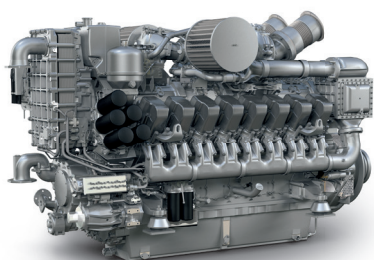




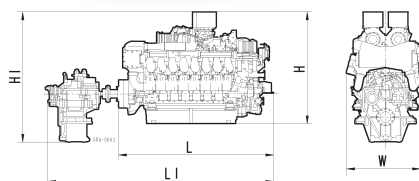
Marine

DIESEL ENGINES 16V 4000 M54/M64

for vessels with unrestricted continuous operation (1A)



Engine	Dimensions (L x W x H) mm (in)	Mass, dry kg (lbs)
M54/M64	3108 x 1690 x 2064 (122.4 x 66.5 x 81.3)	9070 (19996)
Engine with stand. gearbox	Dimensions (L ₁ x W x H ₁) mm (in)	Mass, dry kg (lbs)
on request	on request	on request



Typical applications: e.g. work boats, tugs, barges, ferries, governmental vessels

Optional equipment and finishing shown. Standard may vary.

Engine type	16V 4000 M54	16V 4000 M64
Rated power ICFN	1685	1999
(bhp)	(2260)	(2679)
Speed	1800	1800
No. of cylinders	16	16
Bore/stroke	170/210 (6.7/8.3)	170/210 (6.7/8.3)
Displacement, total	76.3 (4656)	76.3 (4656)
Flywheel housing	SAE O	SAE O
Exhaust optimization ¹⁾	IMO II/EPA 3 C	IMO II/EPA 3 C

1) IMO - International Maritime Organisation (MARPOL)
EPA - US Marine Regulation 40 CFR 1042

Fuel consumption *		16V 4000 M54	16V 4000 M64
at rated power	g/kWh	206	202
	l/h	417.0	485.0
	(gal/h)	(110.2)	(128.1)

* 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 motor 24V, 2 pole
Oil system	Gear driven lube oil pump, non switchable oil filter, centrifugal oil filter, lube oil heat exchanger, pump for lube oil extraction, closed crankcase ventilation
Fuel system	Fuel delivery pump, duplex lube fuel filter with diverter valve, common rail fuel injection system with high-pressure pump, pressure accumulator and electronic fuel injection with cylinder cutout system, jacketed HP fuel lines, flame- proof hose lines, leak-off fuel monitoring, switchable pre-filter with water separator in conjunction with switchable additional secondary filter
Cooling system	Engine version for separate heat exchanger, gear driven coolant circulation pump
Combustion air system	Engine coolant temperature-controlled intercooler, turbocharging with 2 water-cooled turbochargers, on-engine seawater-resistant air filters
Exhaust system	Triple-walled, liquid-cooled, on-engine exhaust manifolds, 30° discharge elbow, exhaust bellows
Mounting system	Resilient mounts
Power transmission	Torsional resilient and off-set compensating coupling (Centa CX for D-Drive); torsional resilient coupling with bearing housing (Centamax for T-Drive)
Auxiliary PTO	Charging generator 120A, 28V, 2-pole
Engine management system	Engine control and monitoring system (ADEC); engine interface module - EiM, engine mounted
Engine safety system	The scope of delivery for the engine fulfils SOLAS requirements for admissible surface temperature and shielding of fuel and lube oil lines

Optional equipment	
Starting system	Coolant preheating system; air starter
Oil system	Lube oil priming system, oil level monitoring, automatic oil replenishment system with basic scope of monitoring, switchable oil filter with extended scope of monitoring, automatic oil filter
Fuel system	Fuel conditioning system with water separator
Cooling system	Coolant-to-raw water plate core heat exchanger, self priming centrifugal raw water pump, engine mounted coolant expansion tank, raw-water connection for gearbox cooling
Combustion air system	Intake air silencer
Exhaust system	90° discharge elbow
Auxiliary PTO	Bilgepump (as secondary coolant pump), PTOs at free end of engine
Engine management system	Expansion In compliance with extended scope of monitoring (individual exhaust temperature monitoring)
Gearbox options	Various reserve reduction gearbox models, elec. actuated, gearbox mounts, PTO for hydraulic pump at driving shaft or at mediate shaft, trolling, trailing pump, propeller shaft flange
Classification	ABS, BV, DNV, GL, LR including necessary extensions to scope of supply

Reference conditions:

- > Intake air temperature 25°C/Sea water temperature 25°C
- > 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.