

Uni-Winch CEW500

Compact Single-Phase Electric Winch

1. Introduction

The CEW500 is a compact Single-Phase Electric Winch with a small footprint that saves deck space and hence is ideal for smaller research or survey vessels. It is designed for a wide variety of oceanographic equipment including towed side-scan and magnetometer systems, Sub Bottom profiler systems, drop down camera system, water samplers, CTDs, and various sizes towed systems.

Constructed of a high-quality material with multi-coat marine grade finish, it is designed to withstand extreme offshore conditions. Incorporated with a chain driven diamond screw level wind mechanism, for precise cable winding, it also has precision Variable Frequency Drive with local & remote pendant control which are IP66, including emergency stop and failsafe brake. The winch comes with a 12-month warranty.



2. Features

- > Variable Speed Control
- > Automatic Failsafe Brake
- > Local & Remote control of operation
- > Compact design and footprint
- > Tower lamp with audible indication
- > Camera for monitoring
- > Low maintenance & reliable operation

3. Applications

- > Towed Side Scan & Magnetometer systems
- > Sub-Bottom Profilers
- > Water Samplers
- > CTD systems
- > Drop-down camera systems

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3. Specifications

Winch Information

- › **Supply:** 230V AC, 1Ø, 50/60 Hz
- › **Motor:** 2.2 kW (with fail-safe brake unit)
- › **Slip ring:** Drum barrel type (customer - specific wiring)
- › **Handling:** Guided Lifting straps along with the frame
- › **Mounting:** Set of sacrificial steel feet

Drum Specifications

- › **Flange Diameter:** 720mm
- › **Core Diameter:** 360mm
- › **Length:** 405mm
- › **Weight:** 650 Kg (with cable)

Overall Dimensions

- › **Nominal Length:** 1485mm
- › **Nominal Width:** 1020mm
- › **Nominal Height:** 1111mm

Cable Specifications

- › **Cable Type:** Rochester A320327
- › **Cable Diameter:** 8.18mm Coax
- › **Working Load:** 17.1 kN
- › **Storage Capacity:** 650m Max

Construction

- › **Material & Coating:** SS316L / MS with marine grade finish (Customer specified)

Winch Performance

- › **Line Speed:** 35m/min (at mid-drum)
- › **Rated Line Pull**
 - › **At Core:** 240 kg
 - › **At Drum Top:** 200 Kg
- › **Brake hold capacity:** 34.2 kN
- › **Level wind mechanism:** Chain Drive Diamond Screw type socket
- › **Winch Drum locking:** Manual Lock on drum

