



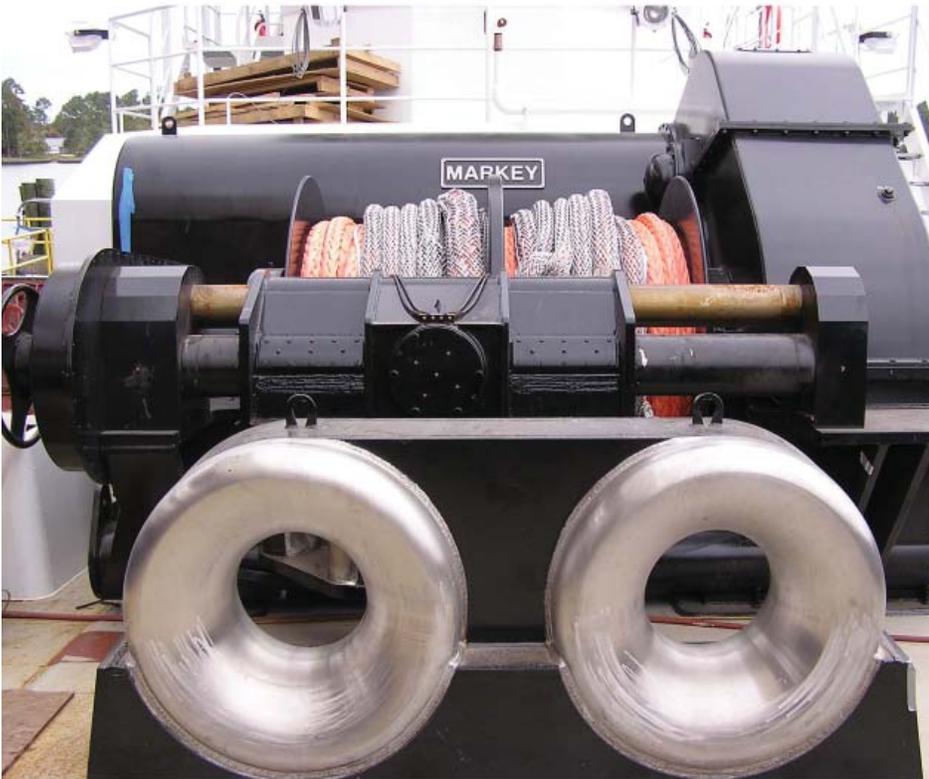
# DESDF-48-200HP

## Electric Class III Hawser Winch

The DESDF-48-200HP is a high-performance, three-speed 200HP divided-drum electric hawser winch with automatic Render/Recover capabilities, adjustable tension and line scope (length) set-points, and a dynamic high-speed water-cooled slip-brake. Constant tension control permits full hands-free operation, with active line-tension monitoring during all winch activities.

### Winch System Specifications

◆ Drum Capacity:	Divided drum, each with 700 feet / 213 meters of 9.0" circumference / 72 mm diameter synthetic line.
◆ Performance:	446,000 lbs / 1980 kN max continuous / 860 ft/min / 260 m/min max line-speed.
◆ Max Freewheel Speed:	1000+ ft/min / 300+ m/min
◆ Electric Motor & Drive:	200 HP AC-variable frequency drive with three-speed transmission.
◆ Winch Braking:	Water-cooled multi-disc brake with holding capacity to 678,000 lbs / 3000 kN
◆ Winch Control:	Wheelhouse controls with emergency stop and freewheel pushbuttons. Line tension display available at all times whether operating the brake or the electric drive.
◆ Power Requirements:	460 VAC 3 Phase, 60Hz. Other source voltage options available.
◆ Weight:	80,000 lbs / 36000 kg



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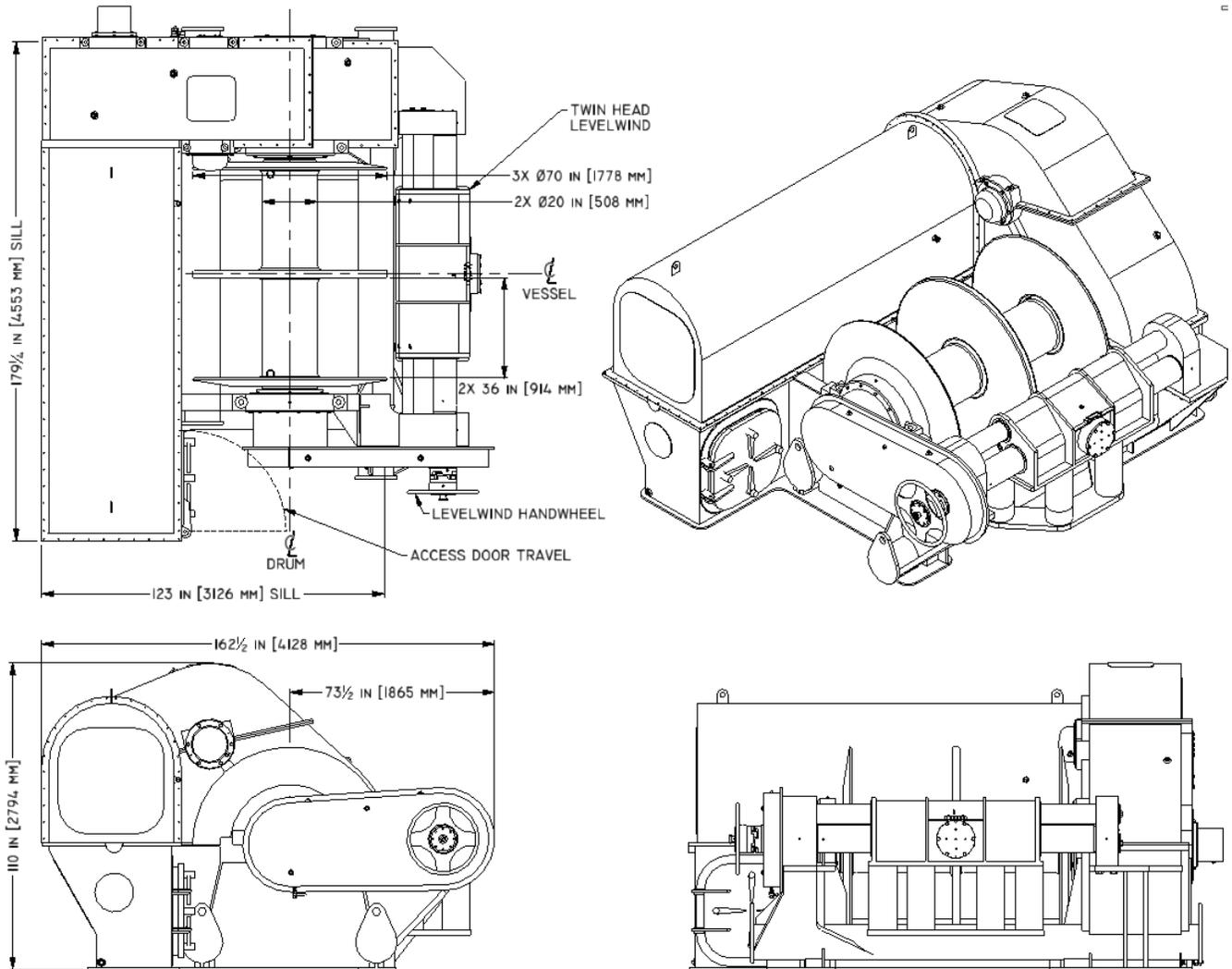
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# Markey DESDF-48-200HP



Markey's Class III hawser winches feature a unique and proprietary "Render/Recover" control system, which automatically maintains a manually set line tension. The line tension can be set from a practical minimum of about 5 tons to the tugboat's maximum operational value, including "indirect" loads above bollard pull. It allows the tugmaster to focus on tug maneuvering. These winches can also absorb the effect of wave induced tug motions and allow effective operation in more difficult sea states. Since their introduction in 2002 the Markey Class III electric (low noise) hawser winches have proven themselves to be without equal in allowing the use of the full capability of modern Z-drive and Voith-Schneider propulsion tugs.

## Hawser Winch System Options

- ◆ R/R autoshift set up standard, ARR set up optional
- ◆ Digital/Analog Line Tension Display System
- ◆ Multiple Station Controls
- ◆ Performance ratings can be tailored to suit specific applications
- ◆ Single Drum and larger capacity drum options are available

Markey's rugged winches are built to the highest quality workboat standards using materials and processes providing maximum life and minimum maintenance in marine and outdoor applications.

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