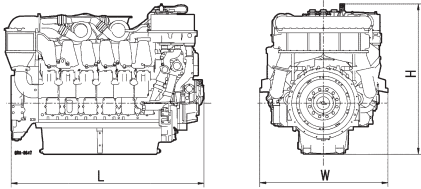
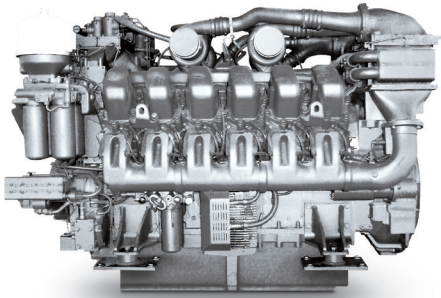




Stationary Industrial

SERIES 4000

Diesel engines for mechanical drive



| Engine | Dimensions (LxWxH) mm (in) | Mass, dry kg (lbs) |
|--------------|----------------------------|--------------------|
| 12V 4000 S03 | 2405x1449x1870 (95x57x74) | 6155 (13570) |
| 16V 4000 S03 | 3020x1449x1870 (119x57x74) | 7480 (16491) |
| 20V 4000 | 2865x1660x1870 (113x65x74) | 11075 (24416) |

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/cylinder | l (cu in) | 4.77 (291) |
| Displacement, total | l (cu in) | 12V: 57.2 (3491), 16V: 76.3 (4656), 20V: 95.4 (5822) |
| Fuel specification | | EN 590, Grade No.1-D/2-D |

Optional equipment and finishing shown. Standard may vary.

| | Rated power ICFN | | | Peak torque* | | |
|---------------|--------------------------------|------|------|--------------|-------|------|
| | kW | bhp | rpm | Nm | lb-ft | rpm |
| Optimization | 3 | | | | | |
| Application | Heavy duty operation (4A) | | | | | |
| 12V 4000 S23 | 1425 | 1911 | 1800 | 9003 | 6640 | 1485 |
| 16V 4000 S23 | 1865 | 2500 | 1800 | 12004 | 8854 | 1485 |
| Optimization | 3 | | | | | |
| Application | Short-time duty operation (4C) | | | | | |
| 20V 4000 S53L | 3000 | 4023 | 1800 | 16852 | 12428 | 1700 |

Optimization: 3 Exhaust emission EPA 40 CFR part 89/ Tier 2
 * Alternative torque curves available to meet transmission input limits

| Application | Power definition | |
|-------------|--------------------------------------|--------------------------------------------------------------------------------------|
| 4A | Continuous operation w/100% load | Load factor: $\geq 60\%$, Operating hours: unrestricted, Overload: Fuel stop (ICFN) |
| 4C | Short-time operation w/variable load | Load factor: $< 75\%$, Operating hours: max. 1000p/y, 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 |
| Lube oil system | Multi-stage lube oil filters, Closed crankcase breather system |
| Cooling system | HT (JW) and LT (CAC) coolant circuits with separate coolant pumps and thermostats |
| Flywheel/housing | SAE 00 wet flywheel housing |
| Engine mounting | Trunnion mount (three-point mounting) |
| Electronics and instrumentation | DDEC/ADEC engine control and management systems |

| Optional equipment | |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| Lube oil system | 2 or 4 liter centrifugal oil filters |
| Combustion air system | Air shut-off flaps (Tier 2 only) |
| Exhaust gas system | Exhaust gas bellows with companion flanges |
| Coolant system | Coolant connecting parts (weld-on flanges and rotatable elbows), Front crank PTO for radiator fan drive |
| Accessory drives | 28 VDC battery charging alternator, Auxiliary PTO's for hydraulic pump drives |

Reference conditions:

- > Intake-air temperature: 25°C (77°F)
- > Ambient air pressure: 1000 mbar (14.5 psi)
- > 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.