

1.3. Equipment Description

1.3.1 Capabilities and limitations.

The DT Marine model 3050EHLWR is a self-contained, electro-hydraulic, variable speed, cable-handling system specially designed for the marine environment.

1.3.2 Specifications and descriptive data.

Overall dimensions	Width	- 82 inches
	Depth	- 68 inches (Includes level wind)
	Height	- 70 inches (Includes level wind)
Drum dimensions	Flange diameter	- 56 inches
	Drum diameter	- 28 inches
	Drum width	- 36 inches
Cable capacity	3,000M of 0.68" diameter cable(leaves 2" Clear flange).	
Construction	All welded steel with stainless steel hardware	
Finish	Sandblasted to near white metal and coated with three-coat epoxy system consisting of Zinc primer, one tiecoat and topped with Polyurethane paint.	
Bearings	Sealed, self-aligning ball bearing type.	
Drive system	50HP, 480VAC, 3 phase, 650HZ, totally enclosed, fan cooled electric motor driving a hydraulic pump that in turn drives a hydraulic motor connected in open loop configuration. The hydraulic motor is coupled to the drum through a planetary gear reducer that is attached directly to the winch drum. A multiple disc, fail-safe brake is incorporated into the final drive and is located between the hydraulic motor and the gear reducer. The hydraulic reservoir which is supplied with sight level gauge and drain plug contained in the base of the winch so except for having to be supplied with outside electric power the unit is self-contained.	
Controls	A self-centering, single lever, 4-way control valve, with metering spool, which affords variable speed in both	

directions, is located on a sloping panel on the drive component housing. A system pressure gauge for monitoring performance is also mounted on this panel. A power control switch is located directly below the sloping panel and provides control for a full voltage across the line motor starter housed in a NEMA 4X enclosure and is located inside the drive system housing.

Braking system

A Fail-safe multiple disc brake is incorporated into the final drive and is actuated at the center position of the control handle or in the event of hydraulic pressure 3 inch stainless steel band brake is also located on the winch drum for an added measure of safety.

Performance

Bare drum rating of 6,000 lbs line pull at a line speed of 0-200 fpm

Handling

Lifting eyes provided at four points.

Options

See Section 2.3