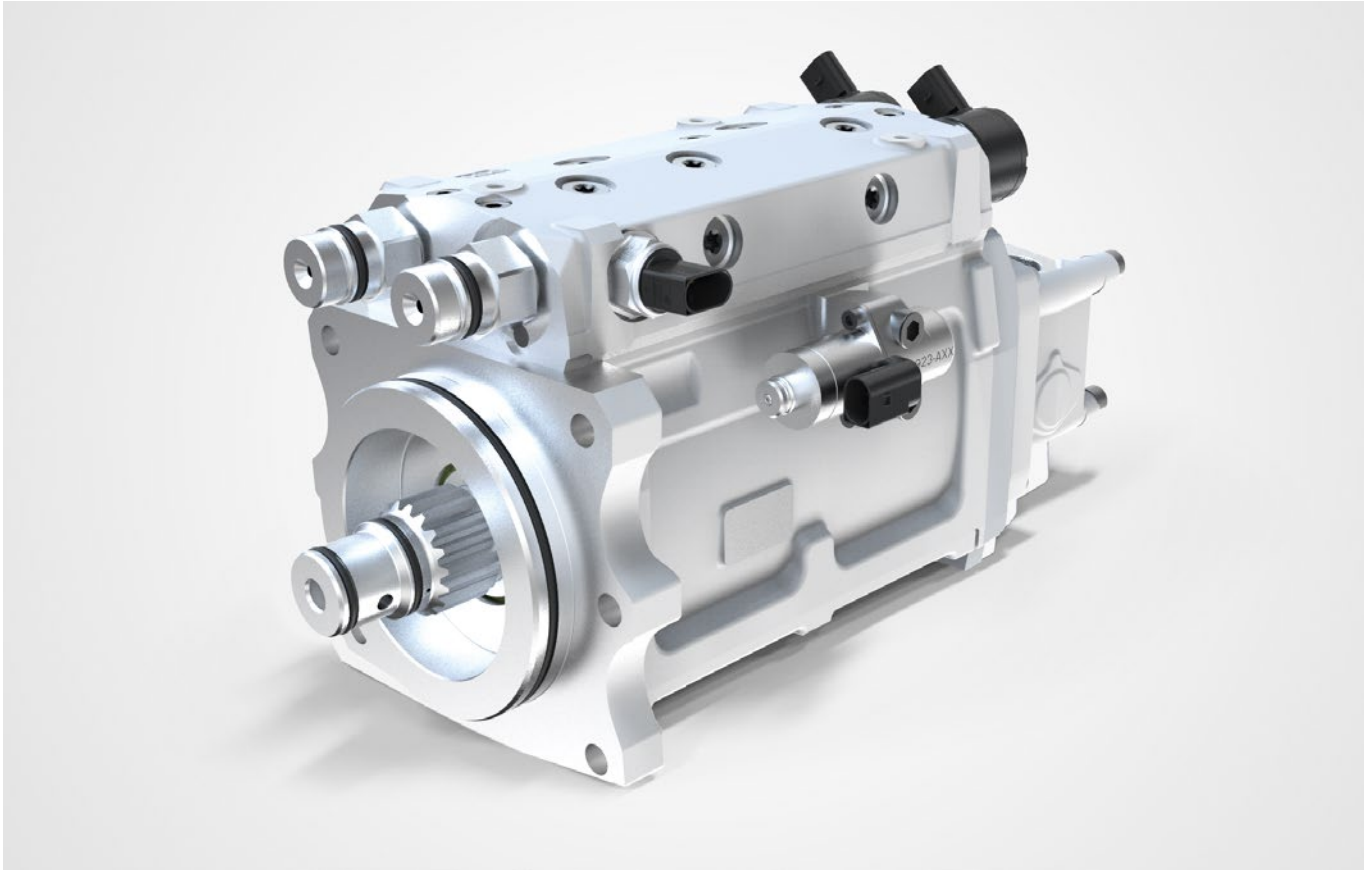


Short Description

Common Rail High Pressure Pump LP11.5/LP11.6



The LP11.5 and LP11.6 oil-lubricated high-pressure pumps have been developed for large-scale diesel applications, which are used especially in the mining, railway, maritime and power generation segments. Maximum reliability under the harshest conditions with regard to vibrations during impact loads of up to 10 g, dust pollution and extreme working temperatures from -30 °C to +125 °C, is absolutely necessary due to the far-reaching consequences of a device standstill. Oil lubrication in combination with the eccentric drive enable extended service life of up to 25,000 hours. 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. The small difference between the mean and the peak torque of up to 45 Nm favours the design of the wheels and has a positive effect on the levels of noise emission. For optimal integration in the widest variety of applications, different types of drive flanges are available.

Features

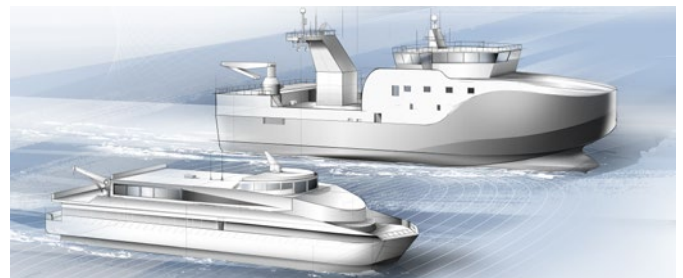
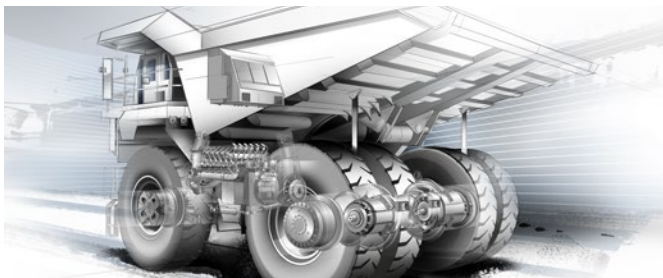
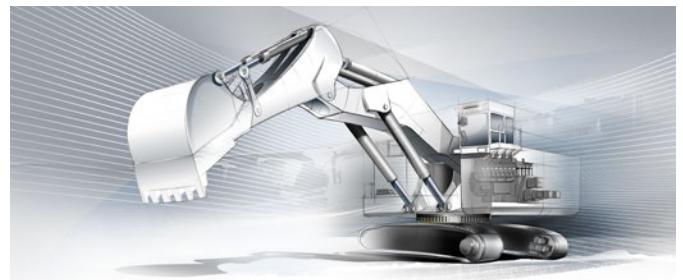
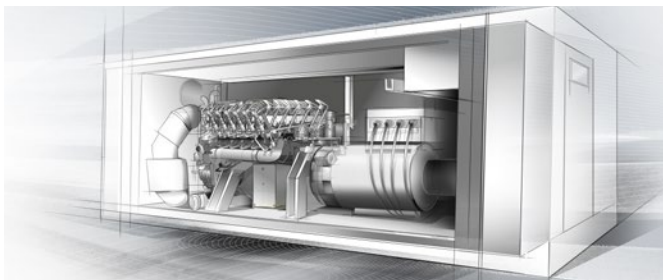
- Oil-lubricated
- Robust eccentric drive
- Extreme robustness against aggressive fuels (compatible with EN590, Jet A1 fuels, B10 S10/B30, SS 155435, ASTM)
- Mechanical G-rotor booster pump
- High flexibility and efficiency thanks to specially adapted electronically steered volume control valves
- High adaptability, with up to four connector possibilities for high/low pressure lines
- Individual engine interfaces
- Direction of rotation: clockwise/anticlockwise
- Robust and reliable in the harshest environments according to VDI 3838 and ISO 10816-6
- TA Luft, US EPA Tier 4f, IMO III compatible

Technical Data

Common Rail High Pressure Pump LP11.5/LP11.6

Technical Information	LP11.5	LP11.6
System pressure	400–2,200 bar	400–2,200 bar
Flow rate	825 l/h	990 l/h
Pressure at rated pump speed	4,500 rpm @ 2,200 bar	4,500 rpm @ 2,200 bar
Pressure at max. speed	5,000 rpm @ 1,800 bar	5,000 rpm @ 1,800 bar
Drive concept	Eccentric shaft	Eccentric shaft
No. of plungers	5	6
Plunger diameter	11 mm	11 mm
Plunger lift	8.6 mm	8.6 mm
Displacement per rev	4.09 cm ³	4.90 cm ³
Lubrication	Oil	Oil
Weight	~ 55 kg	~ 60 kg
Service life off-highway	25,000 h	25,000 h
Oil in fuel	≤ 10 % of engine oil consumption	≤ 10 % of engine oil consumption
Sealing concept	Wiper rings	Wiper rings
PCV	Yes	Yes
VCV	18/24 l/min	18/24 l/min
Feed pump	Mechanical (G-rotor)	Mechanical (G-rotor)
Min. pressure for starting	100 bar	100 bar
Peak torque	max. 180 Nm / min. -90 Nm	max. 215 Nm / min. -100 Nm
Mean torque	140 Nm @ 2,200 bar and max. volumetric flow	170 Nm @ 2,200 bar and max. volumetric flow
Ambient conditions	-30 °C to +125 °C	-30 °C to +125 °C
Vibration specification	VDI 3838/ISO 10816-6	VDI 3838/ISO 10816-6
Filtration specification	ISO 19438/min. 98,6% efficiency @ 3–5 µm	ISO 19438/min. 98,6% efficiency @ 3–5 µm

Application Area: power generation, mining, maritime segments



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