From A to Z – the components division of the Liebherr Group offers a broad range of solutions in the area of mechanical, hydraulic, electric and electronic drive system and control technology. The efficient components and systems are produced at a total of ten production sites around the world to the highest standards of quality. Central contact persons for all product lines are available to our customers at Liebherr-Components AG and the regional sales and distribution branches.

Liebherr is your partner for joint success: from the product idea to development, manufacture and commissioning right through to customer service solutions like remanufacturing.

components.liebherr.com
Efficiency in design and functionality

For high-performance engines in the off-highway segment, the injector platform LI2 offers a unique high nozzle flow in a compact design, enabling particularly high performance per cylinder. The injectors are combined with high-performance high pressure pumps, which deliver up to 810 l of fuel per hour and are particularly resistant due to their oil lubrication.

Intelligent designs enable the integration of the injection system into a wide variety of engine dimensions and space conditions in the engine. All components in the field of high-performance engines are certified according to common marine standards.

Technical Data

<table>
<thead>
<tr>
<th>System pressure</th>
<th>250 – 2,200 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine power / displacement</td>
<td>up to 180 kW / cyl</td>
</tr>
<tr>
<td>Number of injections</td>
<td>5</td>
</tr>
<tr>
<td>Hydraulic flow rate</td>
<td>400 – 2,600 ml / 30 sec</td>
</tr>
<tr>
<td>Nozzle diameter</td>
<td>7 or 9 mm</td>
</tr>
<tr>
<td>Max. hydraulic flow (pump)</td>
<td>up to 810 l / h</td>
</tr>
<tr>
<td>Control leakage / injector</td>
<td>&lt; 15 – 30 ml / min</td>
</tr>
</tbody>
</table>

Injector LI2

System pressure 2,200 bar
Nozzle diameter 7 and 9 mm
Hydraulic flow rate 600 – 2,600 ml / 30 sec

High pressure pump LP9.2

System pressure 2,200 bar
Max. hydraulic flow 220 l / h
Rated pump speed 3,750 rpm

High pressure pump LP11.2

System pressure 2,200 bar
Max. hydraulic flow 320 l / h
Rated pump speed 4,500 rpm

High pressure pump LP11.5

System pressure 2,200 bar
Max. hydraulic flow 810 l / h
Rated pump speed 4,500 rpm

Engine Control Unit ECU2-HD

Supported emission standards Euro V / EPA Tier 4f / EU Stage IV / EU Stage V
Supported engines Diesel engines / stationary gas engines (CNG)
Number of supported cylinders 12 / 24 (with two control units)

Engine Control Unit ECU3

Supported emission standards Euro V / Euro VI / EPA Tier 4f / EU Stage IV / EU Stage V / IMO III
Supported engines Diesel engines / mobile gas engines (NG)
Number of supported cylinders 6