

More than just listening: The digital sense for your pumps.

Many problems in industrial pumps go unnoticed. Seals wear out, bearings are damaged by stress, and cavitation corrodes materials and impellers. If left undetected, these problems often lead to unplanned downtime.



Hidden Risks in Pumps

What begins unnoticed inside the pump often gradually develops into a threat to your production. Hidden wear, deviations, and minor malfunctions can cause unplanned downtime and high follow-up costs before they even become apparent.



Leaky seals

Leaks caused by worn or improperly operated seals are among the most common causes of pump failure. They lead to unplanned downtime, increased maintenance costs, and potential safety risks.



Bearing damage

Inadequate lubrication, misalignment, or vibrations can severely damage bearings. This leads to rising temperatures, increased wear, and, in the worst case, complete pump failure.



Cavitation

If the inlet pressure falls below the required levels, steam bubbles form, causing damage to the equipment. The result: a drop in performance, excessive noise, and a significantly shortened service life of the pump.

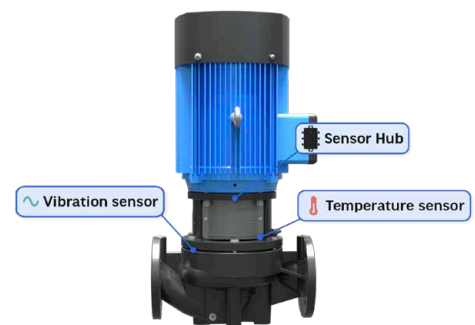
Our Solution

We listen to, monitor, and understand your pump.

We collect and combine extensive operational and condition data to provide comprehensive condition monitoring, and we integrate our maintenance solution into your system on a customized basis.

Possible sensors

- Acceleration
- Temperature
- Pressure
- Flow rate
- Airflow
- Humidity



Detectable damage

Bearing damage, imbalance, misalignment, loosening, coupling failure, cavitation, lubrication problems, overload, cooling failure, clogging, impeller wear, leakage, performance curve deviation, dry running, NPSH issues, power loss, valve failure, energy loss, blockage, rotor failure, seal wear



From reaction to a competitive edge

What used to cause unplanned downtime is now identified early on and managed proactively. This gives you greater planning certainty, reduces stress on the maintenance team, and turns maintenance into a strategic success factor.



Detect leaks early

By continuously monitoring vibrations, temperature, and operating conditions, the system detects seal wear before visible leaks occur. Maintenance can be planned proactively rather than having to react to sudden malfunctions.



Predicting bearing damage

Sensors detect even the slightest changes in vibration patterns and bearing condition. AI-powered analyses identify early signs of wear, enabling scheduled bearing replacement without unplanned downtime.



Prevent cavitation early

Any deviations in operating behavior, pressure trends, or acoustic patterns are detected immediately. This allows critical operating conditions to be corrected early on, before cavitation leads to significant material damage and a loss of performance.

Find the right solution with our workshop

Getting started with predictive maintenance often raises many questions. What should be monitored, which technologies make sense, and is it even worth the effort? **Our workshop** will help you answer these very questions and find a clear direction for your project.



Machine & Plant Workshop

Let's work together to design the best predictive maintenance solution for you.



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