

# HD500 Pump Unit

## Zone 2 C18-715BHP

INTENDED FOR HIGH PRESSURE AND GENERAL PUMPING APPLICATIONS, THIS AXON SKID MOUNTED PUMPING UNIT IS SUITABLE FOR USE IN A ZONE 2 / GROUP 3 HAZARDOUS AREA ENVIRONMENT (ATEX COMPLIANT). MOREOVER, THE DUAL CERTIFIED OPEN FRAME DESIGN FOR IDEAL FOR USE IN AMBIENT TEMPERATURES UP TO +45°C.



### SPECIFICATIONS

#### Mass / Dimensions

- Maximum Gross: 15,000Kg
  - Actual Unit Weight: 14,890Kg
  - Frame Tare Weight: 3,000Kg
- Dimensions (LxWxH):
- Length: 6,058mm
  - Width: 2,438mm
  - Height: 2,591mm

#### Temperature

- Design Temperature (Frame)
- Minimum: -20°C
- Operating Temperature
- Minimum: -10°C
  - Maximum: +45°C

#### Standards / Certification

- CE Marked
- Machinery Directive 98/37/EC
- ATEX 94/9/EC (Group II 3G IIA T3)
- PED 97/23/EC
- DNV 2.7-1 & BS 12079-1
- IMO - CSC - 1972

#### Safety / Environmental

- Bunded base to contain any leaks or spills c/w drain points
- Designed & manufactured in accordance with current EC safety legislation

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## FEATURES / BENEFITS

### Power Train / Components

- Caterpillar C18 DITA SCAC diesel engine, intermittent 'C' rating 715BHP @ 2100 RPM
- Allison S6620M transmission c/w PTO's installed for HD500 lube pump drive & HD500 charge pump drive
- Engine c/w Pyroban Flame Protection Kit & AXON electronic safety shutdown and gas detection system designed to give automatic shutdown in the event of:
  - Engine over-speed (2300RPM)
  - High exhaust gas temperature (+200°C)
  - High coolant temperature (+98°C)
  - Low oil pressure (1Bar)
  - Detection of hydrocarbon gas in inlet tract (20% LEL)

### Fuel Tank

- Stainless Steel fuel tank with capacity to allow 8 hours running
- Complete with sight level glass showing maximum and minimum levels, filler breather cap & access hatch for cleaning purposes
- Tank also marked with 250 Litre max transport level and Class 9 dangerous goods classification labelling

### Triplex Pump

- AXON HD 500 triplex high performance pump with 4" plungers allowing for a maximum flow rate of 7.4bbls/min & maximum pressure of 15,000psi
- Pump mounted on a separate sub base within the main lifting frame to allow installation and removal by forklift from the side of the frame
- Discharge connection 1 x 3" Fig 1502 Female & 1 x 2" Fig 1502 Female connections (PRV installed on the 2")

### Charge Pump

- Mud Hog 5"x 4"x 14" centrifugal Pump c/w 10.75" impeller allowing for a maximum flow rate of 26bbls/min & max discharge pressure of 80psi
- Suction connections 2 x 4" Fig 206 Female & discharge direct to pump suction manifold & 1 x 4" Fig 206 Female auxiliary connection

### Control / System Status

- An engraved stainless steel control panel accommodates all engine controls and indicators giving visual display of pressures, temperatures, speed, rates, etc.
- A separate electrical Exd enclosure gives visual display as to the status of the AXON electronic safety shutdown system installed