REAL-TIME TRANSPARENCY & CONTROL ACROSS LOADING OPERATIONS

PRODUCT DESCRIPTION

iMining is developing the future of mobile manufacturing units and is one step closer to automating the charging cycle in surface operations. iMining’s range of SMARTTRUCK™ systems is designed to carry up to 20 tons of emulsion or blend product in both standard and customizable pumping configurations designed to meet the specific needs of customers. Combining iMining’s BLASTTRACK™ pump control system with RTK GPS technology, operators are able to auto-load blastholes with variable density emulsion and record the precise placement of explosives per blast. Automated delivery notes can be delivered directly to the customer’s email, together with the charging reports for predetermined blasting sections.

The BLASTTRACK™ control system reduces the possibility of overcharging drilled holes, reducing operational risk and allowing for environmentally friendly blasting operations. The SMARTTRUCK™ is designed for integration with a range of safety and performance sensors including iMining SMARTDENSITY™ meter, for monitoring loaded density in real-time.

For optimal safety, product consistency and machine availability in loading operations, SMARTFLOW™ positive displacement pump technologies are recommended across compatible emulsion loading operations. SMARTFLOW™ pumps are designed as standalone explosive manufacturing units eliminating frictional heat build-up through reduced contact surface predetermined mixing ratios for emulsion, sensitizer and acid. iMining offers a range of Mobile Manufacturing Units for surface blasting operations.

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BENEFITS

- Transparency over charging fleet location & utilisation, product quality control, product consumption and operator performance
- Automated charging report and delivery notes
- Integrates with SMARTDENSITY™ that tracks the pumped densities.

DESIGN FEATURES

- Capture the exact location of drilled holes
- Carrying capacity of 10 to 20 tonnes
- Specific hole charging mass identification
- Can be controlled from a HMI Device within 50m range.
- Pumping rates up to 800kg/min