# N13.900 CR3

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power at crankshaft</td>
<td>662 kW [900 hp]</td>
</tr>
<tr>
<td>Displacement</td>
<td>12.7 l [775 in³]</td>
</tr>
<tr>
<td>Configuration</td>
<td>6 cylinders in line</td>
</tr>
<tr>
<td>Operation type</td>
<td>4 stroke Diesel</td>
</tr>
<tr>
<td>Bore &amp; Stroke</td>
<td>130 x 160 mm [5.1 x 6.3 in]</td>
</tr>
<tr>
<td>Compression ratio</td>
<td>17.3 : 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>3140 Nm</td>
</tr>
<tr>
<td>Peak torque speed</td>
<td>1700 rpm</td>
</tr>
<tr>
<td>Engine base</td>
<td>Scania</td>
</tr>
<tr>
<td>Fuel system</td>
<td>Extra High Pressure Injection (XPI)</td>
</tr>
<tr>
<td>Air intake</td>
<td>Turbocharged with after cooler</td>
</tr>
<tr>
<td>Cooling</td>
<td>Closed cooling with heat exchanger and charge air cooler</td>
</tr>
<tr>
<td>Max mounting angle</td>
<td>12° Front down 12° Front up</td>
</tr>
<tr>
<td>Alternator</td>
<td>24 Volt 100 Amp</td>
</tr>
<tr>
<td>Rating</td>
<td>M6.S</td>
</tr>
<tr>
<td>Emission compliance</td>
<td>US tier 3 EU Stage II RCD2</td>
</tr>
<tr>
<td>Dry weight</td>
<td>1285 kg [2833 lbs]</td>
</tr>
</tbody>
</table>
N13.900 CR3
662 kW [900 hp] at 2300 rpm

TECHNICAL DESCRIPTION

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

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

LUBRICATION SYSTEM
- Oil filter, full flow
- Centrifugal oil cleaner
- Oil cooler, integrated in block
- Oil filter
- Oil draining with plug
- Low 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-mounted engine brackets
- Closed crankcase ventilation
- Air cleaner
- Flexible engine mounting
- Damper pulley

OPTIONAL SYSTEMS & ACCESSORIES
- Hydraulic pump
- Side-mounted PTO (SAE A)
- Axial front-mounted PTO
- Exhaust connections
- Engine heater
- Stiff rubber suspension
- Studs in flywheel housing
- Oil draining with pump
- Oil level sensor
- Bilge pump

RATINGS
M6.S
- Up to 500 annual operating hours
- Load factor up to 50%
- Full power for no more than 1 hour out of each 20 hours of operation. The remaining operation time must be at or below cruising speed.

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

NANNI INDUSTRIES S.A.S.
11, Avenue Mariotte - Zone Industrielle
33260 La Teste - France
Tel: +33 (0)5 56 22 30 60
Fax: +33 (0)5 56 22 30 79

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