



Hexagon Drill Assist

An intelligent control and automation platform that enables autonomy for any drill rig, anywhere

What if we could train any drill operator on almost any drill rig in just 15 minutes? And what if that training delivered a productivity increase of 30% or more, even under challenging drilling conditions? And what if you could achieve these results without changing anything about how you maintain and operate the drill?

Through the application of artificial intelligence embedded in the automatic drilling algorithm, **Hexagon Drill Assist** delivers the first truly autonomous drill control system. Drill Assist addresses the skills gap present in the mining industry by using AI to analyse subsurface conditions during drilling, allowing precise and constant adjustments to drilling parameters, while protecting the drill and associated consumables.

Production increases, machines are protected, and the quality of drilled blast holes improves. The cost per metre drilled is reduced by increasing production per operating hour. In addition to closing operator skill gaps, equipment performance standards are also elevated.

The benefits of AI go beyond production increases. The quality of Measurement While Drilling (MWD) data is also improved. By drilling with optimized parameters, the generated data is more reliable and can be analysed to enhance fragmentation outcomes, boosting efficiency across the entire mine. With Hexagon Drill Assist, mines can drill more high-quality blast holes in less time, with greater accuracy and at lower cost.

Benefits

- **Improved asset efficiency and production:**
Automation and real-time feedback improve drilling consistency and utilisation, directly supporting higher production output.
- **Improved drilling accuracy and pattern compliance:**
More precise drilling execution improves drill pattern accuracy, supporting better blast outcomes and reduced rework.
- **Improved fragmentation information:**
Higher-quality drilling data enhances fragmentation insights, enabling more predictable blasting and downstream results.
- **Reduced stress on drilling equipment:**
Consistent, optimised drilling reduces unnecessary mechanical stress, supporting longer equipment life and lower maintenance demand.
- **Digital operator approach with minimal change impact:**
Preserves the OEM control system while reducing change management and training requirements for operators and technicians.
- **Rapid deployment:**
Designed for fast installation and commissioning, with typical deployment completed within five days.

Features

- **AI-powered auto-drill and MWD algorithms:**
Uses artificial intelligence to automate drilling and measurement-while-drilling processes, improving consistency and execution without replacing the OEM control system.
- **OEM and third-party system integration:**
Integrates seamlessly with existing OEM control systems and third-party solutions, enabling deployment without disruptive system changes.
- **Real-time system health feedback:**
Provides operators with continuous, real-time feedback on system status and performance, supporting safer and more informed operation.
- **Compatibility with new and existing blast hole drills:**
Designed for production drill rigs across both new and legacy fleets, enabling upgrades without requiring new equipment purchases.
- **Continuous data collection for optimisation:**
Continuously captures drilling data to support optimisation of blasting performance and downstream processing activities.

About Hexagon:

Hexagon is the global leader in measurement technologies. We provide the confidence that vital industries rely on to build, navigate, and innovate. From microns to Mars, our solutions ensure productivity, quality, and sustainability in everything from manufacturing and construction to mining and autonomous systems. Hexagon's Mining Division connects measurement and autonomy across surface and underground operations, pushing the boundaries of autonomous technology and data insights to help customers optimise resources and move material safely.

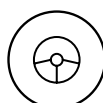
This offering includes solutions to support:



Evaluation,
Planning
& Design



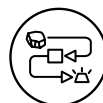
Drill & Blast



Load & Haul



Survey &
Monitoring



Processing



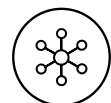
Reclamation



Safety



Autonomous
Operations



Insights

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