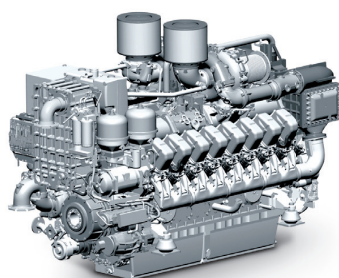




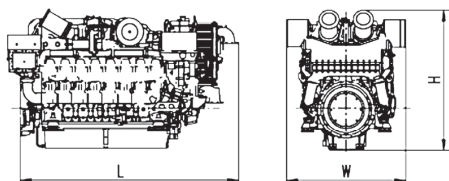
## Marine

# DIESEL ENGINES 16V 4000 M73/M73L

for fast vessels with high load factors (1B)



Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
M73/M73L	3480 x 1465 x 2450 (137.0 x 57.7 x 96.5)	9600 (21164)



Typical applications: ferries, monohulls, hydrofoils, catamarans, surface effect ships and yachts

Optional equipment and finishing shown. Standard may vary.

Engine type		16V 4000 M73	16V 4000 M73L	16V 4000 M73L
Rated power ICFN	kW	2560	2832	2880
	(bhp)	(3433)	(3798)	(3862)
Speed	rpm	1970	2050	2050
No. of cylinders		16	16	16
Bore/stroke	mm (in)	170/190 (6.7/7.5)	170/190 (6.7/7.5)	170/190 (6.7/7.5)
Displacement, total	l (cu in)	69.0 (4210)	69.0 (4210)	69.0 (4210)
Flywheel housing		SAE 00	SAE 00	SAE 00
Optimization of exhaust emissions <sup>1)</sup>		IMO II/EPA 2	IMO III <sup>2)</sup>	IMO II/EPA 2

1) IMO - International Maritime Organization (MARPOL)  
EPA - US marine directive 40 CFR 94

2) with SCR

Fuel consumption *		16V 4000 M73	16V 4000 M73L (2832 kW)	16V 4000 M73L (2880 kW)
at rated power	g/kWh	218	219	220
	l/hr	672	747	763
	gal/h	178	197	202

\* Tolerance +5% per ISO 3046, diesel fuel to DIN EN 590 with a min L.H.V. of 42800kJ/kg (18390 BTU/lb)

Standard equipment	
Starting system	24V electric starter, 2-pole
Oil system	Integral lube-oil pump; automatic oil filter (16/20V), centrifuge, lube oil heat exchanger, pump for oil extraction, priming system
Fuel system	Fuel delivery pump, fuel duplex filter (switchable), common rail injection system with HP pump, pressure accumulator and electronic injection with cylinder cutout, jacketed HP fuel lines, flame-resistant hoses, leak-fuel tank with level monitoring, fuel conditioning system
Cooling system	<b>mtu</b> split-circuit cooling system, map-controlled coolant thermostats, raw water-cooled engine coolant-plate-core heat exchanger, self-priming raw water centrifugal pump, engine coolant circulating pump, raw water connection for gear oil cooling, flame-resistant hoses and rubber bellows
Combustion air system	Water-cooled charge-air pipework, coolant temperature controlled intercooler, sequential turbocharging, with 2 water-cooled turbochargers, seawater-repellent intake air filter on engine with integral intake air silencer
Exhaust system	Triple-walled, liquid-cooled, exhaust manifolds on engine, exhaust bellows, exhaust outlet from horizontal 30° upwards
Engine mounting	Resilient mounts
Power transmission	Torsionally-resilient couplings with offset compensation
Auxiliary PTO	Generator 120A, 28V, 2-pole
Engine management system	Engine control and monitoring system (ADEC), interface to gearbox controller, interface to remote control and monitoring system, local operating panel (LOP), fuel consumption display
Engine safety system	The scope of delivery for the engine fulfills SOLAS requirements for admissible surface temperature without additional insulation

Optional equipment	
Starter	Air starter
Oil system	Oil level monitoring, automatic oil replenishment, main bearing and conrod bearing temperature monitoring
Cooling system	Engine coolant preheater
Exhaust system	Exhaust outlet vertically up
Auxiliary PTO	Auxiliary PTO free crankshaft end
Engine management	Extension as per classification society specifications
Monitoring and control system	<b>mtu</b> MCS Monitoring and Control Systems, RCS Remote Control System
Gearbox options	Various marine reduction-reversing gears, electrically actuated, rigid or resilient gearbox mounting, drive for hydraulic pump on drive or intermediate shaft, trolling system, under tow oil pump, propeller shaft flange
Classification	ABS, BV, CCS, CR, DNV, GL, KR, LR, NK, RINA including necessary extensions to scope of supply.

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 installations drawing. For further information consult your **mtu** distributor/dealer.