

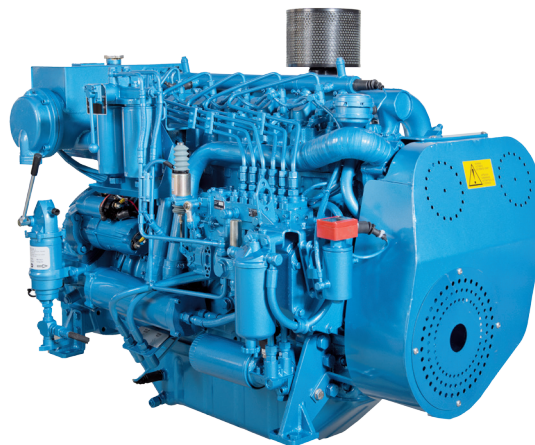


## Marine Engines

# 6 W105M

**4 Stroke diesel engine, direct injection**

Bore and stroke	105 x 130 mm
Number of cylinders	6 in line
Total displacement	6,75 litres
Compression ratio	18/1
Engine rotation (ISO 1204 standard)	counterclockwise
Idle speed	650 rpm
Flywheel housing	SAE 3
Flywheel	SAE 11,5"



### Customer benefits

**Built for heavy duty applications** with reference performances in its category

**Easy service** with accessible components and unit cylinder heads

**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	l/h	IMO
P2	136	185	2100	211	34	II
P3	168	228	2425	216	43	II

	P2 duty	P3 duty
Application	continuous	intermittent
Engine load variations	numerous	important
Average engine load factor	30 to 80 %	50 %
Annual working time	3000 to 5000 h	1000 to 3000 h
Time at full load	8 h each 12 h	2 h each 12 h

### Power definition

Standard ISO 3046/1 - 1995 (F)

#### Reference conditions

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

#### 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

### Engine and block

Cast iron cylinder block, with replaceable cylinder liners  
 Separate cast iron cylinder heads  
 Replaceable valves guides and seats  
 Steel forged crankshaft with 7 bearings  
 Lube oil cooled light alloy piston with 3 high performance piston rings

### 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

### Fuel system

In line injection pump with flanged mechanical governor  
 Double wall injection bundle  
 Duplex fuel filters replaceable engine running  
 Water separator

### Intake air and exhaust system

Insulated exhaust gas manifold  
 Turbo blower with insulated turbine housing  
 Low water temperature cooled intake air cooler

### Electrical system

Voltage: 24Vcc  
 Electrical starter on flywheel crown  
 35A battery charger

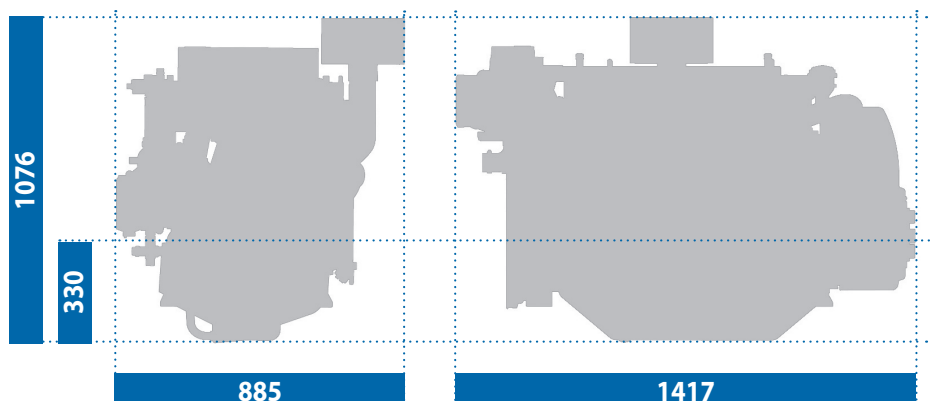
## Optional equipment

Cooling system adapted for box / keel cooling  
 Connection for emergency raw water circuit  
 Bilge pump  
 Air starter

Free end PTO  
 Resilient mounts under engine  
 Exhaust water injection after turbocharger

\* contact us for further information regarding our options.

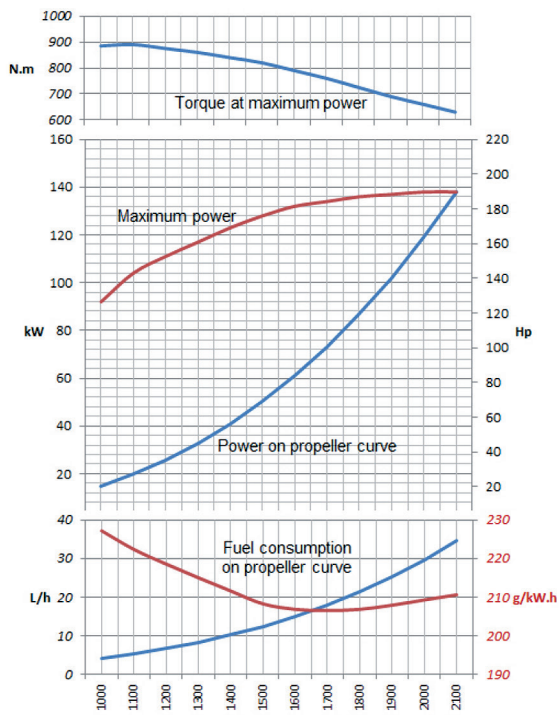
## Dimensions and dry weight (mm / kg)





**Performance**

**P2 - 136 kW - 185 hp @2100 rpm**



**P3 - 168 kW - 228 hp @2425 rpm**

