AVATEL™
THE WORLD’S FIRST FULLY MECHANISED DEVELOPMENT CHARGING SYSTEM

PRODUCTIVITY
Designed in response to the underground hard rock sector’s need for a safe and productive method of maintaining access even amid challenging conditions.

SAFETY
Redefining safety at the face by eliminating exposure to charge crews, and unlocking value for operations burdened by costly, time-consuming risk mitigation practices.

INNOVATION
Combining the best technology Orica and Epiroc have on offer in explosives delivery, automation and digitisation.

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**AVATEL™ FEATURES AND BENEFITS**

Avatel™ eliminates the need of handling initiating systems or manually loading of blastholes. A single operator can complete the entire charging cycle from within the safety of an enclosed, roll-over protection structure (ROPS) and falling object protective structure (FOPS) cabin, several metres from the face.

**INNOVATIVE TECHNOLOGIES**

**HandiLoader™**
Premium ammonium nitrate emulsion storage and delivery system, precise and repeatable delivery of a wide range of energies into the blasthole.

**LOADPlus**
Orica’s Intelligent automation platform that enables onboard systems to function with minimal operator intervention.

**Epiroc**
Epiroc’s Rig Control System RCS5, enables intuitive, assisted navigation of the booms to locate and clear blastholes prior to loading.

**WebGen™**
Water-resistant bulk emulsion specifically formulated to allow precise energy control in development and tunnelling applications.

**SHOTPlus**
Enables automated hole loading and ensures repeatable execution of blast plans at the face.

**Epiroc**
WebGen™ magazine stores and autonomously assembles and transports WebGen™ primers to the booms for encoding immediately prior to loading into blastholes.

**CONTROL AND PRODUCTIVITY**

Automation, mechanisation and digitisation enable repeatable execution of blast designs irrespective of complexity, ultimately reducing overall mining costs through improved of blast outcomes.

Maximise advance rates through continued safe access even in challenging conditions (e.g. seismicity, heat), accelerating access to future mining fronts to secure long term revenue sources.

Eliminating redundant face support systems by removing personnel from the line of fire, giving productive time back to the development cycle.

Revolutionise the mining cycle by exploring previously impossible opportunities like, multi-round advance, drill pattern rationalisation or variable in-hole energy distribution.

Reducing downtime associated with excess steel in blasted material entering downstream ore handling systems.

To learn more about AVATEL™, please contact your local Orica representative, or visit orica.com/Avatel

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