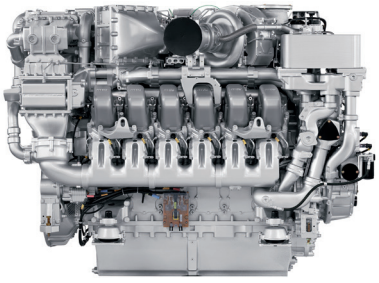
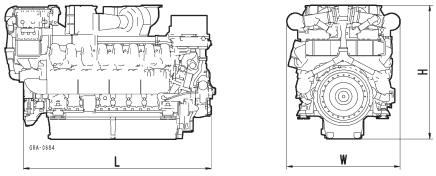
Rail

DIESEL ENGINES SERIES 4000 R04

for locomotives EPA Tier 3





Optional equipment and finishing shown. Standard may vary.

Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
12V – R54	2670 x 1696 x 2001 (105.1 x 66.8 x 78.8)	7700 (16976)
16V – R54	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		
Bore/stroke	mm (in)	170/210 (6.7/8.3)
Cylinder configuration		90° V
Displacement	l (cu in)	4.77 (291)
Displacement, total	l (cu in)	12V: 57.2 (3491); 16V: 76.3 (4654)
Fuel specification		ASTM D975 (Sulfur content max.15 mg/kg)

	Rated power			Peak torque			Fuel consumpt. at rated power	best point	Optim. *
Engine type	kW	bhp	rpm	Nm	lb-ft	rpm	g/kWh	g/kWh	g/kWh
12V 4000 R54	1800	2414	1800	9822	7243	1750	199	195	EPA 3
16V 4000 R54	2400	3218	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.

A Rolls-Royce solution

Standard Equipment	Optional Equipment
Advanced Diesel Engine Control (ADEC)	Dry-type air filter
Standard interface with J 1939 (MTU)	Auxiliary PTOs
Common rail injection system	Assembly and drive parts for hydrostatic pump
Two-stage turbocharging	Various interface for 1/0 signals
Charge-air cooling as separate circuit	Fuel prefilter
Flywheel housing SAE # 00	Various adapters for connections and interfaces
Resilient engine mountings	Coupling for main drive
64V Starter	
Long-life 4-valve cylinder heads	

Reference conditions:
> Intake temperature: 25°C (77°F)
> Ambient air pressure: 1000 mbar
> 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 to standard engine.

Subject to change. | 3236781 | Edition 01/19 | ESM 2019-08.