



SMART SINK™

SHAFT
SINKING

iMINING
BLAST SMARTER

HIGH SPEED LOADING WITH FOUR DELIVERY LINES

PRODUCT DESCRIPTION

The iMining SMARTSINK™ pumping system is designed to increase the speed and reliability of shaft sinking operations through the deployment of four parallel SMARTFLOW™ UN Class 5.1 emulsion delivery lines at the same time.

The pumping system is available in a range of tank diameters and carrying capacities to suite the requirements of each sinking operation. Energy sources available for the system include air, electricity or hydro-power.

SMARTSINK™ pumping systems include the BLASTTRACK™ control system for remote oversight and monitoring. Pumping lines are controlled through remote RF coms to the BLASTTRACK™ controller allowing for easy operation of multiple delivery lines.

The SMARTSINK™ system has been designed with complete redundancy across parallel power, control and delivery systems. This allows for maximum machine availability in sinking operations allowing for loading to finish despite any breakdown on the system. Plug and play methodology is followed throughout the design of the system, allowing parts to be exchanged for maintenance within minutes allowing loading to continue.

The system is designed with a spectrum of sensors to monitor all aspects of pumping operations. This operator practices together with safety critical sensors, hydraulic supply and the charge mass per hole. This allows for the utmost in safety, product consistency and machine availability in UN Class 5.1 loading operations.



DESIGN FEATURES

- Gassed or MB sensitized bulk formulations
- Customizable POD diameter & capacity to suite individual shaft requirements
- Complete redundancy for maximum equipment availability
- 4 independent SMARTFLOW™ pumps & delivery lines
- Product flow rate < 240 kg/min
- 2 pneumatic power systems
- 2 BLASTTRACK™ control systems for oversight of loading operations
- Pre-set high & low emulsion density selection

BENEFITS

- High loading rate with four parallel delivery lines for reduced shaft cycle time
- Increased POD availability due to complete redundancy
- 'Plug and play' design for easy changeout in servicing
- RF remote per delivery line for easy operator control
- Compatible with UN class 5.1 gassed formulations
- Live reporting through real-time loading data
- Reporting on: pump safety performance, product quality, product usage, operator performance & utilization