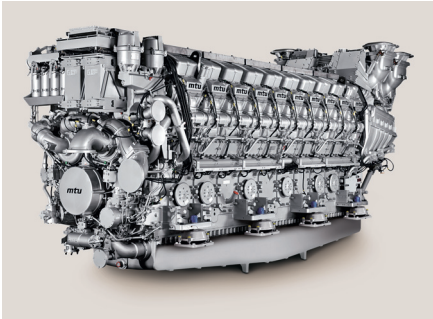


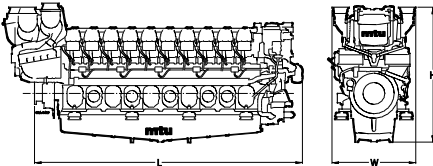
Marine

Diesel Engines 20V 8000 M71R/71/71L for Fast Vessels with High Load Factors (1B)



Dimensions and Masses

20V 8000 M71R/M71/M71L	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
	6645x2040x3375 (261.6x80.3x132.9)	45300 (98870)
		Mass, wet kg (lbs)
		47665 (105080)



Typical applications: Ferries, Large Displacement Yachts, OPVs, Naval Auxiliary Vessels

Engine Model	20V 8000 M71R	20V 8000 M71	20V 8000 M71L
Rated power ICFN kW (bhp)	7200 (9655)	8200 (10995)	9100 (12205)
Speed rpm	1150	1150	1150
No. of cylinders	20	20	20
Bore/stroke mm (in)	265/315 (10.4/12.4)	265/315 (10.4/12.4)	265/315 (10.4/12.4)
Displacement, total l (cu in)	347.4 (21200)	347.4 (21200)	347.4 (21200)
Optimization of exhaust emissions ¹⁾	IMO II	IMO II/EPA 2	IMO II/EPA 2

¹⁾ IMO – International Maritime Organisation (MARPOL)
EPA – US Marine Directive 40 CFR 94



Power. Passion. Partnership.

Fuel Consumption ²⁾		20V 8000 M71R	20V 8000 M71	20V 8000 M71L
at rated power	g/kWh	193	190	189
	l/h	1674	1877	2072
	gal/h	442	496	548

²⁾ 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	Air starter motor, 15 bar; press. reduct. station 40/15 bar, coolant preheating system
Oil system	Lube oil pump, automatic filter with backflushing, centrifugal oil filter, lube-oil heat exchanger, lube oil priming pump, lube oil level monitoring/replenishment system, switchboxes for lube oil replenishment and priming pumps
Fuel system	Fuel delivery pump, fuel duplex filter with diverter valve, "common rail" fuel injection system with high-pressure pump, pressure accumulator and electronically fuel injection with cylinder cutout system, jacketed HP fuel lines, leak-off fuel tank level monitored, fuel hand pump, fuel pre-filter with water separator, fuel recoler
Cooling system	MTU-split-circuit coolant system, coolant-to-raw water plate core heat exchanger, centrifugal raw water pump with priming system, coolant circulation pump, coolant expansion tank
Combustion air system	Engine coolant temperature-controlled intercooler, sequential turbocharging with 4 water-cooled turbochargers, on-engine set of combustion-air filters
Exhaust system	On-engine exhaust manifolds, exhaust bellows
Mounting system	Resilient mounts
Power transmission	Torsional and offset compensating couplings
Engine management system	Engine control and monitoring system (MDEC), interface to remote control and monitoring system, local operating panel (LOP)
Interfaces	Flexible joints (hose lines, rubber bellows)

Optional Equipment	
Starting system	Compressed air tanks
Monitoring/Control system	Monitoring and control system MCS-5, remote control system RCS-5
Gearbox option	Various gearbox models
Classification	ABS, BV, CR, DNV, GL, KR, LR, NK, RINA incl. necessary extensions to scope of supply

> Power definition according ISO 3046

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

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

> Barometric pressure 1000 mbar