



"IN THIS JOB YOU NEED TO
HOLD BACK THE FORCES
OF NATURE"

THE SANDVIK MDX BOLT



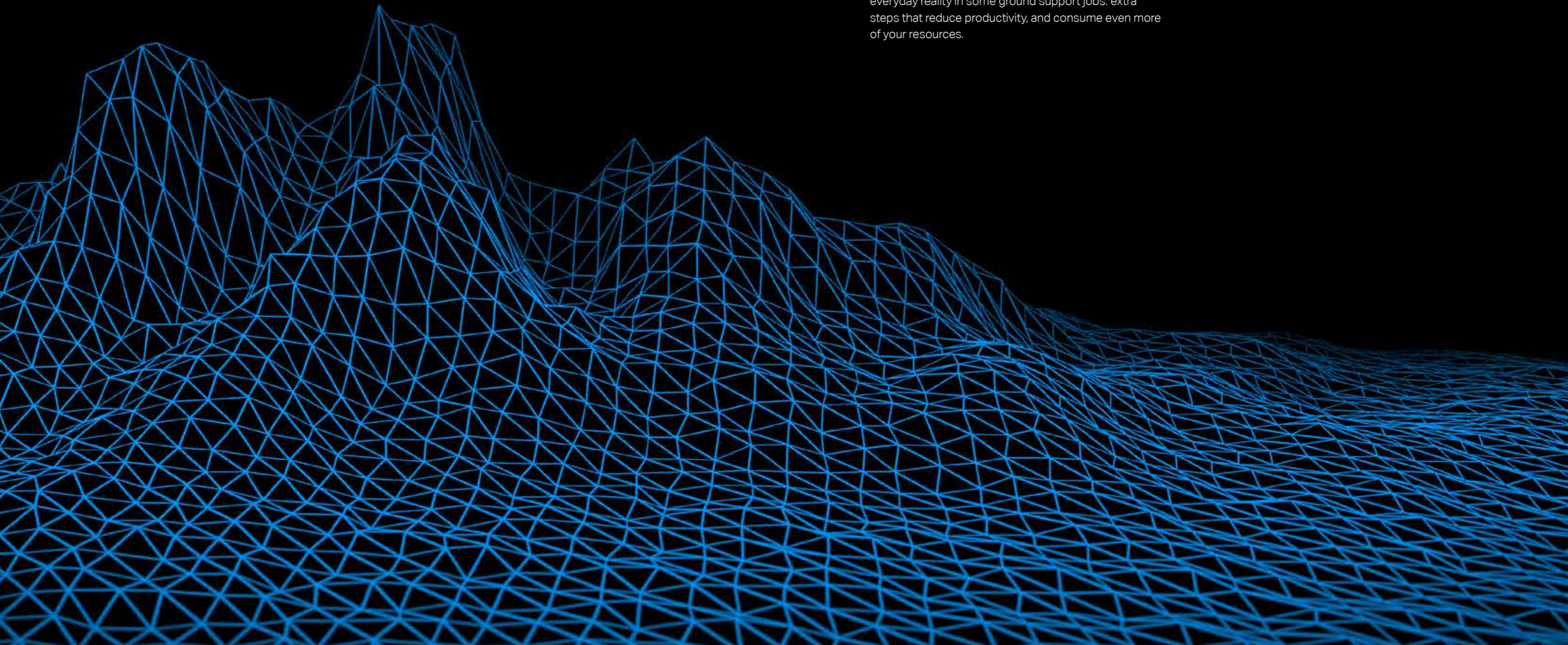
THE PRESSURE WAS OBVIOUS. THE SOLUTION WAS NOT

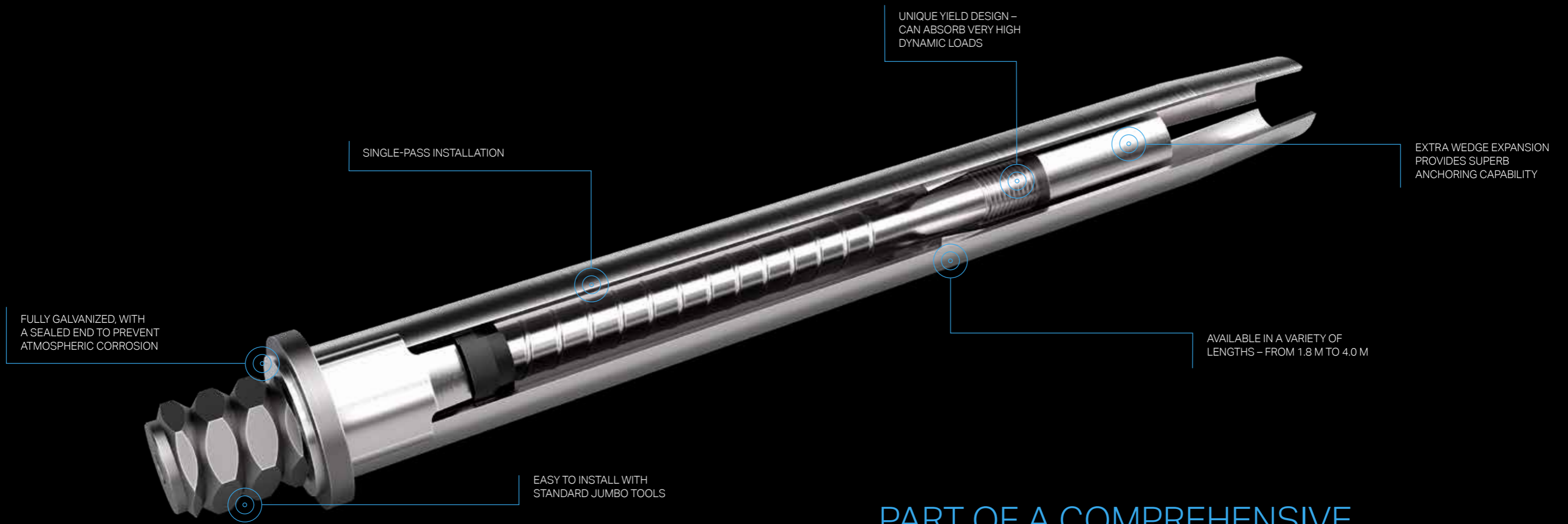
In underground mining, choosing the right ground support is critical. Without it, there's a constant risk of rock fall: effective ground support is an essential part of reducing the risk of injury to operators in the mine, as well as keeping the excavation going and the tunnels stable. And for good ground support, you need something that can rein in the weight of tons of rock and the power of seismic activity. In other words: something that can hold back the forces of nature.

Stopping the loss of rock mass is a complicated issue that is highly dependent on conditions in the rock, and in the mine. And as mines get deeper, and you tunnel into increasingly high-stress environments, these conditions become even more challenging. Operations are faced with "squeezing" ground and the effects it has on drives; not to mention seismic events that routinely disrupt work. These can have a significant impact on productivity, and working against them can take up a lot of extra time and resources. Multiple installation passes and time-consuming rehab work have become a part of everyday reality in some ground support jobs: extra steps that reduce productivity, and consume even more of your resources.

The right rock bolt can help. But choosing the right rock bolt can also be complicated. You need to consider how capable it is, what its expansion capacity is, how quickly it can be installed – and even whether or not it works with your current setup. Above all this, you need to be confident that it will do the job.

Introducing the MDX Bolt from Sandvik.





PART OF A COMPREHENSIVE GROUND SUPPORT SOLUTION

TURN COMPRESSION INTO CALM

Designed to meet the demands of ground support in places where seismic activity is an issue. And created for simple, effective and quick single-pass installation.

The Mechanical Dynamic Extra – or MDX – bolt has unparalleled extra expansion, and, as a result, superb anchoring capabilities. This is thanks to a unique wedge design that allows it to expand up to 60mm. While it provides great support in squeezing ground, the innovative way in which the shell, the wedges and the rebar interact also makes it perfect for use in seismic ground conditions. Its performance, and the speed and ease with which it can be installed, has already led to it being considered a benchmark-setting bolt for ground support across the board: proven to increase efficiency and reduce machinery downtime.

The MDX has been developed with a lot of features that operators might find familiar from its predecessor – the MD bolt, another hybrid bolt from Sandvik that has been used in Australian mines since 2010. It has kept all of the best features from the MD, like single-pass, immediate support. But it performs much better in problematic ground conditions, as well as areas that are prone to seismic activity.

Thanks to all of this, the MDX is a truly universal bolt, perfect for almost any ground conditions. It will change the way you work.

D39 MDX

Application

Dynamic support
Stoping, development, production areas
For deep mining and seismic conditions
Jumbo/rock bolter installation

Designed for better suitability with bolting-specific rigs, and suitable for the Canadian market

Benefits

Controls sudden, violent release of energy from surrounding rock
Withstands 26 kJ impact, with only 153 mm displacement
Speeds up development cycle

What this means for you

Safer work conditions
Increased productivity
Continuous mining

D47 MDX

Application

Dynamic support
Stoping, development, production areas
For deep mining & seismic conditions
Jumbo/rock bolter installation

Benefits

Controls sudden, violent release of energy from surrounding rock
Withstands 30 kJ impact, with only 153 mm displacement
Speeds up development cycle

What this means for you

Safer work conditions
Increased productivity
Continuous mining

D47 MD

Application

Static support
Stoping, development, production areas
Jumbo/rock bolter installation

Benefits

Control of gradual release of energy from surrounding rock: like swelling and squeezing
Quick installation time, single-pass, no resin or grout
Speeding up development cycle

What this means for you

Safer working conditions
Increased productivity
Continuous mining



MADE TO CHANGE THE WAY YOU WORK

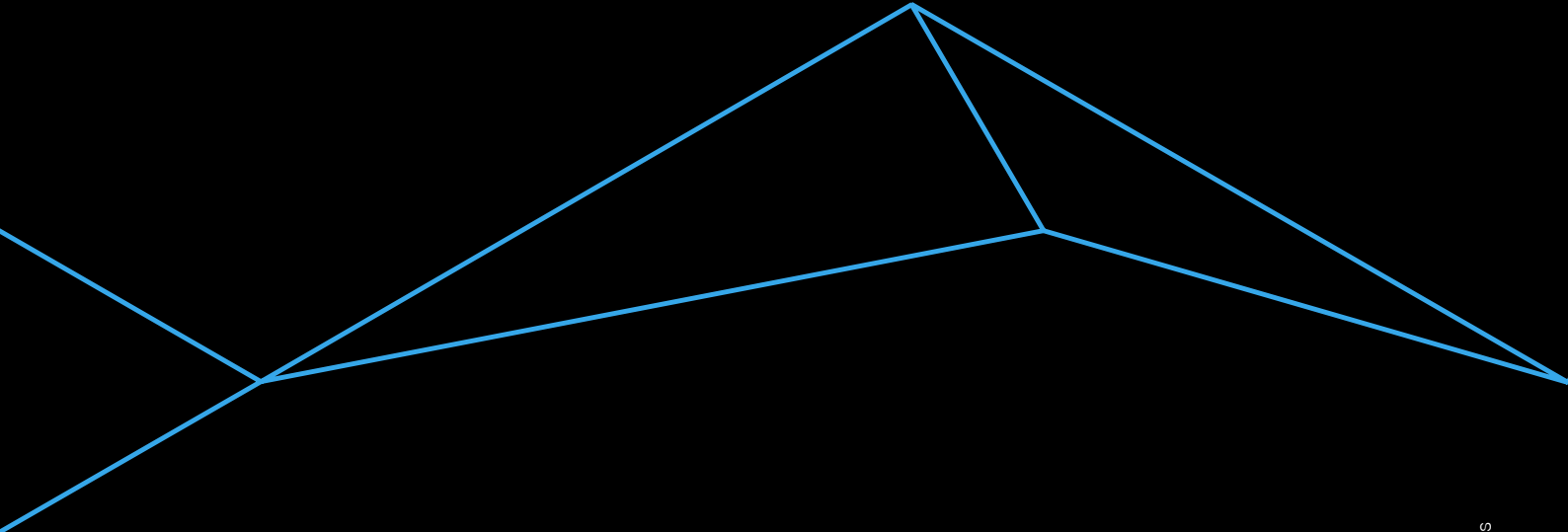
Making MDX bolts a part of your equipment leads to an immediately-noticeable difference in your workday. Using the MD or MDX single-pass bolting system, an average of 30–45 bolts can be installed per hour, rising to 60 when using an HLX5 drifter. When compared to resin or grouted bolts, the MDX is far quicker to install.

“Sandvik has now truly developed a world first, universal, heavy duty single pass bolt”

Jason Wasley, Mining Consultant

“Since changing over to the Sandvik range of bolting products we have increased our production efficiency and dramatically reduced machinery downtime”

Andreas Stiehl, Senior Production Engineer,
Kirkland Lake Gold



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