Marine.
High speed engines for fast boats.

MAN Engines
A Division of MAN Truck & Bus AG
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Full steam ahead.

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

MAN Service
Competent and Motivated.

MAN is there for you from the outset. Where qualified guidance is needed for the installation, our experts are at your side with advice and practical assistance. Of course you can always rely on our worldwide service.

Qualified service centres provide you with fast and skilled servicing and repairs. Worldwide partners ensure a service network for marine engines. As you can see we are there whenever and wherever you need us.

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
- High efficiency owing to low fuel consumption
- Low running costs and long service life
- Low emission values
- World-wide service network with rapid supply of spare parts
Definition of application type.

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
Engine description R6-730 and R6-800.

Characteristics
- Cylinders and arrangement: 6 cylinders in-line
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: 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 control: Electronic injection control (EDC)
  Electronic engine monitoring including diagnostic unit
- Exhaust gas status: IMO Tier 2, RCD 94/25/EC, EPA Tier 2, SAV/BSO, 97/68/EC
- Fuel: DIN EN 590
## Technical features R6-730 and R6-800

<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 l</td>
<td>12.82 l</td>
</tr>
<tr>
<td>Maximum output to DIN ISO 3046-1 (^1)</td>
<td>537 (730) kW (hp)</td>
<td>588 (800) kW (hp)</td>
</tr>
<tr>
<td>Rated speed</td>
<td>2,300 rpm</td>
<td>2,300 rpm</td>
</tr>
<tr>
<td>Maximum torque at speed</td>
<td>2,450 Nm</td>
<td>2,700 Nm</td>
</tr>
<tr>
<td>Weight (dry)</td>
<td>1,305 kg</td>
<td>1,305 kg</td>
</tr>
<tr>
<td>Fuel consumption at rated power</td>
<td>145 l/h</td>
<td>158 l/h</td>
</tr>
</tbody>
</table>

\(^1\) The ratings are only for operation of private yachts.

### Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>R6-730/R6-800</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Overall width of engine</td>
<td>910 mm</td>
</tr>
<tr>
<td>B-Overall length of engine</td>
<td>1,634 mm</td>
</tr>
<tr>
<td>C-Overall height of engine – flat oil pan</td>
<td>1,020 mm</td>
</tr>
<tr>
<td>– standard oil pan</td>
<td>1,097 mm</td>
</tr>
<tr>
<td>D-Top of engine to crankshaft centre</td>
<td>683 mm</td>
</tr>
<tr>
<td>E-Length of engine from front end to edge of flywheel housing</td>
<td>1,356 mm</td>
</tr>
</tbody>
</table>

For detailed examinations of installation dimensions, please order drawings from our factory.

![Diagram of R6-730 engine dimensions](image.png)

![Diagram of R6-800 engine dimensions](image.png)
Power charts R6-730 and R6-800.

**R6-730**

- **Power**
  - [kW]
  - 500
  - 400
  - 300
  - 200
  - 100
  - 0

- **Torque**
  - [Nm]
  - 2,500
  - 2,000
  - 1,500

- **Absolute fuel consumption**
  - [l/h]
  - 150
  - 100
  - 50

**R6-800**

- **Power**
  - [kW]
  - 500
  - 400
  - 300
  - 200
  - 100
  - 0

- **Torque**
  - [Nm]
  - 2,500
  - 2,000
  - 1,500

- **Absolute fuel consumption**
  - [l/h]
  - 150
  - 100
  - 50

**R6-730** with 537 kW (730 hp at 2,300 rpm)

**R6-800** with 588 kW (800 hp at 2,300 rpm)
Engine description V8-900.

Characteristics
- Cylinders and arrangement: 8 cylinders in 90° V design
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: 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 control: Electronic injection control (EDC) Electronic engine monitoring including diagnostic unit
- Exhaust gas status: IMO Tier 2, RCD 94/25/EC, EPA Tier 2, SAV/BSO, 97/68/EC
- Fuel: DIN EN 590
Technical features V8-900

<table>
<thead>
<tr>
<th>Type of engine</th>
<th>V8-900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement</td>
<td>l</td>
</tr>
<tr>
<td>Maximum output to DIN ISO 3046-1 ¹</td>
<td>kW (hp)</td>
</tr>
<tr>
<td>Rated speed</td>
<td>rpm</td>
</tr>
<tr>
<td>Maximum torque at speed</td>
<td>Nm</td>
</tr>
<tr>
<td>Weight (dry)</td>
<td>kg</td>
</tr>
<tr>
<td>Fuel consumption at rated power</td>
<td>l/h</td>
</tr>
</tbody>
</table>

¹ The ratings are only for operation of private yachts.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>V8-900</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.
Power charts V8-900.

V8-900

Power

[kW]

1,000 800 600 400 200 0

Torque

[Nm]

3,000 2,000 1,000

Absolute fuel consumption

[l/h]

150 100 50

V8-900 with 662 kW (900 hp at 2,300 rpm)
Engine description V8-1000 and V8-1200.

Characteristics

<table>
<thead>
<tr>
<th>V8-1000</th>
<th>specials V8-1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinders and arrangement:</td>
<td>8 cylinders in 90° V design</td>
</tr>
<tr>
<td>Operation mode:</td>
<td>4-stroke diesel engine, watercooled</td>
</tr>
<tr>
<td>Turbocharging:</td>
<td>1-stage exhaust turbocharger with intercooler</td>
</tr>
<tr>
<td>Number of valves:</td>
<td>4 valves per cylinder</td>
</tr>
<tr>
<td>Fuel system:</td>
<td>Common Rail direct fuel injection with electronic control</td>
</tr>
<tr>
<td>Engine lubrication:</td>
<td>Closed system with forced feeding, oil cooling and filtering</td>
</tr>
<tr>
<td>Type of cooling:</td>
<td>Plate heat exchanger, seawater cooled</td>
</tr>
<tr>
<td>Engine control:</td>
<td>Electronic injection control (EDC)</td>
</tr>
<tr>
<td>Exhaust gas status:</td>
<td>IMO Tier 2, RCD 94/25/EC, EPA Tier 2, 97/68/EC</td>
</tr>
<tr>
<td>Fuel:</td>
<td>DIN EN 590</td>
</tr>
</tbody>
</table>
## Technical features V8-1000 and V8-1200

<table>
<thead>
<tr>
<th>Parameter</th>
<th>V8-1000</th>
<th>V8-1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of engine</td>
<td>V8-1000</td>
<td>V8-1200</td>
</tr>
<tr>
<td>Displacement</td>
<td>l</td>
<td>16.16</td>
</tr>
<tr>
<td>Maximum output to DIN ISO 3046-1 (^1)</td>
<td>kW (hp)</td>
<td>735 (1,000)</td>
</tr>
<tr>
<td>Rated speed</td>
<td>rpm</td>
<td>2,300</td>
</tr>
<tr>
<td>Maximum torque at speed</td>
<td>Nm</td>
<td>3,350</td>
</tr>
<tr>
<td>Weight (dry)</td>
<td>kg</td>
<td>1,780</td>
</tr>
<tr>
<td>Fuel consumption at rated power</td>
<td>l/h</td>
<td>195</td>
</tr>
</tbody>
</table>

\(^1\) The ratings are only for operation of private yachts.

<table>
<thead>
<tr>
<th>Dimension</th>
<th>V8-1000</th>
<th>V8-1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Overall width of engine</td>
<td>mm</td>
<td>1,153</td>
</tr>
<tr>
<td>B-Overall length of engine</td>
<td>mm</td>
<td>1,736</td>
</tr>
<tr>
<td>C-Overall height of engine</td>
<td>mm</td>
<td>1,236</td>
</tr>
<tr>
<td>D-Top of engine to crankshaft centre</td>
<td>mm</td>
<td>825</td>
</tr>
<tr>
<td>E-Length of engine from front end to edge of flywheel housing</td>
<td>mm</td>
<td>1,243</td>
</tr>
</tbody>
</table>

For detailed examinations of installation dimensions, please order drawings from our factory.
Power charts V8-1000 and V8-1200.

V8-1000

- Power [kW]:
  - 1,000 hp at 2,300 rpm

- Torque [Nm]:
  - 735 kW

- Absolute fuel consumption [l/h]:
  - 150 l/h

V8-1200

- Power [kW]:
  - 882 kW

- Torque [Nm]:
  - 882 kW

- Absolute fuel consumption [l/h]:
  - 1,200 hp at 2,300 rpm
Engine description V12-1360.

Characteristics
- Cylinders and arrangement: 12 cylinders in 90° V design
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: 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 control: Electronic injection control (EDC)
  Electronic engine monitoring including diagnostic unit
- Exhaust gas status: IMO Tier 2, RCD 94/25/EC, EPA Tier 2, SAV/BSO, 97/68/EC
- Fuel: DIN EN 590
### Technical features V12-1360

<table>
<thead>
<tr>
<th>Type of engine</th>
<th>V12-1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement</td>
<td>l</td>
</tr>
<tr>
<td>Maximum output to DIN ISO 3046-1 ¹</td>
<td>kW (hp)</td>
</tr>
<tr>
<td>Rated speed</td>
<td>rpm</td>
</tr>
<tr>
<td>Maximum torque</td>
<td>Nm</td>
</tr>
<tr>
<td>at speed</td>
<td>rpm</td>
</tr>
<tr>
<td>Weight (dry)</td>
<td>kg</td>
</tr>
<tr>
<td>Fuel consumption at rated power</td>
<td>l/h</td>
</tr>
</tbody>
</table>

1) The ratings are only for operation of private yachts.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>V12-1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Overall width of engine</td>
<td>mm 1,307</td>
</tr>
<tr>
<td>B-Overall length of engine</td>
<td>mm 1,846</td>
</tr>
<tr>
<td>C-Overall height of engine</td>
<td>mm 1,209</td>
</tr>
<tr>
<td></td>
<td>– flat oil pan</td>
</tr>
<tr>
<td></td>
<td>– standard oil pan</td>
</tr>
<tr>
<td>D-Top of engine to crankshaft centre</td>
<td>mm 789</td>
</tr>
<tr>
<td>E-Length of engine from front end to edge of flywheel housing</td>
<td>mm 1,493</td>
</tr>
</tbody>
</table>

For detailed examinations of installation dimensions, please order drawings from our factory.
Power charts V12-1360.

V12-1360

Power

[kW]

Torque

[Nm]

Absolute fuel consumption

[l/h]

V12-1360 with 1,000 kW (1,360 hp at 2,300 rpm)
Engine description V12-1400 and V12-1550.

Characteristics

- **Cylinders and arrangement:** 12 cylinders in 90° V design
- **Operation mode:** 4-stroke diesel engine, watercooled
- **Turbocharging:** 1-stage 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:** Plate heat exchanger, seawater cooled
- **Engine control:**
  - Electronic injection control (EDC)
  - Electronic engine monitoring including diagnostic unit
- **Exhaust gas status:** IMO Tier 2, RCD 94/25/EC, EPA Tier 2, 97/68/EC
- **Fuel:** DIN EN 590
Technical features V12-1400 and V12-1550

<table>
<thead>
<tr>
<th>Type of engine</th>
<th>V12-1400</th>
<th>V12-1550</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement</td>
<td>l 24.24</td>
<td>24.24</td>
</tr>
<tr>
<td>Maximum output to DIN ISO 3046-1 1)</td>
<td>kW (hp) 1,029 (1,400)</td>
<td>1,140 (1,550)</td>
</tr>
<tr>
<td>Rated speed</td>
<td>rpm 2,300</td>
<td>2,300</td>
</tr>
<tr>
<td>Maximum torque at speed</td>
<td>Nm 4,670</td>
<td>5,140</td>
</tr>
<tr>
<td>Weight (dry)</td>
<td>kg 2,270</td>
<td>2,270</td>
</tr>
<tr>
<td>Fuel consumption at rated power</td>
<td>l/h 266</td>
<td>296</td>
</tr>
<tr>
<td>Classifiable</td>
<td>✓</td>
<td>–</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Dimensions</th>
<th>V12-1400</th>
<th>V12-1550</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Overall width of engine</td>
<td>mm 1,270</td>
<td>1,153</td>
</tr>
<tr>
<td>B-Overall length of engine</td>
<td>mm 2,230</td>
<td>2,124</td>
</tr>
<tr>
<td>C-Overall height of engine</td>
<td>mm 1,289</td>
<td>1,289</td>
</tr>
<tr>
<td>D-Top of engine to crankshaft centre</td>
<td>mm 825</td>
<td>825</td>
</tr>
<tr>
<td>E-Length of engine from front end to edge of flywheel housing</td>
<td>mm 1,614</td>
<td>1,630</td>
</tr>
</tbody>
</table>

For detailed examinations of installation dimensions, please order drawings from our factory.
Power charts V12-1400 and V12-1550.

**V12-1400**

- **Power**
  - [kW]
  - 1,250
  - 1,000
  - 750
  - 500
  - 250
  - 0

- **Torque**
  - [Nm]
  - 5,000
  - 4,000
  - 3,000

- **Absolute fuel consumption**
  - [l/h]
  - 250
  - 150

V12-1400 with 1,029 kW (1,400 hp at 2,300 rpm)

**V12-1550**

- **Power**
  - [kW]
  - 1,250
  - 1,000
  - 750
  - 500
  - 250
  - 0

- **Torque**
  - [Nm]
  - 5,000
  - 4,000
  - 3,000

- **Absolute fuel consumption**
  - [l/h]
  - 300
  - 200

V12-1550 with 1,140 kW (1,550 hp at 2,300 rpm)

Characteristics

- Cylinders and arrangement: 12 cylinders in 90° V design
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: 2-stage 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: Plate heat exchanger, seawater cooled
- Engine control: Electronic injection control (EDC)
  
  Electronic engine monitoring including diagnostic unit
- Exhaust gas status: IMO Tier 2, RCD 94/25/EC, EPA Tier 2, 97/68/EC
- Fuel: DIN EN 590
Technical features V12-1650 and V12-1800

<table>
<thead>
<tr>
<th>Type of engine</th>
<th>V12-1650</th>
<th>V12-1800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement</td>
<td>24.24</td>
<td>24.24</td>
</tr>
<tr>
<td>Maximum output to DIN ISO 3046-1 1)</td>
<td>1,213 (1,650)</td>
<td>1,324 (1,800)</td>
</tr>
<tr>
<td>Rated speed</td>
<td>2,300</td>
<td>2,300</td>
</tr>
<tr>
<td>Maximum torque at speed</td>
<td>5,520</td>
<td>6,020</td>
</tr>
<tr>
<td>Weight (dry)</td>
<td>2,400</td>
<td>2,365</td>
</tr>
<tr>
<td>Fuel consumption at rated power</td>
<td>315</td>
<td>339</td>
</tr>
<tr>
<td>Classifiable</td>
<td>✓</td>
<td>–</td>
</tr>
</tbody>
</table>

1) The ratings are only for operation of private yachts.

Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>V12-1650</th>
<th>V12-1800</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Overall width of engine</td>
<td>1,150</td>
<td>1,153</td>
</tr>
<tr>
<td>B-Overall length of engine</td>
<td>2,255</td>
<td>2,139</td>
</tr>
<tr>
<td>C-Overall height of engine</td>
<td>1,350</td>
<td>1,265</td>
</tr>
<tr>
<td>D-Top of engine to crankshaft centre</td>
<td>885</td>
<td>811</td>
</tr>
<tr>
<td>E-Length of engine from front end to edge of flywheel housing</td>
<td>1,667</td>
<td>1,658</td>
</tr>
</tbody>
</table>

For detailed examinations of installation dimensions, please order drawings from our factory.
Power charts V12-1650 and V12-1800.

V12-1650

- **Power**
  - 0 [kW]
  - 250
  - 500
  - 750
  - 1,000
  - 1,250
  - 1,500
  - 1,750
  - 2,000

- **Torque**
  - 0 [Nm]
  - 4,000
  - 5,000
  - 6,000

- **Absolute fuel consumption**
  - 0 [l/h]
  - 100
  - 200
  - 300

- At full load
- At propeller curve

V12-1800

- **Power**
  - 0 [kW]
  - 250
  - 500
  - 750
  - 1,000
  - 1,250
  - 1,500
  - 1,750
  - 2,000

- **Torque**
  - 0 [Nm]
  - 4,000
  - 5,000
  - 6,000

- **Absolute fuel consumption**
  - 0 [l/h]
  - 100
  - 200
  - 300

- At full load
- At propeller curve

V12-1650 with 1,213 kW (1,650 hp at 2,300 rpm)

V12-1800 with 1,324 kW (1,800 hp at 2,300 rpm)