

Marine

DIESEL ENGINE 8V 2000 M51

for on-board power generation and diesel-electric drives in continuous operation with variable load (3A)

Engine

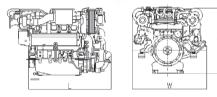
M51

Dimensions (L x W x H) mm (in)

1435 x 1285 x 1150 (56.5 x 50.6 x 45.3)



16V picture



Optional equipment and finishing shown. Standard may vary.

Engine type	8V 2000 M51A 50 Hz	8V 2000 M51B 60 Hz
Rated power ICXN kW	332	400
(bhp)	(445)	(536)
Speed rpm	1500	1800
No. of cylinders	8	8
Bore/stroke mm (in)	130/150 (5.1/5.9)	130/150 (5.1/5.9)
Displacement, total l (cu in)	15.9 (970)	15.9 (970)
Flywheel housing	SAE 1	SAE 1
Exhaust optimization ¹⁾	IMO II	IMO II
Solas compliance	Yes	Yes

1) IMO – International Maritime Organisation



Mass, dry kg (lbs)

1790 (3946)



Performance & fuel consumption 1)	8V 2000 M51A	8V 2000 M51B
Speed rpm	1500	1800
Maximum power kW	332	400
bhp	445	536
75% Power kW	249	300
bhp	334	402
Fuel consumption g/kWh	208	211
at 75% power l/hr	62.4	76.3
gal/hr	16.5	20.1

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 extraction	
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

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.

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