



Asset no. PP5

Manufacturer	
Size: -	
Length	2.5m
Width	1.50m
Height	1.50m
Weight	1 Tonnes
Power Pack Type	Electric/Hydraulic
Hydraulic Oil	Tellus 37 or Equivalent
Hydraulic Oil Capacity	900 Ltr
Main Pump	
Auxiliary Pump (Tandem with Main Pump)	
Boost Pump	2 off
Main Relief Valve Setting	bar
Auxiliary System Pressure	bar
Boost System Pressure	bar
Cooler Capacity	Bowman Water Cooler
Electrical Supply	415V, 3 Ph, 50 Hz



1.1 GENERAL DESCRIPTION

The hydraulic unit is a source of supply and control of pressurised hydraulic oil designed to be used to drive hydraulic motors which in turn drive rollers upon which sits a cable drum.

The controls and components are duplicated allowing two Under Roll Stands to be operated at the same time but independent of each other. In this case the only effect would be a reduction in rotational speed due to the output from the main pump being divided between the two, the ratio being dependent upon the operational conditions.

The controls enable the drum to be driven clockwise or anti-clockwise thus either winding on, or letting out, cable.

The hydraulic pumps on the unit are driven by electric motors and therefore need an independent electrical supply.

The oil in the system is cooled by a water / oil heat exchanger and a supply of water is required, also a route for the discharge of this water. In cold temperatures and for short periods of use this may not be necessary as the hydraulic tank is of sufficient size, but the oil temperature should be continually monitored and the operation stopped if this rises above the normal.

The hydraulic tank is positioned across the mid length of the base frame with the console overhanging the frame to one side. The position for operating the controls is therefore outside the base frame and adjacent to the boost pumps and cooler which are sited to one end of the frame. The main pump and motor starter panel are mounted at the other end of the frame on the opposite side of the hydraulic tank. The hydraulic supply / return and drain connections for the equipment being operated from the unit are below and on the tank to the opposite side of the console.

Four eye bolts are provide on the base frame for lifting purposes, two outboard of the main pump and two between the boost pumps and hydraulic tank.

'I' beams at either end of the base frame raise the unit off the deck and provide a means of securing the unit without damaging the frame. They also allow for a fork truck to be used to move the unit around the work area but care must be taken of tank fittings and of the pipework below it.

