SANDVIK

Measure While Drilling Analytics: Rotary Geo

Capture real-time rock hardness data from iSeries drills.

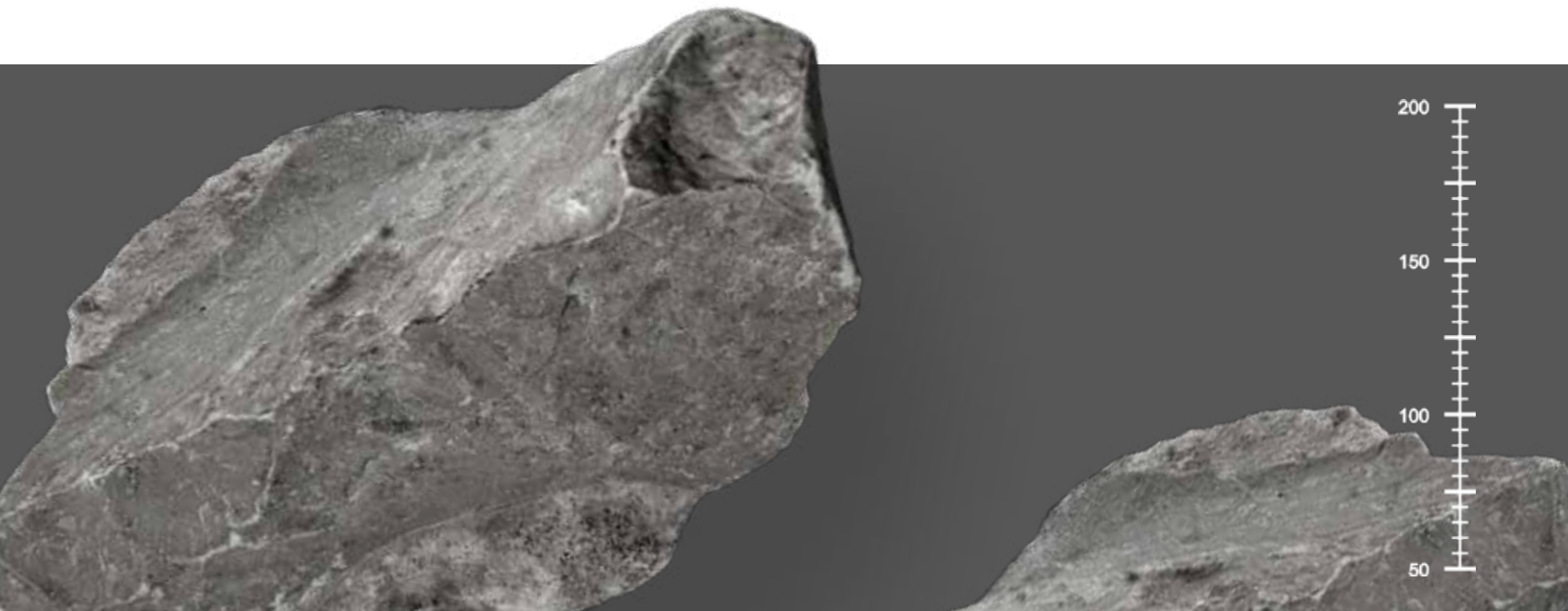
A blast pattern may look consistent, but the rock beneath it rarely is. When that variability goes unseen, it can show up later as inconsistent fragmentation, excess vibration, overbreak, and higher downstream costs.

As an iSeries drill works through each hole, Rotary Geo automatically detects changing rock hardness in real time. That data lays the foundation for AutoDrill, Sandvik's onboard automated control system, to adapt drilling automatically; a capability planned for a future release.

With Rotary Geo, every hole sharpens the picture of the ground beneath your pattern.

What changes with Rotary Geo

Without a hole-by-hole view	With Rotary Geo
▫ Broad assumptions about bench conditions	▫ Continuous drilling data from every hole
▫ A fixed drilling approach through changing ground	▫ AutoDrill will adapt as rock conditions change
▫ Blast decisions based on a partial picture	▫ A more detailed view for blast design and loading
▫ Variable fragmentation managed downstream	▫ Better opportunity to improve consistency upstream



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Protect drilling performance

Rock conditions do not only influence the blast. They also affect how the drill, bit, and consumables perform from hole to hole.

Rotary Geo continuously captures drilling-response data as the rig works the pattern, helping teams identify changing conditions and emerging wear-related trends earlier.

With better visibility, they can:

1. Investigate performance changes
2. Plan consumables more proactively
3. Reduce the risk of unexpected wear affecting hole quality, uptime, or pattern completion

Connect it to your workflows

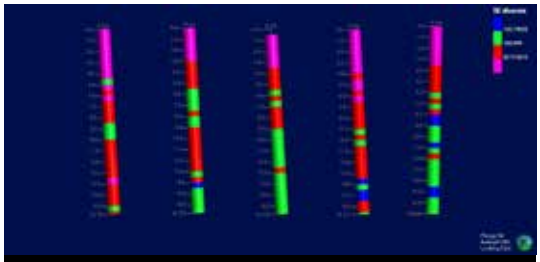
Through Sandvik's iLink Data Interface, measurement data moves automatically from the iSeries rig into the mine systems that use it, giving QA, compliance, mine planning, blasting, and haulage teams a real-time, hole-by-hole view of ground conditions. Unlike other solutions, iLink delivers this visibility as the data is captured. Every team reviews the same drilling results, aligns decisions, and responds faster when conditions differ from plan.

For mines that prefer to share Rotary Geo data via database rather than through iLink, an MSO database option is also available. MSO is sold separately from Rotary Geo and provides an alternative path to get the same hole-by-hole hardness data into your systems.

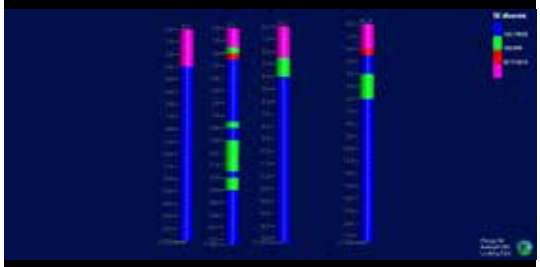
Available across the iSeries drills

Rotary Geo runs on the iSeries range of drills equipped with TIM3D drill navigation. Turn the drilling you already do into usable ground intelligence. Talk with a Sandvik representative to get started.

SurfaceMining@sandvik.com | mining.sandvik



This image presents the drilling data derived Specific Energy (SE) results from five rotary drill holes composited to 0.5 m intervals.



This image indicates consistently higher Specific Energy values. This indicates that substantially more energy was required to break the rock during drilling, suggesting significantly harder rock conditions.



This image combines both areas into a single view and clearly illustrates the contrast between the two identified hardness domains.

