

EQUIPMENT (UNDERGROUND)



PRODUCT FEATURES

APPLICATION

BME's PCU is designed primarily for use in the confined narrow reef mining environment, but is compatible with BME's mechanised emulsion systems for confined blasting practices. In order to optimize the use of the PCU in confined environments the PCU can be operated by a single operator minimising labour requirements.

FEATURES

- Portable and light weight
- Intrinsically safe design
- Simple and fail-safe pump control mechanism
- Reduced charging time
- Low energy consumption
- Simplified logistics through UN 5.1 classification
- Low operating and maintenance costs
- Short lead time for manufacture

DESIGN SPECIFICATIONS

Remote pump activation

 Pre-set mass of explosive per hole
 820 g

 Emulsion flow rate
 20 kg/min

 Charging hose length – min
 2.5 m (1.5 + 1)

 Charging hose length – max
 5.5 m (1.5 + 4)

 PCU dimensions:
 - Length

 - Width
 700 mm

 420 mm

290 mm

< 0.4 Kw

< 36 L/min

< 3 L/min

Air/Hydropower

3.2 Bar (320 Kpa) 8.0 Bar (800 Kpa)

14 kg

HeightDry weightDrive systems

Power requirementsMinimum operating pressureMaximum operating pressure

Maximum operating pressure
 Compressed air requirements
 High pressure water requirement

Pre-set mass of explosive per blasthole

SPECIAL FEATURES

Supply of emulsion to the PCU is maintained through the use of BME's patented 'Closed Emulsion System'. The patented automatic valve system in the re-useable emulsion bag prevents spillage, contamination of emulsion and maximises the service interval of the PCU.

SAFETY FEATURES

- Intrinsically Safe Pump Technology
- Safe in instances of dry running
- Safe in instances of dead heading
- Bursting Disk Pressure
- Failsafe Control System

