



Rauma Brattvaag™

Anchoring windlass for merchant vessels

Rauma Brattvaag electric and hydraulic anchoring and mooring systems are well proven and compact deck machinery solutions for all cargo and passenger 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 the rules and regulations presently in force.

Cable lifter - modular design

Rauma Brattvaag modular design made up of standard modules offers tailor-made solutions to suit specific customer requirements or drive preferences. Windlass is made up of cable lifter unit, pinion shaft, clutch and brake modules.

Modular design concept eliminates the prototype risks often associated with traditional tailor-made one-off solutions and enables more reliable spare part supply.

The range of Rauma Brattvaag modular cable lifters extend to 137 mm chain diameter. On request larger diameter is also available.



Anchoring by hydraulic motor - dynamic braking

Rauma Brattvaag low pressure hydraulic system enables anchor lowering with dynamic braking, which gives full control of the anchor drop operation.

Operation can be effected either locally by the windlass or by means of remote control from anywhere on the deck or the bridge.

When lowering, the pump unit supplies oil through the control valve into the working chamber of the hydraulic motor. Oil passes a lowering limit valve and returns to the pump unit. The lowering speed of the anchor corresponds to the quantity of oil through the system and the position of the control lever.

During lowering the total amount of oil passes through the hydraulic motor. The speed of the anchor chain will increase depending on the pull force and position of the control lever. When the speed increases above the maximum, the pressure at inlet of the motor will be reduced. The lowering limit

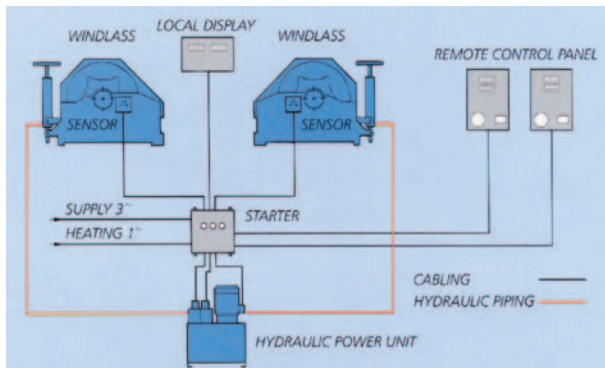
valve will then close to restrict the oil flow in order to increase the pressure at inlet. This operation will then reduce the lowering speed of the anchor in compliance with the position of the control lever.



Remote controlled anchoring by band brake

Regardless of drive motor, hydraulic or electric, windlass can be equipped with remote controlled brake. The system includes a hydraulic power pack with starter, a band brake with fail-safe type hydraulic cylinder, sensors for rotation speed, remote control panels and displays.

Automatic closed loop control regulates the anchor lowering speed keeping it within preset limits.



Windlass options

- stainless steel brake drum surface
- chain stopper
- remote controlled anchor lowering
- fail-safe brake
- cable length indicator
- closed type gearing

Global and local

Rolls-Royce support provides a comprehensive capability to improve availability with lower through-life costs. An important part of this strategy is a global and local approach, which includes a commitment to the local language and culture so that Rolls-Royce can work closely with all customers, wherever they are.

With offices in 24 countries, Rolls-Royce Marine offers an unequalled support capability. This international Global Support Network has a team of more than 500 personnel, of whom over 200 are service engineers.