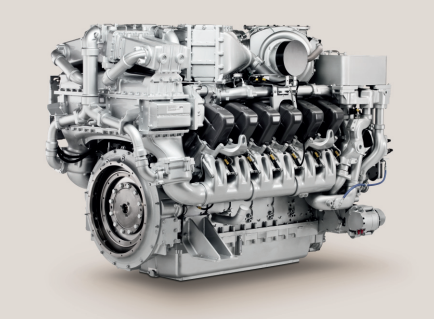
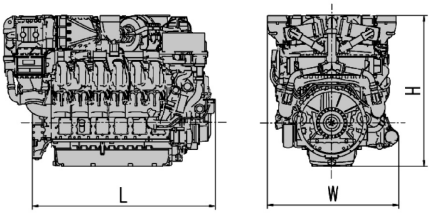
Oil & Gas

Series 4000-05

Diesel Engines for the Oil & Gas Industry
Frac Operation





Dimensions and Masses

Engine	Dimensions LxWxH mm (in)	Mass, dry kg (lbs)
12V 4000 T95	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 kW	bhp	rpm	Peak Torque Nm	lb-ft	rpm
Optimization	㉑					
Application	**Continuous operation (4D)**					
12V 4000 T95R	1678	2250	1900	9035	6664	1400
12V 4000 T95	1864	2500	1900	9654	7120	1400
12V 4000 T95L	1939	2600	1900	9745	7188	1900

Optimization: ㉑ Exhaust emission EPA 40 CFR 1039/Tier 4

Available from January 2015

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	3rd 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)
> Rated power and peak torque according to TST-No. 162-12
> Charge air coolant temp.: 45°C (113°F)
> Altitude above sea level: 100 m (328 ft)
> Site altitude above sea level: max. 4000 m (13000 ft)**

** Dependent on air intake temperature. Subject to be confirmed.

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.

Subject to change. | 3236400 | Edition 01/14 | ENC 2014-01.

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