

# Diesel Engines Series 2000

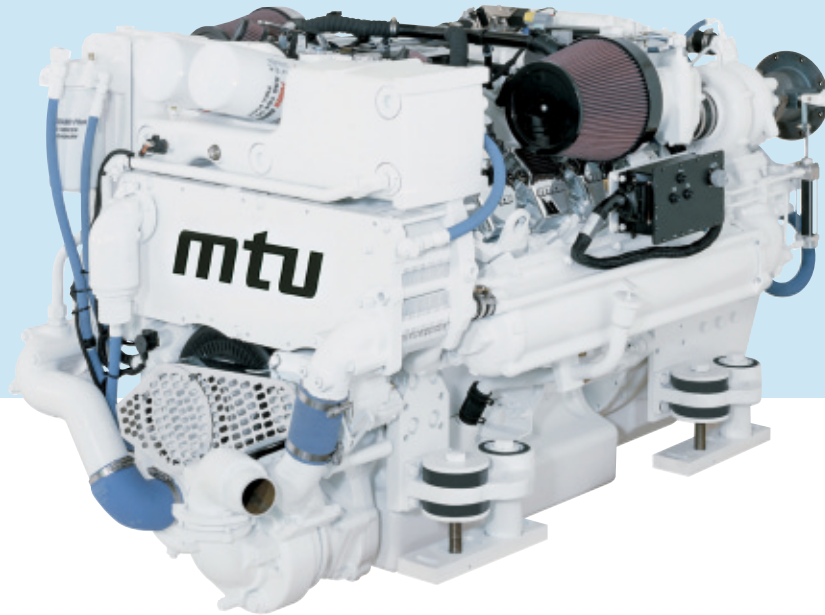
for Marine Applications

Maximum 1DS

671 - kW

913 - mhp

900 - bhp



**Compliant**  
with MARPOL 73/78 (IMO)  
Annex VI NO<sub>x</sub> Limits

## Engine Specifications

Version	8v2000 M90
Displacement	15.9 liters (972cu in)
Bore and Stroke	130 mm x 150 mm (5.12 in. x 5.91 in.)
Description	Sequential turbocharged and charge air cooled
Governor	MDEC
Port Model	
Starboard Model	

## Standard Power Rating

Air Temp. 25 °C	kW	mhp	bhp	rpm
Sea Water Temp. 25 °C				
Rated Power	671	913	900	2300
Rating Conditions			ISO 3046	

## Standard Boat Profile

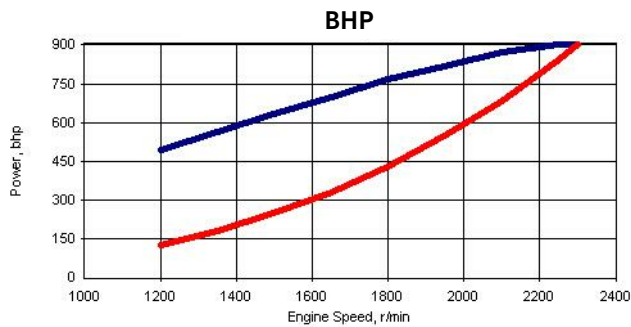
100% Power, 10% Time  
70% Power, 70% Time  
<10% Power, 20% Time

Typical applications

- Privately - owned yachts



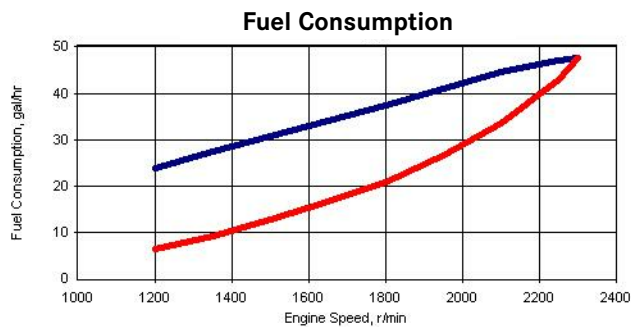
DaimlerChrysler Off-Highway



■ Rated BHP

■ Prop BHP

Power output guaranteed within +2/-0% at ISO 3046 conditions:  
 77°F (25°C) air inlet temperature  
 29.31 in. Hg (99 kPa) dry barometer  
 77°F (25°C) fuel inlet temperature  
 .847 specific gravity at 77°F (25°C)



■ Rated Fuel Consumption

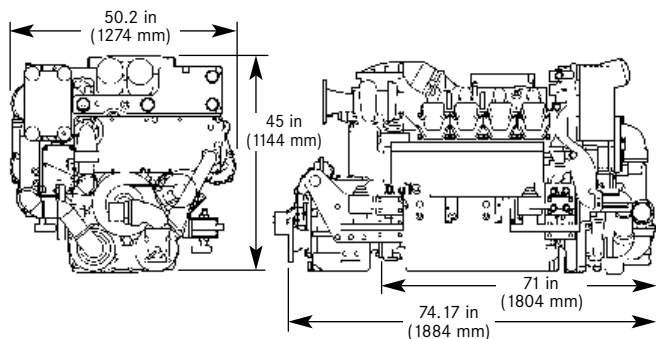
■ Prop Fuel Consumption

Performance shown includes:  
 Air intake restriction: 10 in. H<sub>2</sub>O (2.5kPa)  
 Exhaust back pressure: 15 in. H<sub>2</sub>O (3.7kPa)  
 Fuel Density: 7.07 lb/gal

### Rating Definition - Maximum 1DS

The marine maximum rating applies to high performance application where speed is important and overall load factors are low. Maximum continuous cruising RPM is 2100 and full power is limited to 10% (average) of operating time. This rating is normally reserved for privately-owned yachts in non-revenue applications.

### Dimensional Information



All dimensions are approximate. For complete dimensional information, refer to installation drawing provided by your authorized Detroit Diesel Corporation representative. Typical marine transmission shown.

### Standard Equipment

**Main Engines** - Sequential and wastegate turbocharging; watercooled exhaust components; flywheel housing size SAE #1.

**Fuel System** - Electronic unit pump injection system; duplex secondary fuel filters mounted on front of engine. Double wall fuel lines.

**Engine Oil System** - Dual oil filters to be mounted on engine with diverter valve

**Engine Cooling System** - Titanium plate modular heat exchanger system with integral fuel cooler; gear-driven self-priming raw water pump with 4" hose inlet; coolant recovery bottle

**Air Inlet System** - Direct mounted turbocharger; 24V air shutdown valve

**Electrical** - Starter: 24V, 2-pole isolated ground; Alternator: 24V/100 amp, 2-pole isolated ground, belt driven

**Engine Mounting** - Factory installed resilient mounts

**Exhaust Connection System** - (2) Horizontal dry outlet flanges with bellows

### Optional Equipment

**Air Inlet System** - Electronically actuated air flap

**Exhaust Connection System** - (2) Vertical dry flange elbows

**Marine Gear Transmissions** - Available in numerous ratio's & configurations

**Electronic Engine Monitoring & Controls** - Available

#### Accessory Drives

SAE B rear of flywheel housing, SAE A rear of flywheel housing

**Type PTO Options** - Axial drive off front crank pulley

#### Transmission Accessory Options -

Electric Trolling Valve, trailing pump

Trailing Pump

Live or clutchable C pad PTO

**Appearance Package** - Two part polyurethane paint and chrom valve covers.

**For a complete listing of standard and optional equipment, consult your authorized representative.**



For more information contact your MTU or DDC distributor. All Detroit Diesel distributors in NAFTA are authorized MTU distributors.  
[www.mtu-online.com](http://www.mtu-online.com) / [www.detroitdiesel.com](http://www.detroitdiesel.com) / [marine@detroitdiesel.com](mailto:marine@detroitdiesel.com)