High Pressure Pump Units

AQUAJET® 50 • S 1600-50 • S 1100-50

The endurance runners at particularly favourable operating costs

- High energy savings
- Sturdy industrial engine
- Other versions
- Safe operation
- High mobility
- Application systems
The endurance runner in top quality

- Long lifetime of all high pressure components due to optimal valve and sealing technology, use of top quality materials and precise series production with most modern machines
- Long lasting corrosion resistance of the fluid end
- High operational reliability and long maintenance intervals through the hermetical sealing of the gear end by means of the patented bellows sealing system
- Leakage free pump thanks to the arrangement of all pressurised high pressure components inside the pump housing
- Significant operating cost advantage thanks to the crank section with pressurised lubrication system which is designed for at least 25,000 operating hours under full load
- High reliability in continuous duty due to the performance reserves of high pressure pump, drive engine and all components

Energy savings through high efficiency

- High efficiency. The Aquajet ultra high pressure pump converts 95% of the shaft power into hydraulic energy
- Very smooth running due to low speed at maximum performance
- Low diesel consumption due to modern engines

Safe operation

- Everything under control. Monitoring, control and nozzle calculation via the Hammelmann ES3 control unit. Intuitive navigation in many languages. All important operating data at a glance
- Easy set-up due to easily accessible supply and high pressure connections

Sturdy industrial engine

- Economical industrial engines in accordance with the current exhaust emission certification stage 4
- Ample power reserves: 571 kW engines for real 500 kW pump performance

High mobility

- Low noise pump unit due to super soundproofing ≤ 72 dB(A) at a distance of 7 m ≤ 81 dB(A) at a distance of 1 m
- Environmentally safe operation due to totally enclosed bottom tray made of aluminium
- Large fuel reserve. Minimum of 8 hours operation possible due to the large internal fuel tank

Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Plunger Ø</th>
<th>Operating pressure</th>
<th>Flow rate</th>
<th>Engine power</th>
<th>Pump power</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQUAJET 50</td>
<td>28 mm</td>
<td>3000 bar</td>
<td>77 l/min</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>35 mm</td>
<td>2200 bar</td>
<td>122 l/min</td>
<td></td>
<td></td>
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<tr>
<td>S 1600-50</td>
<td>40 mm</td>
<td>1600 bar</td>
<td>166 l/min</td>
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<tr>
<td></td>
<td>45 mm</td>
<td>1290 bar</td>
<td>212 l/min</td>
<td></td>
<td></td>
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<tr>
<td>S 1100-50</td>
<td>50 mm</td>
<td>1040 bar</td>
<td>262 l/min</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- up to 571 kW

- 500 kW
Stationary diesel unit in a soundproof container

3 speed transmission unit – Save up to 54 l/h of fuel!
HDP 500 Diesel driven pump unit with manual 3 speed transmission only uses that energy needed for the job to be done.

**3rd gear – full pump power**  
as typically employed for tank cleaning

**2nd gear – medium pump power**  
i.e. for pipe and tube bundle cleaning

**1st gear – low pump power**  
for manual blasting gun work
Industrial high pressure application systems

Hammelmann high pressure pump units can be used with a wide range of water tools