

CRUISER CHARGING UNIT (CCU) HP 1700

PRODUCT DESCRIPTION

BME's Cruiser Charging Unit (CCU) is one of a range of compact charging systems available for use with BME's INNOVEX™ range of emulsion formulations. The Model 2 CCU is fitted with BME's new Mobile Pump Model 2 and Intelligent Control and Recording (ICR) System with recording and reporting functionality. This represents not only the forefront in mechanised emulsion technology, but significantly improves the safety of underground emulsion pump technology.

The positive displacement Mobile Pump on the CCU delivers both a double salt emulsion and sensitising solution mixed in the charging lance before entering the blast hole.

Though CCUs are limited in emulsion carrying capacity to 700 kg, they possess distinct advantages over traditional mechanised charging units in both mobility and daily operating expenses. This reduction in capital requirements and maintenance costs is made possible through the greatly improved efficiency of the new Mobile Pump over outdated progressive cavity pump technology. In order to allow for ease of use in high operating areas, a hydraulic lifting platform can also be installed on the vehicle.

PRODUCT FEATURES

APPLICATION

The CCU was initially developed for use in underground development blasting where it was designed to pump at equivalent rates to traditional emulsion technology. The CCU has also found acceptance in small scale surface operations.

FEATURES

- Low capital outlay
- Low operating and maintenance costs on vehicle
- Low maintenance cost on charging unit
- Intrinsically safe pump operation in instances of:
 - Dry running
 - Dead heading
- Short lead time for manufacture
- ICR – Intelligent Control and Reporting

VEHICLE MODIFICATIONS

- Suspension upgrade (heavy duty)
- Front and rear impact protection
- Tow bar (drop pin)
- Fire suppression system
- Fire extinguisher (dry powder)
- Stop blocks
- Modified light configuration

UNDERGROUND VEHICLE MODIFICATIONS

- Emergency brake system (Zips-SABS)
 - Rear hydraulic discs (Fail-safe)
- Emissions catalytic purifier
- Emissions fume diluter
- Raised working platform
- Underground light configuration
- Gear lockout selection
 - Low range 4 x 4
 - Gears 1-2 and reverse

DESIGN FEATURES

- Emulsion tank capacity 700 kg
- Sensitiser tank capacity 30 L
- Water tank capacity 50 L
- Pumping rate 45 kg/min
- Max hose length 15 m (¾" HDPE)
- Compatible emulsions INNOVEX™ UG Emulsions
- Pre-set mass of emulsion/hole