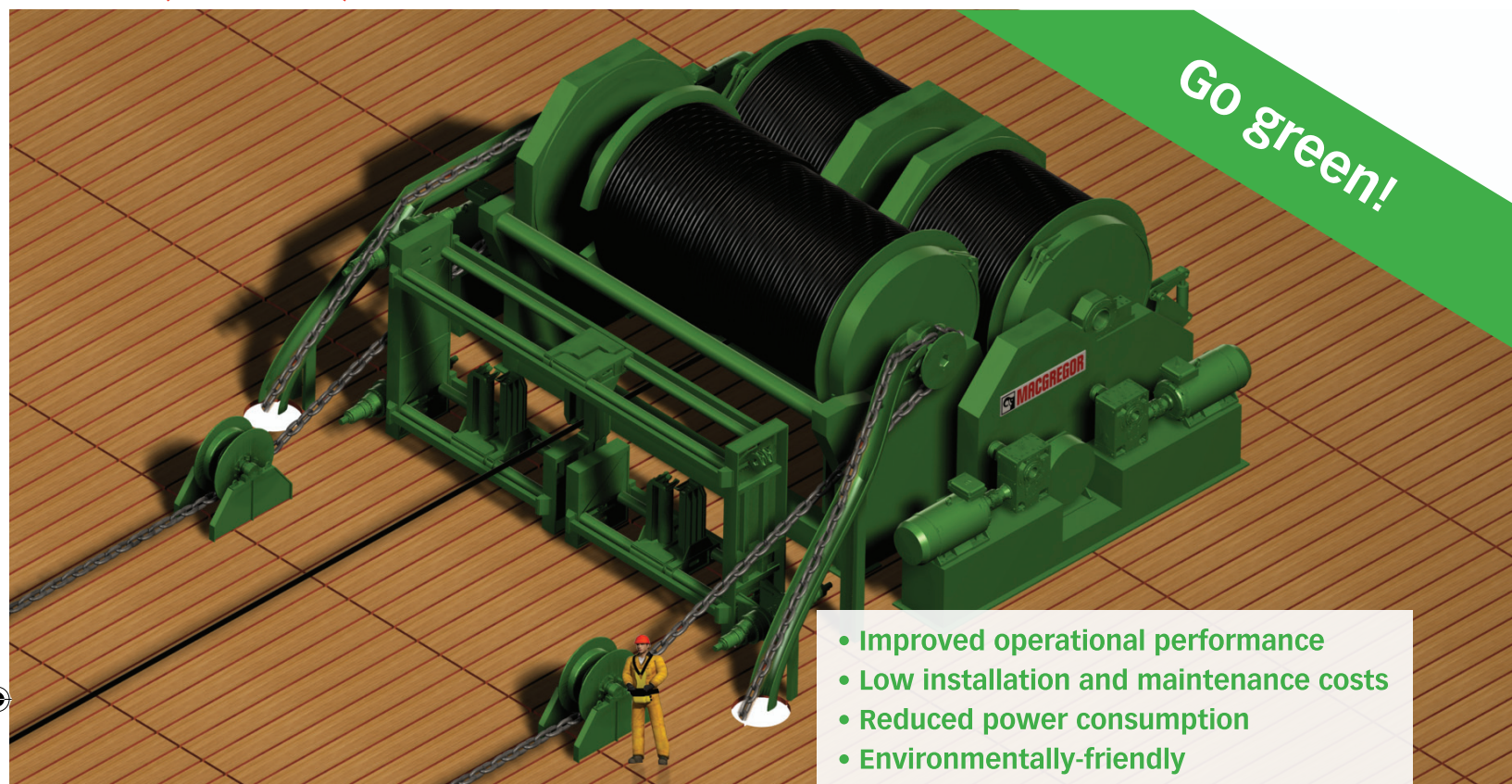




Electric anchor handling/towing winch (eAHT) series



The electric MacGregor anchor handling/towing winch (eAHT) series inherits the best characteristics of proven designs, which ensures safe operations and easy maintenance. It also combines improved operability with a low environmental impact, reduced power consumption and low installation costs.

All eAHTs are designed to meet the most stringent offshore standards, including those set by the Norwegian Maritime Directorate (NMD). Each winch is fully tested electrically and mechanically before shipping, and can be delivered as a complete unit or multiple assembly units for easy installation on board.

The eAHT series comprises winches with line pulls ranging from 200 tonnes to 600 tonnes, with an initial speed up to 25m/min and with a brake holding capacity up to 800 tonnes. Each winch is available in double or triple-drum configuration to meet various designs and operational requirements. The drums are designed to carry a huge capacity of steel wire rope, as well as large diameter low specific weight fibre rope. The extended shaft connections at both ends of the winch are suitable for fitting chain wheels to handle chains ranging from 76mm diameter up to 160mm diameter. The chain wheels changing tasks can be performed safely and efficiently by chain wheel manipulator (CWM) even the vessel is in adverse sea conditions.

The winches are driven by an AC variable frequency electric motor through an enclosed helical bevel gearbox. They also feature a freshwater-cooled hydraulic or pneumatic disc brake system allowing smooth changing between operational speed modes, from static to dynamic and during dynamic-lowering operations. They also have a regenerative multi-drive system, which offers various benefits including space savings, reduced wiring and greater redundancy when compared with traditional single-drive solutions. The regenerative energy can be easily fed back into the ship's main power system using Active Front-End (AFE) technology which has ultra-low harmonics capability; alternatively it can be dissipated through the braking resistor.

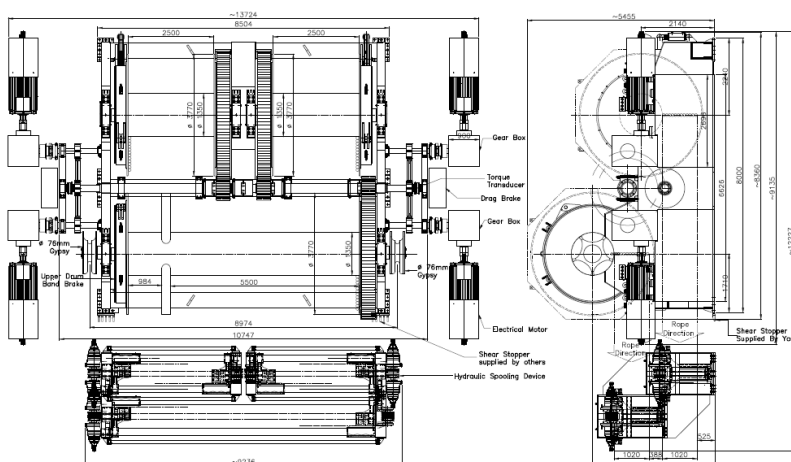
TECHNICAL INFORMATION

eAHT series – winches





Typical general arrangement:



Inverter control allows precise winch speed management. Direct torque control (DTC) offers accurate static and dynamic speed and torque control, which are essential for a variety of anchor-handling operations.

The winches are equipped with independent electrically or electro-hydraulically driven spooling devices, which can be supplied as separate units for the yard to install on the winch compartment bulkhead or on the deck. The spooling rollers are able to open to allow passing shackles. The winch and spooling device can be controlled both locally and remotely from the wheelhouse.

General information:

Model	Line Pull (tonnes)	Drum Capacity (SWR)
eAHT-2030	200	1,500m x 76mm dia
eAHT-2535	250	2,000m x 76mm dia
eAHT-3045	300	3,000m x 83mm dia
eAHT-3550	350	4,500m x 89mm dia
eAHT-4055	400	4,500m x 96mm dia
eAHT-5060	500	available on request
eAHT-6080	600	available on request

Note: All drums can accommodate fibre rope and can be customised according to your specific needs.



All control features, including the length, speed and tension-monitoring system, are incorporated in one or two touch screens and remote control panels. Alternatively, these controls can be integrated into an ergonomically-designed operator chair with two joysticks located in the armrests.

Operating manuals and trouble-shooting and maintenance information are also available on the touch screens.

Green technology for the next generation!



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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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