

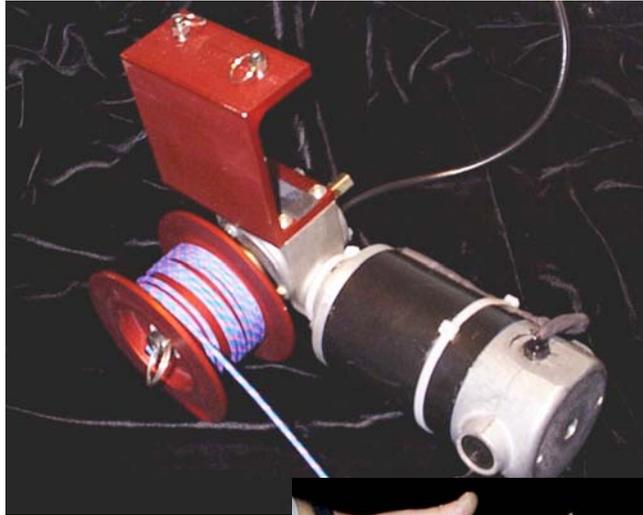
Challenger Windlass System

Self-contained, portable, power-assisted sail sheeting system

Challenger Windlass

(Prototype) is a self-contained, portable power winch system for the Challenger Tri-maran.

Weatherproof system components can be quickly mounted on any Challenger Trimaran, and are intended for outdoor use in marine environment. The Windlass and Battery Module are removed and stored when not in use. The Windlass is controlled via a large toggle switch on the Relay Control Module.



- ❑ **Challenger Windlass** is based on a powerful, weatherproofed right-angle gearmotor. When the Windlass is in use, the Challenger main sheet can be rigged 1:1, with a maximum sheet tension of over 60 kgs!

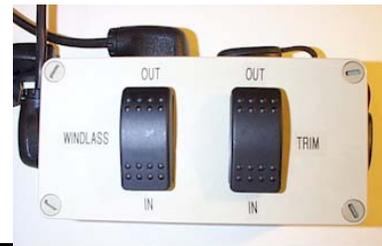
The Windlass Module has a simple "C"-shaped mounting bracket that will suspend the Windlass under the forward end of the Challenger main boom section. It can be mounted (and removed) in seconds, via three quick-release spring-loaded pins.

The Windlass has a 70mm winch drum that will easily accommodate 3 – 4 meters of 2mm Spectra line, and sheet at about 300mm per second. (NOTE: a larger diameter drum can be fitted to increase the sheet speed, with no loss of power)

Dimensions: 280mm (L) x 175mm (W) x 125mm (H)
Weight: 4.5 kgs (10 lbs)



- ❑ **Relay Control Module** may be located convenient to the sailor's hand. The large (25mm x 50mm), waterproof "toggle switch" provides sensitive control of the Windlass. The Relay Control Module is a NEMA 4 housing, intended for salt-water environments.



- ❑ **8.0 AH Battery Module** houses a high-technology Pure Lead-Tin battery that delivers high-current bursts for the Windlass, providing 4 - 6 hours sailing time before re-charging. The battery Module is waterproof and can be located anywhere in the Challenger cockpit. When not in use, a compact CE battery charger keeps the battery ready for your next sailing session

Dimensions: 170mm (L) x 170mm (W) x 110mm (H)
Weight: 4 kgs (9 lbs)

