MAN 175D
100% Marine. 100% High Speed.

Engineering the Future – since 1758.
MAN Diesel & Turbo
Ever since we steered the marine industry out of the steam age, MAN has been setting the standard for diesel engines. It’s a history of undisputed reliability, uncompromising quality and dedicated commitment to our customers.

In keeping with this rich tradition, we’re once again pushing the boundaries of technology, challenging powerful high-speed applications, and providing seafarers with an engine they can trust.

MAN Diesel & Turbo presents the MAN 175D: unmatched power, superior efficiency, and first-class support. Welcome to the future of high speed marine mobility.

Traditionally Faster.
When it comes to designing or operating a vessel, you know all about the challenges of striking the right balance between contradictory requirements. And this is particularly true for engines: compactness versus ease of maintenance, robustness versus load response, power versus weight, efficiency versus emissions.

MAN visited operators and shipbuilders of tugboats, offshore vessels, ferries, patrol boats and super yachts all over the world. By understanding your business, your tasks, your responsibilities, and your concerns, we were able to incorporate what we learned into a straightforward engine design.

MAN Listens to You

MAN 175D: Tailored to Your Requirements.

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Your requirements are our commitment. Packing the latest state-of-the-art technology into a minimum volume, the MAN 175D is characterized by clear-cut design: easy to commission, easy to operate, and easy to service. With a power of between 2,000 and 3,000 hp (1,500 – 2,200 kW), this high-performance marine engine is compact and modular with all auxiliaries attached.

Inheriting its genes from our successful four-stroke engine tradition, the MAN 175D is robust and reliable by nature. Through innovation, it is designed to be the most efficient engine for every application.

- **Clear & Compact**
  Functional design at minimum weight and dimensions

- **Advanced & Robust**
  Cutting-edge technology and proven reliability

- **Powerful & Reliable**
  Peak performance built on experience

- **Efficient & Clean**
  Low SFOC and IMO Tier III in one

**Design Philosophy**

**100% Marine. 100% Your Business.**
True freedom begins long before the maiden voyage. Thanks to the extremely clear and compact construction of the MAN 175D, designers and engineers gain valuable creative freedom when planning engine room layout and optimizing hull performance.

The engine’s concept is reliable and advanced at the same time. Its low noise and low vibration levels ensure smooth operation – even at full speed. And every detail of the technology is designed for fuel efficiency and low emissions.

When it comes to performance, the MAN 175D impresses yacht owners with its spontaneous power for fast sprints, and its economical endurance for long-range cruises: in short, MAN 175D performs across all disciplines.
Engines
Prepared. Ready for Operation.

Naval & Governmental Applications
MAN 175D: New Power at Sea.

Whatever naval operation you’re planning, the MAN 175D makes sure you’re always optimally prepared. Every last detail of its clear and compact design is intended to deliver continuous, reliable performance. Maximum power output at lowest weight makes the MAN 175D the superior choice.

Whether you’re patrolling in low-load mode or cruising at full power, the easy handling and high availability of the MAN 175D allows you to focus entirely on your mission. The MAN 175D provides naval and governmental vessels with a valuable strategic advantage – even before they leave the harbor.
Designed for extreme robustness, first-rate reliability and maximum efficiency, the MAN 175D offers high speed and rapid return on investment. It is made for quick load response, allowing safe maneuvering even in the harshest environments. Moreover, its advanced engine automation and electronic systems are perfectly in line with our philosophy on easy operation and maintenance.

The MAN 175D combines all these strengths in a single compact engine. As a result, it is ideal for economical, cost-efficient operation in ferries, offshore service and supply vessels, workboats and tugs. With heavy-duty and medium-duty ratings, the MAN 175D covers the full spectrum of commercial diesel-mechanic and diesel-electric applications.
Designed to Excel

Modern Technology. Modular Concept.

Output 1,440 – 2,220 kW (1,931 to 2,977 bhp)

1. High-Efficiency MAN Turbocharger
2. Engine-Mounted MAN Engine Control System
3. Proven Common Rail Fuel Injection Technology
4. Four Auxiliary Power Take-Offs
5. 100% Power Take-Off on Counter Coupling Side
An investment in the MAN 175D is an investment in the future. The engine is designed to meet emissions standards, without compromising on efficiency or performance. The compact, modular SCR exhaust gas after-treatment system is based on patented MAN AdBlue® technology, and has been proven for thousands of hours in continuous and frequent dynamic start/stop modes. Wherever you plan to sail, the MAN 175D is your eco-friendly, sustainable choice with the lowest emissions at maximum efficiency.

Customized Solutions

MAN Diesel & Turbo: System Competence.

We understand that the overall performance and efficiency of the propulsion system are crucial to your success. That’s why we integrate first-class components into our optimized solutions: engine, gearbox, CP and FP propellers, automation, auxiliary equipment and after-treatment systems. To save you time and money, we offer standardized, optimized and highly effective propulsion packages. And we deliver customized solutions, tailored to your unique demands.

Protecting Environment.

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You gave us insight into the fascinating and diverse world of workboats, ferries, patrol boats and super yachts. We studied your requirements concerning a powerful, reliable and economical engine family in detail. Keeping pace with you, we are constantly extending your options, with more cylinder variants, fuel types, applications and ratings as the marine world develops. We look forward to working with and for you in the future.

More to Come

MAN Diesel & Turbo: Engineering the Future.
# Technical Data

## Output, Dimensions and Weight

**MAN 12V175D**

<table>
<thead>
<tr>
<th>Weight – kg</th>
<th>8,500</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of cylinders:</td>
<td>12</td>
</tr>
<tr>
<td>Emission regulation:</td>
<td>IMO Tier II, IMO Tier III (with Selective Catalytic Reduction)</td>
</tr>
</tbody>
</table>

### Mechanical propulsion

<table>
<thead>
<tr>
<th>Type designation</th>
<th>MAN 12V175D-MM</th>
<th>MAN 12V175D-MM</th>
<th>MAN 12V175D-MM</th>
<th>MAN 12V175D-MM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power – kW</td>
<td>1,740</td>
<td>2,220</td>
<td>1,440</td>
<td>1,800</td>
</tr>
<tr>
<td>(bhp)</td>
<td>(2,333)</td>
<td>(2,977)</td>
<td>(1,931)</td>
<td>(2,412)</td>
</tr>
<tr>
<td>Speed – rpm</td>
<td>1,800</td>
<td>1,900</td>
<td>1,500</td>
<td>1,800</td>
</tr>
<tr>
<td>Average load</td>
<td>≤ 65%</td>
<td>≤ 65%</td>
<td>≤ 75%</td>
<td>≤ 50%</td>
</tr>
</tbody>
</table>

### Onboard power generation or diesel-electric drives

<table>
<thead>
<tr>
<th>Type designation</th>
<th>MAN 12V175D-MM</th>
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<th>MAN 12V175D-MM</th>
<th>MAN 12V175D-MM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power – kW</td>
<td>2,220</td>
<td>1,920</td>
<td>1,800</td>
<td>1,620</td>
</tr>
<tr>
<td>(bhp)</td>
<td>(2,977)</td>
<td>(2,575)</td>
<td>(2,172)</td>
<td>(2,172)</td>
</tr>
<tr>
<td>Speed – rpm</td>
<td>1,900</td>
<td>1,900</td>
<td>1,800</td>
<td>1,800</td>
</tr>
<tr>
<td>Average load</td>
<td>≤ 50%</td>
<td>≤ 50%</td>
<td>≤ 50%</td>
<td>≤ 50%</td>
</tr>
</tbody>
</table>

For multi-engine arrangement only. Rated power output according to ISO 3046-1: ICFN for mechanical propulsion, ICXN for onboard power generation or diesel-electric drives. Fuel specification: MGO/EN590.
Whether you are sailing for business or pleasure, your expectations are the same: thousands of hours of smooth operation with no disruptions. To this end, we offer a comprehensive service approach. The MAN 175D’s robust and clear-cut design allows minimal operational maintenance and extremely long TBO. In addition, to ensure the highest engine uptime and lowest operating costs, we have created a broad portfolio of services, comprising easy-to-manage spare parts kits, advanced online monitoring, and innovative lifecycle cost planning.

And when major maintenance is needed, it’s plain sailing, too: our turnkey overhauls and tailored full-service contracts ensure your engine is back in operation quickly. We take a consistent, one-face-to-the-customer approach to service. Our unique PrimeServ network guarantees rapid one-stop solutions and the same high standards of quality around the world.

Wherever in the world your business takes you, we are always at your side.
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