



Pump Monitoring Systems

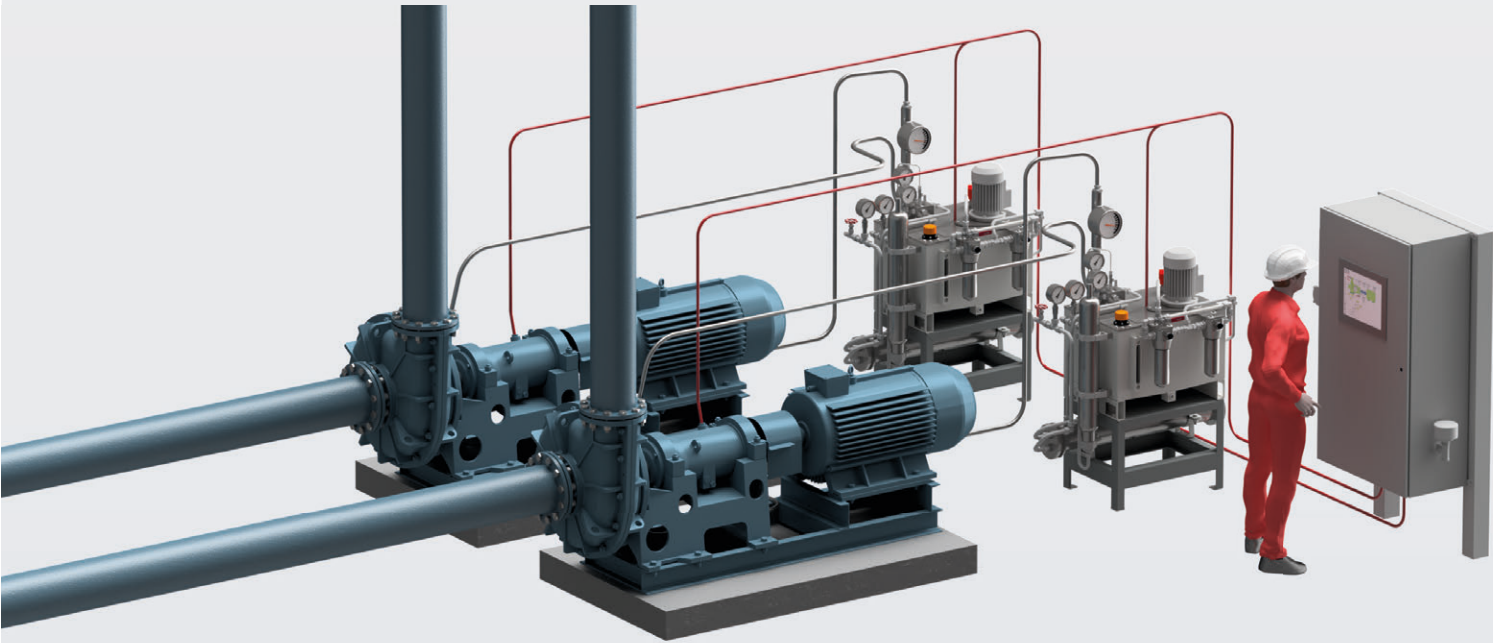
Important operating parameters are monitored, and data will be collected in one system
Applicable for pumps, compressors and agitators to support predictive maintenance

Typical arrangement for two high duty pumps

Monitoring Set Up

METAX monitoring systems for two machines include the highest level of self-monitoring: two separate PLC-units monitor each other mutually.

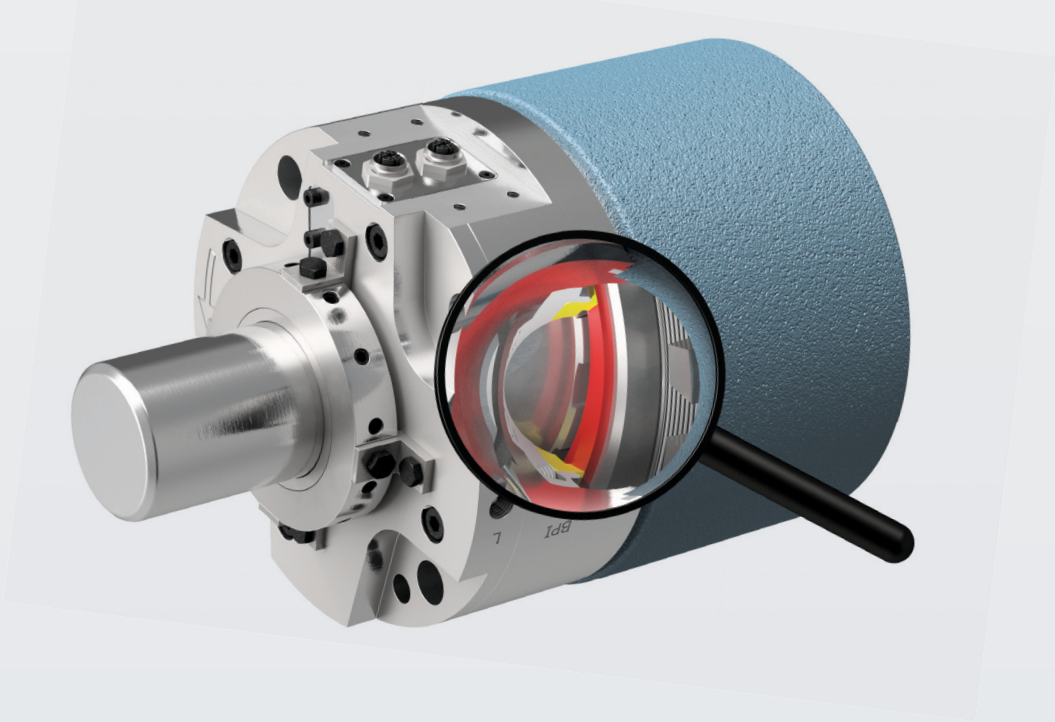
Our systems collect all information about a machine set up: pressure, temperature, flow of barrier fluid, vibration and with our innovative technology lubrication condition of the bearings and the mechanical seals.



“See” what is not visible

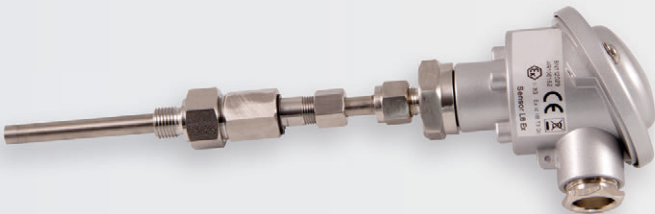
Looking Inside

Lubrication condition of machine parts may change during operation due to changed operating conditions of the machines, due to wear and aging of lubricant. METAX ultrasonic sensors are built in close to the area of lubrication without disturbing the operation of the machine parts. Our measuring technology together with complex mathematical analyzing algorithms delivers precise life information of the lubrication status.



Modular equipment with sensors for Lubrication Monitoring

- ✓ EX-proof sensor design
- ✓ Sensors for bearings with clamping ring screw connection
- ✓ Sensors for mechanical seals built in with plug connection



Individual configured layout Cabinet Design

- ✓ Two PLC's – one for each pump
- ✓ Human-Machine Interface at the front door
- ✓ Air purge device for hazardous area
- ✓ Redundant power supply
- ✓ Relay's for safety information systems



Users perspective

Your Benefit

- ✓ High operating safety by continuous monitoring of operating condition
- ✓ Simplified identification of the status of the machine by using a “traffic” light signal
- ✓ Optional: shut down information when reaching a critical level of operating conditions
- ✓ Storage of all operating data for a long-term analysis
- ✓ Cost optimization - predictive maintenance only when necessary
- ✓ High availability of the plant by minimizing the downtime

User benefits through technology

METAX – Seals

- ✓ Timely recognition of wear through innovative monitoring technology
- ✓ Assurance of favorable operation conditions
- ✓ Premature detection of changing operation parameters

» Our innovative sensor technology delivers information deeply from the condition of lubrication «



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