RF90-4DS-91



power supply	hydraulic
attachment of the sail	with profile
max. headstay length	42 m
forestay (rod size)	-91
ø forestay (wire)	22 mm
aluminium profiles	R5, R6
carbon profiles	S5, S5.5
max. oil flow motor	35 l/min
max. stay load	18 t
max. pressure motor	140 bar
max. tack load	3 t
stroke	110 mm
weight	66 kg
A (adjuster fully retracted)	690 mm
B	166 mm
E (adjuster fully retracted)	481 mm
H	446 mm
L	235 mm

Hydraulic furling system for above-deck installation

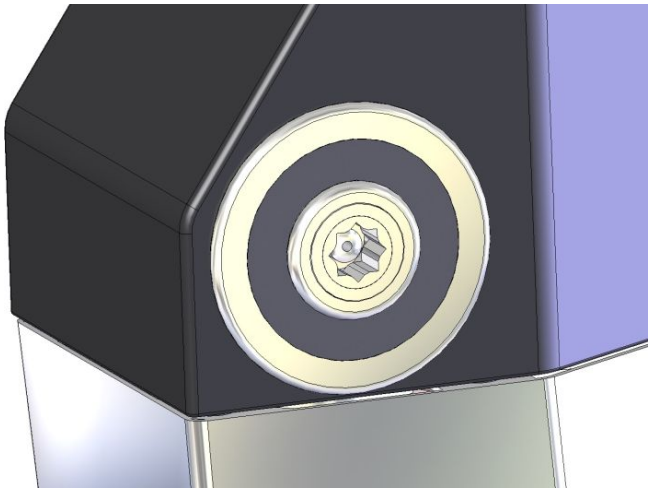
The RF90 is a hydraulic high performance reefing system for foresails built to be **virtually maintenance free** and with superior gear technology these systems offer maximum performance and longevity. The integration of spiral-mesh gearing, sophisticated bearing design and a **self-braking worm gear**, result in a quiet and smooth running system, which meet the highest industry standards.

All systems in this series are equipped with an easy-to-operate **integrated length adjuster** for optimal mast tuning.

Starting with model RF90-5, the adjuster is additionally supported by an **integrated hydraulic relief cylinder**. This small hydraulic cylinder temporarily reduces the load on the turnbuckle, significantly lowering the adjustment forces required during rig tuning.

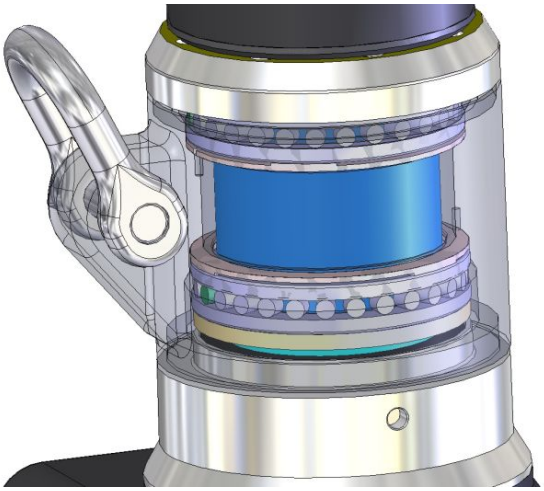
For operation, an external hand pump is connected to a fitting at the eye terminal to apply hydraulic pressure to the relief cylinder. This allows the length to be adjusted smoothly and precisely even under high forestay loads – a decisive advantage for larger yachts and high-tension rigs.

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 length adjuster

The integrated length adjustment mechanism is designed as a *Dockside Adjuster (DS)* for precise rig tuning in port. It is designed for precise rig tuning in port and can be easily accessed and adjusted from the outside using simple tools. This allows accurate adjustment of forestay length, rig trim and mast rake while the yacht is docked.

Starting with model RF90-5, the turnbuckle is additionally supported by an integrated hydraulic relief cylinder for smooth adjustment even under high forestay loads. Operating is done by connecting an external hand pump to a connection fitting on the eye terminal.

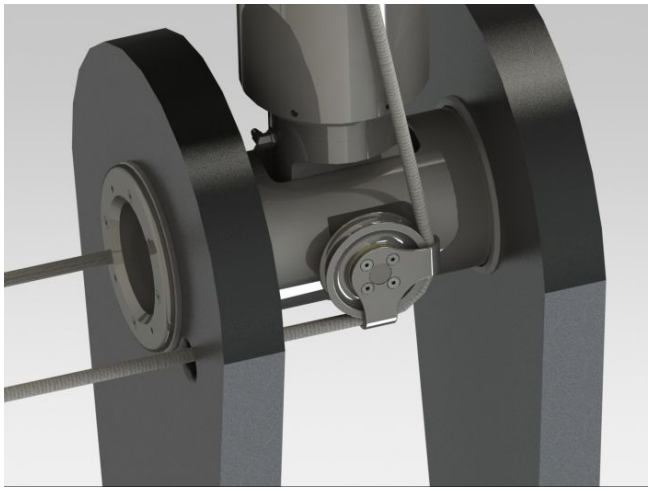
Features



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



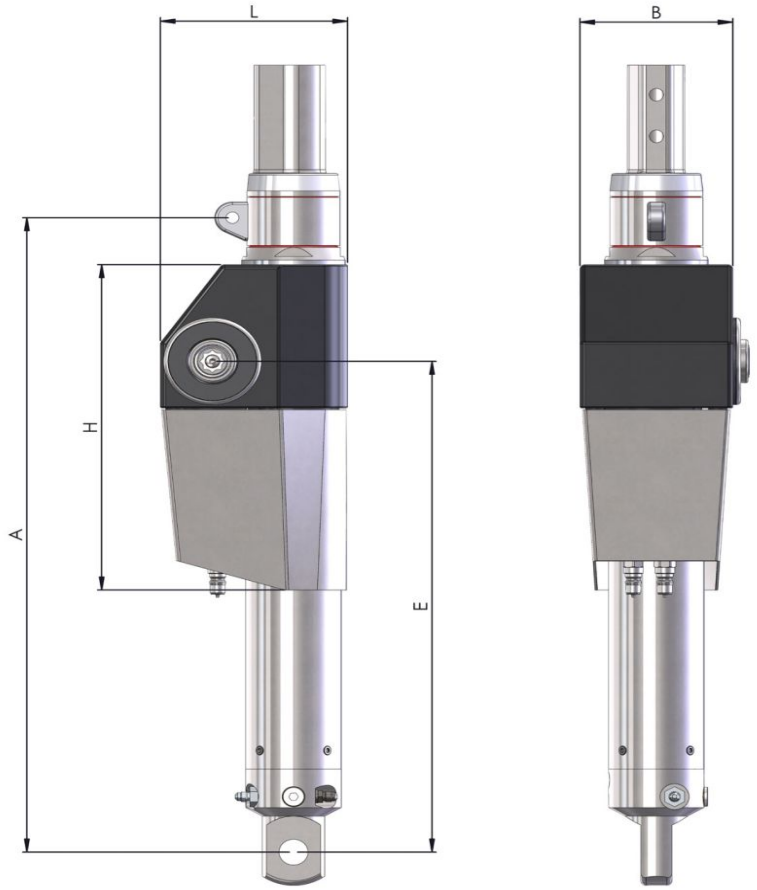
Carbon Foils

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-DS – Hydraulic furling system



Dimensions RF90-DS – see table for more information