

Your Service Partner for On Site and Remote Monitoring



Ensure Peak Performance

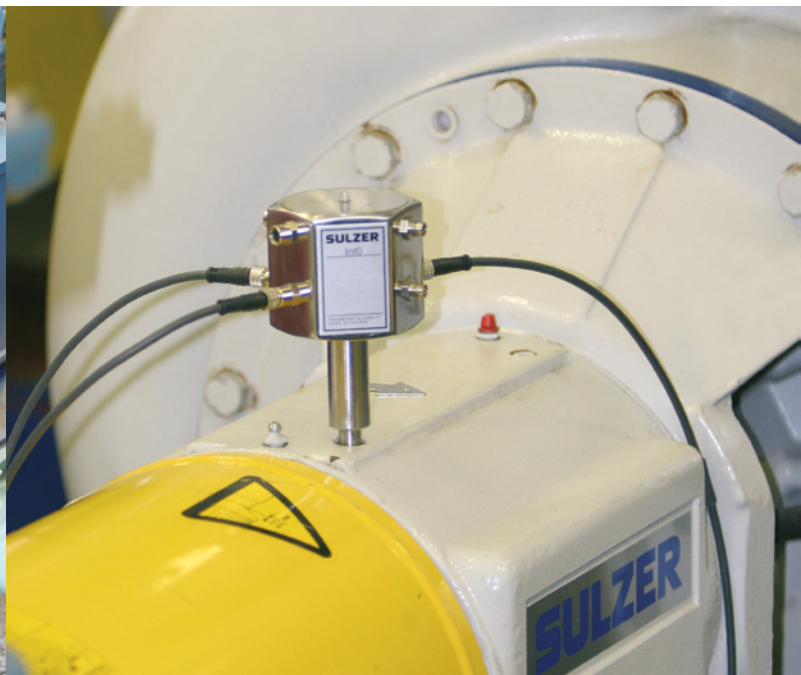
Sulzer is a global partner with reliable and sustainable solutions for your key applications. We offer repair and maintenance services for your pumps, turbines, compressors, generators, and motors from one access point. Operating one of the largest service networks in the industry, Sulzer is close to you with more than 100 service locations and more than 3,600 employees around the world. We focus on lifetime extension and performance improvements of your rotating equipment.

You rely on pumps to deliver peak performance, yet pump failure is one the main reasons for maintenance shutdowns and emergency repairs. In addition, pumps are major consumers of energy in many industrial processes. Therefore, pump efficiency has a direct impact on cost-effective operations. Sulzer monitoring and diagnostic services are designed to help you benefit from peak pump performance by:

- Optimizing energy consumption
- Matching pump performance to process needs
- Extending or eliminating scheduled service intervals
- Removing 'bad actors'
- Minimizing the risk of emergency shutdowns due to pump failures

Our experienced engineering staff typically begins with a review of the following key parameters:

- Flow
- Dynamic head
- Power absorbed
- Efficiency
- NPSH available/required
- Temperatures
- Vibration levels
- Piping interfaces
- Bearing support and lubrication
- Seal arrangement including piping arrangements



Every pump under control

These measurements can be used as the benchmark to detect potential fall off in performance or as the basis for re-rating the pump and its associated accessories. Ongoing measurement of pump performance provides a map by which we can predict maintenance needs.

Our engineers can take these measurements during a single site visit to audit the equipment, or during repeated visits on a pre-agreed basis. A third option is our remote monitoring service. Remote monitoring has the advantage of being continuous and automated. This makes the process more reliable and provides earlier warnings of a fall off in performance or potential failure.

A complete performance overview of all pumps within a process is the first step to producing an action plan to improve the worst performing units. Once identified, a problem pump can have its original design reviewed and weaknesses corrected. The design review takes into account any changes made to the original operating process to help identify related pump issues and recommend solutions.

Your local Sulzer representative can provide further information on our onsite and remote monitoring services.



www.sulzer.com



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