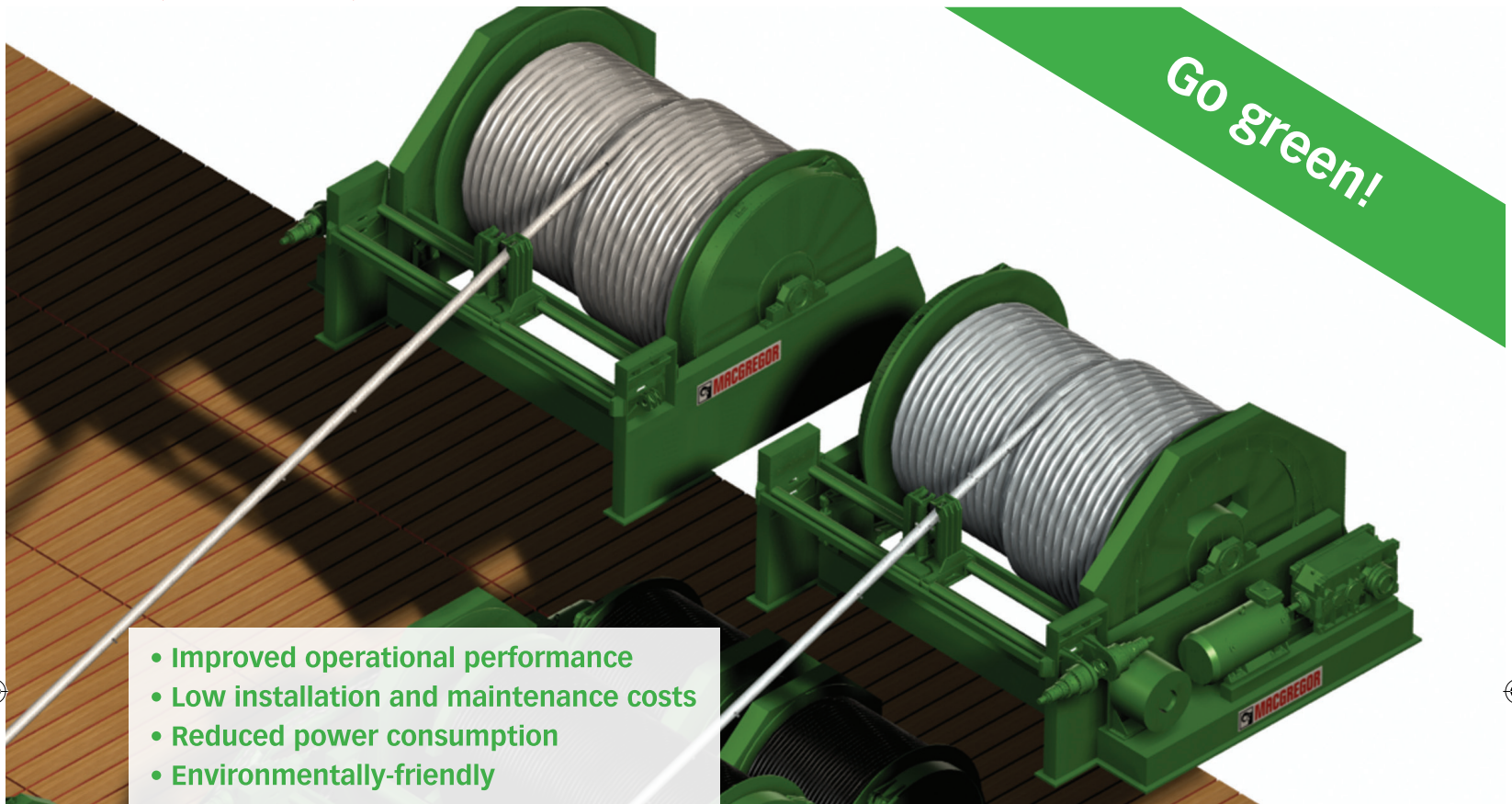




# Electric Secondary Winch (eSCW) series



- Improved operational performance
- Low installation and maintenance costs
- Reduced power consumption
- Environmentally-friendly

Models in the **MacGregor series of electric secondary winches (eSCW)** are designed in accordance with the most stringent offshore standards, such as those set by the Norwegian Maritime Directorate (NMD). They inherit the proven characteristics of the previous generation of MacGregor anchor-handling/ towing winch solutions, which ensure safe operation and ease of maintenance. Before delivery as a complete or multiple assembly unit for easy installation on board, each winch is fully tested electrically and mechanically at our factory.

The series has a line pull ranging from 50 tonnes up to 300 tonnes, with initial speed up to 25m/min and with brake holding capacity up to 450 tonnes. Each winch is available in single or double drum side-by-side configuration to meet various design and operational requirements. The drums are designed to carry a few kilometres of steel wire rope as well as large-diameter low specific weight fibre rope. A socket compartment is also available as an option if required by a customer.

These winches are driven by AC variable frequency electric motors through enclosed helical bevel gearboxes. They also feature a fresh-water-cooled hydraulic or pneumatic drive disc brake system for smooth change-over between various speed ranges, from static to dynamic and during dynamic lowering operation. These winches are driven by a regenerative multi-drive system offering various benefits compared with traditional single-drive solutions, such as space saving, less wiring and more redundancy. The regenerative energy can be easily fed back into the ship's main power system by using Active Front-End (AFE) technology with ultra low harmonics capability, or dissipated through the braking resistor. Variable frequency control allows the winch speed to be steplessly controlled with high precision. Direct Torque Control (DTC) also offers accurate static and dynamic speed and torque control which are essential during various deepwater mooring leg installation operations.

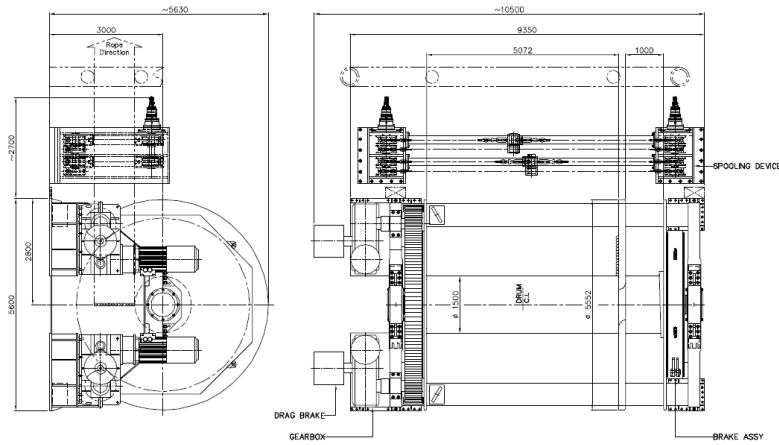
TECHNICAL INFORMATION

eSCW series – winches





### Typical general arrangement:



Each winch is equipped with an independent electrically or electro-hydraulically driven spooling device mounted on the winch or supplied as separate units for the yard to install on deck. The spooling rollers can open to allow shackles to pass, controlled locally or remotely from the wheelhouse.



### General information:

Model	Line Pull (tonnes)	Drum Capacity (fiber rope)
eSCW-0508	50	1,300m x 86mm dia
eSCW-0812	75	1,300m x 203mm dia
eSCW-1015	100	1,600m x 203mm dia
eSCW-1522	150	1,800m x 203mm dia
eSCW-2030	200	available on request
eSCW-3045	300	available on request

Note: All drums can stow a few kilometres of steel wire rope or can be customised according to your needs.

The winches can be controlled locally, from a position next to the winch, as well as remotely from the wheelhouse. All control features including length, speed and the tension monitoring system can either be incorporated in one or two touch screens and remote control panels, or they can also be integrated into an ergonomically-designed operator chair with two joysticks located in the armrests.

Manuals, trouble shooting and maintenance information are provided on the touch screens.

## Green technology for the next generation!



Lloyd's Register Quality Assurance certifies that the Quality Management System for Cargotec Marine is ISO 9001:2008 compliant.

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**MacGregor** is the global market-leading brand in marine cargo handling and offshore load-handling solutions. Customer-driven MacGregor engineering and service solutions for the maritime transportation industry and the offshore load-handling and naval logistics markets are used on board merchant ships, offshore support vessels, and in ports and terminals.



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