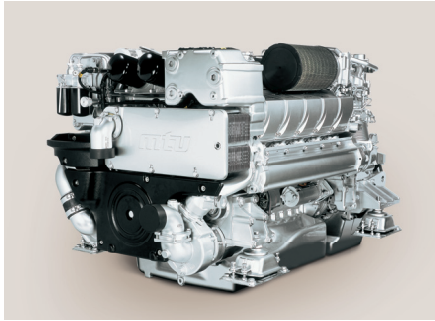


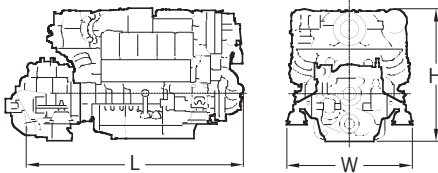
# Diesel Engines 8V/10V 2000 M94

## for Fast Vessels with Low Load Factors (1DS)



### Dimensions and Masses

2000 M94	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
8V	1416x1130x1200 (55.7x44.5x47.2)	1980 (4365)
10V	1600x1135x1250 (63.0x44.7x49.2)	2240 (4938)
2000 M94 - with standard gearbox	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
8V - ZF 550	2055x1130x1200 (80.9x44.5x47.2)	2360 (5203)
10V - ZF 2050	2135x1135x1245 (84.1x44.7x49.0)	2660 (5864)



Typical applications: Fast yachts, fast patrol boats, police craft and fire-fighting vessels

Engine Model	8V 2000 M94	10V 2000 M94
Rated power ICFN      kW (bhp)	932 (1250)	1193 (1600)
Speed                      rpm	2450	2450
No. of cylinders	8	10
Bore/stroke              mm (in)	135/156 (5.3/6.1)	135/156 (5.3/6.1)
Displacement, total    l (cu in)	17.9 (1093)	22.3 (1361)
Flywheel housing	SAE 1	SAE 1
Gearbox model, standard <sup>①</sup>	ZF 550	ZF 2050
Optimization of exhaust emissions <sup>②</sup>	IMO II/EPA 2/EU III A <sup>③</sup>	IMO II/EPA 2/EU III A <sup>③</sup>
Solas compliance	Yes	Yes

<sup>①</sup> gear ratio on request

<sup>②</sup> IMO – International Maritime Organisation; EPA – US Marine Directive 40 CFR 94

<sup>③</sup> on request



Power. Passion. Partnership.

Performance & Fuel Consumption <sup>①</sup>		8V 2000 M94				10V 2000 M94				
Speed	rpm	2450	2100	1700	1200	2450	2100	1700	1200	
Maximum power	kW	932	885	680	395	1193	1120	860	540	
	bhp	1250	1185	910	530	1600	1502	1153	724	
Power on propeller curve (n <sup>3</sup> )	kW	932	570	320	110	1193	750	390	150	
	bhp	1250	765	430	150	1600	1006	523	201	
Fuel consumption	g/kWh	226 <sup>②</sup>	215	230	218	218 <sup>②</sup>	207	212	211	
	on propeller curve (n <sup>3</sup> )	l/h	253	147	88	28	313.3	187.0	99.6	38.1
	gal/h	65.3	38.8	23.4	7.6	82.8	49.4	26.3	10.1	

① Tolerance +5% per ISO 3046, Diesel fuel to DIN EN 590 with a min L.H.V. of 42800kJ/kg (18390 BTU/lb)

② Fuel Consumption for Cruising speed with 70% power at 1900rpm: 8V = 208 g/kWh; 10V = 206 g/kWh

Standard Equipment	
Starting system	Electric starter 24 V
Auxiliary PTO	Charging generator, 80A, 28V, 2 pole
Oil system	Gear driven lube-oil pump, lube-oil duplex filter with diverter valve, lube oil heat exchanger, hand pump for oil extraction
Fuel system	Fuel feed pump, fuel hand pump, fuel pre-filter, fuel main filter with diverter valve, on-engine fuel oil cooler, HP fuel pump, jacketed HP fuel lines, injection nozzles (Common rail system) flame proof hose lines, 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	Sequential turbocharging with 2 water-cooled exhaust-gas turbochargers, on-engine intake air filters
Exhaust system	Triple-walled, liquid-cooled, on-engine exhaust manifolds, single centrally located exhaust outlet, 1 exhaust bellows vertical discharge
Mounting system	Resilient mounts at free end
Engine management system	Engine and gearbox control and monitoring system (ADEC)

Optional Equipment	
Auxiliary PTO	Charging generator, 140A or 200A, 28V, 2 pole, bilgepump, on-engine PTOs
Fuel System	Duplex fuel pre-filter
Cooling System	Coolant preheating system engine mounted, integrated seawater gearbox piping
Exhaust System	Exhaust bellows horizontal discharge
Mounting System	Resilient mounts at driving end
Engine Management System	In compliance with Classification Society Regulations (EMU + MEU)
Monitoring /Control System	<b>smartline, blueine, bluevision</b> , Sturdy Bridge Controls
Power Transmission	Torsionally resilient coupling
Gearbox Options	Reverse reduction gearbox, electronically actuated, gearbox mounts, trolling mode for dead-slow propulsion, free auxiliary PTO, hydraulic pump drives

> The rated power of the stated diesel engines corresponds to ISO 3046-1:2002 (E) and ISO 15550:2002 (E).

> 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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