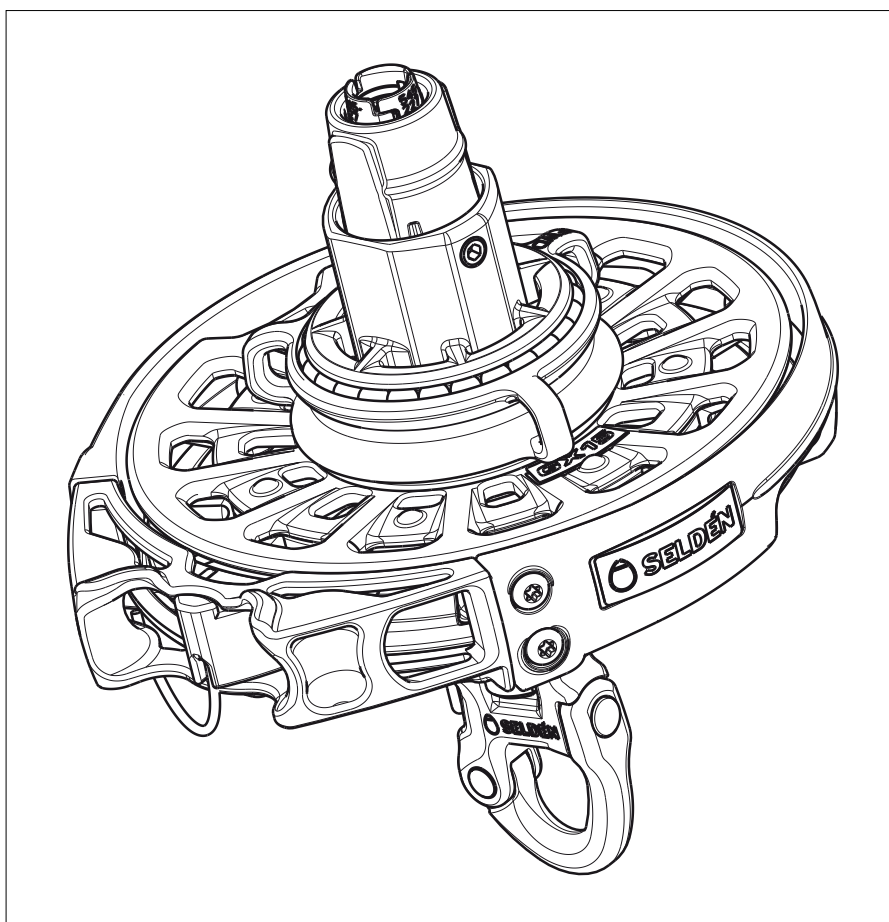


Manual Seldén GX7.5, GX10 & GX15 Furling system for Gennakers



Product information

The SELDÉN GX- systems are made for Gennaker sails which do not have an anti-torsion rope sewn into the luff of the sail.

The SELDÉN GX-systems works on the principle of “Top Down Furling”. The head of the sail is attached to the halyard swivel and the tack is attached to the freely rotating tack ring on the lower swivel while the luff of the sail is free flying. The rigid anti-torsion rope connects the halyard swivel and the lower. When turning the drum the anti-torsion rope makes the halyard swivel and the top of the sail furl first, while the tack is independent on the tack ring. This makes for a tightly furled sail from top to bottom.

The SELDÉN GX-systems are manufactured from glass filled polyamide and stainless steel. The line driver has 14 aluminium teeth inserted in the drum. The design ensures a good grip on the endless line, yet allows the line to be easily disengaged when unfurling.

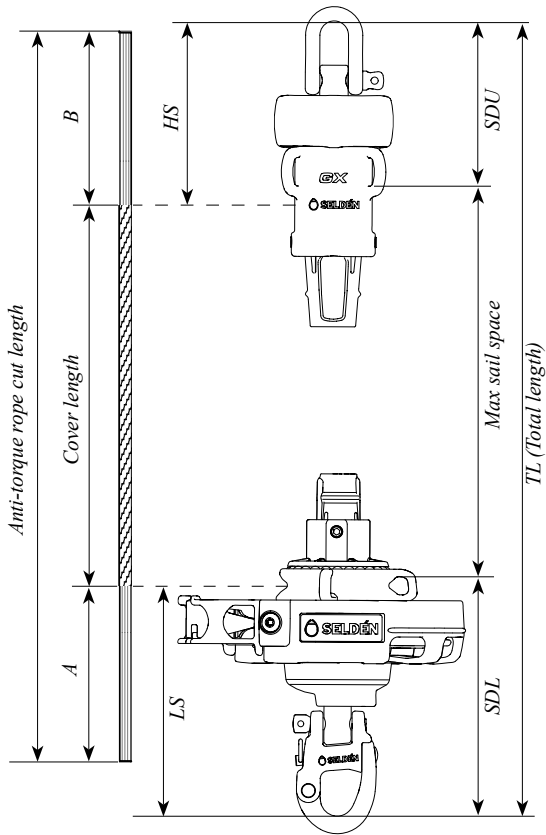
The SELDÉN GX-systems has sealed and maintenance-free bearings. Just rinse the system with fresh water, let it dry and store in the boat, preferably together with the sail.

Seldén GX models

Model	Art. no. Basic kit	Drum size, Ø mm	Safe working load, kN	Max suggested sail area
GX7.5	545-018-10	105	7.5	50 m ²
GX10	545-118-10	120	10	80 m ²
GX15	545-218-10	150	15	115 m ²

GX-Dimensions

Seldén GX - Gennaker Top Down Furling system



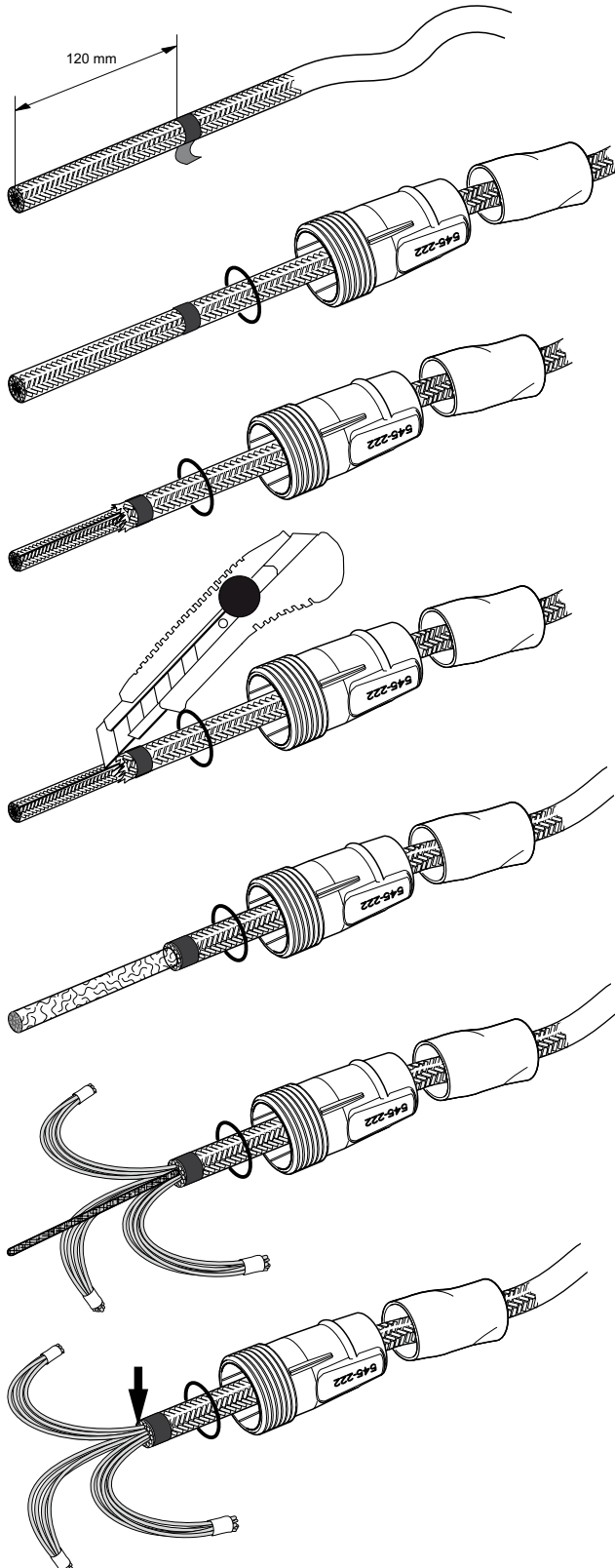
GX dimensions

System	Maximum sail space (TL-SDL-SDU) ¹⁾		AT-rope (TL-LS+A-HS+B)				AT-rope dimension, Ø mm
	SDL mm	SDU mm	LS mm	HS mm	A mm	B mm	
GX7.5	100	70	100	70	120	120	8
GX10	105	70	110	70	120	120	10,5
GX15	115	80	120	75	120	120	13

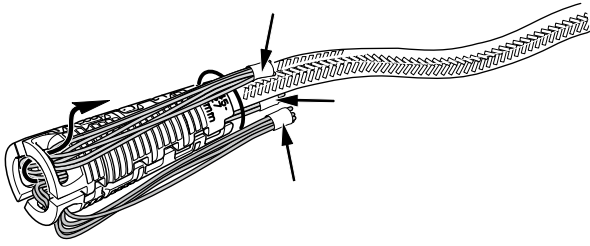
¹⁾ System Maximum sail space includes space for lashings.

Assembly of Line-Lock terminals

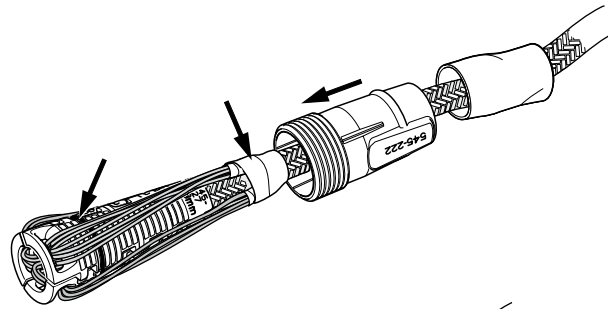
Both halyard swivel and the lower swivel have Line-Lock terminals. We recommend assembling them one at a time. Don't cut the anti-torsion cable (AT-cable) until the first terminal assembly is finished. The line lock terminal is designed for AT-cables supplied from Seldén.



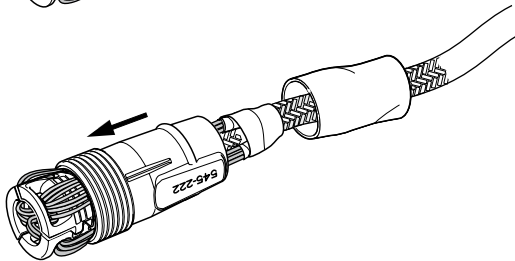
1. Mark the anti-torsion cable (AT-cable) with a thin tape as shown. Max tape width = 5mm.
2. Remove the O-ring from the Jaws. Feed the heat shrink hose, socket and the O-ring onto the AT-rope.
3. Remove the outer cover. Cut with a scissor at the base. Leave the tape in place.
4. Cut the inner cover carefully along the cable, using a Utility knife. Avoid cutting into the underlying core. However, small damage is acceptable as the core at this place is stronger then necessary.
5. Peel off the inner cover from the core. Cut with a scissor at the base
6. Divide the core strands into 3 equal groups. Put a tape onto the 3 ends.
7. Cut the centre composite rod at the tape level



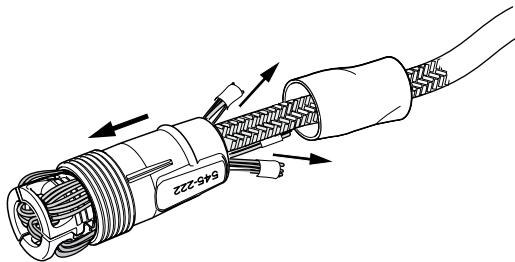
Feed each core into the hole at the bottom of a Jaw. Place the Jaws, evenly distributed onto the AT-cable and lock them in position with the O-ring. The end of the cover on the AT-cable should be hardly visible. The O-ring should be mounted into the groove close to the bottom of the jaws. See item 10.



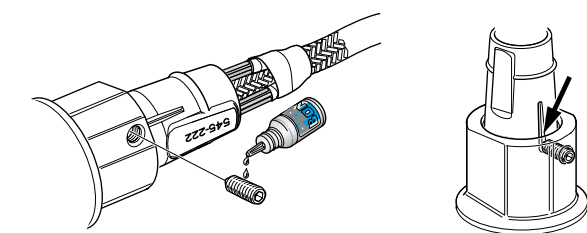
9. Pull the 3 core strands equally and secure them in the shown position with tape.



10. Push down the socket onto the jaw/strands.

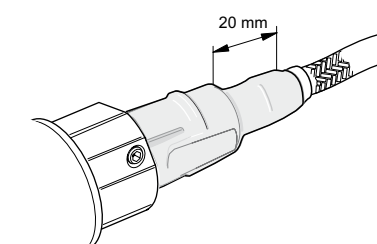


11. Remove the tape, fitted during step 9, and pull the 3 strand groups evenly while the Socket is pressed down over the jaw/strands as hard as possible.



12. Fit the assembly to the swivel socket. Tighten the rope-lock terminal hard. Release until the groove in the socket aligns with the grub screws. Apply locking adhesive and tighten the grub screw.

13. Cut the residual core strands.



14. Move the heat shrink hose over the socket and shrink it with a heat gun. Be carefull not to melt the rope cover. High quality tape can also be used.

Fitting the endless line

Assembly

1. Pull on the red lanyard and remove the wedge-shaped divider. Rotate the system so that notches in the stainless steel line guard and the linedriver are aligned (fig 1.1a).
2. Feed the endless line through the line guide and up through the central notch. (fig 1.1b).
3. Holding one side of the endless line in the linedriver notch, rotate it with the linedriver for a complete circle. Check that the line remains in the linedriver notch throughout the operation. It is normal for the line to be compressed slightly during this process.
4. Remove any twists or kinks in the endless line, then refit the divider wedge.

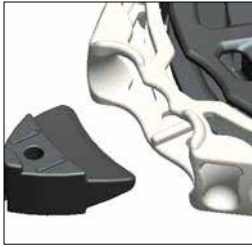


Fig. 1



Fig. 2



Fig. 3



Fig. 4

Removing the endless line

The method is a reverse of the fitting sequence.

General

The recommended endless line is 10 mm diameter 16/16 braid/braid polyester. Seldén can provide pre-spliced endless lines in a variety of lengths. For normal operation, the endless line is led aft to the cockpit. Alternatively, a short endless line can be operated on the foredeck.

A longer endless line will operate more effectively, as the residual friction in the line being pulled forward will assist full engagement in the linedriver.

Line Guide

To allow minimal deflection of the endless line as it enters the linedriver, the line guide can be adjusted through 360 degrees in 15 steps. To adjust the angle, loosen the lock screw B by a few turns, rotate the bracket to the desired position. Push the line guide upwards, apply locking adhesive and retighten the screw.

If no satisfactory position is found, loosen the snap shackle and rotate the system 180°. Alternative lock screw positions are now available.

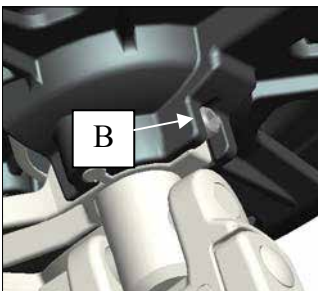


Fig. 5

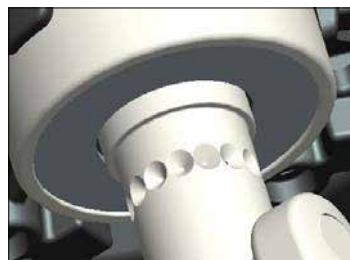


Fig. 6

Operation

Attaching the sail

Attach the head to the Halyard swivel. Don't tighten the rope to hard. The sail must be free to turn 180°, when furling.

Connect a tackline to the Tack ring of the Lower swivel. The tackline should be able to adjust to achieve the correct luff shape for furling.

Unfurling the sail

Hoist the system and tension it with a winch. It's important that the Anti-torsion rope is not too loose during furling.

The typical deployment sequence is to slacken the endless line completely, then pull on the sheet. The system will rotate freely with minimal friction and the sail fully unfurls. If the system starts to unfurl at speed, do not attempt to use the endless line as a brake.

Furling the sail

Make sure the Anti-torsion rope is tensioned during furling. If the anti-torsion-rope is too loose it will create a corkscrew shape which impairs the furling performance.

When furling the sail, the forward loop must stay in contact with the linedriver teeth during the whole furling operation. Lock both ends of the endless line, to prevent accidental unfurling. For this purpose, use Seldén's Tandem block, PBB 50 Fiddle Twin-cam 405-001-40R.

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