



# UNDERGROUND PUMPING UNIT

## UNDERGROUND PUMPING SYSTEMS FITTED WITH STATE-OF-THE-ART PUMP AND CONTROL SYSTEMS FOR COMPLETE TRANSPARENCY

### PRODUCT DESCRIPTION

iMining offers a range of underground emulsion charging units in standard and customizable configurations with carrying capacities from 1 ton to 5 tons. The Pump Unit is fitted to Underground Utility Vehicles and through the use of two SMARTFLOW™ emulsion pumps increases the speed and efficiency of pumping operations. Core technologies offered in the range of pumping systems include the BLASTTRACK™ control system with wireless HMI, together with the iMining SMARTDENSITY™ meter for density monitoring and reporting in every blast.

Through these technologies the iMining range of pumping systems monitors and flags real-time operator performance across the charging fleet in real-time. Prompting operators of poor pumping conditions and notifying managers through real-time performance dashboards and remote device notifications to managers mobile phones.



Through the implementation of SMARTFLOW™ pump technology, optimal safety, product consistency and machine availability can be improved throughout loading operations. SMARTFLOW™ pumps are designed as standalone explosive manufacturing systems that deliver selectable predetermined ratios of emulsion, sensitizer and hose lube during loading operations for improved consistency and reduced downtime.

### DESIGN FEATURES

- Advanced pump control and management systems
- Improved safety through SMARTFLOW™ positive displacement pump technology
- Higher productivity and efficiency percentages
- Transparency over charging fleet location & utilisation, product quality control, product consumption and individual operator performance
- Compact and efficient systems with reduced capital requirements

### BENEFITS

- Carrying capacity of 1 to 5 tonnes.
- Single and double pump systems loading systems for maximum utilisation and speed
- Reduced maintenance requirements & machine down-time
- Simple installation onto Utility Vehicles