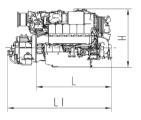


Marine

10V/12V/16V 2000 M86

for fast vessels with intermittent load factors (1D)







Optional equipment and finishing shown. Standard may vary.

Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
10V	1604 x 1165 x 1347 (63.1 x 45.9 x 53.0)	2305 (5082)
12V 1)	1812 x 1293 x 1414 (71.3 x 50.9 x 55.7)	2830 (6239)
12V ²⁾	1847 x 1293 x 1414 (72.7 x 50.9 x 55.7)	2892 (6376)
16V	2258 x 1293 x 1453 (88.9 x 50.9 x 57.2)	3450 (7606)
Engine with gearbox type 3)	Dimensions (L ₁ xWxH ₁) mm (in)	Mass, dry kg (lbs)
10V - ZF 2000	2159 x 1165 x 1347 (85.0 x 45.9 x 53.0)	2745 (6052)
12V - ZF 2060 ¹⁾	2516 x 1293 x 1414 (99.1 x 50.9 x 55.7)	3266 (7200)
12V - ZF 2060 ²⁾	2551 x 1293 x 1414 (100.4 x 50.9 x 55.7)	3316 (7311)
16V - ZF 3060	3078 x 1293 x 1453 (121.2 x 50.9 x 57.2)	4020 (8863)

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

Engine type		10V 2000 M86	12V 2000 M86	16V 2000 M86
Rated power ICFN	kW	1015	1268	1630
	(bhp)	(1361)	(1700)	(2186)
Speed	rpm	2450	2450	2450
No. of cylinders		10	12	16
Bore/stroke	mm (in)	135/156 (5.3/6.1)	135/156 (5.3/6.1)	135/156 (5.3/6.1)
Displacement, total	l (cu in)	22.3 (1362)	26.8 (1635)	35.7 (2179)
Flywheel housing		SAE 1	SAE 1/SAE 0	SAE 0
Gearbox type, standard		ZF 2000	ZF 2060	ZF 3060
Optimization of exhaust emissions *		IMO II/EPA 3 recreational/ RCD 2013/53/EU	IMO II/EPA 3 recreational/ RCD 2013/53/EU	IMO II/EPA 3 recreational/ RCD 2013/53/EU
Solas compliance		Yes	Yes	Yes

^{*} IMO - International Maritime Organisation, EPA - US Marine Directive 40 CFR 94, EU RCD - EU Marine Directive for recreational crafts



^{1) 12}V SAE 1 - fly wheel housing - standard

^{2) 12}V SAE 0 - fly wheel housing - option

³⁾ gear ratio on request

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 doublestage, lube-oil heat exchanger, handpump for oil extraction	
Fuel system	Fuel feed pump, fuel hand pump, fuel pre-filter, fuel main filter, on-engine fuel cooler, HP fuel pump, jacketed HP fuel lines, injection nozzles (Common rail system) flame proof hose lines, leak-off collecter	
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 3 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 horizontal discharge	
Mounting system	Resilient mounts at free end	
Engine management system	Engine control and monitoring system (ADEC), engine interface module (EIM)	
Optional equipment		
Starting system	Air starter*	
Auxiliary PTO	Alternator, 140A or 190A, 28V, 2 pole, bilgepump, on-engine PTOs	
Oil system	Oil replenishment system, diverter valve for duplex filter	
Fuel System	Duplex fuel pre-filter, diverter valve for fuel filter, monitoring fuel leakage	
Cooling System	Coolant preheating system freestanding or engine mounted, integr. seawater gearbox piping	
Exhaust System	90° Exhaust bellows discharge rotatable	
Mounting System	Resilient mounts at driving end	
Engine Management System	In compliance with Classification Society Regulations	
Monitoring/Control System	BlueVision NewGeneration	
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	

*only applies to 12V and 16V cylinder configurations

> 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 installation drawing. For further information consult your MTU distributor/dealer. Fuel consumptions available on request. Please contact your mtu dealer.