PRODUCT DESCRIPTION

Increase the safety of personnel at the workface through the use of robotic arms to remove operators from dangerous working environments. iMining’s range of robotic arms uses state of the art positioning technologies and proportional control systems to identify drilled holes and position the hose injecting systems to load of individual blast holes. The use of hole identification algorithms allows the arm to automate the alignment process leading to reduced charging times and simplified arm operation.

The BLASTTRACK™ control system used to control the robotic arm is designed for integration with a range of safety and performance sensors for maximum safety in arm and pump operation. While operating the arm the BLASTTRACK™ control system is used to control, monitor and report on charging operations and operator performance allowing transparency across the charging fleet in real-time.

The use of the iMining BlastTRACK™ system in conjunction with BlastGRID™ allows for the precise placement of variable density explosives throughout the round allowing for precise energy placement in hard to break areas.

DESIGN FEATURES

- Transparency over charging fleet location & utilisation, product quality control, product consumption and individual operator performance
- Integration of Remote Loading Arm with BlastGRID™ and BlastTRACK™ allowing for precise energy placement in the blast
- Reduced complexity and down-time of charging unit

BENEFITS

- Increase operator safety in high risk mining environments
- Variable density loading for optimal energy distribution in the blast
- Reduced maintenance requirements & machine down-time due to “plug and play” systems
- Remote control of charging operations from up to 50 metres
- Increasing automation of charging operations through hole identification and loading algorithms