

Diesel Engines Series 4000

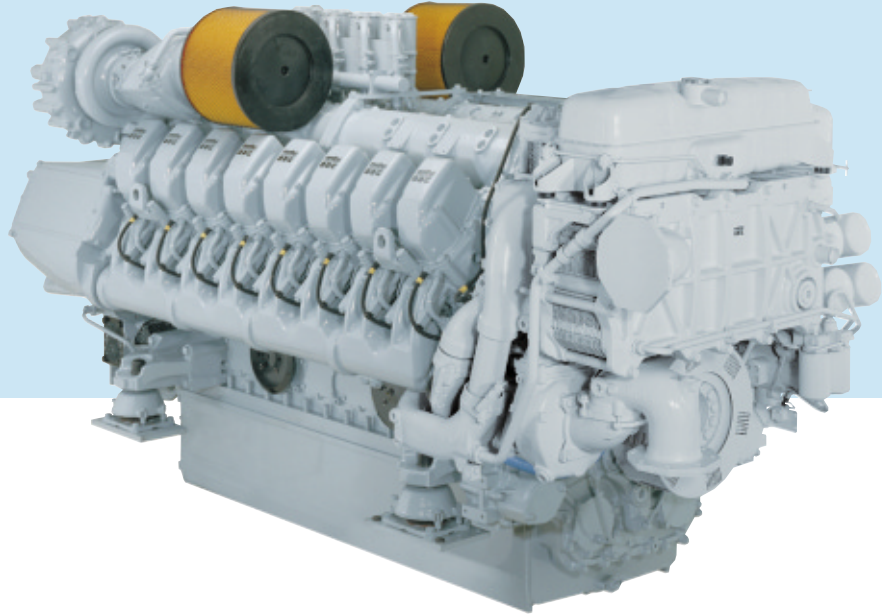
for Marine Applications

Maximum Continuous 1B

2320 - kW

3154 - mhp

3110 - bhp



Compliant

with MARPOL 73/78 (IMO)
Annex VI NO_x Limits

Engine Specifications

Version	16V4000M70
Displacement	65 liters, (3967 cu in)
Bore and Stroke	165 mm x 190 mm (6.50 in x 7.50in)
Description	Charge air cooled, sequential turbocharged
Governor	MDEC
Port Model	T1627M11
Starboard Model	T1627M10

Standard Power Rating

Air Temp. 25 °C	kW	mhp	bhp	rpm
Sea Water Temp. 25 °C				
Rated Power	2320	3154	3110	2000
Rating Conditions	ISO 3046			

Standard Boat Profile

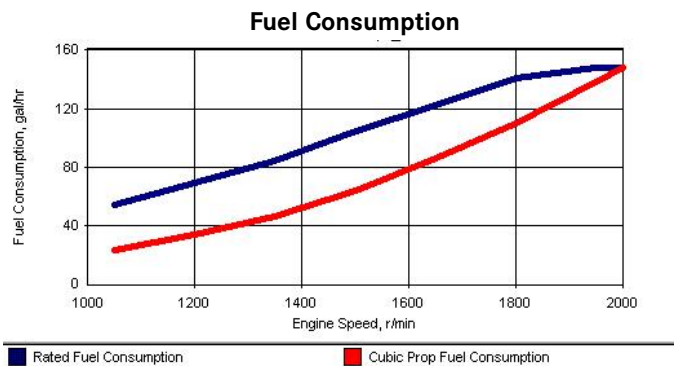
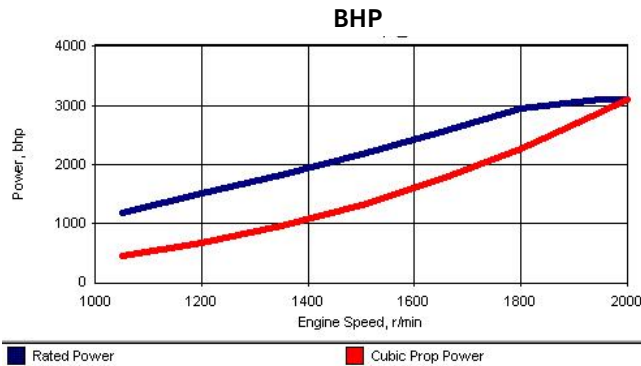
100% Power, 75% Time
<15% Power, 25% Time

Typical applications

- Crew boats
- Water taxis
- Pilot boats
- Ferry boats
- Lobster boats
- Part fish boats
- Charter sport fisherman



DaimlerChrysler Off-Highway



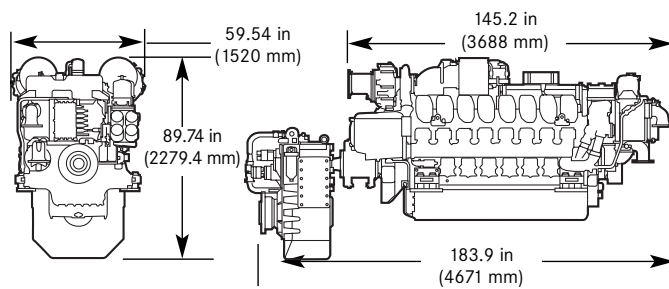
Power output guaranteed within +2/-0% at ISO 3046 conditions:
 77°F (25°C) air inlet temperature
 77°F (25°C) fuel temperature
 .847 specific gravity at 77°F (25°C)
 77°F (25°C) raw water temperature
 29.31 in. Hg (99 kPa) dry barometer

Performance shown includes:
 Usage of diesel fuel with a minimum LHV 42,800 kJ/kg (18,390 Btu/lb) per DIN EN 590
 Air intake restriction: 10 in. H₂O (2.5kPa)
 Exhaust back pressure: 15 in. H₂O (3.7kPa)

Rating Definition - Maximum Continuous

The marine continuous-maximum rating applies to medium to high speed commercial boats that operate at moderate to low load factors. Duration of full throttle operation is limited to 75% of total operating time. Typical examples include crew boats, water taxis, pilot boats, ferryboats, lobster boats, party fishing boats, charter sport fisherman and patrol boats.

Dimensional Information



Dry Weight w/o Marine Gear: 17,097 lbs. (7755 kg)

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

Standard Equipment

- Main Engines** - Sequential turbocharger and watercooled exhaust components; flywheel housing size SAE #00
- Fuel System** - Electronic common rail direct injection system; duplex secondary fuel filters mounted on front of engine; jacketed high pressure lines
- Engine Oil System** - Duplex oil filters mounted on engine with diverter valve; centrifugal bypass filter
- Engine Cooling System** - Titanium plate modular heat exchanger system with integral fuel cooler; gear driven self-priming raw water pump with 5" inlet and 5" outlet of special bronze alloy
- Air Inlet System** - Direct mounted turbochargers
- Electrical** - Starter: 24V, 2-pole isolated ground; Alternator: 28V/ 120 amp, 2-pole isolated ground
- Engine Mounting** - Engine mounts with isolators
- Exhaust Connection System** - (2) Horizontal dry outlet flanges
- Marine Gear** - Vertical offset electronic shift marine gear; remote connected with torsional coupling and gear oil cooler

Optional Equipment

- Starter** - Air starter
- Exhaust Connection System** - (2) Vertical dry flange elbows
(2) Bellows
- Type PTO Options** - Radial drive off front crank pulley Axial drive off front crank hub
- Transmission Accessory Options** - Companion Flange, PTO - Live or clutchable



For more information contact your MTU or DDC distributor. All Detroit Diesel distributors in NAFTA are authorized MTU distributors.
www.mtu-online.com / www.detroitdiesel.com / marine@detroitdiesel.com