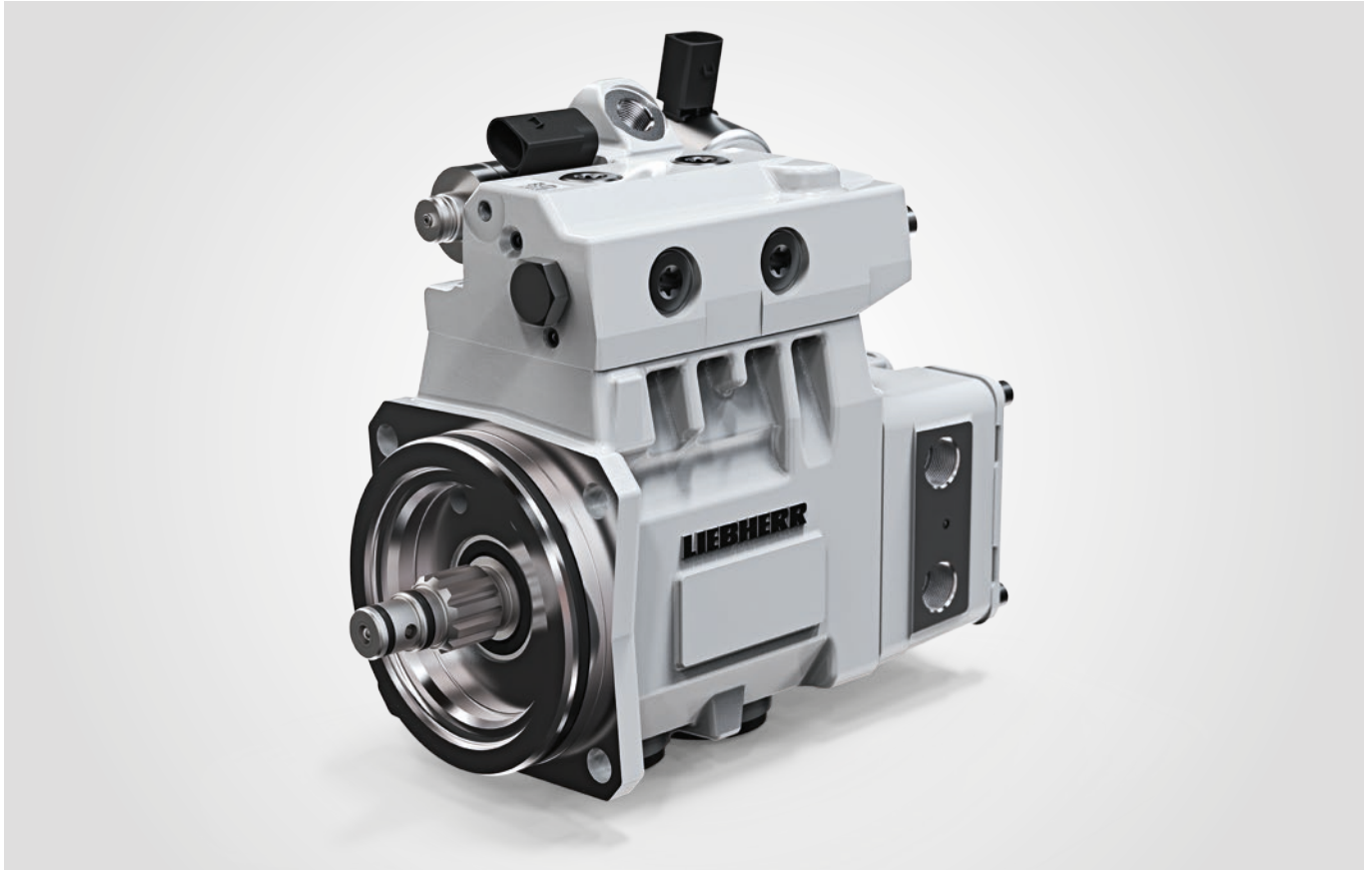


## Short Description

# Common Rail High Pressure Pump LP11.2



The LP11.2 oil-lubricated high-pressure pump has been developed for off-highway applications that are exposed to particularly harsh environmental conditions in building construction, civil engineering, agricultural engineering or maritime environments. The robustness is of paramount importance in the most severe conditions with regard to vibrations at impact loads of up to 10 g, dust pollution and extreme working temperatures from -30 °C to +125 °C. Oil lubrication in combination with the eccentric drive enable extended service life of up to 15,000 hours under harshest working conditions and when using aggressive fuels. Compared to cam drives, both the loadings of the pump drive and the sound development of the pump are reduced in the torque consumption, which is in turn reduced by the eccentric drive. Its extreme robustness and high efficiency also make the LP11.2 an ideal component for on-highway applications.

For optimal integration in the widest variety of applications, different types of drive flanges are available.

### Features

- Oil-lubricated
- Robust eccentric drive
- Extreme resistance against aggressive fuels (compatible with EN590, Jet A1 fuels, B10 S10/B30, SS 155435, ASTM)
- Mechanical G-rotor booster pump
- High flexibility and efficiency thanks to specially adapted electronically steered volume control valves
- Individual engine interfaces
- Direction of rotation: clockwise / anticlockwise
- Robust and reliable in the harshest environments according to VDI 3838 and ISO 10816-6
- Euro VI, US 10, EU Stage V, US EPA Tier 4f compatible

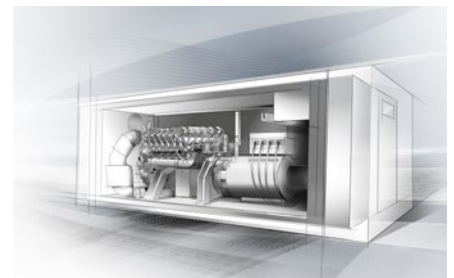
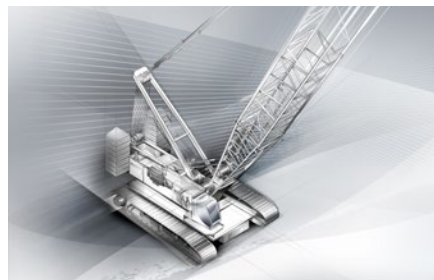
# Technical Data

## Common Rail High Pressure Pump LP11.2

### Technical Information

System pressure	250–2,200 bar (2,500 bar in release)
Max flow rate	4 kg/min / 320 l/h (@ 2,200 bar)
Pressure at rated pump speed	4,500 rpm @ 2,200 bar
Pressure at max. speed	5,000 rpm @ 1,800 bar
Drive concept	Eccentric shaft
No. of plungers	2
Plunger diameter	11 mm
Plunger lift	8.6 mm
Displacement per rev	1.63 cm <sup>3</sup>
Lubrication	Engine oil
Weight	~ 17 kg
Service life on-highway	1.5 million km
Service life off-highway	15,000 hours
Oil in fuel	max. 10 % of engine oil consumption
Sealing concept	Wiper rings
PCV	Yes
VCV	2.2 / 3.4 / 4.4 / 7 / 9 l/min
Feed pump	Mechanical (G-rotor)
Min. pressure for starting	100 bar
Mean torque	52 Nm @ 2,200 bar & max. volumetric flow
Ambient conditions	-30 °C to 125 °C
Vibration specification	VDI 3838/ISO 10816-6
Filtration specification	ISO 19438/min. 98,6% efficiency @ 3–5 µm

**Application Area:** agriculture and forestry, building construction and civil engineering, on-highway, maritime segments, power generation



**Sales worldwide**  
**Liebherr-Components AG**  
P.O. Box 222,  
CH-5415 Nussbaumen / AG  
☎ +41 56 296 43 00  
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**Sales North America**  
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**Sales China**  
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Building No. 1, 88 Ma Ji Road,  
200131, Shanghai Pilot Free Trade Zone, P.R. China  
☎ +86 21 5046 1988  
E-Mail: components.china@liebherr.com