

# DynoMiner Shaft

Technical  
Information



## 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 work 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.

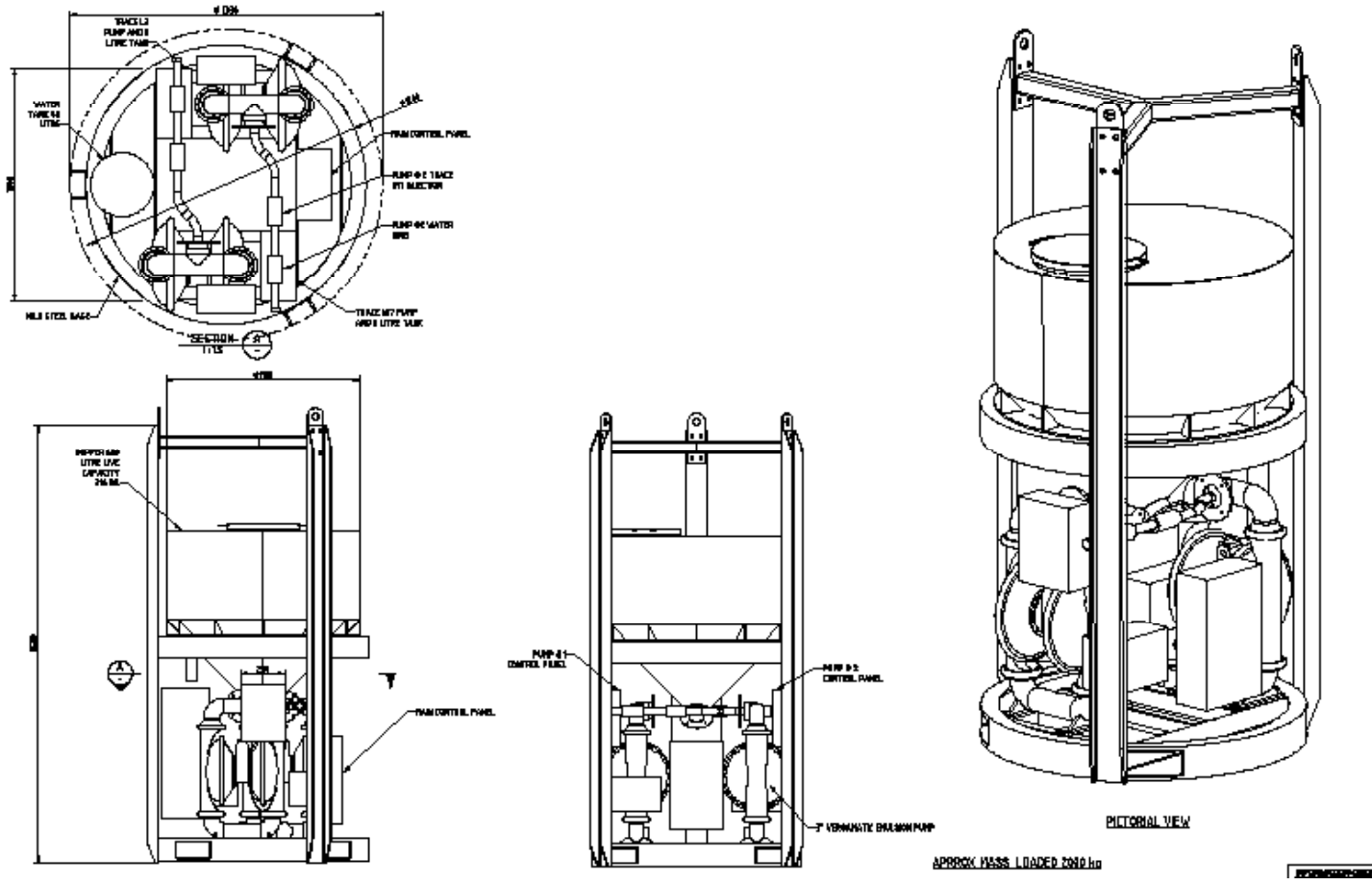
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## Control Systems

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.



## 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.

## System Advantages

- Low capital cost
- Simple
- Ability 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

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The information and suggestions contained in this document concern explosive products that should only be dealt with by persons having the appropriate technical skills, training and licence. The results obtained from the use of such products depend to a large degree on the conditions under which the products are stored, transported and used.

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VERSION NO.: 2.0  
Last Updated: 03/10

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