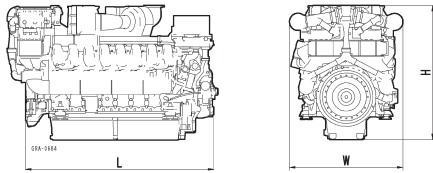
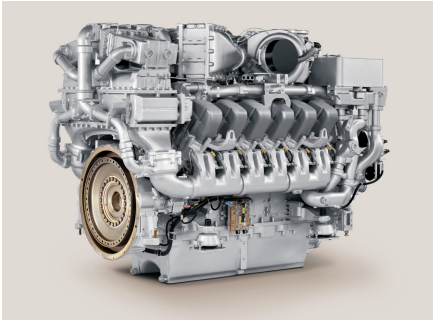


Rail

# Diesel Engines Series 4000 R04

for Locomotives  
EPA Tier 3



## Dimensions and Masses

4000	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
<b>12V – R54</b>	2670 x 1696 x 2001 (105.1 x 66.8 x 78.8)	7700 (16976)
<b>16V – R54</b>	3140 x 1696 x 2001 (123.6 x 66.8 x 78.8)	9050 (19952)

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)	12: 57.2 (3491); 16V: 76.3 (4654)
Fuel specification		ASTM D975 (Sulfur content max.15 mg/kg)

Engine Type	Rated Power			Peak Torque			Fuel consumption at		Optimization*
	Model	kW	bhp	rpm	Nm	lb-ft	rpm	at rated power g/kWh	
<b>12V 4000 R54</b>	<b>1800</b>	<b>2414</b>	1800	9822	7243	1750	199	195	EPA 3
<b>16V 4000 R54</b>	<b>2400</b>	<b>3218</b>	1800	13096	9658	1750	199	195	EPA 3

\* Emissions: EPA Rail Tier 3 (40CFR1033) Linehaul

For additional technical data and project support please consult your distributor.



Power. Passion. Partnership.

## Standard Equipment

Advanced Diesel Engine Control (ADEC)

Standard interface with J 1939 (MTU)

Common rail injection system

Two-stage turbocharging

Charge-air cooling as separate circuit

Flywheel housing SAE # 00

Resilient engine mountings

64V Starter

Long-life 4-valve cylinder heads

### Reference conditions:

> Intake-air temperature: 25°C (77°F)      > Charge air coolant temp.: 45°C (113°F)

> Ambient air pressure: 1000 mbar          > 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 to standard engine.

## Optional Equipment

Dry-type air filter

Auxiliary PTOs

Assembly and drive parts for hydrostatic pump

Various interface for 1/0 signals

Fuel prefilter

Various adapters for connections and interfaces

Coupling for main drive