Fact Sheet

Rauma Brattvaag™

Electric, three speed drive anchoring and mooring systems for merchant vessels

Rauma Brattvaag electric, pole-changing drive controlled anchoring and mooring systems are well-proven deck machinery solutions for passenger and cargo vessels. With over 60 years of experience, Rauma Brattvaag builds high quality, thoroughly workshop tested systems in an ISO 9001 certified environment.

These systems conform to major international standards and meet all rules and regulations presently in force.

Construction and structural design

The electric anchoring and mooring systems consist of three basic components: the winch itself with an electric motor, a starter for the motor and one or more freely locatable control stands. This enables easy installation, even at a late stage of vessel's construction. Modular design enables a wide range of sizes and configurations. The drum dimensions and the main shaft line are intentionally open design parameters in order to meet all vessel-specific requirements for deck layout.

Starter and control systems

The speed and direction control contactors for the electric motor are located in a splash proof starter cabinet equipped with an anti condensation stand-still heater. The cabinet contains also all other control and protection devices needed for the system. Speed and direction changes are accomplished by means of a controller mounted either on a fixed stand or in a portable unit. The fixed stand is protected against heavy seas and it contains all necessary settings, safety and monitoring devices.

Electric motor

The three-speed pole-changing electric motor contains settings for three different rope speeds. The motor is protected against heavy seas. To illustrate extreme reliability, cruise ferries on the Sweden-Finland route perform successfully over one thousand moorings annually using this kind of drive system.

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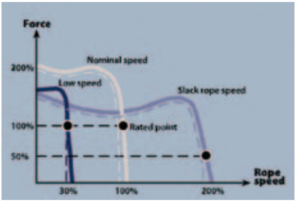
Performance characteristics

Electric pole-change systems have three speeds, each used at different stages of operations. High slack rope speed is used in no-load condition. Normal speed is used in mooring and anchoring and for hauling in and out with nominal speed and force. Slow speed with nominal force is the way to finely adjust the mooring rope, to start hauling or to nest the anchor in windlass use.
Electric system is always ready for immediate start, whatever are the climate conditions.



Options

Winches

- auto-tensioning system keeps the tension in the mooring line within preset limits. Automatic shutdown and alarm functions are standard in the system.
- remote control for drum brakes and clutches
- fixed or portable controllers locatable at any distance from the winch
- centralised remote control console
- stainless steel brake drum surface

Windlasses

- automatic remote control for anchor lowering
- closed type gearing
- cable length indicator
- chain stoppers
- stainless steel brake drum surface

04.RaBr-2 of 2-23.08.05

Rolls-Royce

Rolls-Royce Oy Ab
P.O. Box 220, FIN 26101 Rauma, Finland
Tel: +358 (0) 2 83 791 Fax: +358 (0) 2 8379 4913
Rolls-Royce Marine AS
Dept. Deck Machinery - Brattvaag
Aarsundveien 24, N-6270 Brattvaag, Norway
Tel: +47 70 20 85 00 Fax: +47 70 20 86 00
www.rolls-royce.com