INDUSTRY SEGMENT INTRODUCTION

ABB Ability™ for mining
Increasing availability while pushing performance takes ability. ABB Ability™.

Although demand for commodities is growing in the long term, the mining industry currently faces a unique set of challenges: competitive pressure is driving mining companies to find new ways to increase the production rate of their operations, reduce the cost per ton produced and extend the lifespan of mine sites or establish new ones. As a result, productivity improvement is rapidly becoming a key competitive differentiator.

The solution to these challenges lies in automation, the integration of data and real-time optimization of mining processes.

ABB Ability addresses the entire mining value chain. From on-demand ventilation management to location-based, real-time decision support, ABB Ability solutions enable mining companies to know more, do more, do better, together.

Our digital products and solutions are combined with decades of industry leadership. Currently ABB offers more than 600 mine hoist solutions and over 125 mill drive systems. We have implemented over 720km of belt conveyor systems and have more than 200 patents in effect in the mining industry.

To read more about some of our success stories, please see the links below.
Gearless Mill Drive reliability

Oversight from anywhere and anytime for 97%-99% reliability, improved drive efficiency, and availability.

→ See more

Mine Smart Ventilation

Real-time controls that reduce ventilation energy costs by 54% and air heating costs by 21%.

→ See more
Hoist performance monitoring services

Monitoring and analysis services that detect abnormal safety conditions, optimize efficiency and reduce costs by avoiding production losses of up to 1,500 tons / hour.

→ See more

Mine Location Intelligence

Real-time positioning insights and controls that deliver 100% secure access control and shorter evacuation time.

→ See more
Remote services

Remote problem resolution and access to expertise avoiding downtime, resulting in significant cost reductions (an 8hrs stop amounts to 1.5mn cost).

→ See more

Integrated mining

With ABB’s help, a mining company turned one of Sweden’s oldest mines into a fully integrated example of one of its most modern.

→ See more
Microgrids

Delivering resilient power anywhere at any time.

→ See more