

REAL-TIME DATA

TARGETED ROCK TYPE
DETECTED

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RHINO™

HIGH-DEFINITION OREBODY KNOWLEDGE FOR MAXIMUM ORE RECOVERY

RHINO™ is a drillstring-mounted geophysical sensor that provides Unconfined Compressive Strength (UCS) with fine spatial sampling while drilling and streams it in real-time to the cloud, enabling miners to reduce ore dilution and achieve better blasting outcomes.

orica.com/RHINO



RHINO™ can deliver sustainable improvements that:



Reduce operating costs



Improve productivity



Improve safety



Improve ore recovery

FEATURES AND BENEFITS

DIRECT MEASUREMENT OF ROCK PROPERTIES

RHINO™ provides direct measurements of drillstring accelerations which are processed to derive UCS of the rock and is agnostic to the type of drill and driller behaviour. This provides much more accurate geophysical data about the subsurface geology.

ACCESS AND VIEWING OF REAL-TIME DATA

RHINO™ measurement data is streamed in real-time to the cloud, where it is automatically processed into RHINO™ logs for customers to access anywhere. The availability of rapid real-time data provides key stakeholders with faster access to insights for informed faster operational decision-making.

IMPROVED GEOLOGICAL MODELS

Provides rock hardness knowledge in 3D using blasthole spacing and depth to create a spatial map. Allowing accurate detection of top and bottom coal for faster decision-making and higher coal recoveries.

OPERATIONAL RELIABILITY

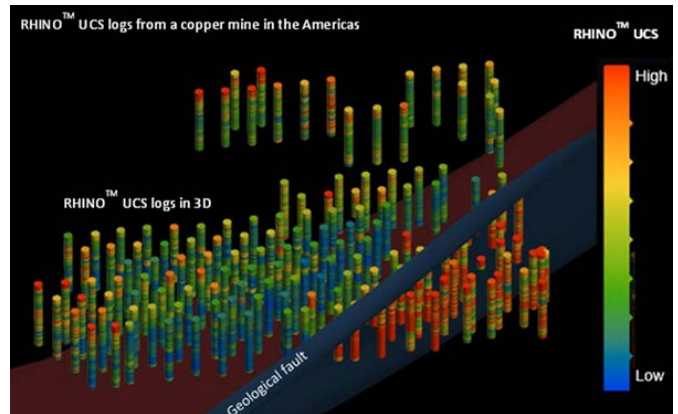
Two week battery life to maximise asset utilisation and easy field installation to minimise downtime. RHINO™ sensor provides measurements in soft and hard ground.

INTEGRATION WITH SHOTPLUS™

Processed RHINO™ logs can be seamlessly integrated with SHOTPlus™, providing orebody understanding for blast design optimisation by matching energy with rock hardness that ultimately delivers superior blasting outcomes.

WHO SHOULD USE RHINO™:

- Drill and blast engineers
- Geologists
- Blast operation managers
- Mining and quarry engineers
- Mining and quarry consultants



RHINO™ UCS logs from copper mine in the Americas

FRAGMENTATION -TO-SPECIFICATION

RHINO™ logs helps to match explosive energy to rock hardness and repeatedly deliver fragmentation to designed specification. Provides the ability to predict blast outcomes and optimisation of explosives loading to deliver engineered fragmentation from blasting, allowing building of mill feedstock to specification based on hardness and size distribution.

OPTIMISE MILL PERFORMANCE

RHINO™ helps with the prediction of key mill performance metrics, allowing to adjust mill operations based on rock hardness and fragmentation data for incoming blasted rock.

To learn more about RHINO™ and how it can support your operations today, please contact your local Orica representative, or visit [ora.com/rhino](https://www.ora.com/rhino)

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