RF90-8.5RT-540



power supply	hydraulic
attachment of the sail	with profile
max. headstay length	100 m
forestay (rod size)	-540
carbon profiles	S10
max. oil flow motor	150 l/min
max. stay load	98 t
max. pressure motor	210 bar
max. tack load	15 t
stroke	400 mm
weight	660 kg
B	630 mm
H	336 mm
L	680 mm

RF90-RT – Hydraulic furling system with hydraulic Real-Time forestay adjuster for above-deck installation

The RF90 is a hydraulic high-performance reefing system for foresails, built to be virtually maintenance-free and to deliver maximum performance and longevity. Its integration of spiral-mesh gearing, a sophisticated bearing layout and a self-braking worm gear results in an exceptionally smooth and quiet system that meets the highest industry standards.

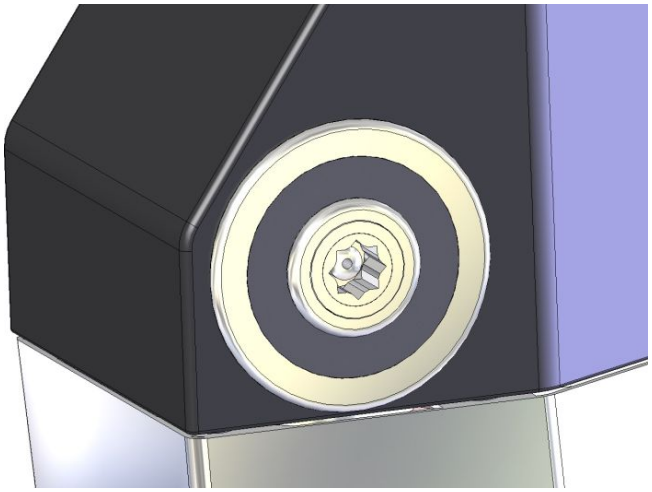
The RF90-RT version adds a decisive performance feature: the ***Real-Time Adjuster (RT).***

With the Real-Time Adjuster, forestay tension can be actively changed *while* sailing. The system is equipped with a integrated hydraulic adjustment cylinder. At an operating pressure of 100–275 bar, the cylinder carries the full forestay load and provides an adjustment range of 100–600 mm (pressure and stroke depending on size). This allows precise control of forestay tension in real time, enabling optimal sail shape and mast trim under changing wind and sea conditions.

The RF90-RT is particularly advantageous on **yachts with two permanently installed forestays** (inner and outer forestay). Typically, one of these stays is fixed, while the second is intended to be actively tensioned whenever the sail attached to it is in use. This is exactly where the Real-Time Adjuster comes into play: changing between sails becomes fast and clean while maintaining optimal rig geometry at all times.

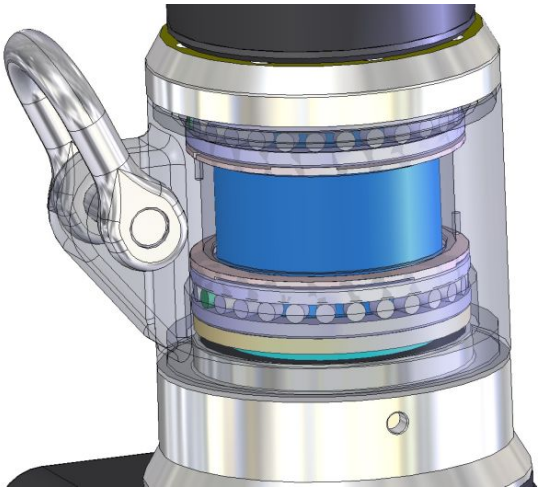
In addition, the RT system allows precise measurement of the **actual forestay load in real time** by integrating a **pressure sensor** into the hydraulic cylinder line. Rig tension becomes a measurable parameter rather than an estimate, enabling reproducible trim settings, objective load monitoring and a new level of control for both performance sailing and structural safety.

Features



Emergency Manual Backup

The unique manual drive ensures the greatest possible level of security. By simply inserting a standard winch handle, the electric drive will disconnect and switch to manual operation. Due to this special gear mechanism that prevents sail forces from transferring to the winch handle, the reefing system can be safely and easily operated, even when in manual mode.



Tack Swivel Ring Bearings

The furler tack swivel rings have a double axial bearing. This means that even heavy loads can be carried reliably. In order to avoid point loading on the bearings, loads are distributed using distribution plates over the whole bearing.



Integrated Real-Time Adjuster

With the Real-Time Adjuster (RT), forestay tension can be actively changed *while* sailing. The integrated hydraulic adjustment cylinder allows precise control of forestay tension in real time, enabling optimal sail shape and mast trim under changing wind and sea conditions.

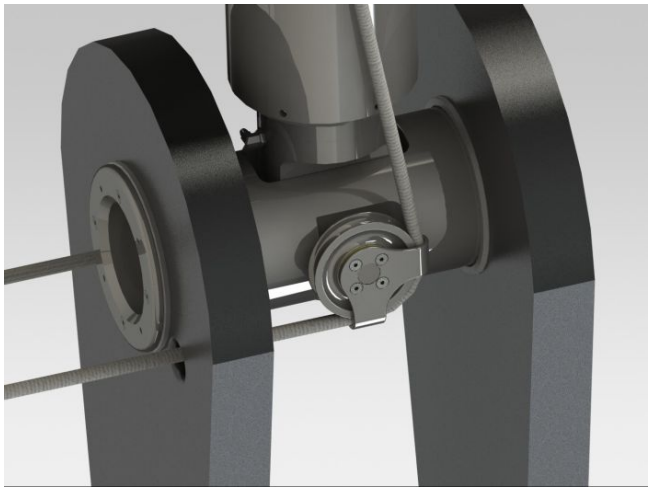
Features



Halyard Swivel FS

The Reckmann high-performance halyard swivels turn with extremely low amounts of friction, thereby guaranteeing a secure operation without twisting the halyard. The compact design and size graduation ensure a low weight aloft.

Find out more about the Reckmann Halyard Swivel FS.



Chainplate Pin

This new development from Reckmann means there is no need for a toggle. The compact design makes it possible to save on toggle length. The design can be integrated, load-optimised, into carbon fibre structures.



Tack Slider

The tack slider or floating tack swivel allows the sail luff to be tensioned independently of the stay. This is a necessary addition, specifically with sails that have a halyard lock.

Find out more about the Reckmann Tack Slider TKS.

Features



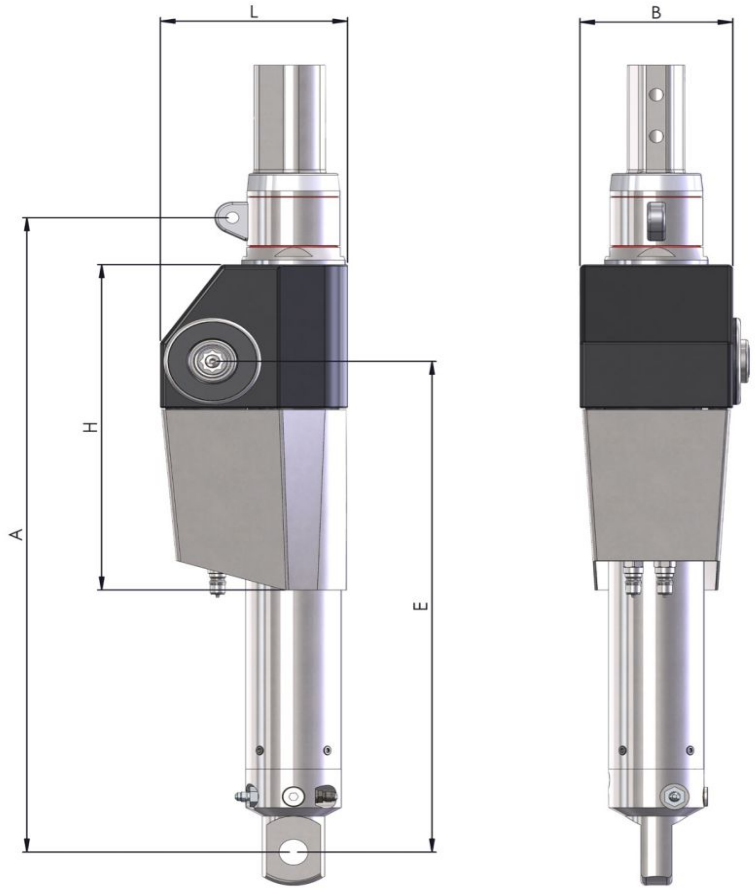
Carbon Foils

Our carbon profiles offer high resistance and low weight at the same time. A weight reduction of 50-60 % in comparison with conventional aluminium profiles means that there is a significant improvement in performance.

Find out more about the Reckmann carbon profiles.



RF90-RT – Hydraulic furling system with Real-Time forestay adjuster



Dimensions RF90-RT – see table for more information