

Diesel Engine 4R 904 C

for C&I, Mining, Agriculture and Forestry Applications



Mercedes-Benz

Engineering Excellence



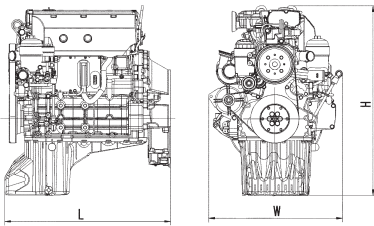
Dimensions and Masses

| Engine | Dimensions (LxWxH) mm (in) | Mass, dry kg (lbs) |
|-------------------|--------------------------------|--------------------|
| 4R 904 C01 | 830 x 672 x 945 (33 x 26 x 37) | 395 (870) |

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

Engine Model

| | | |
|------------------------|-----------|--------------------------|
| Bore/stroke | mm (in) | 102/130 (4.0/5.1) |
| Cylinder configuration | | 4 Cyl./In-line |
| Displacement/cylinder | l (cu in) | 1.06 (65) |
| Displacement, total | l (cu in) | 4.2 (256) |
| Fuel specification | | EN 590, Grade No.1-D/2-D |



| Engine Type | Rated Power ICFN | | | Peak Torque | | | Optimization |
|--------------------|-----------------------------------|------------|------|-------------|-------|-----------|--------------|
| Model | kW | bhp | rpm | Nm | lb-ft | rpm | |
| Application | Heavy duty operation (5A) | | | | | | |
| 4R 904 C21 | 75 | 101 | 2200 | 400 | 295 | 1200-1600 | ②③ ③① |
| 4R 904 C31 | 90 | 121 | 2200 | 470 | 345 | 1200-1600 | ②③ ③① |
| Application | Medium duty operation (5B) | | | | | | |
| 4R 904 C61 | 110 | 147 | 2200 | 580 | 430 | 1200-1600 | ②③ ③① |
| 4R 904 C71 | 129 | 173 | 2200 | 675 | 500 | 1200-1600 | ②③ ③① |

Optimization

② EPA Nonroad T3 Comp (40CFR89)
③ China NRMM Stage III (GB20981-2014)

② EU Nonroad St IIIA Comp (97/68/EC)



Power. Passion. Partnership.

| Application | Power definition | |
|-------------|--------------------------------------|--|
| 5A | Continuous operation w/100% load | Load factor: $\geq 60\%$, Operating hours: unrestricted, Overload: Fuel stop (ICFN) |
| 5B | Continuous operation w/variable load | Load factor: $< 60\%$, Operating hours: unrestricted, 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 | Electrical starter 24 V, Alternator 28 V/80 A |
| Fuel System | High pressure fuel injection with solenoid-valve controlled unit injection pumps and multijet fuel injectors, Fuel filter |
| Lube Oil System | Oil filter |
| Air System | Turbo charging with charge-air cooling |
| Exhaust Gas System | Tree valves per cylinder |
| Coolant System | Water-charge-air cooling |
| Flywheel/Housing | SAE 2 |
| Engine Mounting | Resilient |
| Electronics and Instrumentation | Electronic engine management |
| Optional Equipment | |
| on request | |

Reference conditions:

> Intake-air temperature: 25°C (77°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.