ABB Ability™
NGX Hoist Control
Our eXperience in mining improves yours.

- Improved user experience
- More reliability
- Higher protection and flexibility
With over 130 years in the mining industry, we strongly believe that experience is only valuable when it is applied and shared.

That’s why we have built ABB Ability™ NGX Hoist Control, an optimized and unified global hoist control system that gives you an improved user experience, improved reliability, higher levels of protection, and more flexibility than ever.
Standardized, flexible and scalable. Our solution can seamlessly adapt to any hoist, across your plants.
Advance your hoist control system to the next generation.

**Improved user experience**

At ABB, we have a long-lasting experience in developing and supplying hoist systems for mines. Building on over 130 years in the real mining world, we have listened to our customers’ needs and requirements. And today our experience improves yours. NGX is based on the latest human machine interface (HMI) insights and offers you the most modern and intuitive operator interface.

**More reliability**

Our hoist control systems are world renowned for their high reliability and trouble-free operation. More protective features in our system reduce downtime and maintenance. Plus: You can rely on a global platform that gives you access to ABB’s expert technical support – around the clock and around the globe. ABB provides the defense-in-depth security required for digital solution in mission-critical applications and industries. NGX has been reviewed and approved by ABB’s cybersecurity council.

**Higher protection**

ABB Ability™ NGX Hoist Control offers the latest and most comprehensive safety features in a non-SIL (functional safety) environment. We do not compromise on the safety of people working in the mines.

**Flexible and scalable**

NGX is designed to be used with any type of mine hoist, any application, anywhere. Compatible and easy to integrate, large global customers who have mine hoists all over the world benefit from a common platform for all globally distributed mine hoists. It can also be easily upgraded from a non-ABB control system.
In other words:
Our eXperience in mining improves yours.
NGX provides mine hoist operators with the most modern and intuitive hoist operator control station available.

The NGX Hoist Operating Station was designed with the latest ergonomic and human factors engineering guidelines in mind.

Left screen can switch between multiple auxiliary screens showing important maintenance related information.

Motorized height adjustment from 740 mm to 1320 mm allowing operators to sit or stand or anywhere in between.
Dual, touchscreen enabled LCD monitors present the operator and maintenance personnel with all the information needed to safely operate the hoist.

Right screen always displays critical and regulatory required hoist information (depth, speed, etc.)

Control of critical functions remain with physical devices on desk:

- Master joysticks for hoist drive direction and hoist brake activation
- Emergency stops
- Clutch actuation
- Shaft signaling bells
NGX can seamlessly integrate with ABB Ability™ Safety Plus for hoists. The only SIL 3 certified solutions that enable you to reach the highest level of safety.

First fully SIL 3 certified suite of mine hoist solutions

Highest level of safety available in the market

Rigorously examined and certified by an independent global functional safety certifying body: RISE

Designed in accordance with IEC62061 (International "Safety of Machinery" standard)
ABB Ability™ Performance Optimization for hoists is an advanced digital service that tracks the status of a mine hoist 24/7.

Easily plug the data collected from NGX Hoist Control with ABB advanced digital service to monitor KPIs and get recommendation to optimize your hoisting system.

It connects customers with ABB experts and analyzes the hoist's condition and performance.
130 years experience in mine hoist systems.

- **1891** | ABB’s first electrical motor for a mine hoist in Sweden
- **1937** | ABB’s first one-rope complete Friction Hoist delivered to Kristineberg mine (Boliden), Sweden (still in operation)
- **1946** | ABB’s first 4-rope friction hoist (LKAB Kiruna, SE)
- **1962** | First company to use hydraulic disc brake system in mine hoist
- **1965** | ABB’s first mine hoists to China (Meishan, Wushan, Jiuquan)
- **1984** | First company to deliver PLC controlled mine hoist (DS 100, Asea Master (Boliden, SE))
- **2010** | ABB’s first 4-channel brake system with closed loop retardation control launched in the world
- **2017** | First fully certified SIL 3 mine hoist safety monitor in the world (SHM)
- **2020** | Launch of ABB Ability™ Safety Plus for hoists – First certified SIL 3 Brake System and Hoist protector Systems
- **2022** | ABB Ability™ NGX Hoist Control - A new, optimized and unified global hoist control system
Throughout history, our mine hoist engineering team has continued to advance the state of the art around hoist safety and hoist control optimization for over 130 years, delivering over 1000 hoisting solutions worldwide. Our systems are tailored to the mine’s unique requirements and can be integrated with advanced digital services to lift your hoist productivity to a higher level.

Our engineers have become domain experts in mine hoist control and safety – an unbeatable combination for the mine hoist industry. They are available to assist you in performing mine hoist assessments and audits to increase overall efficiency and improve operational safety.

Get access to a vast network of global hoist experts. Benefit from ABB's mine hoist expertise of over 130 years.
ABB Ltd.
For contact details or more information, please visit our website: new.abb.com/mining/ngx

Or send an email to minerals@ch.abb.com

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