



Autonomous drill rigs

This solution orchestrates autonomous directional drilling with automated wellbore hydraulics and dynamic surface drilling rig equipment ...

As process automation proves out its value, industry begins looking to the next frontier of autonomous drilling
By Matthew Jackson, Moumien Ali ...

Autonomous drilling rigs, equipped with real-time monitoring systems, advanced navigation technologies, and communication networks like ...

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Autonomous provides the means for a Pit Viper to productively and safely complete its mission of drilling out a drill pattern with minimal human intervention. The system utilizes our leading ...

Consistent well delivery LOGIX(TM) drilling performance offers an integrated autonomous drilling solution that drills smart wells consistently, with accurate well-positioning, and superior drilling ...

Future Experts are divided on their view of the future for automated systems: Some see a generation of mostly autonomous rigs while others say that, in the near future, rigs will ...

The autonomous rig has been more precise in these scenarios, making for better drilling predictions and, in turn, easier drill plan adjustments. Consistency also has positive ...

An Australian project showcases how two experts are working together to develop a drill rig that pushes the boundaries of autonomous mining. We've entered Nick Howlett's sandpit.

The Azimuth Aligner is used in mining exploration to automate the drill-rig alignment process and enhance accuracy and efficiency. According to ...

2022 Drilling Rigs & Automation Features Innovating While Drilling® Onshore Advances September/October Autonomous drilling at scale: How close are we? A fully ...

This article aims to provide an overview of research trends and state-of-the-art technologies in face exploration and drilling operations in order ...

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D65 drill rig in the United States. This marks a "historic milestone, as it is also the first fully ...

New Papers Show Automated, Autonomous Drilling Systems Headed in Right Direction New case studies highlight how artificial intelligence, advanced hardware, and ...

Discover how LOGIX's autonomous drilling platform integrated with geosteering software provides insight and recommendations to successfully land the well.

In this article, we define autonomous drilling as the ability of a system-- software and hardware-- to learn, adapt, and evolve in response to a dynamic drilling environment to ...

With the ongoing transformation of the mining industry, this autonomous drill rig meets a widespread need on the market by providing a device that simplifies drillers' work ...

A virtual test rig environment that is a replicate of an actual full-scale test rig, is used to develop and qualify the new autonomous drilling solution, before a final demonstration ...

Progress made over the last few years in mechanizing rig equipment, adding sensors and digitizing workflows means that drilling is ready for autonomy. It ...

Additionally, smaller crews mean less trips to rig sites, and combined with more consistent drilling performance, autonomy reduces both energy consumption ...

The new advanced FleetFlex functionality enables operators to seamlessly and simultaneously control the transfer of drill rigs between ...

Fortescue has signed a major contract with Epiroc for more than 50 electric drill rigs as part of the Company's efforts to eliminate emissions. Under the new deal, worth up to ...

The trajectory of autonomous drilling rigs could very well pave the way for a new era in the mining sector, one that embraces efficiency while respecting the planet's finite resources.

Durin started designing its first drilling rig earlier this year, and it's capable of boring a hole 300 meters deep and 2.5 inches wide. It's still ...

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The AutoMine's Concept Underground Drill is a fully autonomous, twin-boom development drill rig capable of drilling without human interaction. The cabinless battery-electric drill can plan and ...



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Additionally, smaller crews mean less trips to rig sites, and combined with more consistent drilling performance, autonomy reduces both energy consumption and activity-related CO2 emissions ...

Drilling software offers a vast number of solutions to most of the tricky, laborious and time-consuming issues within exploration drilling. ...

This offshore drilling industry is going through a technological transformation as autonomous technologies is redefining how energy is explored and extracted beneath the ...

Fig. 1: Illustrative data flow. At Halliburton, a pilot program for autonomous directional drilling was rolled out in Norway, to drill three-dimensional wells in an automated ...

Tribe Technology's autonomous reverse circulation (RC) drill rig is the first of its kind, marking an unparalleled shift in the RC drilling industry. This autonomous rig is designed to significantly ...

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