



## **Global Seatrade Award to MAN Diesel & Turbo**

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**MAN Diesel & Turbo's VTA (Variable Turbine Area) turbocharger technology wins global Seatrade award**

At a ceremony on 24 May in the Guildhall building in London, MAN Diesel & Turbo received the prestigious global Seatrade Award in the category Protection of the Marine and Atmospheric Environment. The Seatrade Award was launched in 1988 and, today, it has developed into one of the most respected and recognised global maritime awards scheme. This year, the winning technology came from MAN Diesel & Turbo in the form of the Variable Turbine Area (VTA) for TCA and TCR turbochargers.

More than 325 international guests from the maritime community participated in the awards ceremony. The chairman of the judging panel, secretary general of the International Maritime Organisation (IMO), Mr Efthimios E. Mitropoulos, stated that the annual awards, which also include the categories Safety at Sea, Innovation in Shipping, and Investment in People, are all directly related to the goals and objectives of the International Maritime Organisation, i.e. safe, secure and efficient shipping on clean oceans.

The Seatrade Awards guest of honour, Admiral Sir Mark Stanhope, First Sea Lord and Chief of naval Staff, gave the award to Jörg Albrecht, head of Turbocharger Marketing at MAN Diesel & Turbo.

The VTA matches the volume of charge air automatically, continuously and precisely to the quantity of fuel oil injected at any operation point of an engine's load and speed range. This results in improved engine response, fuel savings and reduced HC, CO<sub>2</sub>, soot, smoke and particulate emissions. Calculations based on fuel savings of 4 g/kWh, made possible by the VTA, and the assumption that every ship in service worldwide use this upgrade, show that savings of up to 7,895,160 tons of carbon dioxide could be made annually, says Jörg Albrecht.

A conventional turbocharger with fixed nozzle rings is usually optimised for a pre-determined engine load point. At any other engine load, the turbocharger does not work with optimal efficiency, which results in poorer combustion, and higher fuel consumption and emissions.

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MAN Diesel & Turbo has successfully introduced the VTA technology on large turbochargers with both axial and radial turbines for installation on large diesel engines burning heavy fuel oil (HFO), probably the most technically challenging engine fuel in daily use. Compared to its simple counterpart from the automotive sector, the VTA produces about 100 times more power and has double the lifetime.



*MAN Diesel & Turbo's VTA (Variable Turbine Area) turbocharger technology.*



*Jörg Albrecht, Head of Sales (Marketing) Turbocharger, MAN Diesel & Turbo SE, receiving the award from Guest of Honour, Admiral Sir Mark Stanhope, First Sea Lord, Efthimios Mitropoulos, IMO Secretary-General.*

**MAN Diesel & Turbo**

MAN Diesel & Turbo SE, based in Augsburg, Germany, is the world's leading provider of large-bore diesel engines and turbomachinery for marine and stationary applications. It designs two-stroke and four-stroke engines that are manufactured both by the company and by its licensees. The engines have power outputs ranging from 47 kW to 97 MW. MAN Diesel & Turbo also designs and manufactures gas turbines of up to 50 MW, steam turbines of up to 150 MW and compressors with volume flows of up to 1.5 million m<sup>3</sup>/h and pressures of up to 1,000 bar. The product range is rounded off by turbochargers, CP propellers, gas engines, engines for locomotives and chemical reactors. MAN Diesel & Turbo's range of goods includes complete marine propulsion systems, turbomachinery units for the oil & gas as well as the process industries and turnkey power plants. Customers receive worldwide after-sales services marketed under the MAN PrimeServ brand. The company employs around 12,500 staff, primarily in Germany, Denmark, France, Switzerland, the Czech Republic, Italy, India and China; it has a presence in around 150 countries. MAN Diesel & Turbo is a company of the Power Engineering business area of MAN SE, which is listed on the DAX share index of the 30 leading companies in Germany.

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