ABB Ability™ Performance Optimization for hoists
Hoist Performance Fingerprint

ABB’s Hoist Performance Fingerprint is a consulting service performed by highly experienced ABB staff directly on site. Our engineers assess, analyze and test your mine hoist system and identify potential improvements. Thanks to this structured and customized system inspection concept we help you reduce maintenance costs and improve safety, asset performance and availability.

ABB delivered its first complete mine hoist in 1937. Since then, more than 700 units have been installed all over the world. Thanks to our global presence and long-lasting experience we provide services tailored to your needs – on site or remotely.

ABB offers mine hoist services for condition and performance control to maintain the equipment in “as commissioned” state. We have the unique capability to engineer, deliver, install and provide service for entire mechanical and electrical mine hoist systems of all types – friction hoists, single- and double-drum hoists.

Protect and optimize your hoist system
Even if a hoist is operating smoothly, there still can be room for improvement which we can detect with the help of Hoist Performance Fingerprint. This consulting service is a structured audit of your entire hoist system – covering the electrical and mechanical parts.

Our experts identify how well your hoist is contributing to operational excellence. We analyze your hoist assets and point out possibilities to optimize them. Based on the analysis you will receive a report with recommended actions and an implementation plan of proposed improvements.

Experts you can rely on
The Hoist Performance Fingerprint is a service developed by ABB service engineers with decades of experience in designing and maintaining all types of hoist systems. In this fully developed concept we bundled our extensive knowledge to provide you with the most comprehensive service you can get for your installed system.

The Fingerprint can help you reduce unplanned downtime and increase system reliability: The analysis identifies abnormal conditions that could, if not corrected, cause severe problems in the production process or could even damage the equipment.
Holistic approach covering electrical and mechanical equipment

The Hoist Performance Fingerprint consists of high quality data collected from over 20 pre-defined points in the hoist system. This data forms the backbone for any further analysis and the associated comprehensive report. With the help of the data, our engineers analyze the hoist regarding both electrical and mechanical safety issues.

In addition we assess the respective mechanical equipment using a customized structured audit tool to check all critical components. Your hoist will be compared to best industry practices. As a result we will as well provide you with a detailed report with findings and recommendations.

Your hoist system – a carrier with a huge responsibility

A mine hoist system is an intensive carrier in the mining process: It ensures that people can get below ground quickly and – much more important – safely. But handling such a sensitive load the equipment has to work very reliably. Regular checks are essential.

Therefore, many countries have specific regulations regarding the performance and safety of mine hoist equipment in place. Thanks to our outstanding experience our experts are familiar with all these regulations. So, if you rely on us as your preferred service and maintenance partner you can focus on your daily business: We will make sure that the condition of your hoist will meet all requirements needed and your system will perform sustainably and efficiently.

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Hoist Performance Fingerprint – expert hoist condition check

Your concerns
- Are you certain your hoist will stop safely?
- Is your hoist’s production cycle set at optimum rate?
- Do you know the performance of your individual brake units?

Our solution
A structured and customized system inspection concept to ensure your hoist is running at an optimal level

Features
- Hoist equipment condition assessment and testing
- Hoist critical data collection and analysis
- Report including identified gaps, possible risks as well as recommendations for improvements

Benefits
- Reduced downtime as inspections are done simultaneously
- Comprehensive written report can be used as statutory document, maintenance planning or budgeting
- Increases safety and reliability
- Minimizes production losses
- Reveals hidden failures
- Detects under-performing components
- Provides testing of multiple safety levels of hoist protection
- Extending the lifespan of assets
Long-term service agreement for your hoist system

Tailored maintenance and expert support
Make service and maintenance for your hoist system a long-term business approach – by bundeling Hoist Performance Fingerprint with other ABB services and technologies into a tailored long-term service agreement (LTSA).

In an LTSA ABB concentrates its entire system expertise and service knowledge to keep your hoist system running.

We act as your strategic service partner for long-term service and maintenance strategies customized to meet your site-specific requirements for preventive, predictive and corrective maintenance.

ABB recommends that the following service products be combined in a three-year LTSA:
• Hoist Performance Fingerprint
• Performance Optimization for hoists – continuous improvement through on-line monitoring
• Equipment lifecycle plan
• Equipment migration
Long-term service agreement (LTSA) supported by Lifecycle Manager

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Do more
Monitor, control, secure, manage, apply

Do better
Optimize, simulate, predict, automate

ABB Mining business is represented in the following countries: Australia, Brazil, Chile, China, Germany, North America, Peru, South Africa, Sweden and Switzerland. For contact details, please visit our website:

abb.com/mining

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