The MAN 32/44CR engine represents the newest technologies in the area of medium speed marine diesel engines. By the use of electronic injection, high efficiency turbochargers, electronic hardware, and variable valve timing the MAN 32/44CR is a synthesis of the most advanced large engine technologies available.

**Benefits at a glance**
- High efficiency
- High specific power output
- Low emissions
- Low operating and life cycle costs
- Long maintenance intervals and service life
- High reliability
General
- Engine cycle: Four-Stroke
- No. of cylinders: 12, 14, 16, 18, 20
- Bore: 320 mm – Stroke: 440 mm
- Swept volume per cyl: 35.4 dm³

Fuel consumption at 85% MCR*
- SFOC: 172 g/kWh
- SFOC (14 cyl.): 173 g/kWh, 580 kW

Cylinder output (MCR)
- At 750/720 rpm: 600 kW
- At 750/720 rpm: 580 kW (14 cyl.)
- Power-to-weight ratio: 14.3 – 16.3 kg/kW

Compliance with emission regulations*
- IMO Tier II
- IMO Tier III (with MAN SCR)
- EPA Tier 2

Main features
- Turbocharging system
  High efficiency constant pressure MAN TCR series exhaust turbocharging system

Optional equipment
- ECOMAP concept – using of different IMO Tier II compliant injection maps to improve fuel economy
- Frame Auxiliary Box (FAB) attached at engine free end

Dimensions

<table>
<thead>
<tr>
<th>Cyl. No.</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5,382</td>
<td>6,012</td>
<td>6,642</td>
<td>7,272</td>
<td>7,902</td>
</tr>
<tr>
<td>B</td>
<td>4,201</td>
<td>4,201</td>
<td>4,201</td>
<td>4,201</td>
<td>4,201</td>
</tr>
<tr>
<td>C</td>
<td>11,338</td>
<td>11,968</td>
<td>12,598</td>
<td>13,228</td>
<td>13,858</td>
</tr>
<tr>
<td>H</td>
<td>5,014</td>
<td>5,014</td>
<td>5,014</td>
<td>5,014</td>
<td>5,014</td>
</tr>
<tr>
<td>Dry mass</td>
<td>117</td>
<td>131</td>
<td>144</td>
<td>159</td>
<td>172</td>
</tr>
</tbody>
</table>

Output

<table>
<thead>
<tr>
<th>Speed</th>
<th>750</th>
<th>750</th>
<th>720</th>
<th>720</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>50</td>
<td>50</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>MAN 12V32/44CR</td>
<td>7,200</td>
<td>6,984</td>
<td>7,200</td>
<td>6,984</td>
</tr>
<tr>
<td>kW</td>
<td>MAN 14V32/44CR**</td>
<td>8,120</td>
<td>7,876</td>
<td>8,120</td>
</tr>
<tr>
<td>kW</td>
<td>MAN 16V32/44CR</td>
<td>9,600</td>
<td>9,312</td>
<td>9,600</td>
</tr>
<tr>
<td>kW</td>
<td>MAN 18V32/44CR</td>
<td>10,800</td>
<td>10,476</td>
<td>10,800</td>
</tr>
<tr>
<td>kW</td>
<td>MAN 20V32/44CR</td>
<td>12,000</td>
<td>11,640</td>
<td>12,000</td>
</tr>
</tbody>
</table>

*Based on nominal generator efficiencies of 97%
**580 kW/cyl

Last updated December 2017

MAN Diesel & Turbo, 86224 Augsburg, Germany
Phone +49 821 322 0, Fax +49 821 322 3382
info@mandieselturbo.com, www.marine.mandieselturbo.com