

N13.700 CR3

SPECIFICATIONS



Power at crankshaft	515 kW [700 hp]	Engine base	Scania
Displacement	12.7 l [775 in ³]	Fuel system	Extra High Pressure Injection (XPI)
Configuration	6 cylinders in line	Air intake	Turbocharged with after cooler
Operation type	4 stroke Diesel	Cooling	Closed cooling with heat exchanger and charge air cooler
Bore & Stroke	130 x 160 mm [5.1 x 6.3 in]	Max mounting angle	12° Front down 12° Front up
Compression ratio	17.3 : 1	Alternator	24 Volt 100 Amp
Rated speed	2300 rpm	Rating	M6.S / M5.L
Idling speed	600 rpm	Emission compliance	US tier 3 IMO Tier II EU Stage IIIA RCD2
Peak torque	2972 Nm	Dry weight	1285 kg [2833 lbs]
Peak torque speed	1500 rpm		

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515 kW [700 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

- Housing SAE1
- 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
- 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 12 hours of operation. The remaining operation time must be at or below cruising speed

M5.L

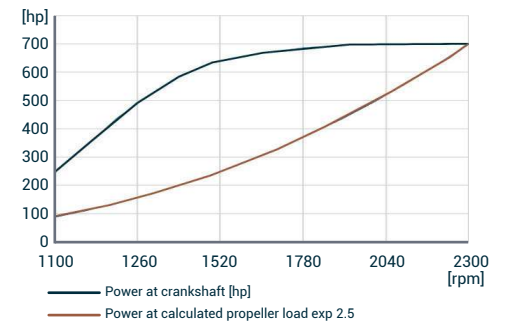
- Up to 2000 annual operating hours
- Load factor up to 77%
- Full power for no more than 1 hour out of each 6 hours of operation. The remaining operation time must be at or below cruising speed

TRANSMISSIONS

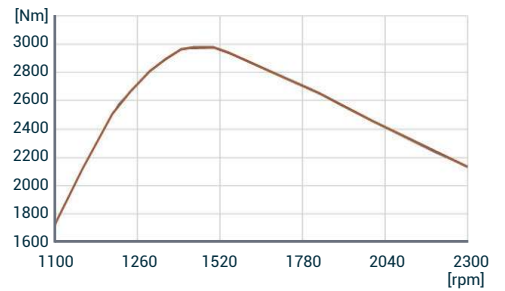
- Contact your Nanni representative for more details and availability about transmissions types and models range.

PERFORMANCE CURVES

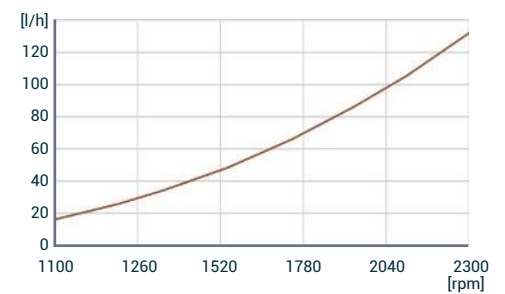
POWER AT CRANKSHAFT



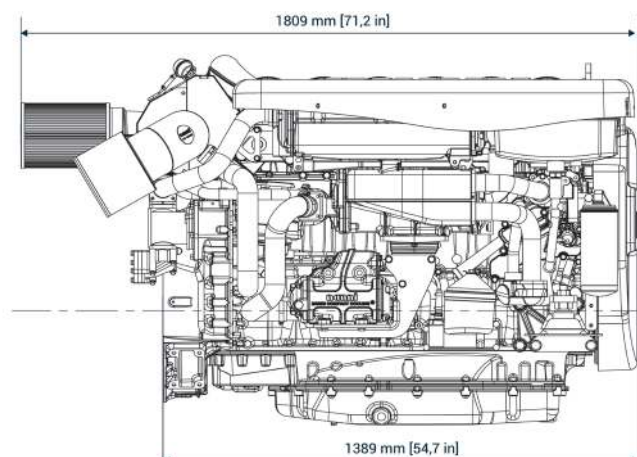
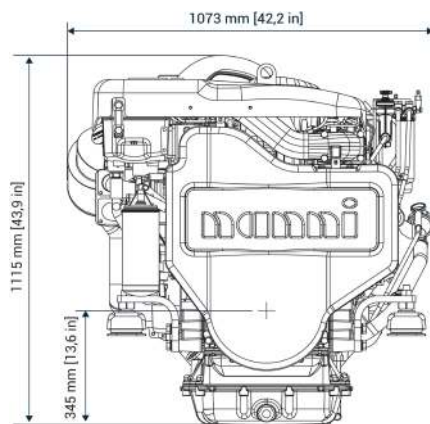
TORQUE AT CRANKSHAFT



FUEL CONSUMPTION



DIMENSIONS



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