

# SCANIA DI13 080M

> 184 kW (250 HP)



## Engine description

### DI13 080M. 184 kW (250 hp)

<b>Engine speed</b>	1,800 rpm
<b>Emission compliance</b>	US Tier 3, IMO Tier II, CCNR II
<b>Rating</b>	ICFN
<b>No of cylinders</b>	6 in-line
<b>Working principle</b>	4-stroke
<b>Displacement</b>	12.7 litres
<b>Weight</b>	1,285 kg - with heat exchanger (excl. oil and coolant) 1,180 kg - with keel cooling (excl. oil and coolant)
<b>Oil capacity</b>	39-45 litres (standard oil sump)
<b>Electrical system</b>	2-pole, 24 V DC

The marine engines from Scania are based on a robust design with a strength optimized cylinder block containing wet cylinder liners that can easily be exchanged. Individual cylinder heads with 4 valves per cylinder promotes reparability and fuel economy.

The engine is equipped with a Scania developed Engine Management System, EMS, to ensure the control of all aspects related to engine performance. The injection system is based on electronically controlled unit injectors, which gives low exhaust emissions with good fuel economy and a high torque already at low revs.

The engine can be equipped with many accessories such as air cleaners, PTOs, transmissions and instrumentation, to suit a variety of installations.

#### Standard equipment

- Scania Engine Management System, EMS
- Unit injectors, PDE
- Turbocharger
- Saver ring in cylinder liner
- Fuel filter and extra pre-filter with water separator
- Oil filter, full flow
- Centrifugal oil cleaner
- Oil cooler, integrated in cylinder block
- Oil filler, in cylinder block
- Deep front oil sump with ladder frame
- Oil dipstick, in cylinder block
- Starter motor, 2-pole 7.0 kW
- Alternator, 2-pole 100 A
- Flywheel SAE 14
- Silumin flywheel housing, SAE 1 flange
- Front-mounted engine suspension
- Closed crankcase ventilation
- Protection covers

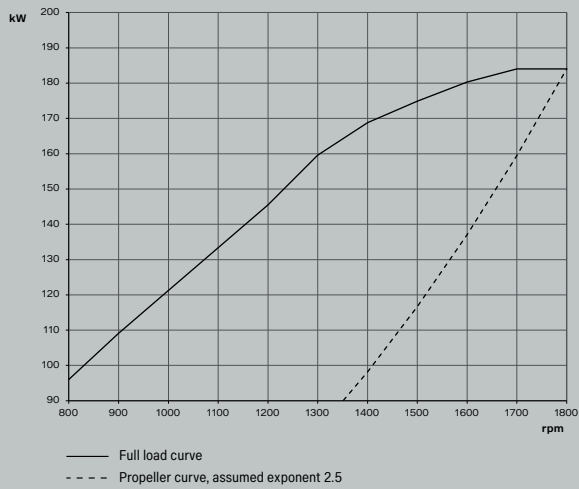
#### Engines with heat exchanger:

- Sea water pump
- Heat exchanger with expansion tank
- Sea water-cooled charge air cooler

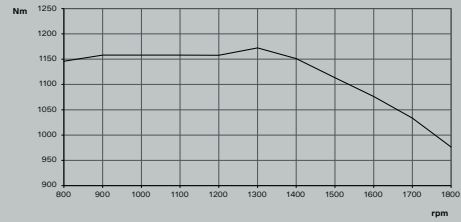
**ICFN – Continuous service:** Rated power available 1 h/1 h.  
Unlimited h/year service time at a load factor of 100%.

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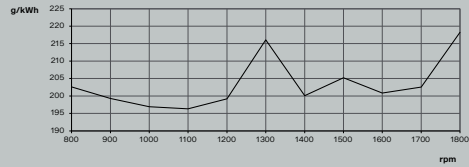
## Power



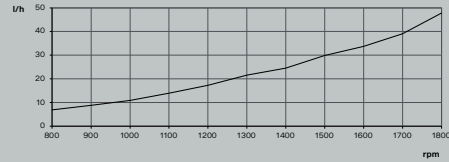
## Torque



## Fuel consumption



## Fuel consumption, propeller curve

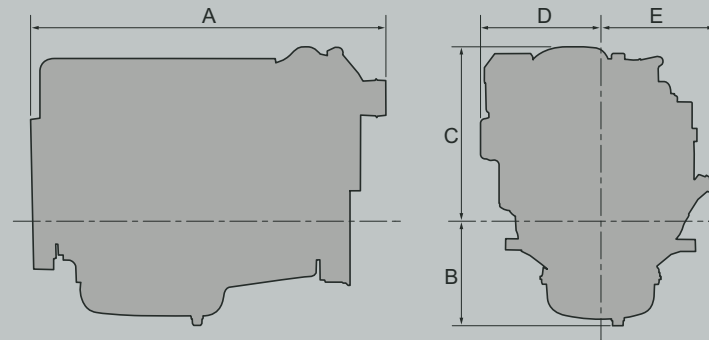


**Test conditions:** Air temperature 25°C. Barometric pressure 100 kPa (750 mmHg). Humidity 30%. Diesel fuel according to ECE R 24 Annex 6. Density of fuel 0.840 kg/dm<sup>3</sup>. Viscosity of fuel 3.0 cSt at 40°C. Energy value 42,700 kJ/kg. **Power test code:** ISO 3046. Power and fuel values ±3%.

## Dimensions

A Overall length	1,503
B Centre of crankshaft to bottom	448
C Centre of crankshaft to top	726
D Centre of crankshaft to right-hand side	502
E Centre of crankshaft to left-hand side	472

Engine with heat exchanger.  
All dimensions indicated in mm.



## Technical data

	Engine speed (rpm)		
	1,200	1,500	1,800
Gross power (kW)	145	175	184
Gross power (hp, metric)	198	238	250
Gross power, propeller curve (kW)	67	117	184
Gross power, propeller curve (hp, metric)	91	159	250
Gross torque (Nm)	1,158	1,114	976
Spec. fuel consumption at full load (g/kWh)	199	205	218
Spec. fuel consumption, propeller curve (l/h)	17	30	48
Heat rejection to coolant (kW)	115	138	160

Edition 05

This specification may be revised without notice.