



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 customisable configurations with carrying capacities from 1 ton to 5 tons. The UPU (Underground Pumping Unit) is designed to be fitted onto an Underground Utility Vehicle. By using two SMARTFLOW™ emulsion pumps, it results in faster and more efficient charging. Core technologies offered in the range of pumping systems include the BLASTTRACK™ charging unit control system with wireless HMI, as well as the iMining SMARTDENSITY™ quality management & SMARTFLOW™ emulsion pump technologies.

Through these technologies the NAME range of pumping systems flag and report operator performance across the charging fleet in real-time through cloud reporting and mobile device notifications. The BLASTTRACK™ pump control system is designed for integration with a vast range of safety and performance sensors and through the iMining SMARTDENSITY™ meter monitors on loaded product density in each blast.



Through the implementation of SMARTFLOW™ pump technology, optimal safety, product consistency and machine availability can be achieved 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