



## Facts and Figures

# The MAN Diesel Group in summary

### **MAN Diesel Group home organization:**

MAN Diesel SE, Augsburg, Germany

MAN Diesel, Danish branch of MAN Diesel SE, Germany

MAN Diesel SAS, Villepinte, France

PBS Turbo, Velká Bíteš, Czech Republic

### **Workforce**

Around 7,800 employees worldwide

### **Sales**

Around Euro 2.5 billion in 2008

### **Chairman of the Supervisory Board**

Dipl.-Ing. Håkan Samuelsson  
Chairman of the Executive Board  
of MAN SE  
Munich

MAN Diesel Group

Group Communications

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## Members of the Executive Board of MAN Diesel SE

### **Dr.-Ing. Georg Pachta-Reyhofen**

(Chairman)

High Speed, Group Communications, Group Human Resources, Group Marketing, Group Strategy & Structure

### **Jan Gurander**

Marine Low Speed, Group Accounting, Group Controlling, Group Finance, Group Information Technology, Group Legal Affairs, Group Reporting

### **Dr.-Ing. Stefan Spindler**

Marine Medium Speed, Power Plants, Licensing Medium Speed, R&D Engineering Medium Speed, Group Systems Automation

### **Dr.-Ing. Stephan Timmermann**

Production, Turbochargers, After Sales, Group Purchasing, Group Quality Management

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## The products of the MAN Diesel Group

- Two-stroke engines with outputs from 2,000 kW to 97,300 kW for marine propulsion systems and diesel power plants
- Four-stroke diesel engines with outputs from 450 kW to 21,600 kW for propulsion and on-board power supplies in ships and for diesel power plants
- Four-stroke diesel/gas and gas/petrol engines in the performance range from 2,310 kW to 18,000 kW
- Turnkey diesel power plants
- Exhaust gas turbochargers for diesel and gas engines for engine outputs per turbocharger of 400 kW to 30,000 kW
- Complete propulsion systems for ships, comprising the main engine, gear, shaft and CP propeller
- MAN Diesel PrimeServ: global aftersales services such as maintenance, spare parts supply or training programmes

## Market position:

- World market leader for the propulsion of seafaring vessels with a market share of around 50 per cent
- World market leader for two-stroke diesel engines for seafaring vessels with a market share of over 80 per cent

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- World market leader for medium-speed, four-stroke propulsion engines
- World market leader for heavy oil-fuelled GenSets
- Second on the global market as a supplier of diesel engines for stationary base load power plants
- Second on the global market as a supplier of exhaust gas turbochargers for two-stroke and medium-speed four-stroke diesel engines

### **MAN Diesel – milestones:**

- 1897** Development of the diesel engine to series maturity by Rudolf Diesel with engineers from MAN
- 1901** First crosshead-free four-stroke diesel engine
- 1903** First ships with diesel engine as sole source of propulsion
- 1904** First major diesel power plant in the world in Kiev
- 1906** First trials using heavy oil as fuel
- 1912** First seafaring diesel motor engine “Selandia”
- 1923** First vehicle diesel engine with direct fuel injection
- 1935** First heavy oil four-stroke diesel engine
- 1951** First four-stroke diesel engine with charging
- 1984** Most powerful series four-stroke engine delivering 1,650 HP / cylinder
- 1987** Delivery of the world’s largest 130,000 HP diesel propulsion system for the QUEEN ELIZABETH 2 passenger ship
- 1993** Largest diesel power plant in the People’s Republic of China, 179 MW total output

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- 1999** Most powerful MC two-stroke engine in the world with a cylinder output of 5,720 kW
- 2000** 100 million HP sold in the MC series
- 2000** The first ME two-stroke engine with electronic control goes into operation
- 2002** Launch of a new generation of turbochargers
- 2004** Launch of common-rail technology for medium-speed, four-stroke diesel engines
- 2006** Dual-fuel technology: the 51/60DF four-stroke engine operates with heavy-fuel oil, marine diesel and gas
- 2006** Unveiling of PGI technology: 32/40PGI gas engine based on the Otto principle, but which requires no spark plugs
- 2006** Renaming of the company as MAN Diesel SE (Société Européenne - European Company)
- 2007** Order for the world's largest diesel engine (14K98ME)
- 2007** Order for motorisation of the world's largest ship ("Pieter Schelte")
- 2008** Prize for Innovation from German Business for the 32/40PGI gas engine
- 2008** Largest order in the company's history worth over Euro 750 million: MAN Diesel builds six power plants for Electricité de France

As at: July 2009

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