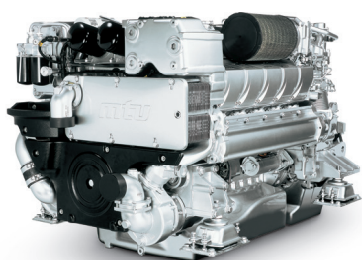




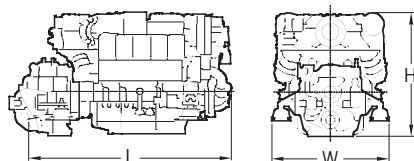
Marine

DIESEL ENGINES 8V/10V 2000 M72

for fast vessels with high load factors (1B)



Engine with gearbox	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
8V/ZF 2000	1910x1130x1225 (75.2x44.5x48.1)	2410 (5320)
10V/ZF 3000	2181x1130x1305 (85.9x44.5x51.4)	2820 (6225)



Typical applications: Ferries (e.g. monohulls, hydrofoils, catamarans, surface effect ships) and displacement yachts

Optional equipment and finishing shown. Standard may vary.

Engine type		8V 2000 M72	10V 2000 M72
Rated power ICFN	kW	720	900
	(bhp)	(965)	(1205)
Speed	rpm	2250	2250
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 type ²⁾		ZF 2000	ZF 3000
		i = 1.1 – 2.5	i = 1.1 – 3.0
Optimization of exhaust emissions ¹⁾		IMO II/EPA 2/EU IIIA ²⁾	IMO II/EPA 2/EU IIIA ²⁾

1) IMO – International Maritime Organisation
EPA – US Marine Directive 40 CFR 94
EU – Recreational crafts 94/25 EC

2) EU IIIA/RheinSchUO (CCNR) on request

Performance & fuel consumption ¹⁾		8V 2000 M72			10V 2000 M72		
Speed	rpm	2250	1950	1200	2250	1950	1200
Maximum power	kW	720	710	370	900	880	460
	bhp	965	950	495	1205	1180	615
Power on propeller curve (n ³)	kW	720	475	115	900	585	140
	bhp	965	635	155	1205	785	190
Fuel consumption	g/kWh	214	215	219	213	211	208
	l/hr	185.6	123.0	30.3	231.0	148.7	35.1
	gal/hr	49.0	32.5	8.0	61.0	39.3	9.3

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)

Standard equipment	
Starting system	Electric starter 24 V
Auxiliary PTO	Alternator, 80A, 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 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 (CR system), flame proof hose lines, leak-off fuel 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 set of combustion-air filters
Exhaust system	Triple-walled, liquid-cooled, on-engine exhaust manifolds, single centrally located exhaust outlet, 1 exhaust bellow horizontal discharge
Mounting system	Resilient mounts at free end
Engine management system	Engine control and monitoring system (ADEC)

Optional equipment	
Auxiliary PTO	Alternator, 140A, 28V, 2 pole, bilgepump, on-engine PTOs
Oil system	Centrifugal oil filter, oil replenishment system
Fuel system	Duplex fuel pre-filter
Cooling system	Coolant preheating system, integr. seawater gearbox piping
Exhaust system	1 exhaust bellow vertical discharge
Mounting System	Resilient mounts at driving end
Engine Management System	In compliance with Classification Society Regulations
Monitoring/Control System	smartline, blue line, blue vision, BlueVision NewGeneration, Callosum
Power Transmission	Torsionally resilient coupling
Gearbox Options	Reverse reduction gearbox, el. actuated, gearbox mounts, trolling mode for dead-slow propulsion, free auxiliary PTO, hydraulic pump drives
Classification	ABS, BV, CCS, DNV, GL, KR, JG, LR, NK, RINA

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
- > Power reduction at 45°C/32°C: none

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. may feature options not fitted as standard to standard engine.

Rolls-Royce Group

www.mtu-solutions.com/powergen