

Diesel Engine 8V 880

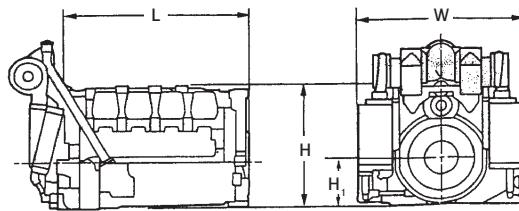
for Heavy Military Vehicles, 735 kW (1000 mHP),
800 kW (1088 mHP), 880 kW (1197 mHP) at 2700 1/min



Dimensions and Masses

Engine	Dimensions (LxWxH; H ₁) mm (in)	Mass, dry kg (lbs) ①
MT 881	1108 x 972 x 742; 292 (44 x 38 x 29; 12)	1460 (3220)

① Fixed core engine dimensions. In accordance with DIN70020-G, incl. starter and cabling.



Engine version		MT 881 – 735 kW	MT 881 – 800 kW	MT 881 – 880 kW*
Bore/stroke	mm (in)	144/140 (5.7/5.5)	144/140 (5.7/5.5)	144/140 (5.7/5.5)
Displacement, cylinder	l (cu in)	2.28 (139.1)	2.28 (139.1)	2.28 (139.1)
Displacement, total	l (cu in)	18.2 (1113)	18.2 (1113)	18.2 (1113)
Charging method		Turbocharged	Turbocharged	Turbocharged
Intercooling		Charge-air cooler	Charge-air cooler	Charge-air cooler
Number of cylinders		8 cylinders, V, 90°	8 cylinders, V, 90°	8 cylinders, V, 90°
Cooling method		Liquid cooled	Liquid cooled	Liquid cooled
Injection method		Pump-line-nozzle, direct injection	Common rail, direct injection	Common rail, direct injection
Starting method		Electric	Electric	Electric
Lube oil system		Dry sump	Dry sump	Dry sump
Max. torque	Nm (ft lbs)	3030 (2235)	3305 (2438)	3633 (2680)
Rated power	kW (hp)	735 (1000)	800 (1088)	880 (1197)
Rated speed	rpm	2700	2700	2700
Inclinations		longit. ≥ 31°/transverse ≥ 17°	longit. ≥ 35°/transverse ≥ 20°	longit. ≥ 35°/transverse ≥ 35°

* projected development



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Fuels

- Standard	F-54	According to fluids and lubricants specification AL01061
- Alternatives	F-34, F-63	According to fluids and lubricants specification AL01061

Other fuel types to be checked for compliance.

Lube oils

- Standard	O-236, O-1178 and further engine oils according to fluids and lubricants specification AL01061
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Other oil types to be checked for compliance.

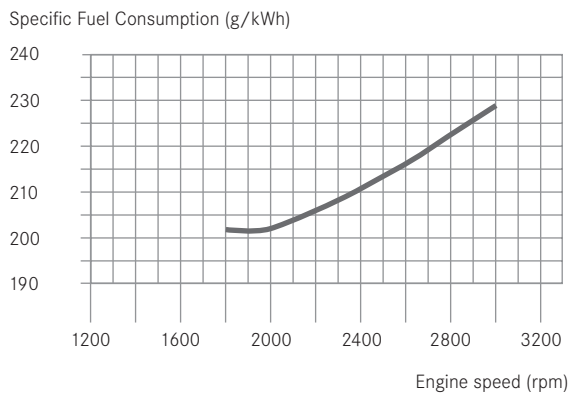
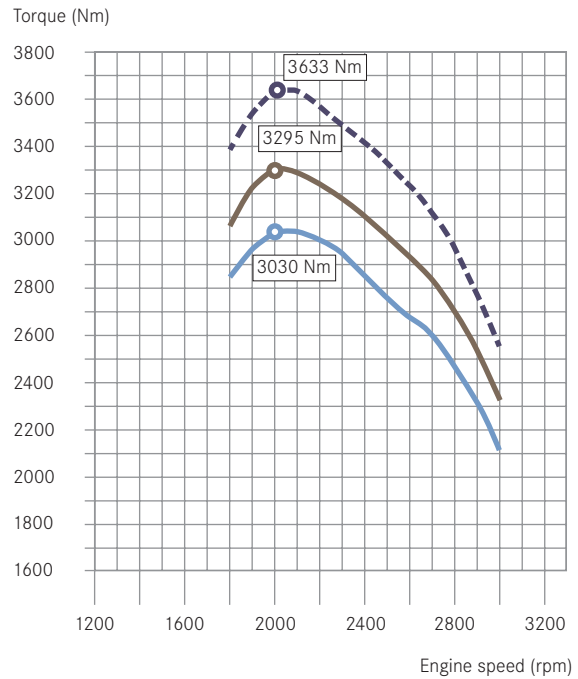
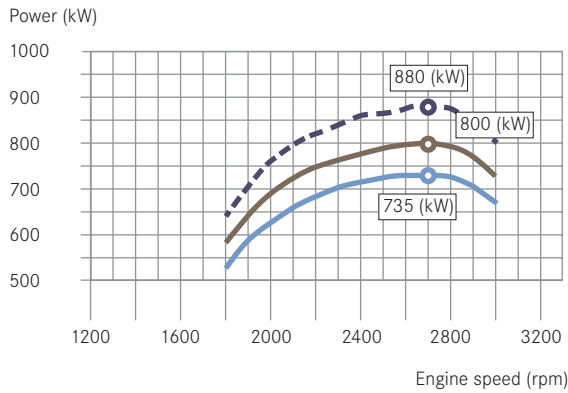
Direction of rotation	Counterclockwise
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Additional information on request.

Power ratings definition: In accordance with ISO1585. Fan power not considered. Power and fuel consumption data assumes operation on standard fuel.

Environmental conditions: Engines can be operated in ambient conditions from -46°C* to 55°C.
*special start preparation required

Engine Curves



- 735 kW (1000 hp)
- 800 kW (1088 hp)
- - - 880 kW (1197 hp)