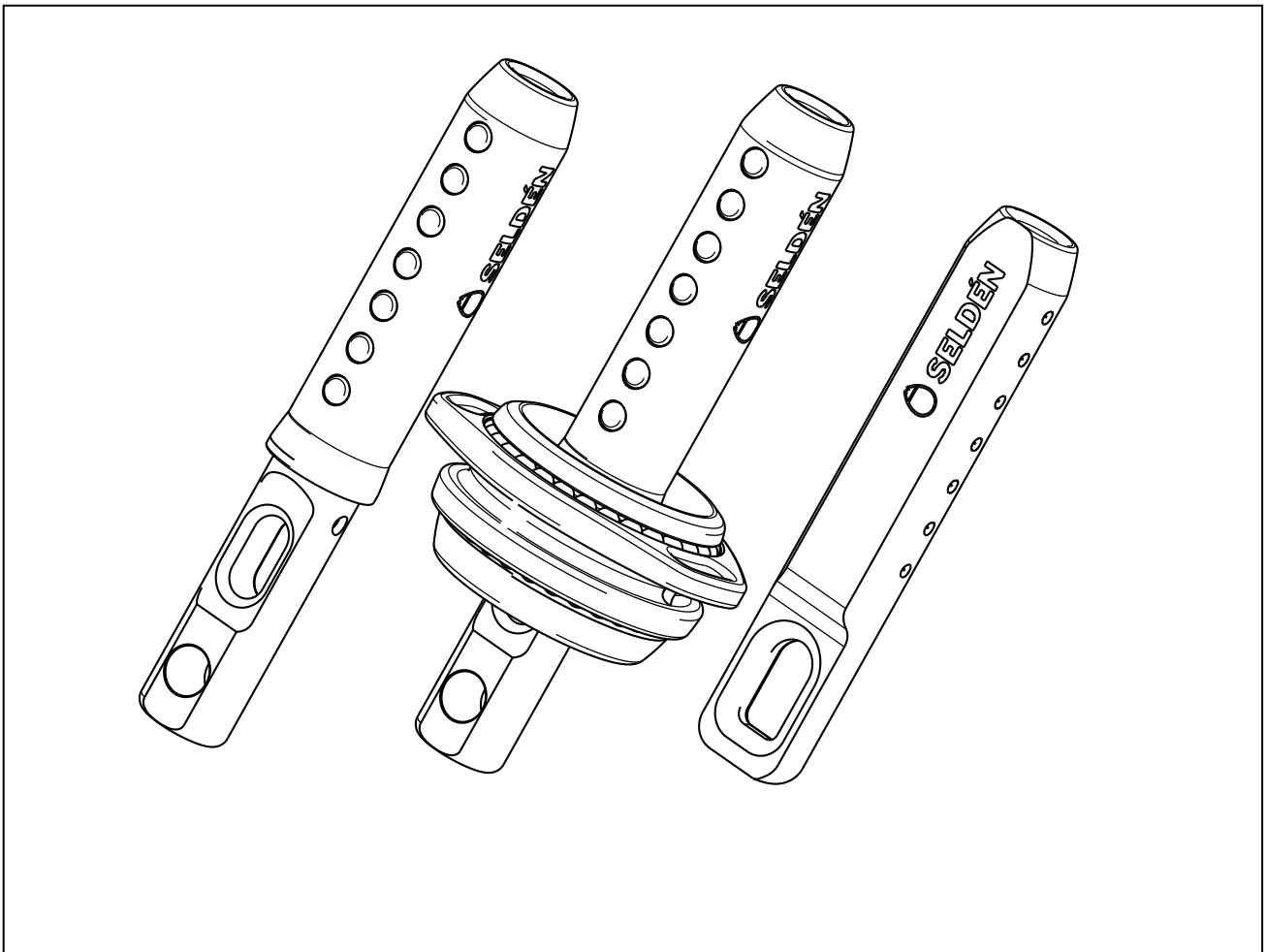


NT-9/11/13/15

NTL-7/9/11/13

Nail terminal for furling cable

Manual and spare parts list



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1 Introduction

This manual covers the assembly of Seldén Nail terminals and accessories.

Please read the entire manual before assembly/usage and keep the manual available for future reference. The latest version is available at www.seldenmast.com.

Related installation manuals and user guides:

CXr 597-890-E, CXe 597-963-E

Safety Precautions

Carefully pay attention to, and follow the instructions with the following symbols:



ATTENTION

This symbol indicates a critical moment in the assembly or technical advice.

Choosing the correct version of Nail terminal and accessories for your boat:

The key to a safe and properly working installation is correct dimensioning in relation to the boat size the products shall be used on. Seldén provides dimensioning guidelines in catalogues, leaflets and on the website. If there are any questions about selecting the right product, please consult an authorized Seldén dealer. All dealers are listed at www.seldenmast.com and divided in categories describing their competence.

2 Nail terminal

2.1 Product presentation



Seldén nail terminals are designed and tested for Anti torsion (AT) furling cables supplied by Selden Mast AB. Other brands of cable can be used but performance is not guaranteed by Seldén Mast AB.

The NT-terminals connect directly to a CX/CXr or CXe unit or via a tack swivel adaptor. A tack swivel can also be fitted to the terminal, see Accessories on page 7.

The NTL-terminals has a lashing end for soft attachment to sail and/or furling unit.

The terminals are machined from 6000-series aluminium and hard cote anodized. The nails are made from 17.4 PH stainless steel.

The nails are pressed or hammered all through the cable.

The NT-terminal is available in six versions. Additionally, at the request of some sailmakers, a one step-down (OSD) version is offered for each furling unit, intended for use with Code sails equipped with a smaller dimension AT cable.

Please note that the safe working load (SWL) for these configurations does not correspond to the SWL of the furling unit itself.



For top-down furling of an asymmetric spinnaker or gennaker, always follow Seldén's standard recommendations for AT cable dimensions. OSD terminals are not to be used in these applications.

Terminal	AT cable ø (mm)	Corresponding CX/CXr/CXe unit	Part no.	SWL (kN)
NT-9	9	10/15 OSD	301-315-01	10
NT-11	11	10/15	301-305-01	15
NT-11	11	25 OSD	301-316-01	15
NT-13	13	25	301-306-01	25
NT-13	13	45 OSD	301-317-01	25
NT-15	15	45	301-307-01	45

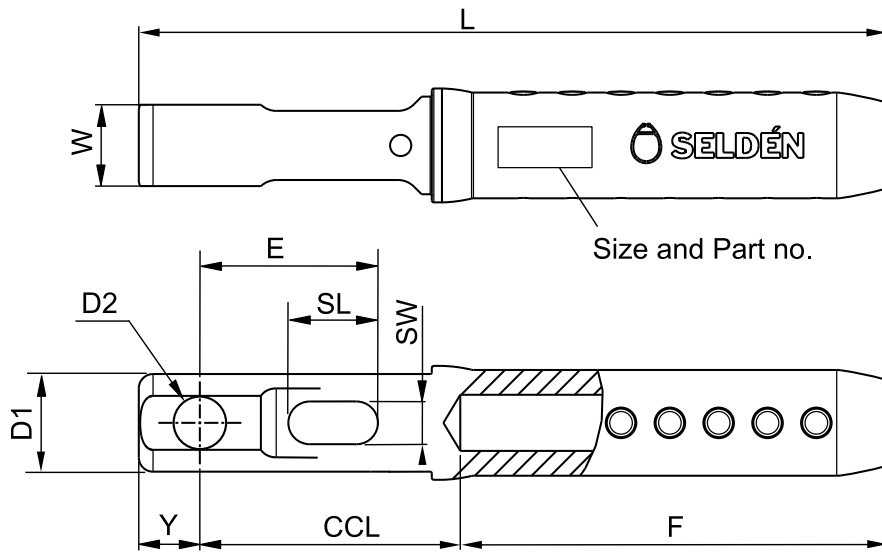
The NTL-terminal is available in four sizes:

Terminal	AT cable ø (mm)	Part no.	SWL (kN)
NTL-7	7	301-324-01	7
NTL-9	9	301-325-01	10
NTL-11	11	301-326-01	15
NTL-13	13	301-327-01	25

Included in kit:	Tools required:
Nail terminal (1x) Nails (Qty depending on size)	<ul style="list-style-type: none"> • Plastic tape (thin-not cloth) • Sharp knife (breakaway or equiv.) • Pen or marker • Measuring tape • Hammer, press or bench vice. • Support (wood or plastic)

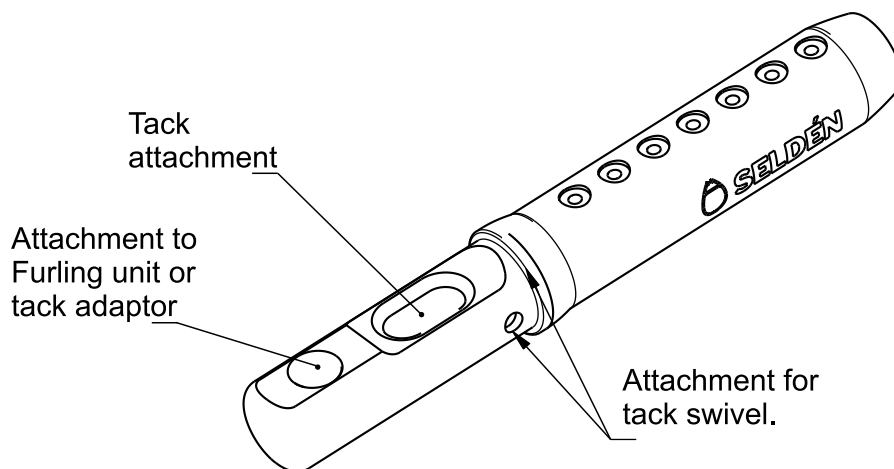
Tip! Anti-corrosive compound or caulking under the heads of the nails will protect from corrosion. The receiving holes on the opposite side of the terminal can also be filled after assembly. Wipe off any excess.

2.2 Technical details **NT**

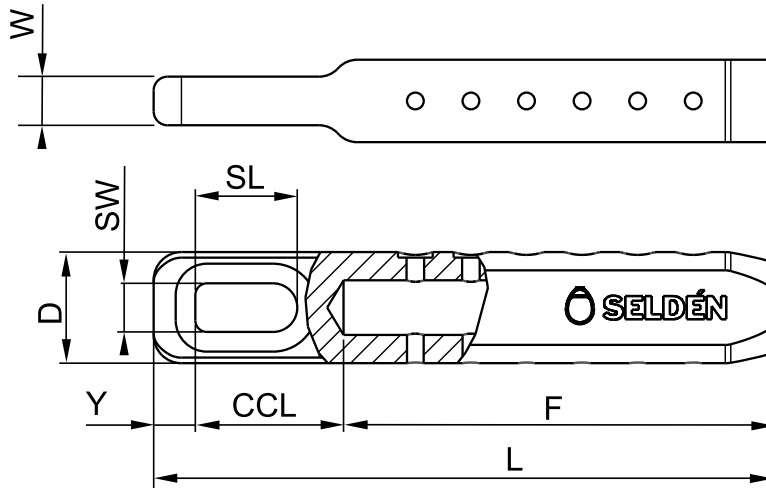


All dimensions in mm.

	NT-9	NT-11	NT-11	NT-13	NT-13	NT-15
Part no. →	301-315-01	301-305-01	301-316-01	301-306-01	301-317-01	301-307-01
L	165	165	172	184	198	235
W	16	16	20	20	20.5	20.5
Y	13	13	15	15	17	17
CCL	59	59	64	64	76	76
E	43	43	44	44	55	55
D1	22	22	24	24	31	31
D2	10.4	10.4	12.4	12.4	16.4	16.4
SL	22	22	22	22	25	25
SW	10.5	10.5	10.5	10.5	13	13
F	93	93	93	105	105	142



NTL



All dimensions in mm.

	NTL-7	NTL-9	NTL-11	NTL-13
Part no. →	301-324-01	301-325-01	301-326-01	301-327-01
L	97	128	134	153
W	8	8	10.5	12
Y	7	8	9	9.5
CCL	22	26	32	39
D	17	19.5	24	28
SL	15	17	22	25
SW	8.5	8.5	10.5	13
F	68	93	93	105

3 Assembly

3.1 Assembly preparations

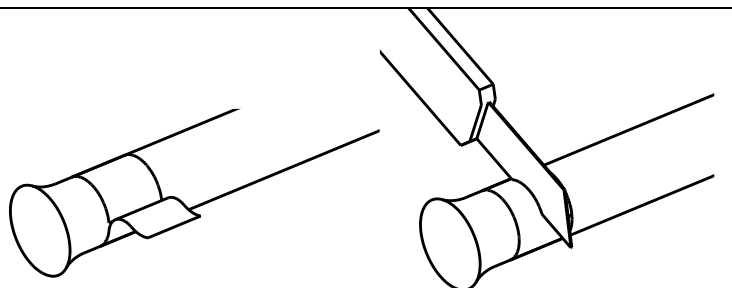
The nails can be hammered in but using a vice or a suitable press will facilitate the assembly.

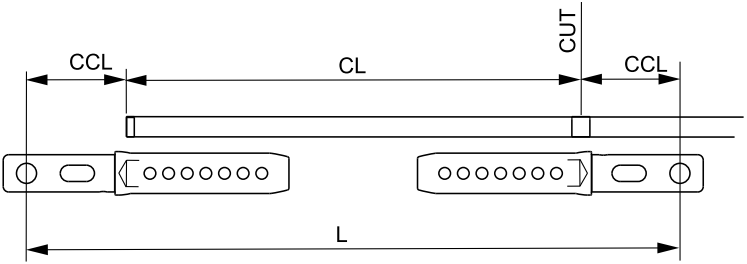
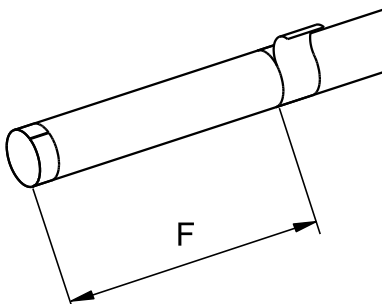
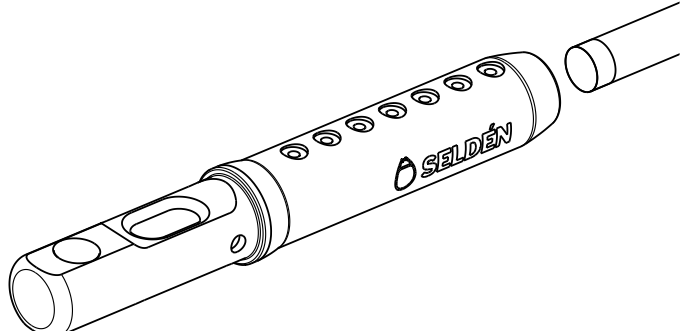
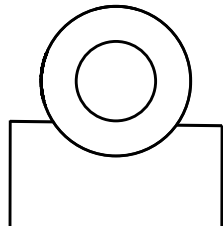
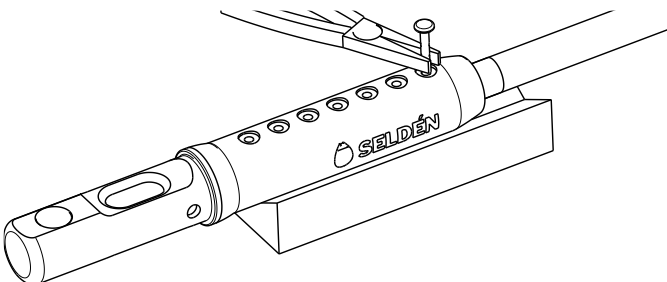



If using a hammer-hold the nail with a pair of pliers until the nail has penetrated the first portion of the cable. The cable is tough, and the nail might bounce back if held by hand.

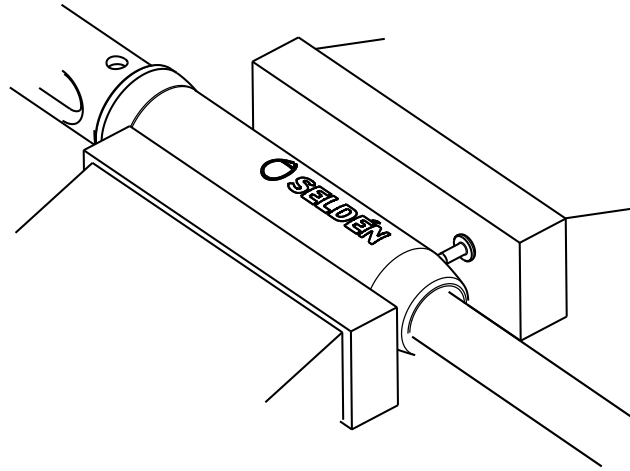
3.2 Step by step assembly

1. Wrap ~1.5 turns of a thin plastic tape hard around the cable ~20mm from the end. This will prevent the cover and strands from opening up. Make a clean cut in the middle of the tape. Cut all around before cutting through the core of the cable. Do not remove the tape.



<p>2. Verify the length (L) of the finished stay and deduct "CCL" for each terminal according to table on page 4 or 5. Mark the cutting length (CL) with tape and repeat the steps in point 1. Do not remove the tape.</p>	
<p>3. Mark terminal depth "F" with tape according to table on page 4.</p>	
<p>4. Insert the cable in the nail terminal. Make sure that the end of the cable bottoms out in the terminal and that the marking tape aligns with the top end of the terminal.</p>	
<p>5. Support the terminal on a firm surface. Use plastic or wood to prevent damaging the terminal.</p>	
<p>6. Make sure the cable bottoms out in the terminal and fit a nail in the first hole. Orient and hold the nail firmly with a pair of pliers during the first blows if a hammer is used. The first blow needs to be hard. Do not pre-drill. Make sure the head of the nail is fully seated. Repeat the steps above for the remaining nails.</p>	 <p style="text-align: right;">  Use protective eyewear! </p>

7.
The use of a vise or press will facilitate assembly. Use protection pads on the jaws. Ensure the nail is square with the terminal before pressed in.



4 Maintenance

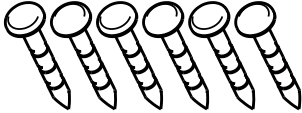
To minimize corrosion, avoid storing the sail in damp conditions for long periods of time. Rinse off the nail terminals and tack swivel with fresh water and let dry.

The nail terminals can be disassembled. Drive out the nails using a hammer and punch. Do not re-use the nails.

5 Accessories and spare parts

Set of nails

Nail terminal	Kit no.	Qty.
NTL-7	301-702-01R	5
NT/NTL-9	301-701-01R	6
NT/NTL-11	301-596-01R	6
NT/NTL-13	301-597-01R	7
NT-15	301-598-01R	8



Tack swivel for Nail terminal including HMPE tack line.

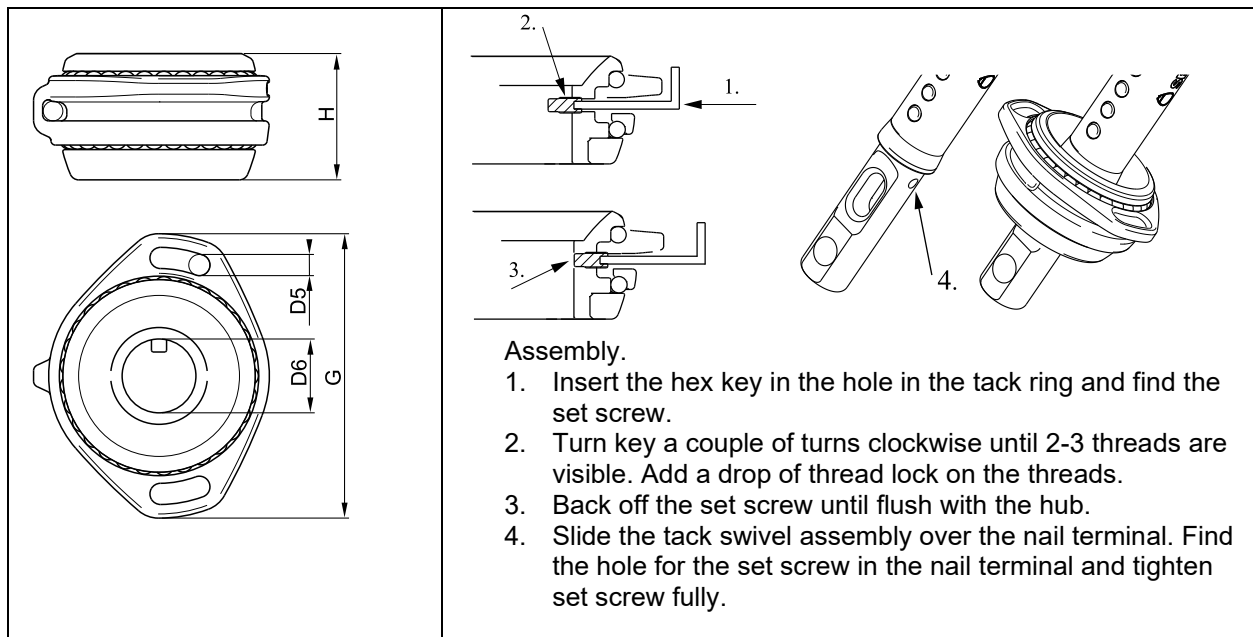
Nail terminal	Corresponding CX/CXr/CXe unit	Part no.
NT-9 301-315-01	10/15 OSD	546-120-10
NT-11 301-305-01	10/15	546-120-10
NT-11 301-316-01	25 OSD	546-220-10
NT-13 301-306-01	25	546-220-10
NT-13 301-317-01	45 OSD	546-420-10
NT-15 301-307-01	45	546-420-10



For top-down furling of an asymmetric spinnaker or gennaker, always follow Seldén's standard recommendations for AT cable dimensions. OSD terminals are not to be used in these applications.

Dimensions

Part no. →	546-120-01	546-220-01	546-420-01
G	80	94	118
H	37	42	55
D5	6	7	9
D6	22.5	24.5	31.5
HEX key (mm)	2.5	3	4



6 Warranty

Seldén Mast AB guarantees Nail terminal for 2 years. The guarantee covers faults arising from defective design, materials or workmanship.

The guarantee is only valid if the product is assembled, operated and maintained in accordance with this manual and is not subjected to loads more than those indicated in the brochure and on the Seldén website.

Complete shipment and warranty conditions are to be found on the Seldén website www.seldenmast.com. See Resources/Partners information/General information/General conditions of sale (595-546-E).

If the system is repaired or modified by anyone other than Seldén Mast AB or one of our authorized dealers, the guarantee ceases to be valid.

Seldén Mast AB reserves the right to alter the content and design without prior notice.

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