



## PRODUCTIVITY, LIVE MONITORING & REPORTING

### PRODUCT DESCRIPTION

The SMARTCHARGER™ loading system was designed to offer the advantages of emulsion explosives to confined & inaccessible mining operations. The pneumatic three component pumping system delivers emulsion, additive solution and hose lubrication to the delivery lance to sensitize bulk gassed formulations during the loading cycle.

Equipped with an electronic control & reporting system, the SMARTCHARGER™ can be adjusted to deliver a precise mass of explosives during loading operations. During loading the controllers monitors loading practices & pump safety conditions, providing feedback to operators during loading.

On completion of loading operations, loading reports are automatically streamed to selected supervisors through the online reporting system. Systematically reducing operator non-conformances in loading operations.

Emulsion and additives are supplied to the pumping system in disposable or re-useable containers and tank sizes can be configured to meet blasting requirements.



Max flow rate	30 kg/min
Additive A tank volume & mixing ratio (to spec.)	4L - 1.5%
Additive B tank volume & mixing ratio (to spec.)	4L - 2.0%
Feed air pressure	3 - 8 Bar
Dry weight	40 kg
Emulsion capacity	30 L
Maximum hose length	10 metres

Electronic safety system	High temperature
	High pressure
	Run Timer
Safety rupture disk	25 Bar (to spec.)
Battery Life (pump time)	360 min (10 ton)
Manual override	Included in design
Lubrication ring	Included in design

### DESIGN FEATURES

- Electronic BLASTTRACK™ micro control system to monitor pump safety conditions & set mass per hole
- High flow with double additive configuration for sensitizer & hose lubrication
- RF remote for activation of pump by operator
- Condition monitoring and real-time failure analysis
- Low friction positive displacement pump technology improves the safety of pumping operations
- Auto recording of loading mass per hole and blast face for inventory and logistics management Increase safety

### BENEFITS

- Daily reporting through BLASTTRACK™ micro electronic control system
- Real time failure analysis to prevent poor quality product
- Robust light weight design for hard to access operations
- Preset mixing configurations for consistent pump performance
- Operator identification & performance reporting with record of explosives use per operator
- Longer charging hose length with hose lubrication