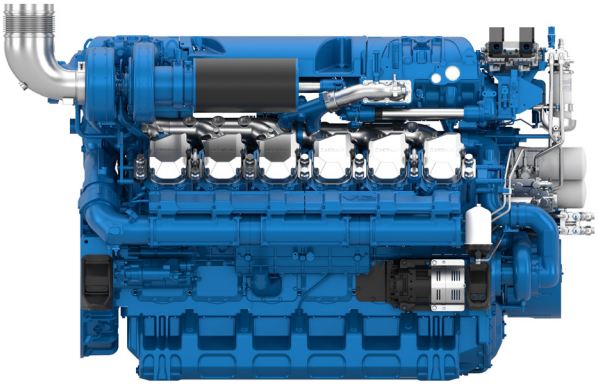
# 12M26.3

Propulsion Diesel Engine



| | |
|---|---|
| Number of cylinders | 12V @ 90 |
| Bore and stroke (mm) | 150 X 150 |
| Total displacement (L) | 31.8 |
| Compression ratio | 15/1 |
| Engine rotation | counter clockwise |
| Idle speed | 650 |
| Flywheel | SAE 0 |
| Flywheel housing | SAE 18" |

## Customer benefits

**Adheres to strict emission regulations** and competitive performance as it is equipped with Most advanced common rail technology and high end injection system (2200 bar)

**Efficieient fuel consumption,** thanks to the highly efficient turbochargers

**Easy maintenance** due to individual cylinder heads

**Highly reliable** key components ensuring longevity

**Life cycle cost efficiency** with extended mean time between overhauls

## Rated power - Fuel consumption

| Duty | kW | HP | RPM | Fuel consumption | | | IMO | EPA | CCNR | CE97/68 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Optimum value | Rated power | | | | | |
| | | | | g/kWh | g/kWh | l/h | | | | |
| P1 | 883 | 1200 | 1800 | 200 | 200 | 207 | II/III | 3/4 | II | III A |
| P2 | 972 | 1320 | 1800 | 199 | 201 | 232 | II | - | II | III A |
| P2 | 1030 | 1400 | 2100 | 199 | 206 | 250 | II/III | 3/4 | II | III A |
| P2 | 1103 | 1500 | 2200 | 200 | 211 | 275 | II/III | 3/4 | II | |
| P3 | 1214 | 1650 | 2300 | 205 | 215 | 311 | II/III | 3/4 | - | - |

* Other power ratings are available on request

| | P1 | P2 | P3 |
|---|---|---|---|
| Application | Unrestricted Continuous | Continuous | Intermittent |
| Engine load variations | Very Little To None | Continuous | Important |
| Average Engine load factor | 80-100% | 30-80% | 60% |
| Annual working time | More Than 5000 H | 3000 -5000 H | 1000 - 3000 H |
| Time at full load | Unlimited | 8h Each 12h | 2h Each 12h |

**P1 Continuous Duty**

- Deep sea trawlers
- Shrimps trawlers
- Sea going tug boats
- River tug boats
- Push boats
- Freighters
- Dredges
- LCT
- Ferries

**P2 Heavy Duty**

- Deep sea trawlers
- Shrimps trawlers
- Sea going tug boats
- River tug boats
- Push boats
- Freighters
- Dredges
- LCT
- Ferries

**P3 Intermittent Duty**

- Seasonal passenger vessels
- Fishing boats
- Pilot boats
- Commercial pleasure boats
- Pump boats
- Displacement sailboats
- Trawlers
- Bow thrusters

**P4 Light Duty**

- Private pleasure boats
- Multi-hull pleasure boats
- Survey or rescue fast vessels
- Military fast vessels.

**P5 High performance Duty**

- Private pleasure boats
- Multi-hull pleasure boats

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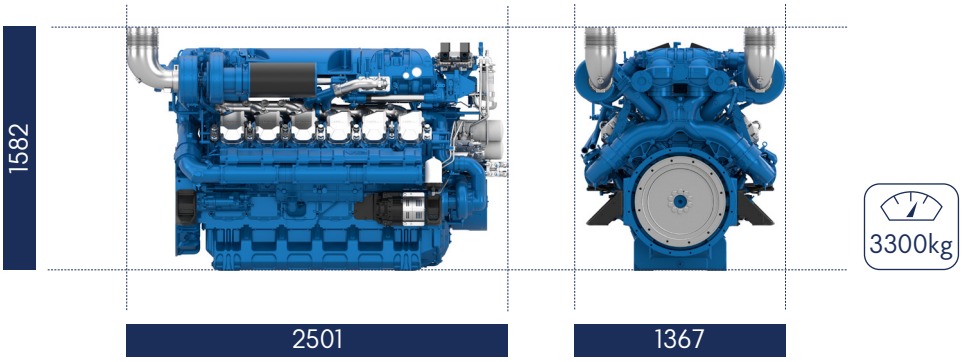
## **Dimensions and dry weight** (mm/kg)




## Standard equipment

| | |
|---|---|
| **Cooling System** | Two - stage cooling circuit with built - in HT thermostatic valve<br>Integrated fresh water expansion tank<br>High efficiency tubular heat exchanger<br>Gear driven centrifugal raw water pump<br>Self priming raw water pump with bronze impeller |
| **Lubrication System** | Full flow lube oil filters duplex type<br>Fresh water cooled lube oil heat exchanger |
| **Fuel System** | Common-rail electronic injection<br>High pressure pump with shielded high pressure injection rail and pipes<br>Fuel oil filter duplex type<br>External fuel pre-filter with water separator |
| **Intake Air and Exhaust System** | Double flow raw water cooled intake air heat exchanger module<br>High efficiency dry turbocharger with ball bearing technology |
| **Electrical System** | Voltage: 24V DC insulated<br>Electrical starter<br>190A battery alternator |
| **Optional Equipment** | Wet exhaust<br>PTO elastic coupling<br>Additional pulley<br>Electric drain system<br>Standard PTO for hydraulic pump<br>Different alternators possible - inlcuding 12V<br>Electrical rotary actuator |

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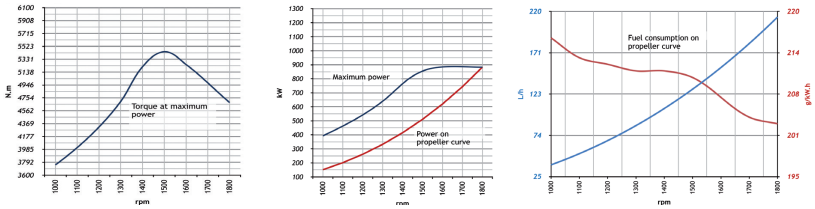
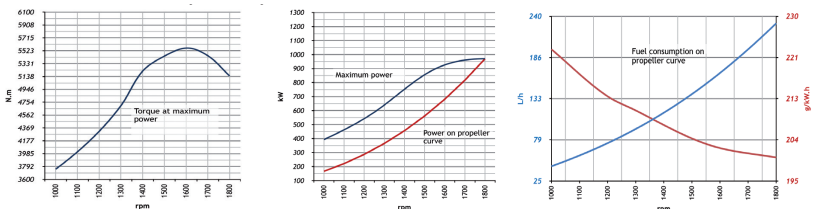
## Performance

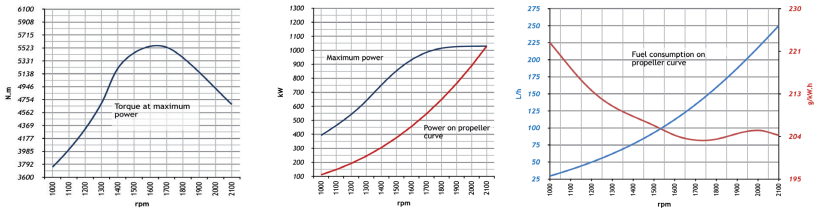
P1 - 883 kW - 1200 hp @1800rpm



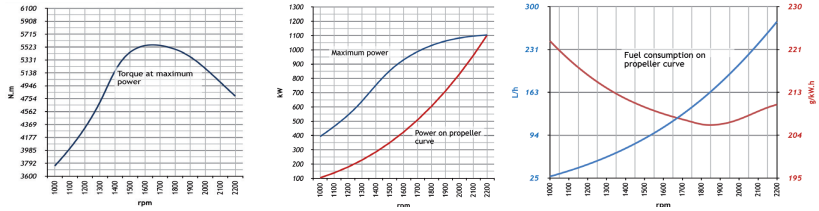

P2 - 970 kW - 1320 hp @1800rpm



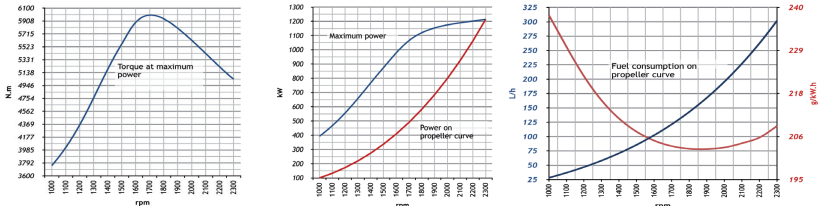

P2 - 1030 kW - 1500 hp @2100rpm




P2 - 1104 kW - 1500 hp @2200rpm




P3 - 1214 kW - 1650 hp @2300rpm




## 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 | + 5% (DIN ISO 3046-1) |
| 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 |

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