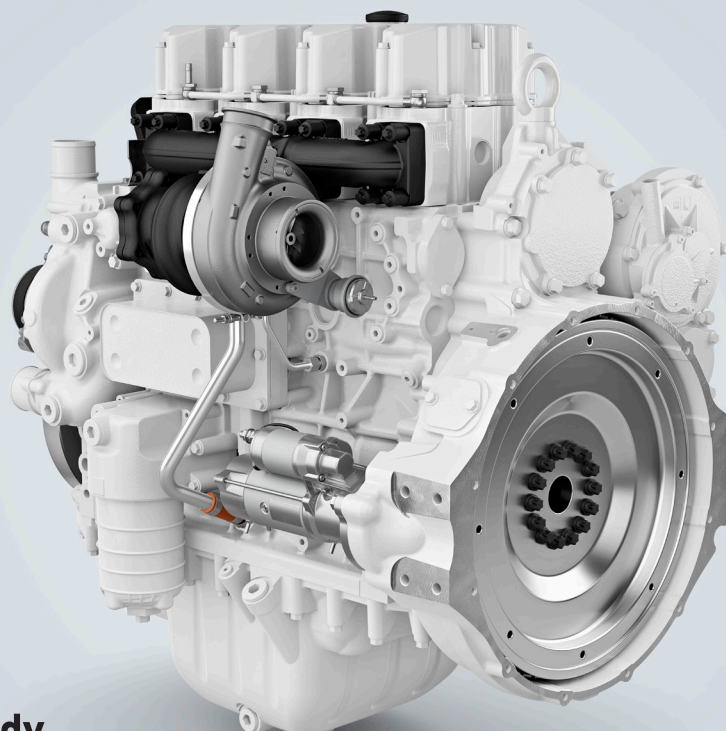


D964 engine for the construction industry



HVO ready

The Liebherr 4-cylinder in-line D964 engine has a displacement of 9 litres. The engine is available in two versions: the HP version with sufficient torque can achieve a power output of 300kW and the HT version generates a maximum peak torque of 1,965 Nm at 1100 rpm. Developed as a heavy-duty engine, it is ideally suited for use in off-highway applications with frequent load and engine speed variations. This four-cylinder engine comes with an integrated centrifugal water pump and closed crankcase ventilation system, ultra fine fiber oil filter, fuel fine filter on engine as well as turbocharger that considerably improve fuel consumption. The engine fulfils the demanding EU Stage V and US Tier 4f solutions thanks to the modular exhaust gas after treatment system concept.

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

Features:

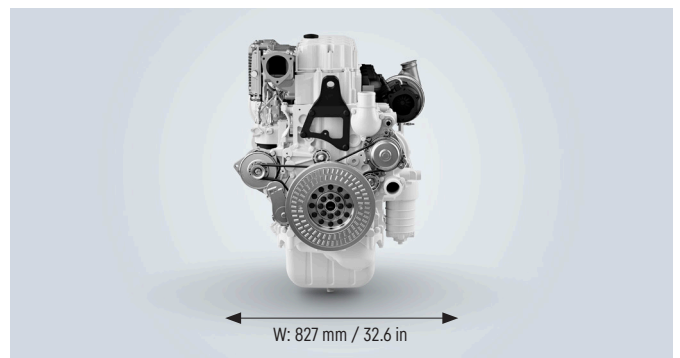
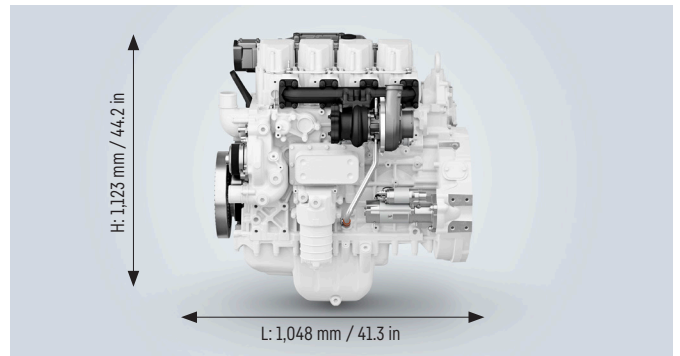
- Robust and highly efficient
- Low total cost of ownership
- Longer service intervals thanks to an automatic poly-V-belt tensioner
- Improved fuel consumption compared previous Liebherr engines
- Long oil change interval
- Closed crankcase ventilation system
- Liebherr Engine Control Unit: In-house software development and function capabilities
- Liebherr high performance injection system

LIEBHERR

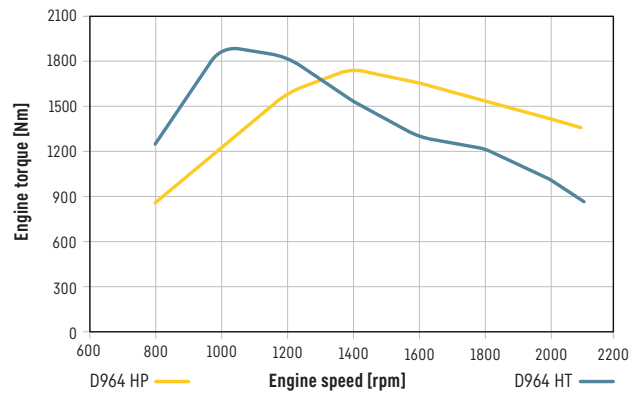
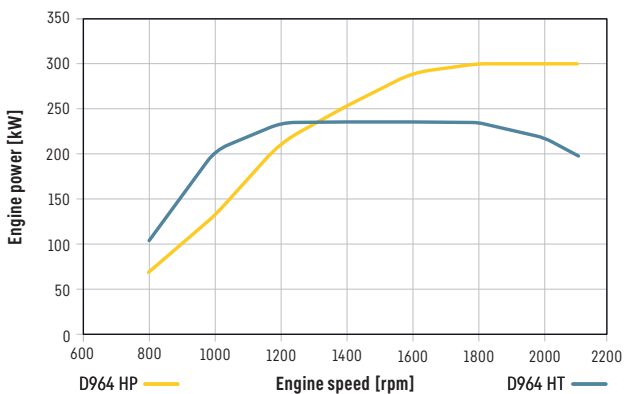
Product features and technical data

D964*

Country of manufacture		Switzerland
Configuration		4 cylinders in-line
Aspiration		Turbocharger
Fuel injection control system		High Pressure Common Rail
Bore	mm (in)	135 (5.3)
Stroke	mm (in)	157 (6.2)
Displacement	L (in ³)	9 (549.2)
Compression ratio		16.5 : 1
Power rating	kW (hp)	HP: 180-300 (241-402) HT: 180-230 (241-308)
Rated speed	rpm	1,700-2,100
Peak torque	Nm (lb-ft)	HP: 1,731 at 1,400 rpm (1,277 at 1,400 rpm) HT: 1,965 at 1,100 rpm (1,449 at 1,100 rpm)
Fuel consumption at 1900 rpm - full load	g/kWh	201 HP - 208 HT
Fuel consumption at 1900 rpm - full load	L/h	72 HP - 57 HT
Coolant capacity	L	16.2
Maximum tilt angle feature		(+/- 45° long. +/- 45° trans)
Lubricant capacity	L	23
Estimated dry weight	kg (lbs)	975 (2,150)



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 fulfilling standard DIN EN 590 with a min of LHV 42780 kJ/kg.

Product specifications and options

Product specifications

Single-stage turbocharger for improved fuel consumption

Flywheel SAE2

Integrated centrifugal water pump

High separation efficiency with integrated closed crankcase ventilation system

Fuel cooled Engine Control Unit by Liebherr

Automatic poly-V belt tensioner for higher change interval time

Liebherr high performance injection system

Ultrafine fiber oil filter for long change interval time

Fuel fine filter on engine for long change interval time

Optional specifications

Several high power Take-Off upon request

Cold start kits for any temperature conditions upon request

Efficient engine brake system upon request

Remote fuel and oil filters upon request

Air compressor upon request

Several oil sumps design for all packaging installations, with oil level sensor upon request

Several oil filling and dipstick position upon request

Generator upon request

Air conditioning accessories upon request

Double-starter configuration upon request

Several SAE-flywheel options upon request

Turbocharger connections upon request

Fan drives upon request

Several air and water connections upon request

Finger guard upon request

Hydrogenated vegetable oil (HVO) approval upon request

LiDIA diagnostic tool upon request

D964 engine for the construction industry



Want to know more?
Scan to discover our full portfolio

