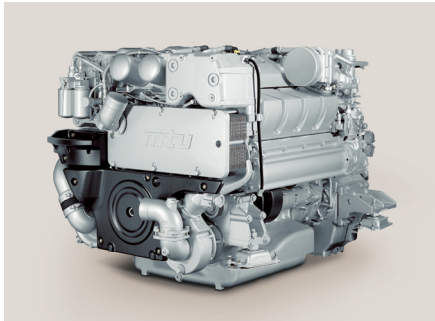


Marine

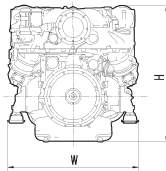
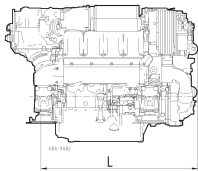
# Diesel Engine 8V 2000 M84

for Fast Vessels with Intermittent Load Factors (1D)



## Dimensions and Masses

8V 2000	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
<b>M84</b>	1416x1130x1200 (55.7x44.5x47.2)	1980 (4365)
8V 2000 - with standard gearbox	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
<b>M84 - ZF 550</b>	2078x1130x1200 (81.8x44.5x47.2)	2360 (5203)



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

Engine Model	8V 2000 M84
Rated power ICFN      kW (bhp)	810 (1085)
Speed                      rpm	2450
No. of cylinders	8
Bore/stroke              mm (in)	135/156 (5.4/6.1)
Displacement, total      l (cu in)	17.9 (1093)
Flywheel housing	SAE 1
Gearbox model, standard <sup>1)</sup>	ZF 550
Optimization of exhaust emissions <sup>2)</sup>	IMO II/EPA 2/EU <sup>3)</sup>
Solas compliance	Yes (without accessory kit)

<sup>1)</sup> gear ratio on request

<sup>2)</sup> IMO – International Maritime Organisation (MARPOL)

EPA – US Marine Directive 40 CFR 94

EU – Recreational crafts 94/25 EC

<sup>3)</sup> EU IIIA/RheinSchUO (CCNR) on request



Power. Passion. Partnership.

Performance & Fuel Consumption <sup>4)</sup>		8V 2000 M84				
Speed	rpm	2450	2100	1700	1200	
Maximum power	kW	810	800	655	375	
	bhp	1085	1073	878	503	
Power on propeller curve (n <sup>3</sup> )	kW	810	520	275	100	
	bhp	1085	697	369	134	
Fuel consumption	g/kWh	221	216	232	222	
	on propeller curve (n <sup>3</sup> )	l/h	212.7	133.4	75.8	26.3
	gal/h	56.2	35.2	20.0	6.9	

<sup>4)</sup> 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	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, 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, Multiple-Fix-Volume mounting device
Engine Management System	In compliance with Classification Society Regulations (EMU + MEU)
Monitoring /Control System	<b>smartline, blueLine, bluevision</b>
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
Rough Water Kit	Accessory Kit (oil-, mounting-, exhaust system) for applications with increased requirements (high accelerations, capsizing) like SAR, fast Patrol boats, fast Pilot boats

> Power definition according ISO 3046  
> Barometric pressure 1000 mbar

> Intake air temperature 25°C/Sea water temperature 25°C  
> Power reduction at 45°C/32°C: none

> Intake air depression 15 mbar/Exhaust back pressure 30 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.