



MAN Diesel & Turbo Signs Cooperation Agreement with MM-Offshore

Copenhagen,
01/06/2017

Propulsion/manoeuvring specialists agree to develop and optimise efficient aft-ship solutions for future ship designs

At a signing ceremony on 1 June at the Nor-Shipping trade fair in Norway, MAN Diesel & Turbo signed a cooperation agreement with MM-Offshore, the major, German supplier of ship's equipment to the international shipbuilding market.

The impetus for the agreement stems from the marine industry's constant efforts to enhance ship performance. These have resulted in highly efficient propulsion and manoeuvring systems with both now optimised – individually – essentially to perfection.

Poul Knudsgaard – Vice President and Head of the Aft Ship & Propeller department – MAN Diesel and Turbo, said: "Any further potential for improving overall efficiency can only be realised through a combined optimisation of propeller and rudder systems, using a holistic approach that takes the interaction between these two vital components – as well as the ship's hull – into consideration."

He added: "A number of recent projects have already documented how beneficial such a combined optimisation could be for ship designers, operators and owners in achieving low fuel and operating costs, as well as attaining a low EEDI. I welcome this agreement with MM-Offshore and look forward to developing our technology together and making further gains in terms of propulsion efficiency."

Jan Hamann, President of MM-Offshore, said: "A further refinement of this concept – aided by modern and advanced simulation and calculation tools – requires a coordinated effort right from the initial design phase of the vessel before the ship design is frozen. The focus of this cooperation agreement will be on developing common propulsion and manoeuvring solutions for different ship types using each company's unique experience and know-how, and I am already looking very much forward to the results."

MAN Diesel & Turbo SE
Teglhølmegade 41
DK-2450 Copenhagen SV
DENMARK
www.mandieselturbo.com

Marketing & Documentation

Further information:
Peter Dan Petersen
Tel.: +45 33 85 14 70
peterd.petersen@man.eu

Graphics and images:
Mia Toft Sørensen
Tel.: +45 33 85 15 90
mia.soerensen@man.eu



Alignment

The agreement aligns the two companies' strategies so they can jointly develop and offer solutions to the marine market related to:

- the optimisation of the complete propulsion system, including the interaction of propeller and rudder in order to create a partnership between both systems
- the provision of optimised propulsion solutions based on MAN Diesel & Turbo's proprietary Kappel propeller design, optimised rudder bulb and hub-fairing cones, and MM-Offshore's advanced EMPRESS – twisted rudder designs
- the application of energy-saving devices, optimised and combined
- the technical coordination of common shipbuilding projects to ensure overall optimum solutions with clear benefits for ship designers, ship yards, ship owners and operators.

About MM-Offshore

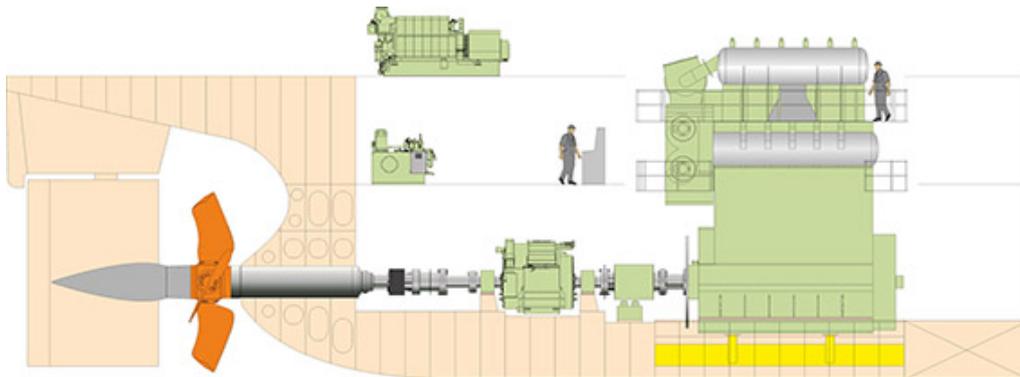
Based in Oldenburg, northern Germany, MM-Offshore GmbH is one of the major designers and producers of ship's equipment in the international shipbuilding market. The company has more than half a century of experience in delivering tailor-made products to ships, including rudders and hydraulic equipment. During the last few years, MM-Offshore has also become one of the world's leading manufactures of rudder systems, in particular highly efficient rudders.



Pictured at the signing ceremony at Nor-Shipping (from left): Jan Hamann – President MM-Offshore; Helge Schmale – General Manager MM-Offshore; Jens Ring Nielsen – Senior Manager Propeller and Aft Ship, MAN Diesel & Turbo; and Poul Knudsgaard – Vice President and Head of Propeller and Aftship, MAN Diesel & Turbo



Graphical rendering of a 36,000-m³ GasChem ethane carrier featuring an MAN Diesel & Turbo Kappel propeller and rudder bulb, and an MM-Offshore EMPRESS rudder (courtesy Hartmann Reederei)



Propulsion system configuration: 36,000-m³ ethane carrier with an MAN Diesel & Turbo Kappel propeller and rudder bulb, and an MM-Offshore EMPRESS rudder

About MAN Diesel & Turbo

MAN Diesel & Turbo SE, based in Augsburg, Germany, is the world's leading provider of large-bore diesel and gas engines and turbomachinery. The company employs around 15,000 staff at more than 100 international sites, primarily in Germany, Denmark, France, Switzerland, the Czech Republic, India and China. The company's product portfolio includes two-stroke and four-stroke engines for marine and stationary applications, turbochargers and propellers as well as gas and steam turbines, compressors and chemical reactors. The range of services and supplies is rounded off by complete solutions like ship propulsion systems, engine-based power plants and turbomachinery trains for the oil & gas as well as the process industries. Customers receive worldwide after-sales services marketed under the MAN PrimeServ brand.

Ref.: 6510-0449