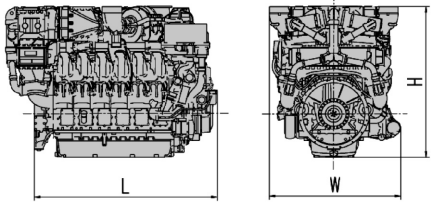
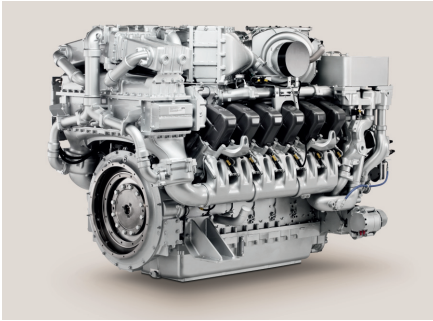


Series 4000-04

Diesel Engines for the Oil & Gas Industry Frac Operation



Dimensions and Masses

Engine	Dimensions LxWxH mm (in)	Mass, dry kg (lbs)
12V 4000 T94	2701x1665x1921 (106.3x65.6x75.6)	7685 (16943)

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

Engine Model		
Bore/stroke	mm (in)	170/210 (6.7/8.3)
Cylinder configuration		90°V
Displacement/cylinder	l (cu in)	4.77 (291)
Displacement, total	l (cu in)	57.2 (3491)
Fuel specification*		EN 590, Grade No.1-D/2-D

* Ultra low sulfur diesel (<15ppm) required

Engine Type	Rated Power ICFN			Peak Torque		
	kW	bhp	rpm	Nm	lb-ft	rpm
Optimization	②					
Application	Continuous operation (4D)					
12V 4000 T94	1680	2250	1900	8750	6454	1400
12V 4000 T94L	1865	2500	1900	9373	6913	1900

Optimization: ② Exhaust emission EPA 40 CFR 1039/Tier 4i



Power. Passion. Partnership.

Application

Power Definition

4D Continuous operation w/low load Load factor: < 40%, Operating hours: max. 2000/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	Hydraulic starter
Fuel System	Common rail injection system, double-walled high pressure fuel lines, secondary fuel filter with hand priming pump
Lube Oil System	Multi-stage lube oil filters, closed crankcase breather system
Combustion Air System	Two-stage turbocharging with exhaust gas recirculation (EGR)
Cooling System	Separate HT (JW) and LT (CAC) coolant circuits with separate pumps
Flywheel/Housing	SAE 00 flywheel housing "wet"
Engine Mounting	Front trunnion mount (three point)
Electronics and Instrumentation	ADEC engine control and management systems

Optional Equipment	
Starting System	Redundant starting systems (electric, pneumatic, hydraulic)
Fuel System	Fuel pre-filter with water separator (engine or remote mounted)
Lube Oil System	Lube oil centrifugal oil filters, special oil sump for inclinations up to 25° in all directions
Combustion Air System	Electrically or pneumatically operated air shutdown flaps
Coolant System	Coolant connecting parts, front crank PTO for radiator fan drive
Accessory Drives	Battery charging alternator 28VDC, auxiliary PTOs for hydraulic pump drives
Certification	3 rd party certification available on request

Reference conditions:

> Intake-air temperature: 25°C (77°F)

> Ambient air pressure: 1000 mbar (14.5 psi)

> 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. For further information please consult your MTU distributor/dealer.

> Charge air coolant temp.: 45°C (113°F)

> Altitude above sea level: 100 m (328 ft)