R6-730 and R6-800

MAN high speed marine engines
for light duty applications.

Engineering the Future – since 1758.
MAN Nutzfahrzeuge
Full speed ahead.

A whole fleet of MAN marine diesel engines is waiting for this command. The powerful common rail diesel engines from 730 mhp to 1,800 mhp impress with their extraordinary dynamics, their extreme running smoothness, economy and their trend-setting environmental friendliness. The finest from modern technology.

Engine description R6-730 and R6-800.

Characteristics

Cylinders and arrangement 6 cylinders in-line
Operation mode 4-stroke diesel engine
watercooled
exhaust turbocharger
with intercooler
Number of valves 4 valves per cylinder
Fuel system Common Rail direct fuel injection with electronic control
Engine lubrication Closed system with forced feeding, oil cooling and filtering
Type of cooling Heat exchanger with engine and seawater circuit
Engine electric Electronic injection control
Electronic engine monitoring including diagnostic unit
Exhaust gas status IMO Tier 2, EPA Tier 2 for private use only. Commercial use upon request.
SAV, RCD 94/25/EC
Fuel DIN EN 590

Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>R6-730/800</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Overall width of engine</td>
<td>mm</td>
</tr>
<tr>
<td>B-Overall length of engine</td>
<td>mm</td>
</tr>
<tr>
<td>C-Overall height of engine</td>
<td>mm</td>
</tr>
<tr>
<td>D-Top of engine to crankshaft centre</td>
<td>mm</td>
</tr>
<tr>
<td>E-Length of engine from front end to edge of flywheel housing</td>
<td>mm</td>
</tr>
</tbody>
</table>

For detailed examinations of installation dimensions, please order drawings from our factory.
**MAN engines have outstanding qualities**

- High tractive power even at low speeds
- Powerful acceleration and rapid reaction to commands
- High performance combined with low weight
- Compact, space-saving design

- Large operation range owing to low consumption
- Low running costs and long service life
- Low emission values
- World-wide service network with rapid supply of spare parts

### Technical data

<table>
<thead>
<tr>
<th>Type of engine</th>
<th>R6-730</th>
<th>R6-800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement</td>
<td>12.82</td>
<td>12.82</td>
</tr>
<tr>
<td>Maximum output to DIN ISO 3046-1¹</td>
<td>kW (mhp)</td>
<td>537 (730)</td>
</tr>
<tr>
<td>Rated speed</td>
<td>2,300</td>
<td>2,300</td>
</tr>
<tr>
<td>Maximum torque</td>
<td>2,512</td>
<td>2,700</td>
</tr>
<tr>
<td>at speed rpm</td>
<td>1,200 - 2,100</td>
<td>1,200 - 2,100</td>
</tr>
<tr>
<td>Weight (dry)</td>
<td>1,305</td>
<td>1,305</td>
</tr>
<tr>
<td>Fuel consumption at rated power</td>
<td>l/h</td>
<td>145</td>
</tr>
</tbody>
</table>

¹ The ratings are only for operation of private yachts.

### Definition of light duty operation

- Annual operating hours < 1,000
- Percentage of time at full load ≤ 20%
- Average load application ≤ 50%
- Particular operation conditions no wide-open throttle below rated speed

### Typical applications

- Escort boats and patrol boats
- Ambulance boats
- Pleasure crafts
- Police boats

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**A**

**B**
Power charts R6-730 and R6-800.

![Power charts](image)

- **R6 - 800, 588 kW (800 mhp)**
- **R6 - 730, 537 kW (730 mhp)**

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Text and illustrations are not binding.

We reserve the right to make modifications in the course of technical progress.

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