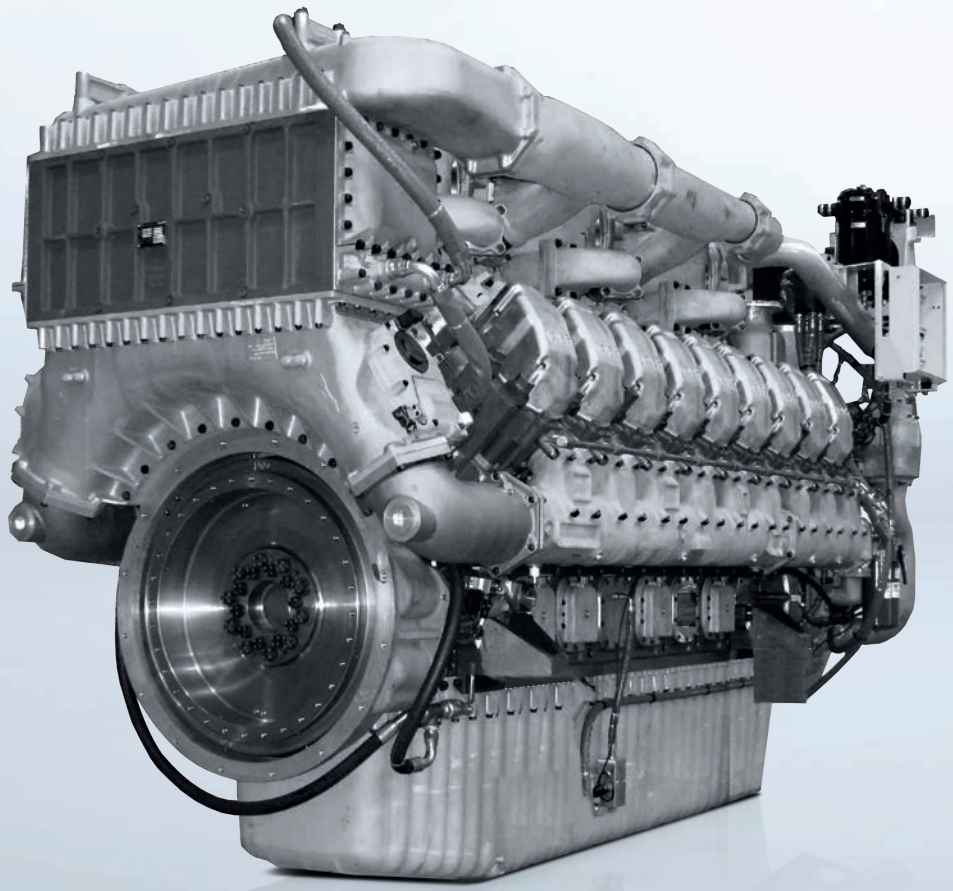
FOUR
STROKE
MARINE
ENGINES



# MAN VP185

## PROPULSION

The MAN VP185 is a compact, high speed diesel engine which offers proven class-beating performance and reliability. The water-cooled exhaust system helps to maintain a low engine room temperature whilst the two-stage turbocharging arrangement provides a wide torque curve.

### Benefits at a glance

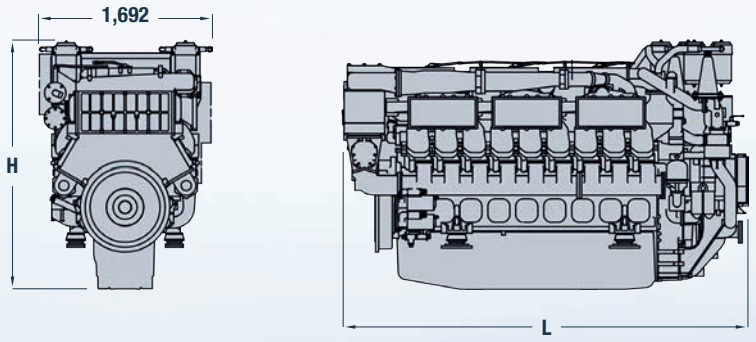
- High reliability
- High operating efficiency across the full power range
- Low acoustic and thermal signatures
- High power-to-weight / power density ratios

Engineering the Future – since 1758.

**MAN Diesel & Turbo**

# MAN VP185

**PROPULSION**




## Dimensions

| Cyl. No. | 12 | 18 | |
|---|---|---|---|
| L | 3,200 | 4,039 | mm |
| H | 2,312 | 2,447 | mm |
| W | 1,962 | 1,962 | mm |
| Dry mass | 7,836 | 11,119 | t |

## Output

| | Unrestricted Marine | | Restricted Marine | | Limited Time | |
|---|---|---|---|---|---|---|
| | Power | Speed | Power | Speed | Power | Speed |
| | kWb | rpm | kWb | rpm | kWb | rpm |
| | (bhp) | | (bhp) | | (bhp) | |
| MAN 12VP185TM | 2,000 | 1,765 | 2,300 | 1,860 | 2,720 | 1,950 |
| | (2,682) | | (3,084) | | (3,647) | |
| MAN 18VP185TM | 3,000 | 1,765 | 3,500 | 1,860 | 4,000 | 1,950 |
| | (4,023) | | (4,693) | | (5,362) | |

Quoted weight includes: air filters, flexible coupling, flexible engine mounts and air starter motor
Last updated August 2016

## General

- Engine cycle: Four-Stroke
- No. of cylinders: 12, 18
- Bore: 185 mm – Stroke: 196 mm
- Swept volume per cyl: 5.269 dm³

## Fuel consumption at 85 % MCR

- SFOC: 211 g/kWh

## Cylinder output (MCR)

- At 1950 rpm: 226.6 kW
- Power-to-weight ratio: 2.69 – 2.88 kg/kW

## Compliance with emission regulations

- IMO Tier II
- IMO Tier III (with MAN SCR)

## Main features

- **Turbocharging system**
  High efficiency two stage turbocharging system, uses multiple low inertia automotive style turbochargers enclosed within a water cooled housing.
- **Engine automation and control**
  Engine Control & Safety, system monitors the propulsion system status within pre-defined parameters. True black ship, start & run capability.
- **Charger air**
  Intercooled and after cooled passive regulation of air temperature from cooler configuration.
- **Fuel system**
  Low pressure fuel system feeds unit pump injectors eliminating high pressure fuel galleries.
- **Exhaust Gas system**
  Water cooled jackets surround the exhaust manifolds and turbochargers to provide a low engine surface temperature.
- **Cooling system**
  Closed circuit primary water system with gear driven engine mounted water pump. Secondary water system with bronze gear driven engine mounted self-priming sea water pump.
- **Starting system**
  Pressurized air starter (turbine type) and / or 2x 9 kW DC electric starter motors and / or hydraulic starter motor.
- **Engine mounting**
  Four point resilient mounting system

## Optional equipment

- Additional PTO at free end of engine. Electronically Fuel Injected engine.

MCR = Maximum Continuous Rating | SCR = Selective Catalytic Reduction | SFOC = Specific Fuel Oil Consumption

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