With a broad portfolio of condition monitoring tools, our experienced specialists assist you to optimize your pump performance. One of the tools is our field-proven, high frequency and real-time mobile WPMS™ system (Wirth Pump Monitoring System).

With a continuous performance overview it enables early detection of critical issues and allows for preventive and condition based maintenance. MHWirth's mobile WPMS™ system therefore reduces costs of ownership and at the same time increases the plant’s productive time.

Additionally, we are capable to analyse the whole pump system and detect optimization potentials to reduce your OPEX costs. Using leading-edge simulation software, we evaluate the slurry pump’s electrical and mechanical components as well as the fluid end and also include effects in the pipeline, dampeners, etc. Based on this overall analysis of the whole pump system we give specific recommendations to increase your pump efficiency. Before installation, any changes can be tested and verified in the simulation to ensure the best possible solution.

The WPMS™ system monitors the following pump characteristics:
- Suction and discharge performance
- Piston and valve performance (leakage)
- Pulsation equipment performance (suction and discharge)
- Volumetric efficiency of the pump and each chamber

Benefits
- Optimize pump performance
- Early detection of critical issues
- Reduce OPEX costs
- Specific recommendations
- Changes can be tested and verified
On site measurement

Technical Specifications
Our mobile WPMS™ tools and techniques

<table>
<thead>
<tr>
<th>Area of application</th>
<th>All Piston Pumps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preconditions</td>
<td>No particular instrumentation required; Excess to the pump required and possibility to mount additional pressure sensor</td>
</tr>
<tr>
<td>WPMS™ output</td>
<td>Findings documented in MHWirth's standardized reports</td>
</tr>
</tbody>
</table>

Data is subject to confirmation by the manufacturer.