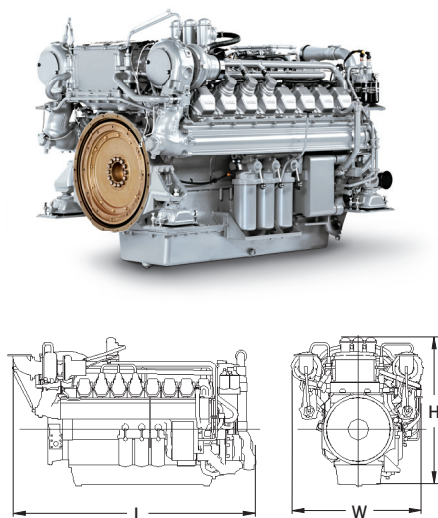




Oil & Gas

SERIES 2000

Stationary industrial engines for the oil & gas industry



Optional equipment and finishing shown. Standard may vary.

Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
12V	1950x1340x1475 (77x53x58)	2650 (5842)
16V	2100x1340x1510 (83x53x59)	3056 (6737)

All dimensions are approximate, for complete information refer to the installation drawing.

Engine		
Bore/stroke	mm (in)	130/150 (5.1/5.9)
Cylinder configuration		90° V
Displacement/cylinder	l (cu in)	1.99 (122)
Displacement, total	l (cu in)	12V: 23.9 (1458); 16V: 31.8 (1947)
Fuel specification		EN 590, Grade No.1-D/2-D

Application group	Rated Power ICFN kW	bhp	rpm
Optimization	3, 7		
Engine type	Heavy duty operation (4A)		
12V 2000 P12	600	805	1800
16V 2000 P12	800	1073	1800
Optimization	3, 7		
Engine type	Short-time duty operation (4C)		
12V 2000 P92R	675	905	1800
12V 2000 P92	788	1055	2100
16V 2000 P92R	900	1205	1800
16V 2000 P92	1050	1408	2100

Optimization: 3 Exhaust emission EPA 40 CFR 89/Tier 2
7 Exhaust emission IMO-II

Application	Power definition	
4A	Continuous operation with 100% load	Load factor: $\geq 60\%$, operating hours: unrestricted, overload: fuel stop (ICFN)
4C	Continuous operation with variable load	Load factor: $< 75\%$, operating hours: max. 1000 /yr, overload: fuel stop (ICFN)

Power output within 5% tolerance at standard conditions. Power definition according to ISO 3046 (ratings also correspond to SAE J 1995 and SAE J 1349 standard conditions) Consult your MTU distributor/dealer for the rating that will apply to your specific application.

Standard equipment	
Starting system	Electrical starter 24 VDC
Fuel system	Direct injection system with low and high pressure fuel pumps, double-walled high pressure fuel lines with monitoring, duplex fuel filters with changeover valves
Lube oil system	Multi-stage lube oil filters with changeover valve, closed crankcase breather system
Combustion air system	Horizontal air inlet
Exhaust gas system	Horizontal exhaust gas outlet
Cooling system	HT (JW) and LT (CAC) coolant circuit with coolant pumps and thermostats, Water cooled exhaust gas manifolds and turbochargers
Flywheel/housing	SAE O flywheel and flywheel housing
Engine mounting	Mounting brackets at engine front and rear
Electronics and instrumentation	MDEC engine control and management systems with extended sensor scope for offshore

Optional equipment	
Starting system	Redundant starting system (electric, airstart, hydraulic)
Fuel system	Fuel pre-filter with water separator
Fuel oil system	Special oil sump for inclinations up to 25° in all directions, hand pump for waste oil removal
Combustion air system	Engine mounted air filters, heavy duty air filters (shipped loose), electrically operated air shut-off flaps
Exhaust gas system	Vertical exhaust gas outlet, exhaust gas bellows
Coolant system	Coolant connecting parts (flex. hoses and rubber bellows), radiator fan drive, coolant preheating
Power transmission	Resilient coupling
Accessory drives	28 VDC battery charging alternator, auxiliary PTO's for hydraulic pump drives
Certification	3rd party certification available upon request

Reference conditions:

- > Intake-air temperature: 25°C (77°F)
- > Charge air coolant temp.: 45°C (113°F)
- > Ambient air pressure: 1000 mbar (14.5 psi)
- > Altitude above sea level: 100 m (328 ft)
- > Rated power available up to 40°C (104°F) and 400 m (1312 ft)

Subject to change without notice. Customization possible.

Engines illustrated in this document may feature options not fitted as standard.