

Reliable, accurate rock knowledge and improved driller user experience combined with state-of-the-art data analysis to manage drill and blast operations.

Thunderbird 1110 Drill Optimization System sets a new industry standard for blast hole drill guidance and monitoring. Paired with CR Digital's Orion Data Analysis, Thunderbird 1110 provides drill & blast managers unsurpassed insights on drilling performance through unique cloud-based data analytics. Thunderbird 1110 is available with StrataSense, the measure-while-drilling (MWD) capability that provides rock hardness information delivered in real-time to ensure more informed and efficient blasting.

STRATASENSE

Precision Data Collection and Real-time Reporting

- ✓ High resolution rock hardness down to 10cm intervals
- ✓ Precision Data Collection and Real-time Rock Knowledge
- ✓ 3D visualization of rock hardness data
- ✓ Enables optimized hole loading and better fragmentation

Advanced real-time drill monitoring and analysis

Intuitive Graphical User Interface driving drillers' engagement

Robust, rugged, sunlight readable User Interface

Accurate angle drilling with projection from toe

High-precision GPS drill navigation

Cloud-based daily reporting and Orion Data Analysis

Short Interval Control and Advanced Analytics

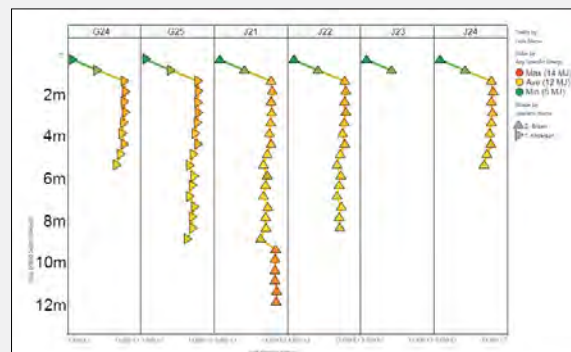
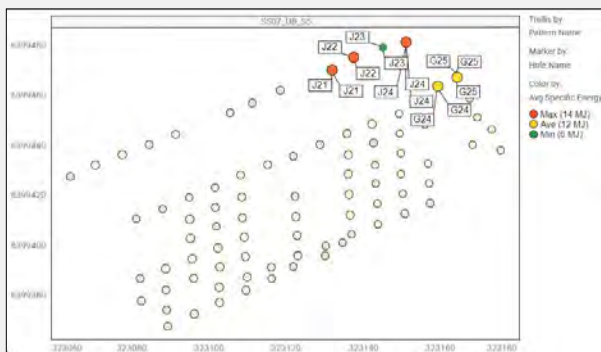
Reliable rock hardness knowledge

Orion Health – remote health monitoring assuring availability

CR's Analysis & Improvement data analyst services



STRATASENSE - drillhole data analysis, and rock hardness visualization



Global Support

Seattle | Dallas | Portland | Santiago | Brisbane | Perth

CR Digital's remote support team and field technicians can receive your enquiries around the clock.

Request support 24/7.

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OR VISIT **WWW.CRDIGITAL.COM**
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