# N16.1100 CR3 Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power at crankshaft</td>
<td>809 kW [1100 hp]</td>
</tr>
<tr>
<td>Displacement</td>
<td>16.4 l [1000.8 in³]</td>
</tr>
<tr>
<td>Configuration</td>
<td>8 cylinders in V</td>
</tr>
<tr>
<td>Operation type</td>
<td>4 stroke Diesel</td>
</tr>
<tr>
<td>Bore &amp; Stroke</td>
<td>130 x 154 mm [5.1 x 6.1 in]</td>
</tr>
<tr>
<td>Compression ratio</td>
<td>15.7 : 1</td>
</tr>
<tr>
<td>Rated speed</td>
<td>2300 rpm</td>
</tr>
<tr>
<td>Idling speed</td>
<td>600 rpm</td>
</tr>
<tr>
<td>Peak torque</td>
<td>4027 Nm</td>
</tr>
<tr>
<td>Peak torque speed</td>
<td>1600 rpm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engine base</th>
<th>Scania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel system</td>
<td>Extra High Pressure Injection (XPI)</td>
</tr>
<tr>
<td>Air intake</td>
<td>Twin turbocharged with air-to-seawater after cooler</td>
</tr>
<tr>
<td>Cooling</td>
<td>Closed cooling with heat exchanger and aftercooler</td>
</tr>
<tr>
<td>Max mounting angle</td>
<td>12° Front up 12° Front down</td>
</tr>
<tr>
<td>Alternator</td>
<td>24 Volt 100 Amp</td>
</tr>
<tr>
<td>Rating</td>
<td>M5.L M6.S</td>
</tr>
<tr>
<td>Emission compliance</td>
<td>IMO Tier II NRMM 97/68/EC</td>
</tr>
<tr>
<td>Dry weight</td>
<td>1660 kg [3659.7 lbs]</td>
</tr>
</tbody>
</table>
N16.1100 CR3
809 kW [1100 hp] at 2300 rpm

TECHNICAL DESCRIPTION

ENGINE BLOCK
- Extra high pressure fuel injection system, XPI
- Twin Turbochargers
- Protection covers

FUEL SYSTEM
- Scania Engine Management System, EMS
- Fuel pre-filter with water separator
- Fuel filter

LUBRICATION SYSTEM
- Oil filter, full flow
- Oil cooler, integrated in block
- Oil draining with plug
- Shallow oil sump
- Oil dipstick

COOLING SYSTEM
- Sea water pump

ELECTRICAL SYSTEM & INSTRUMENTATION
- Starter, 2-pole 7.0 kW
- Alternator, 2-pole 24V / 100A

OTHER FEATURES
- Flywheel SAE 14"
- Silumin flywheel housing, SAE 1 flange
- Front-and-rear mounted engine brackets
- Closed crankcase ventilation
- Air cleaners
- Flexible engine mounts
- Damper

OPTIONAL SYSTEMS & ACCESSORIES
- Predisposition for SAE B hydraulic pump
- Axial front PTO
- Exhaust connections
- Cabin heater
- Rigid mounts
- Oil draining pump
- Oil level sensor
- Bilge pump

RATINGS
M5.L
- Up to 2000 hours per year
- Load factor up to 77%
- Full power for no more than 1 hour out of each 6 hours of operation.

M6.S
- Up to 500 hours per year
- Load factor up to 50%
- Full power for no more than 1 hour out of each 12 hours of operation.

TRANSMISSIONS
- Contact your Nanni representative for more details and availability about transmissions types and models range.

PERFORMANCE CURVES

POWER AT CRANKSHAFT

TORQUE AT CRANKSHAFT

FUEL CONSUMPTION

DIMENSIONS