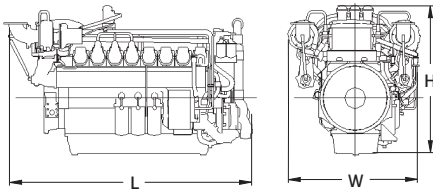
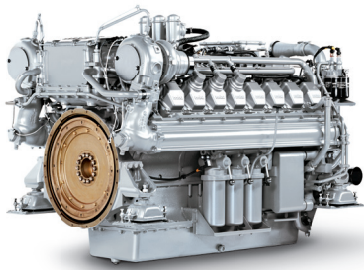




## Oil & Gas

# SERIES 2000

## GenDrive engines for the oil & gas industry



Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
12V	1835x1580x1570 (72x62x62)	2650 (5842)
16V	2180x1580x1570 (86x62x62)	3056 (6737)

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

Engine		
Bore/stroke	mm (in)	130/150 (5.1/5.9)
Cylinder configuration		90°V
Displacement/cylinder	l (cu in)	1.99 (122)
Displacement, total	l (cu in)	12V: 23.9 (1458); 16V: 31.8 (1947)
Fuel specification		EN 590, Grade No.1-D/2-D

Optional equipment and finishing shown. Standard may vary.

	Continuous Power 3A	Prime Power 3B	Prime Power limited 3C
Optimization	6	6	6
Engine Type	Rated Power kW (bhp) at 1500 rpm - (50 Hz)		
12V 2000 P62	498 (668)	575 (771)	575 (771)
16V 2000 P62	664 (890)	770 (1033)	770 (1033)
Optimization	3, 7	3, 7	3, 7
Application	Rated Power kW (bhp) at 1800 rpm - (60 Hz)		
12V 2000 P82	600 (805)	695 (932)	695 (932)
16V 2000 P82	800 (1073)	930 (1247)	930 (1247)
16V 2000 P82 L	-	980 (1313)	980 (1313)

Optimization: 3 Exhaust emission EPA 40 CFR 89/Tier 2  
 6 Exhaust emission IMO  
 7 Exhaust emission IMO-II

Application	Power definition	
3A (ICXN)	Continuous operation w/100% load	Load factor: ≤ 100 %, Operating hours: unrestricted, Overload: 10% capability
3B	Continuous operation w/ variable load	Load factor: < 75%, Operating hours: unrestricted, Overload: 10% capability (ICXN)
3C	Standby operation w/variable load	Load factor: < 75%, Operating hours: max. 1000 /yr, Overload: 10% capability (ICXN)

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)

Standard equipment	
Starting system	Electric starter 24 VDC
Fuel system	Direct injection system with low and high pressure fuel pumps, Double-walled high pressure fuel lines with leak detection and monitoring, Duplex fuel filters with changeover valves
Lube oil system	Multi-stage lube oil filters with changeover valve, Closed crankcase breather system
Combustion air system	Horizontal air inlet
Exhaust gas system	Horizontal exhaust gas outlet
Cooling system	HT (JW) and LT (CAC) coolant circuit with separate coolant pumps and thermostats, Water cooled exhaust gas manifolds and turbochargers
Flywheel/housing	SAE 0 flywheel and flywheel housing
Engine mounting	Mounting brackets at engine front and rear
Electronics and instrumentation	MDEC engine control and management systems with extended sensor scope for offshore applications

Optional equipment	
Starting system	Redundant starting system (electric, airstart, hydraulic)
Fuel system	Fuel pre-filter with water separator
Lube oil system	Special oil sump for inclinations up to 25° in all directions, Hand pump for waste oil removal
Combustion air system	Engine mounted air filters, Heavy duty air filters (shipped loose), Electrically operated air shut-off flaps
Exhaust gas system	Vertical exhaust gas outlet, Exhaust gas bellows
Coolant system	Coolant connecting parts (flex. hoses and rubber bellows), Radiator fan drive, Coolant preheating
Accessory drives	28 VDC battery charging alternator, Auxiliary PTO's for hydraulic pump drives
Power transmission	Resilient coupling
Engine mounting	Height adjustable engine mounts
Certification	3 <sup>rd</sup> party certification available upon request

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)
- > Rated power available up to 40°C (104°F) and 400 m (1312 ft)

Subject to change without notice. Customization possible.

Engines illustrated in this document may feature options not fitted as standard.