

The latest in condition-based maintenance: know today what to expect tomorrow and beyond



True condition-based maintenance for maximum system availability

Regular maintenance is good and important, but it can become expensive if parts are replaced or repaired too early, or even worse, too late. As the level of network connectivity and the need for just-in-time production increase, so too does the negative impact of failures and production downtimes. They can quickly have effects well beyond your own business. Nowadays the magic word is condition-based maintenance – on time, cost-effective and without long waits for spare parts.



Product expertise requires analytical skills

With today's intelligent sensor technology and thoroughly networked components, the technical infrastructure is either already in place or easy to establish. In theory. In practice, however, you can only benefit from this technology by combining product expertise built up over many years with cutting-edge analytical skills. And by knowing what to do with the results. The better you know the product and the better your data, the better your maintenance will be. And system availability will increase as a result. This is exactly where Rexroth's condition-based solution comes in.

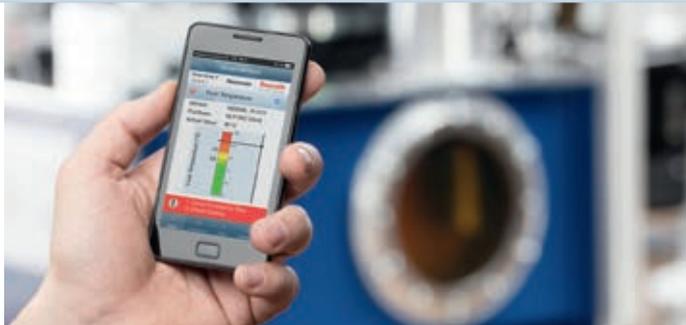
As an original equipment manufacturer and partner to the mechanical engineering industry over many years, Bosch Rexroth has specialists with detailed knowledge of all hydraulic components. Sophisticated sensor technology and intelligent controls provide the conditions for perfect data acquisition.

This advanced technology is more than sufficient for conventional limit analyses of fluid, which can be performed independently using a sensor package for continuous monitoring, or as a service by Rexroth if a snapshot is required. This is the first step in condition monitoring. If you want to go a step further and check individual critical components in the unit, Rexroth provides intelligent components (which can be retrofitted), analytical tools and service offers for local monitoring. Consulting is a part of the package, as you would expect.

Tailored Rexroth services: from simple limit analyses to Data Mining with ODiN

Level 3: Predictive Analytics

- ▶ Level 2
- ▶ + Online
- ▶ + Data Mining



Level 2: Local fault detection

- ▶ Level 1
- ▶ + Functional monitoring of individual critical components



Level 1: Limit monitoring for fluid



In our Rexroth service packages, you will find a solution tailored exactly to your condition-based maintenance needs. Conventional limit analyses for fluid, added monitoring of individual critical components in the power unit with manual analysis, or unique data mining with the ODiN Online Diagnostics Network – no matter which solution you choose: at Rexroth, service means partnership. Around the clock. Worldwide.

A new level of quality for maintenance: Online Diagnostics Network – ODiN

The all-in-one package:

Condition-based Maintenance with ODiN

With ODiN, Rexroth has brought condition monitoring to a completely new level. Truly realistic condition monitoring is not possible unless very large volumes of data can be continually collected and analyzed in real time. Thanks to ODiN's secure online connection, comprehensive data mining for predictive analytics is now possible for the first time. Huge amounts of physical measurement data from machines worldwide are anonymously analyzed. Using this analysis, a health index can be created for each individual machine or component.

More data, better analyses, more precise predictions: fewer failures

The great advantage of predictive analytics with ODiN: Failure models calculated using data mining are much more accurate than models that are created by hand. The result: Our machine condition predictions are much more accurate, you benefit from the right service offers at the right time and place, and your costs are reduced significantly thanks to condition-based maintenance, thereby significantly minimizing the downtime costs and follow-up costs. The risk of an unplanned downtime of the hydraulic system is drastically reduced and your system availability is reliably improved.

Tailored comprehensive service: from consulting to implementation

Rexroth is now offering tailored service packages for this new and unique comprehensive condition monitoring service. These packages include everything from consulting, monitoring and analysis to carrying out the service work itself. All from a single source. Your experienced partner.

Learn more today. www.boschrexroth.com/odin





Our services:

- ▶ Planning and installation of ODiN Condition Monitoring
- ▶ Central data storage and analysis
- ▶ Continuous reporting on the status of the machine and variations which could lead to failure
- ▶ Recommendations and advice about necessary maintenance
- ▶ Implementation by an expert, global service network

The advantages for you:

- ▶ Reliable predictions on the status of your machine
- ▶ Summarized status reports for your machine in the Rexroth Service Portal
- ▶ Maximum system availability thanks to early detection of causes of machine downtimes and rapid initiation of the necessary maintenance
- ▶ Cost savings through condition-based maintenance
- ▶ Expert, comprehensive service from a single source

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