



The Havila Capella is set to begin excursions along a new and highly scenic coastal route, equipped with Kongsberg Maritime PM tunnel thrusters, an Azipull L-drive for main propulsion and Bergen gas engines (Photo credit: Havila Kystruten/uavpic.com)

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KM supplies engine and thruster package for cruise vessel on new Havila Kystruten route along the Norwegian coast

Kongsberg, Norway, 14th Dec 2021 – The cruise company Havila Kystruten is celebrating the opening of a breathtaking new 12-day sailing route along the Norwegian coast between Bergen and Kirkenes – and the flagship vessel for this memorably scenic passage, *Havila Capella*, will be relying upon cutting-edge Kongsberg Maritime (KM) technology for its motive power and propulsion.

As with the other three cruise vessels in the Havila Kystruten fleet, *Havila Capella* has been designed by HAV Design AS, and deploys integrated, energy-efficient KM solutions which reflect the company's commitment to operate the most eco-friendly ships in a precious environment of outstanding natural beauty. KONGSBERG will deliver to Havila Kystruten a total of 16 powerful Bergen gas engines, which apply variable turbo geometry to provide an optimal response at all speeds. Bergen gas engines are proven to produce an unparalleled fuel efficiency rate of approximately 50%. The liquid natural gas used in these engines reduces CO₂ by 25% and NO_x by an astonishing 90%. In addition, the vessels are equipped with large battery packs which are capable of providing up to four hours of zero-emissions running time.

"All told, greenhouse gas emissions from our Bergen gas engines are around 20% lower than those from similarly-rated diesel engines," says Ottar Ristesund, SVP sales, Kongsberg Maritime, "even when we take the methane slip, the unburned fuel, into consideration. They are far cleaner to operate, and users report a reduction of as much as 10% in maintenance costs compared to diesel engines."

Havila Capella's main propulsion, meanwhile, stems from a KM Azipull-PM (Permanent Magnet) unit with an L-drive configuration. Noted for outstanding hydrodynamic efficiency, the AZP-PM also proffers the advantage of a compact installation footprint as its motor is housed within the mounting flange diameter.

Similarly, the KM permanent magnet technology used on *Havila Capella's* tunnel thrusters combines space-saving convenience with low-noise, low-vibration and high-performance operation. The tunnel thrusters' rapid response times to full power increase operability and manoeuvrability. Meanwhile, stays supporting the central shaft are designed to recover some of the swirl energy generated by the propeller, providing additional thrust and improving the energy efficiency of the boat's hull. Also, wear and tear is substantially reduced as the PM thrusters contain fewer rotational components.

"Our priorities are intertwined: enabling our customers to enjoy the smoothest, safest and most awe-inspiring cruises while preserving the unique marine habitats off Norway's coasts," says Bent Martini, CEO, Havila Krystuten. "We're grateful to Kongsberg Maritime for providing us with the technology that allows us to give our passengers an unforgettable, enriching experience while simultaneously minimising environmental impacts."

*“We’re very proud to be closely involved in a cruise shipping venture which is literally so close to home,” adds Ottar Ristesund, Kongsberg Maritime.
“Furnishing Havila Krystuten’s vessels with efficient, low- and zero-emissions solutions helps to ensure that this remarkable scenery will be preserved for others to enjoy in generations to come.”*

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For further information, please contact:

Gunvor Hatling Midtbø, VP Communication

Kongsberg Maritime

Tel: +47 9921 4209

gunvor.hatling.midtbo@km.kongsberg.com

Clive Bartlett

Saltwater Stone

Tel: +44 (0)1202 669244

c.bartlett@saltwater-stone.com

About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable ‘Full Picture’ technology solutions for all marine industry sectors including merchant, offshore, cruise, subsea and naval. Headquartered in Kongsberg, Norway, Kongsberg Maritime has manufacturing, sales and service facilities in 34 countries.

Kongsberg Maritime solutions cover all aspects of marine automation, safety, manoeuvring, navigation, and dynamic positioning as well as energy management, deck handling and propulsion systems, and ship design services. Subsea solutions include single and multibeam echo sounders, sonars, AUV and USV, underwater navigation and communication 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. Additionally, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

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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