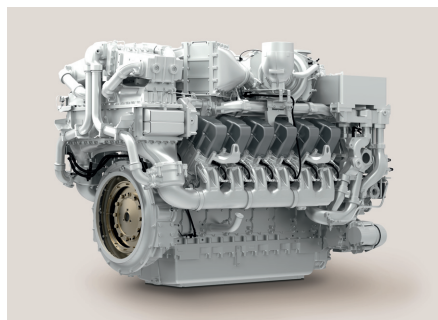


Series 4000-04

Diesel Engines for the Oil & Gas Industry Frac Operation



Dimensions and Masses

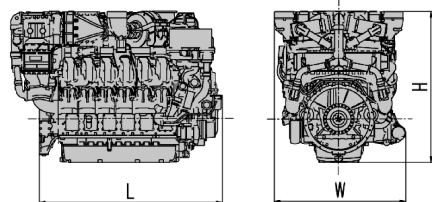
Engine	Dimensions LxWxH mm (in)	Mass, dry kg (lbs)
12V 4000	2685x1665x1921 (105.7x65.6x75.6)	7500 (16535)

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	②①					
Application	Continuous operation (4D)					
12V 4000 T94	1678	2250	1900	8325	6138	1200
12V 4000 T94L	1865	2500	1900	9240	6812	1200

Optimization: ② Exhaust emission EPA 40 CFR 89/Tier 4i

MTU 12V4000T94 Engine

www.wme.cn/mtu-12v4000t94/



Power. Passion. Partnership.

Application

4D

Power Definition

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 Detroit Diesel or 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

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

HT (JW) and LT (CAC) coolant circuits with separate pumps

Flywheel/Housing

SAE 00 flywheel housing "wet"

Engine Mounting

Front trunnion mount

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 separators

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

Flywheel/Housing

SAE 00 flywheel housing "dry"

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)

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

> Altitude above sea level: 100 m (328 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 or MTU Detroit Diesel distributor/dealer.