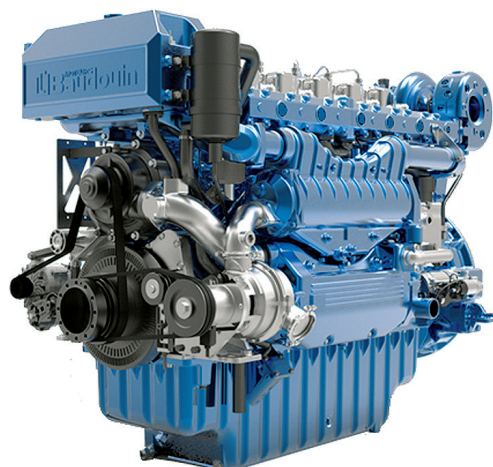


# 6 M33.2

## 4 Stroke diesel engine, direct injection

Bore and stroke	150 x 185 mm
Number of cylinders	6 in line
Total displacement	19,6 litres
Compression ratio	15/1
Engine rotation (ISO 1204 standard)	counterclockwise
Idle speed	650 rpm
Flywheel housing	SAE 1
Flywheel	SAE 14"



## Customer benefits

**Continuous compact power** with reference torque performance in its category

**Global environment care** with low exhaust emissions and controlled fuel consumption at any running cycle

**Simple technology with mechanical injection**

**Life cycle cost efficiency** with extended mean time between overhauls (MBTO)

## Rated power - Fuel consumption

Duty	kW	hp	rpm	Fuel consumption g/kWh	Peak torque / speed (N.m / rpm)	IMO
P1	478	650	1800	211	3056 / 1300	II
P1	515	700	1800	209	3085 / 1300	II
P2	551	750	1800	214	3684 / 1400	II

## Power definition

Standard ISO 3046/1

## Reference conditions

Ambient temperature	25 °C / 77 °F
Barometric pressure	100 kPa
Relative humidity	30%R
Raw water temperature	25 °C / 77 °F

	P1	P2
Application	Unrestricted continuous	Continuous
Engine load variations	Very little / none	Numerous
Mean engine load factor	80 - 100%	30 - 80%
Annual working time	5000 hr +	3000 - 5000 hr
Time at full load	Unlimited	8 hr every 12 hr

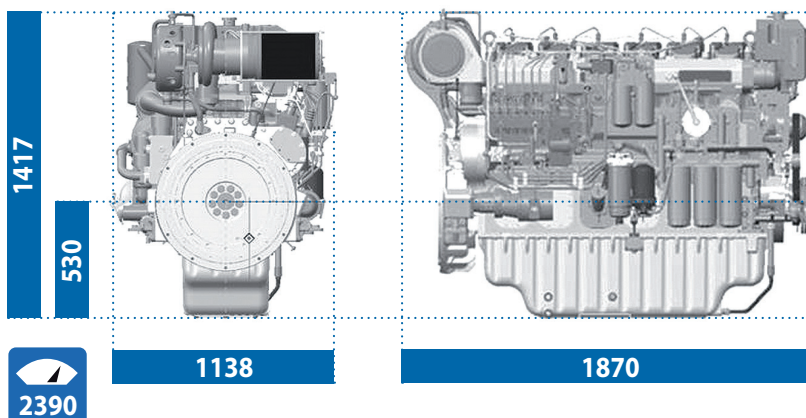
## Dimensions and dry weight (mm / kg)

## Fuel oil

Relative density	0,840 ± 0,005
Lower calorific power	42 700 kJ/kg
Consumption tolerances	0 ± 5%
Inlet limit temperature	35 °C / 95 °F

**Our ratings also comply with classification societies maximum temperature definition without power derating.**

Ambient temperature	45 °C / 113 °F
Raw water temperature	32 °C / 90 °F



## Standard equipment

### Cooling system

Fresh / raw water heat exchanger with integrated thermostatic valves and expansion tank  
Cast iron centrifugal fresh water pump, mechanically driven  
Bronze self-priming raw water pump, mechanically driven

### Lubrication system

Full flow screwable oil filters  
Fresh water cooled lube oil cooler  
Lube oil purifier with replaceable cartridge  
Manual prelubricating oil pump

### Fuel system

In-line injection pump with flanged mechanical governor  
Double wall injection bundle with leakage collector  
Duplex fuel filters replaceable while engine running

### Intake air and exhaust system

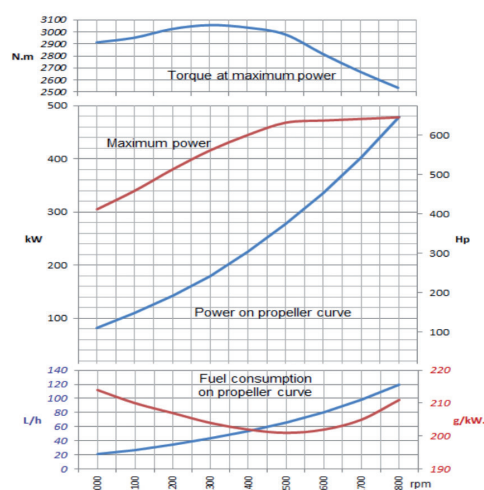
Fresh water cooled turbo blower  
Fresh water cooled exhaust gas manifold

### Electrical system

Voltage: 24VDC  
Electrical starter on flywheel crown  
175A battery charger  
Engine room and bridge panels

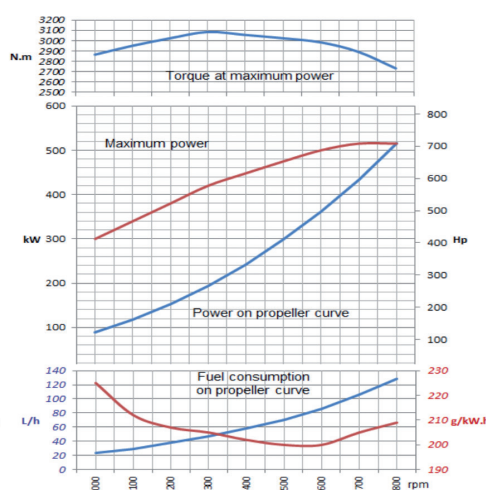
## Performance

P1 - 478 kW - 1800 rpm



## Performance

P1 - 515 kW - 1800 rpm



## Performance

P2 - 551 kW - 1800 rpm

