




RigScan from Epiroc

Regular health checks keep you up and running







Working hard at peak performance – over and over again

Regular health checks are good for you. Keeping track of your blood pressure, your heart and your general health helps you detect and treat problems in time. This keeps your motor going longer. The same is true of your equipment. A regular inspection helps prevent unplanned downtime and production losses. Preventive checkups boost productivity and improve safety – for you and your equipment.

Working hard in tough environments requires strength and endurance. Taking on the challenges of today, including faster production rates and safety for man and machine, puts mechanical condition to the test. Keeping your equipment running at peak performance in a safe way is key to a successful operation. RigScan from Epiroc is an advanced audit service product that gives you a real time, non-intrusive look at your equipment's running condition and performance from the inside.

Cutting-edge technology for increased uptime
RigScan brings together Epiroc expertise, cutting-edge technology and proprietary data from your equipment. It provides a unique solution to solving downtime and production losses by identifying potential issues before they become problems. That way you will always know that your equipment is in optimal running condition and that the risk of an unexpected breakdown is minimized.



It's all about safety – for you and your equipment

First and foremost: safety in a mining and construction operation is non-negotiable. Through early detection of potential hazards, RigScan from Epiroc improves safety, health and the environment. These advanced tools find problems before they become headaches.

Safety is a constant concern in all mining and construction businesses today. Accidents not only cause major personal suffering. Incidents caused by safety-related deficiencies often damage machinery and equipment as well, resulting in costly production losses.

A thorough safety review

RigScan is designed to prevent equipment breakdowns and keep your operation up and running safely. All audits begin with a thorough safety review in several steps focusing on human safety, visual safety, fluids, lubricants and working safety. Our RigScan experts are highly familiar with

the equipment's safety features and are aware of the risks related to the equipment and the workplace. Step by step they go through the equipment in order to detect signs of damage or anything that could cause harm to the people in the working area.

For instance, identification of internal leaks, pressure blockage, or over pressurization of a valve or pump before it fails, will prevent injuries to anyone around the component. This results in fewer accidents and less damage to machinery. Equipment operating properly and safely will also reduce your environmental footprint.



What's in it for you?

RigScan helps to improve safety, health and the environment through early detection of potential hazards

Detects signs of damage or anything that could cause harm to the people in the working area

Identification of internal leaks, pressure blockage, or over pressurization of a valve or pump before it fails, will prevent injuries



3/8" ID 9.5 mm WP 33.5 MPa/5000 psi MSMA

BLOOD PRESSURE

125
73

SYS

DIAS

HR

Add life to your equipment

Regular health checks will extend the life of your equipment. A preventive checkup detects potential problems and whether a part is approaching failure. RigScan produces a clear reading of the equipment's efficiency and condition to ensure a long life and to help it keep running at the peak of its capacity throughout its lifecycle.

With the help of the RigScan expert, the parts that are needed to keep the equipment up and running can be identified and corrected in a timely manner, if necessary. The result is that the life of the equipment will be extended and that you will get many more productive hours out of it.



What's in it for you?

Extended life through advanced diagnosis of problems. It allows for minimal downtime and production interruptions. Maximum production is achieved through all aspects of the auditing process

Maximum productivity through regular audits of the equipment. By monitoring and tracking pressures and other measurements, we increase component life on the equipment and optimize running time









Avoid unplanned maintenance

Unexpected downtime means costly production losses. The more you can predict and plan, the better your operation will run. With that in mind, RigScan is the perfect tool to help you avoid unplanned maintenance.

By diagnosing failures before they happen, RigScan allows you to schedule maintenance for the equipment, at the same time allowing Epiroc to order parts and schedule a service time so that minimal downtime is achieved. RigScan provides you with a sophisticated equipment health check that detects if a part is approaching failure. Early fault detection reduces parts delivery costs and faster troubleshooting reduces maintenance costs.



What's in it for you?

Reduces maintenance costs through faster troubleshooting

By diagnosing failures before they fail, RigScan lets you schedule maintenance for the equipment

Comprehensive performance analysis lowers operational costs

Health report: You know where you stand

How is your equipment doing today? RigScan's standardized global audit protocols provide baseline and benchmark data, based on hard field intelligence.

Based on the checkpoints in this documentation you will know the state of your equipment.

At Epiroc we build equipment that is critical to your operation. With many years experience from the field, we can safely say that we know how to keep you operating at peak performance. We have the answers to the questions of what needs to be inspected, the life of the components and which parts wear faster than others. Everything follows the specially designed and standardized global audit protocols available for a number of Epiroc machines. The inspection protocols are reviewed together with you. When the health report identifies a problem or highlights a potential one, we always specify any actions needed. For example, our RigScan expert can advise you whether a part needs to be replaced right away or if it can wait. If there are steps labeled as critical safety or performance the advice will be that the failures must be remedied prior to using the equipment again.



A critical report is generated on site and handed over on a USB stick.



A new standard in equipment audits

Monitoring the condition of a piece of equipment on the spot is now easier and quicker thanks to new technology. By combining our unrivaled expertise with contemporary measuring technology, Epiroc has set a new standard in equipment audits.



Tablet

Since the audit process is completely digital on a tablet with a camera, we incorporate many functions into a single tool. Additional devices are not needed to store images, videos, parts catalogs or equipment manuals. The audit process is tracked internally by the tablet and all data is recorded and fed back into a central server to ensure that no data is lost or misplaced, for fast and efficient reporting.



Thermal imaging camera

The thermal imaging camera can identify failures before they occur. It can identify fluid blockage, internal leaks, improper temperature displacement across cooler cores and many other things, to allow for ordering parts and setting up a service call to repair the issue with almost no loss to production.



Particle counter

Clean fluids is the key to a healthy system. Without clean fluid, valves and pumps start to fail because of internal blockage or failure caused by debris in the oil. The particle counter can quickly identify the cleanliness of a fluid based on the specifications set by Epiroc. If a fluid does not pass its cleanliness test, we can report this data on site, and the technician can see to it that the fluid is filtered or changed before an issue arises.

Epiroc service – More than a machine.

Epiroc products are built to last. Each and every one delivers superior performance in the most efficient and cost-effective way, even under the toughest conditions. But it's more than a machine. We back up your equipment with sustainable solutions that deliver better safety, higher productivity and peace of mind. Our global service offering is loaded with reliability and the highest availability. Epiroc aims to contribute to your profitability and add value to your operation. Always with your best interests at heart.



Fluid management solutions

Enables optimal equipment operation. It ensures that all fluids are maintained in the most efficient, environmentally friendly and safest way possible. Epiroc offers superior fluids delivered and stored in a complete fluid solution package.



Training products

Epiroc's training products provides training programs for both operators and technicians. We offer a wide range of training products for Epiroc mining and construction equipment.



Replacement parts and kits

Kits and genuine replacement components that are developed and designed to ensure proper, safe and easy maintenance of your equipment in compliance with the Epiroc quality standards.



Service agreements and audits

RigScan is an audit service designed to give customers a real-time, inside look at equipment performance in order to optimize the overall operation. Epiroc's service agreement program delivers reliability and peace of mind.



Service tools

Tools and support systems designed to provide enhanced and safe service of our mining and rock excavation equipment. Service tools are built with durability in mind, and many will last as long as our equipment does.



Rock drills and rotation units

The core component to your drilling equipment. To ensure the safest and most efficient operation of your equipment, Epiroc offers a full line of support.



Custom Engineered Solutions

Kits that are developed specifically in response to meet each customer's individual needs. As operational parameters and equipment locations change, equipment may also need to evolve to operate in the safest and highest performance output.



Telematics

A solution that helps to manage and enhance equipment with an easy-to-use web-based user interface or integrated into your system. This allows for the visualization of equipment, fleet productivity and enables remote trouble-shooting.



Reman solutions

Sustainable remanufactured components that ensure optimum, safe and reliable performance and minimal downtime. Epiroc Reman solutions are covered by a competitive warranty policy.



Upgrades

As technology develops and Epiroc engineering advancements are made, upgrade kits are designed so that equipment in operation can obtain the same safety and efficiency improvements. Upgrades are off-the-shelf bolt-on-kits, that can be ordered and installed.

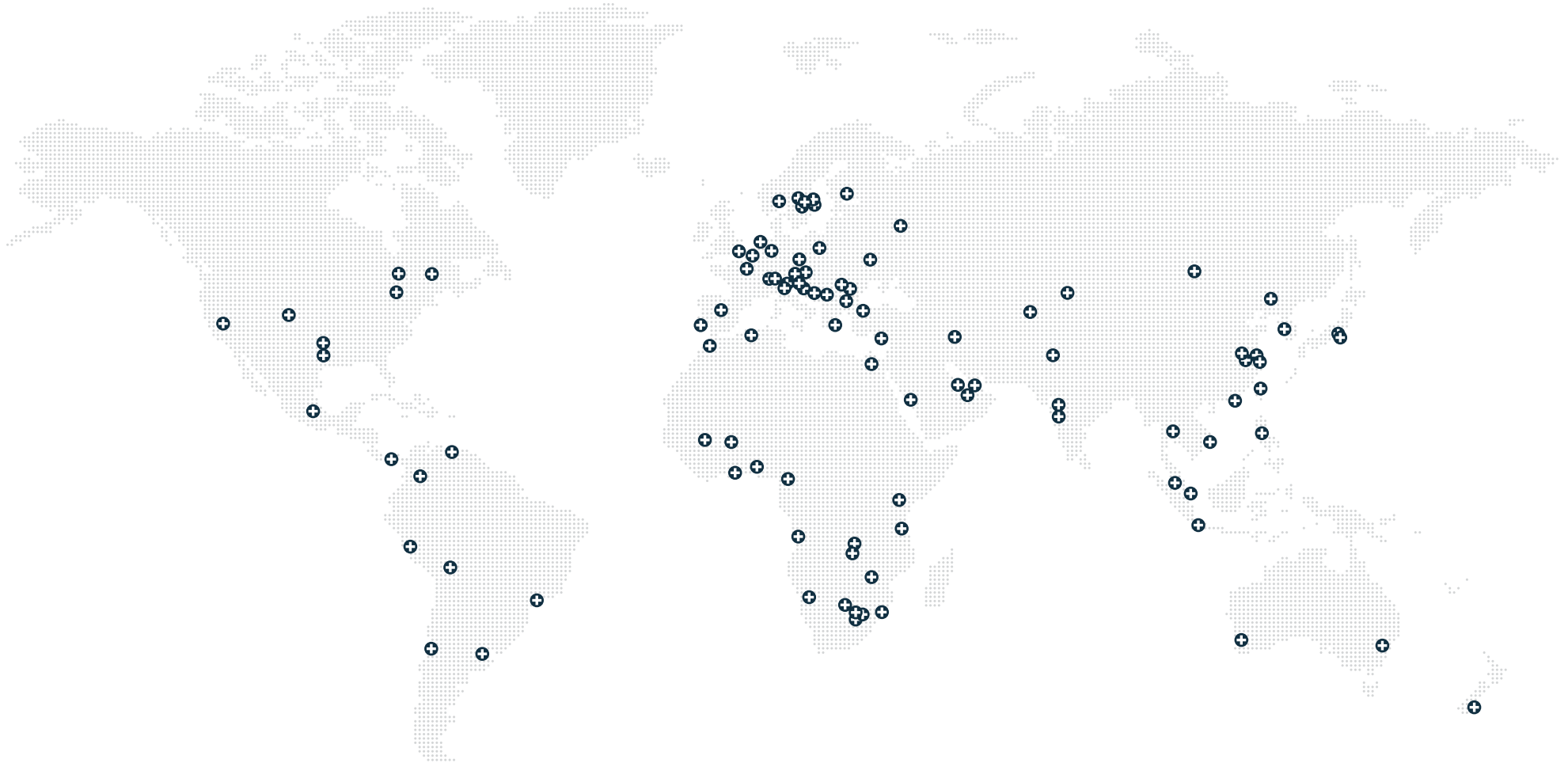


Midlife services

New machine performance at a fraction of the cost, boosting durability and reliability for future operations.

Global presence

Epiroc supplies superior products and service around the world.



United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.

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