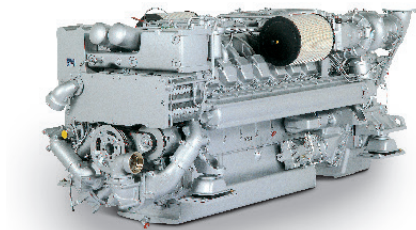




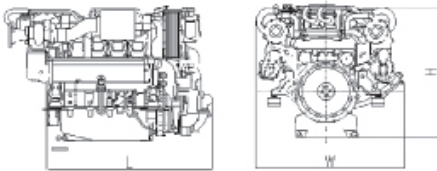
## Marine

# DIESEL ENGINE 12V 2000 M41A/B

for on-board power generation and diesel-electric drives  
in continuous operation (3B)



16V picture



Optional equipment and finishing shown. Standard may vary.

| Engine  | Dimensions (LxWxH) mm (in)              | Mass, dry kg (lbs) |
|---------|---|--------------------|
| M41 A/B | 2105 x 1400 x 1290 (82.9 x 55.1 x 50.8) | 2600 (5732)        |

Specifications are subject to change without notice. All dimensions are approximate, for complete information refer to installation drawing. For further information consult your MTU distributor/dealer.

| Engine type                        |           | 12V 2000 M41A 50 Hz | 12V 2000 M41B 60 Hz |
|------------------------------------|-----------|---------------------|---------------------|
| Rated power ICXN                   | kW        | 575                 | 695                 |
|                                    | (bhp)     | (771)               | (932)               |
| Speed                              | rpm       | 1500                | 1800                |
| No. of cylinders                   |           | 12                  | 12                  |
| Bore/stroke                        | mm (in)   | 130/150 (5.1/5.9)   | 130/150 (5.1/5.9)   |
| Displacement, total                | l (cu in) | 23.9 (1458)         | 23.9 (1458)         |
| Flywheel housing                   |           | SAE O               | SAE O               |
| Exhaust optimization <sup>1)</sup> |           | IMO II              | IMO II              |
| Solas compliance                   |           | Yes                 | Yes                 |

1) IMO – International Maritime Organisation (Marpol-convention)

| Performance & fuel consumption <sup>1)</sup> |       | 12V 2000 M41A | 12V 2000 M41B |
|--|-------|---------------|---------------|
| Speed  | rpm   | 1500          | 1800          |
| Maximum power                                | kW    | 575           | 695           |
|  | bhp   | 771           | 932           |
| 75% Power                                    | kW    | 431           | 521           |
|  | bhp   | 578           | 699           |
| Fuel consumption                             | g/kWh | 205           | 207           |
|  | l/h   | 106.1         | 129.5         |
|  | gal/h | 28.0          | 34.2          |

1) Tolerance +5% per ISO 3046, Diesel fuel to DIN EN 590 with a min L.H.V. of 42800 kJ/kg (18390 BTU/lb)  
All pumps necessary for engine operation included. Heat exchanger version without sea water pump: -2 g/kWh

| Standard equipment              |   |
|---------------------------------|---|
| Starting system                 | Electric starter 24 V   |
| Auxiliary PTO                   | Charging generator, 140A, 28V, 2 pole   |
| Oil system                      | Gear driven lube oil pump, lube-oil duplex filter with diverter valve, lube-oil heat exchanger, handpump for oil                |
| Fuel system                     | Fuel feed pump, fuel pre-filter, fuel main filter with diverter valve, on-engine fuel oil cooler, leak-off tank level monitored |
| Cooling system                  | Coolant-to-raw water plate core heat exchanger, self priming centrifugal raw water pump, gear driven coolant circulation pump   |
| Combustion air system           | Turbocharging with 2 water-cooled exhaust-gas turbochargers, on-engine intake air filters                                       |
| Exhaust system                  | Triple-walled, liquid-cooled, on-engine exhaust manifolds, twin exhaust outlet, exhaust bellows horizontal discharge, SOLAS Kit |
| Mounting system                 | Resilient mounts at free end and driving end  |
| Electronics and instrumentation | Engine and gearbox control and monitoring system (MDEC)   |

| Optional equipment          |   |
|-----------------------------|---|
| Starting system             | Pneumatic starter   |
| Fuel oil system             | Duplex fuel prefilter, fuel conditioning system                   |
| Cooling System              | Coolant preheating system, integr. seawater gearbox piping        |
| Exhaust System              | Exhaust bellows vertical discharge                                |
| Engine Management System    | In compliance with Classification Society Regulations (EMU + MEU) |
| Monitoring / Control System | genoline  |
| Power Transmission          | Torsionally resilient coupling                                    |

Reference conditions:  
> Power definition according ISO 3046  
> Intake air temperature 25°C/Sea water temperature 25°C  
> Intake air depression 15 mbar/Exhaust back pressure 30 mbar  
> Barometric pressure 1000 mbar