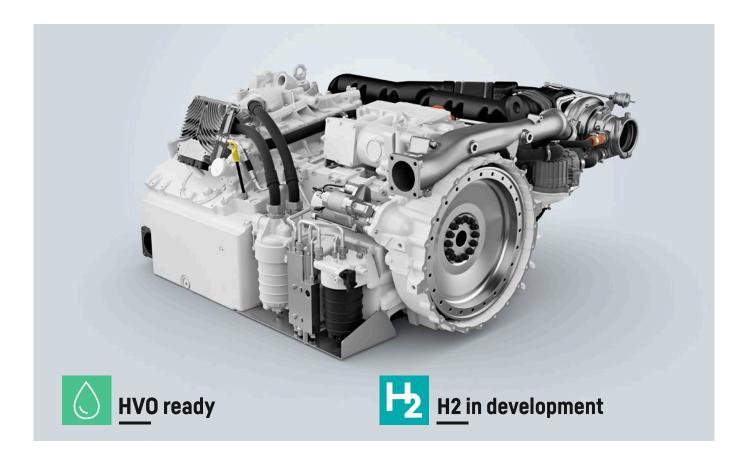
D966H engine for the railway industry



Liebherr's D966H is a very compact 13.5 liters flat 6-cylinder diesel engine. Its solid and robust design makes it a perfect fit for the railway industry.

This engine comes with an integrated closed crankcase ventilation system, water-cooled turbocharger, fuel fine filter, ultrafine fiber oil filter as well as a grid heater system.

Our engine condition monitoring solution and LiDIA diagnostic tool, together with a long life service further extend reliability and minimize engine down time.

Features:

- Robust and highly efficient
- Low total cost of ownership
- Longer service intervals thanks to an automatic poly-V-belt
- All-weather operation capability thanks to grid heater system for startability at low temperatures
- Long oil change interval
- Maintenance-free crankcase ventilation system
- Compact integration of the charged air piping for easy charge air cooler installation



Product features and technical data

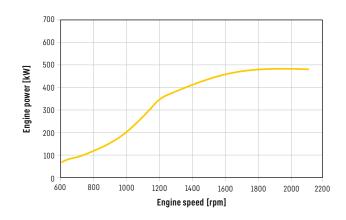
D966H*

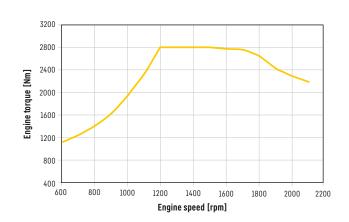
Country of manufacture		Switzerland
Configuration		6 cylinders in-line horizontal engine
Aspiration		Turbocharger
Fuel injection control system		High Pressure Common Rail
Bore	mm (in)	135 (5.3)
Stroke	mm (in)	157 (6.2)
Displacement	L (in³)	13.5 (988,6)
Compression ratio		16.5:1
Power rating	kW (hp)	400-480 (536-644)
Rated speed	rpm	1,800-2,100
Peak torque	Nm (lb-ft)	2,800 @ 1,400 rpm (2,065 @ 1,400 rpm)
Fuel consumption	g/kWh	188 @ 1,200 rpm 201 @ 1,800 rpm
Fuel consumption	L/h	67 @ 1,200 rpm 115 @ 1,800 rpm
Coolant capacity	L	25.5
Lubricant capacity	L	56
Maximum tilt angle		+/- 20° long. +/- 7° trans
Estimated dry weight	kg (lbs)	1,280 (2,822)





Engine power and torque curves*





* Tolerance at nominal power and nominal torque declaration are according to standard ECE-R.24/ISO 9249.

Tolerance at nominal specific fuel consumption declaration are valid for diesel fuel fullfilling standard DIN EN 590 with a min of LHV 42780 kJ/kg.

Product specifications and options

Product specifications

Engine Control Unit: Liebherr ECU3 on engine block

Flywheel housing SAE1

Water outlet and inlet connections with V-clamp connection interface

Single-stage water-cooled turbocharger

Integrated centrifugal water pump

Integrated closed crankcase ventilation system

Suction and main oil pump into the sump to improve lubrication reliability

Automatic poly-V-belt tensioner for longer service intervals

Grid heater system for startability at low temperatures

Ultrafine fiber oil filter

Fuel fine filter on engine

1 x Starter 24 V - 6.5 kW

Optional specifications

Air compressor upon request

Engine-mounted thermostat upon request

Several flywheel configurations upon request

Lower power ratings down to 290 kW upon request

Hydrogenated vegetable oil (HVO) approval upon request

LiDIA diagnostic tool upon request

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