



ELECTRIC Nn-SHUTTLE WINCH

MODEL NO. W1593 - LIGHT DUTY – SHEAVE TYPE SPOOL



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The winch drive is from a combined helical/bevel gearbox which has an electric motor and brake unit attached. The motor is a 2.2kw unit, and a failsafe disc brake unit is incorporated on the rear of the motor.

The output shaft of the gearbox is coupled direct to the winch drum and the outboard side of the drum is supported in a sealed ball bearing unit mounted in the winch base frame. The fabricated steel/aluminium drum has a Lebus grooved barrel to suit 8.2mm dia. cable.

Positioned in front of the winch drum is an automatic sheave type spooling gear and, when used in conjunction with the Lebus grooved drum, it ensures even multi-layering spooling for the 300 metres of 8.2mm dia. electric strain cable.

Drum dimensions:	470mm. PCD 1st layer 600mm. Flange diameter 390mm. Between flanges	Capacity:	300 metres of 8.2mm. dia. cable in 5 evenly spooled layers
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The spooling gear is driven by a chain drive direct from the drum stub shaft and mounted on the outboard side of the drum is a slip ring assembly, fully enclosed in a watertight enclosure. The spooling sheave would incorporate a line tension indicator and length and speed encoder.

A direct on line starter panel is supplied separate from the winch to allow suitable mounting on a bulkhead remotely located from the winch.

Fitted to the starter is a 4 core power cable size 1.5mm² for connecting to the winch motor on installation. This cable is a standard 20 metres in length. Also fitted to the starter is a hand held control unit on a 5 metre lead, the connection to the starter is via a multi pin plug and socket.

Electric supply required to the starter would be determined by the client.

A junction box is fitted to the side of the winch and accommodates the connections from the slip ring and instrument display unit. The slip ring outlet is via a male connector LMPBH-8-MP suitable for the deck cable. The display outlet is via a 10 way panel socket 18-1S.

All the winch equipment is mounted on a rigid aluminium fabricated base frame, with all chain drives etc. suitable guarded. The unit is prepared and painted to suit a marine environment using a standard procedure which is used for all survey vessel units.

The winch performance:	Line speeds: 25 metres/min. on 1 st layer 29 metres/min. on top layer
Line loads:	345 Kgs. maximum on 1 st layer 300 Kgs. maximum on top layer
Overall Dimensions:	1 x 0.9 x 0.95 metres (length x breadth x height)
Approximate Weight:	500 kg excluding cable

