtu Hybrid PropulsionPack
- Rolls-Royce with bridge-to-propeller portfolio at trade shows in Cannes and Monaco

Rolls-Royce (LSE: RR., ADR: RYCEY) continues to expand its range of integrated mtu propulsion solutions for yachts. In line with its “Bridge to Propeller” strategy for maritime applications, the business unit Power Systems of Rolls-Royce will present this expanded Bridge-to-Propeller portfolio at the Cannes Yachting Festival from September 12 and at the Monaco Yacht Show from September 27, 2023. This includes new bridge and automation solutions from specialist Team Italia Marine, which Rolls-Royce acquired in July 2023. Based on a new cooperation with ZF, the portfolio will also be expanded to include high-efficiency pod drives. At the core of the mtu yacht offering are the mtu Series 2000 and 4000 yacht engines, which are now released for operation with renewable diesel (HVO). The main yacht engines are also available with exhaust aftertreatment systems for IMO III regulated areas. The company is also working on methanol solutions and hybrid propulsion systems.

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New fully integrated bridge and automation systems offer safety, reliability and comfort

Safety, environmental protection, performance, reliability and comfort are the most important aspects when operating a yacht.

Denise Kurtulus, Vice President Global Marine at Rolls-Royce Power Systems, said:

“Using fully integrated systems, we can best meet the different requirements of our customers when operating a vessel. We are already using artificial intelligence for this purpose, and the trend is increasing”.

A fully integrated bridge is a central point of interaction for the captain, where not only all the data from the propulsion system is



collected, but also the operating data from all the ship's auxiliary and navigation equipment can be collected and the equipment operated.

Nicola Camuffo, Head of the mtu Yacht Competence Center in La Spezia, explained:

“In a world where the complexity of on-board systems is increasing due to different customer requirements and new regulations - with hybrid and electric propulsion systems, exhaust aftertreatment systems, alternative fuels, etc. - our integrated bridge represents a perfect infrastructure, providing a single point of access to all information in a structured and efficient way. The same infrastructure will host autonomous functions, equipment health management (vessel monitoring systems) from the mtu NautIQ portfolio and other data-driven functions in the future”.

Already today, numerous shipyards for motor yachts between 30 and 100 meters in length rely on integrated bridge and automation solutions from the new Italian subsidiary, especially Italian yacht builders who occupy a prominent position on the international market. The integration of these products into Rolls-Royce's mtu NautIQ product range will also open up the yacht building market outside Italy. Significant synergy effects towards integrated system solutions are expected from the cooperation between the individual divisions within Rolls-Royce Power Systems.

Massimo Minnella, who founded Team Italia together with Daniele Ceccanti, announced:

“We will launch innovative products for the next generation of yachts. They will have a much wider range of functions in automation and control”.

At the same time, the comprehensive know-how of the new Italian subsidiary will also be used for other maritime applications, for example for commercial shipping.”

mtu yacht engines approved for sustainable fuels

Rolls-Royce has now approved the main mtu Series 2000 and 4000 engines for yachts for EN15940 synthetic diesel fuels, such as renewable diesel (HVO).

Denise Kurtulus explained:

“We see HVO as a very effective sustainable solution because the fuel is already available. For the future, we see e-methanol as the most promising marine fuel. With “green” methanol from renewable energies, CO₂-neutral yacht operation is possible. In addition, harmful emissions such as nitrogen oxides and particulates can be significantly reduced. Compared to the other sustainable fuels hydrogen, methane and ammonia, methanol has the highest energy density, taking into account the tank system”.

Rolls-Royce is currently developing methanol propulsion solutions for yachts and workboats. Within the publicly funded MeOHmare project, Rolls-Royce is currently focusing on single-fuel technology and will be testing it on the single-cylinder test bed and the full-engine test bed in the coming years. “We are also testing dual-fuel solutions, which we see as a useful bridging technology,” said Denise Kurtulus.

New in the portfolio: highly efficient pod propulsion systems

On the propeller side, Rolls-Royce is expanding its portfolio with fuel-efficient and particularly maneuverable pod propulsion systems. For this purpose, Rolls-Royce is cooperating with ZF and will in future offer propulsion systems based on the ZF Pod 4600 and mtu Series 2000 engines in the power range up to 1,250 kilowatts (1,700 hp).

Speed, comfort, efficiency, locally emission-free - mtu Hybrid PropulsionPack

Rolls-Royce's bridge-to-propeller portfolio also includes mtu hybrid solutions. Anchoring without climate-



damaging exhaust gases and quiet maneuvering in port: the mtu Hybrid PropulsionPack offers a propulsion solution that enables pure battery-electric operation over a certain period of time. The low engine noise and vibrations then provide even more comfort on board.

The mtu Hybrid PropulsionPack integrates the mtu diesel engines with electric propulsion modules, batteries, gearbox, control and monitoring systems and other electronic components. To ensure the optimum propulsion solution for each type of ship, Rolls-Royce offers a modular kit with standardized components.

Imagery is available for download from: [Media Center \(mtu-solutions.com\)](https://www.mtu-solutions.com)

About Rolls-Royce Holdings plc

1. Rolls-Royce develops and delivers complex power and propulsion solutions for safety-critical applications in the air, at sea and on land. Our products and service packages enable our customers to connect people, societies, cultures and economies together; they meet the growing need for power generation across multiple industries; and enable governments to equip their armed forces with the power required to protect their citizens.
2. Rolls-Royce has customers in more than 150 countries, comprising more than 400 airlines and leasing customers, 160 armed forces and navies, and more than 5,000 power and nuclear customers. To meet customer demand for more sustainable solutions, we are committed to making our products compatible with net zero carbon emissions.
3. Annual underlying revenue was £12.69bn in 2022 and underlying operating profit was £652m.
4. Rolls-Royce Holdings plc is a publicly traded company (LSE: RR., ADR: RYCEY, LEI: 213800EC7997ZBLZJH69)
5. Rolls-Royce Power Systems is headquartered in Friedrichshafen in southern Germany and employs more than 9,500 people. The product portfolio includes mtu-brand high-speed engines and propulsion systems for ships, power generation, heavy land, rail and defence vehicles and for the oil and gas industry as well as diesel and gas systems and battery containers for mission critical, standby and continuous power, combined generation of heat and power, and microgrids and is intensively engaged in the development of climate-neutral solutions.

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