DynoMiner Shaft

General Description
The DynoMiner Shaft is an air powered system designed to load TITAN® 6100 gas sensitised bulk emulsion into shaft sink operations in an underground mine.

The unit consists of two complete air powered pump systems for emulsion, water and trace chemicals. The control system is all air powered.

The unit incorporates storage for boosters and detonators. The unit is designed to be lifted by an IT.

Raw Materials carried in the bins are as follows:
- TITAN 6100 Emulsion
- Water
- Gassing Chemicals

Properties

Products and Densities
A ranges of bulk fully water proof pumpable emulsion explosives densities are available from 0.8g/cc to 1.2g/cc

Products are pumped into the development heading using the air powered pump.

Safety Systems
The inherent safety of the air powered system means no additional safety devices are required.

Vehicle
The DynoMiner Shaft is transported to the word area with normal hoisting equipment.

Air Supply
The unit is connected to Mine Air.

Requirement is for at least 200CFM of dry air at 700kPa (100PSI) The unit is fitted with air filters.
DynoMiner Shaft

DYNO NOBEL
Asia Pacific Limited
282 Paringa Road, Gibson Island
Murarrie Qld 4172
Australia
Control Systems
A complete control system is provided and contains all flow rate controls and indicators.

All controls are air powered for simplicity.

Stop/Start control is available from a remote handset.

System Advantages
- Low capital cost
- Simple
- Ability to load different densities of TITAN 6100 emulsion controllably.
- Densities are available from 0.8g/cc to 1.2g/cc.
- Two-man operation.
- Two Pump operation
- Increased productivity

History
The DynoMiner Shaft has been developed over a number of years of product experience in both Australia and overseas. The current standard 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.