

Neumann Equipment Projects

Project: Energy Resources Australia Positioning Winches

ERA contacted Neumann Equipment to design and manufacture four self-contained winch units required to position a barge on a pond. The four winches were fitted with drag manifolds which ensure tension is maintained on the winches as two are hauling out when positioning the barge on the pond. Each winch was placed at diagonally opposite corners of the pond allowing two axis location of the unpowered barge.

These winches were fitted with level wind systems to ensure that the dyneema rope spooled onto the drum well at all times. Using distance and tension monitoring the operator is able to constantly ensure that the line tension is within the rated capacity and determine how far to move the barge.

All sheaves and rollers are manufactured from high-quality engineering plastics that reduce the wear on the dyneema rope. These ensure that expensive ropes are maintained in good condition.

The self-contained diesel-hydraulic power unit uses a load sensing pump and wireless pendant with integrated proportional hydraulic control to allow inching movements as well as up to 44 m/min line speed.

Parameter	Low Speed Operation	High Speed Operation
Line Speed	0 - 23 m/min.	0 - 44 m/min.
Max. RPM	10.5	20.0
Max System Flow	59 L/min.	
Engine Speed	3600 RPM	
Input Power	26 kW Engine	
Rated Line Pull	2 Tonnes	
Rope Type	14mm Dyneema Rope ONLY	
Drum Core Diameter	406mm Grooved Drum to suit 14mm Dyneema	
Drum Width	1000mm	
Cheekplate Diameter	750mm	
Drum Capacity	1000 metres of 14mm Dyneema Rope	



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