



TRANSPARENCY AND MANAGEMENT CONTROL IN CONFINED MINING OPERATIONS

PRODUCT DESCRIPTION

The SMARTCHARGER™ allows complete transparency over underground charging operations through electronic control of air driven emulsion pumps, sensitizing emulsion explosives for use in confined operating environments.

The system represents the forefront of pumpable emulsion technology allowing transparency and control over loading operations, explosives consumption and operator practices in difficult to access areas.

Compact and light weight, the SMARTCHARGER™ utilises positive displacement pump technology to improve the safety of pumping operations by eliminating heat build-up and limiting maximum operating pressure.

The emulsion tank is filled from 25kg portable emulsion bags and charge mass per hole is controlled electronically. Two emulsion tank configurations of 40kg and 80kg are available to suite individual blasting requirements.



DESIGN FEATURES

- Fitted with iMining's BLASTTRACK™ control system improving safety and operational transparency through operator ID, loading trends, flow rates, pressures and real-time failure analysis.
- Complete record of explosives consumption and loading activities
- Robust, light weight and modular design bring the benefits of electronic charging units to confined blasting operations
- Positive displacement pump technology improves the safety of emulsion pumping operations

BENEFITS

- Flexibility & transparency through electronic control capabilities
- Monitor blasting efficiency of individual crews
- Real time failure analysis to prevent bad blasts
- Pre-set mixing configurations for consistent pump performance
- Auto recording of loading mass per hole and blast face for inventory and logistics management
- Increased safety in explosives pumping operations