

DynoMiner™ SuperHole

Technical
Information



General Description

The 5.3 tonne DynoMiner Superhole Mobile Processing Unit (MPU) is designed to provide a solid sensitised bulk explosive product direct to a 150m uphole in an underground mine - specifically to pre-condition the ore-body in a block-caving operation.

The truck consists of a Hino or Volvo 6x4 cab chassis with a nominal 4,260mm wheel base with segregated product tanks and pump systems mounted on the back.

The truck incorporates large product bins, designed to maximise the carrying capacity and thereby minimise turn around times.

Discharge rates are optimised for 150mm diameter bore bores.

Raw Materials carried in the tanks are as follows:

- TITAN® BPC Solid Sensitised Emulsion
- Water

Properties

Products and Densities

The DynoMiner SuperHole MPU is specifically designed to deliver Dyno Nobel's TITAN BPC water resistant solid sensitised pumpable bulk emulsion explosive.

Densities are optimally set at 1.0 g/cc but can be pre-blended from 0.8 to 1.2g/cc

Products are pumped into the uphole using a high pressure pump system designed to pump up to 150m.

Safety Systems

Low pressure, high pressure and high temperature detection are provided on the discharge of the product pump. On detection of low pressure, high pressure or high temperature during normal running, the pumps are stopped immediately and an indication light on the control panel warns the operator. All product run parameters are monitored by the control system.

An emergency stop is provided at the main panel in the cab and at the control station at the side of the MPU.

Engine bay automated fire deluge system is fitted as standard.

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Control Systems

A complete control system is provided that contains all safety shutdowns, flow rate controls and indicators.

It is supplemented by a backup panel in the cab of the truck.

Product kilograms per hole are recorded.



Vehicle History

The DynoMiner SuperHole MPU has been developed as a variant from the DynoMiner UpHole MPU. The current standard MPU has been established as a benchmark design within Dyno Nobel's global operations.

The units are directly supported under DNAP's SAP based maintenance planning, scheduling and controlling system.

The DynoMiner SuperHole MPU meets all licensing requirements.

System Advantages

- Ability to load up to 150m Upholes.
- Designed to load Dyno Nobel's TITAN BPC series of emulsion.
- Ability to load different densities from 0.8g/cc to 1.2g/cc

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