

1.2 PERFORMANCE SPECIFICATION

1.2.1 DOUBLE BARRELLED CAPSTAN

The double barrelled capstan unit is designed to 'pay-out' and 'haul-in' cable or wire ranging from 4mm to 30mm diameter, having a minimum bend radius of 250mm (9.843") or less.

With four wraps of cable around the capstans and the top capstan assembly slewed at the correct angle - to prevent the cable 'bunching' when the capstans rotate - the unit will achieve the following performance:

	LINE SPEED	LINE PULL
CREEP	30 FPM (0.152 M/S)	7000 lbs (3175Kg)
CREEP	200 FPM (1 M/ S)	2000 lbs (907Kg)

Hydraulic power available from power pack to drive the hydraulic motors is:

37 US GPM (140 L/ Min) at 3046 PSI (210 BAR)

1.2.2 TAKE UP REELER

The take-up reel frame assembly is designed to pay off or spool on cable onto wooden storage reels under a constant tension.

Cable reels up to a maximum size of 48" (1219mm) dia. and 36" (915mm) wide may be used.

All components are hydraulically actuated with power being derived from the 55kW electro / hydraulic power pack supplied as part of this contract.

Hydraulic power available is:

8.7 US GPM (33L/ Min) at 1480 PSI (102 BAR)

This unit may, if required, be used independently from the double barrelled capstan unit.

1.2.3 HPU

The power pack has a 55kW electric motor driving tandem pumps; one supplying power to drive the capstans, the other powering the equipment on the take up reel frame assembly.

Output for driving capstans is: 37 US GPM at 3046 PSI (Max)

Output for take-up reel unit is: 8.7 US GPM at 1480 PSI (Max)

Power and control for the capstan motors speed and direction is also derived from this unit, with the associated proportional valve located in a convenient position with manual override facility.